

GW - ____028__

2017

AGWMR

(6 of 7)

2018

TRC Solutions - Austin, TX

Sample Delivery Group: L905300
Samples Received: 04/27/2017
Project Number: 249545.0000.0000 000
Description: EP Spring 2017
Site: EP NAVAJO-ARTESIA
Report To: Julie Speer
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Entire Report Reviewed By:



Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Al: Accreditations & Locations

95

Sc: Chain of Custody

96

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-82 L905300-01 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 16:05

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974561	1	04/28/17 12:19	04/28/17 12:19	DR
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 19:55	04/28/17 19:55	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:06	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 12:25	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 15:34	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 21:59	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 01:48	04/28/17 01:48	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 00:17	04/29/17 00:17	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	5	04/27/17 18:37	04/28/17 23:16	DMG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-74 L905300-02 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 14:50

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974561	20	04/28/17 12:20	04/28/17 12:20	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 20:12	04/28/17 20:12	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 20:30	04/28/17 20:30	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:10	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 12:29	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:38	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:33	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 02:12	04/28/17 02:12	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 00:34	04/29/17 00:34	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	5	04/27/17 18:37	04/28/17 23:33	DMG

MW-73 L905300-03 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 14:05

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974561	1	04/28/17 12:21	04/28/17 12:21	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 20:47	04/28/17 20:47	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 21:04	04/28/17 21:04	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:13	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 12:33	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:41	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:37	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 02:37	04/28/17 02:37	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 00:51	04/29/17 00:51	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 20:45	DMG

MW-72 L905300-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:55

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:21	05/01/17 15:21	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 23:41	04/28/17 23:41	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 23:59	04/28/17 23:59	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:17	LAT

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-72 L905300-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:55

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:04	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:45	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:40	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 03:01	04/28/17 03:01	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 01:07	04/29/17 01:07	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 21:02	DMG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

OCD-6 L905300-05 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 10:05

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:27	05/01/17 15:27	DR
Wet Chemistry by Method 9056A	WG974574	1	04/29/17 01:08	04/29/17 01:08	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/29/17 00:16	04/29/17 00:16	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:20	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:08	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:48	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:44	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 03:25	04/28/17 03:25	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 01:24	04/29/17 01:24	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 21:19	DMG

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

OCD-7AR L905300-06 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 10:55

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:28	05/01/17 15:28	DR
Wet Chemistry by Method 9056A	WG974574	1	04/29/17 01:26	04/29/17 01:26	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/29/17 02:18	04/29/17 02:18	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:24	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:11	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:52	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:47	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 03:50	04/28/17 03:50	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 01:41	04/29/17 01:41	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 21:36	DMG

OCD-7B L905300-07 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 11:50

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:29	05/01/17 15:29	DR
Wet Chemistry by Method 9056A	WG974574	1	04/29/17 01:43	04/29/17 01:43	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/29/17 02:35	04/29/17 02:35	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:27	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:15	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 15:55	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:51	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 04:14	04/28/17 04:14	BMB

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



OCD-7B L905300-07 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 11:50

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 04:13	04/29/17 04:13	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 21:52	DMG

¹ Cp² Tc³ Ss

MW-5A L905300-08 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:35

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:31	05/01/17 15:31	DR
Wet Chemistry by Method 9056A	WG974574	1	04/29/17 02:01	04/29/17 02:01	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/29/17 03:10	04/29/17 03:10	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:31	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:19	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:59	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:55	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 04:38	04/28/17 04:38	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 04:30	04/29/17 04:30	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 22:09	DMG

⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

MW-5B L905300-09 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 13:30

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:32	05/01/17 15:32	DR
Wet Chemistry by Method 9056A	WG974574	1	04/29/17 02:53	04/29/17 02:53	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/29/17 03:28	04/29/17 03:28	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:34	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:22	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:02	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:58	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 05:02	04/28/17 05:02	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 04:47	04/29/17 04:47	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	5	04/27/17 18:37	04/29/17 17:50	TH

MW-5C L905300-10 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 14:15

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:33	05/01/17 15:33	DR
Wet Chemistry by Method 9056A	WG975157	1	04/30/17 22:42	04/30/17 22:42	KCF
Wet Chemistry by Method 9056A	WG975157	50	04/30/17 22:07	04/30/17 22:07	KCF
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:38	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:26	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:32	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 23:02	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 05:26	04/28/17 05:26	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 05:03	04/29/17 05:03	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 00:59	DMG

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-7A L905300-11 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 10:55

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974887	1	04/30/17 11:11	04/30/17 11:49	MMF
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:34	05/01/17 15:34	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 17:18	04/28/17 17:18	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 17:35	04/28/17 17:35	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:30	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:29	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:36	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 23:05	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 05:50	04/28/17 05:50	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 05:20	04/29/17 05:20	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 01:16	DMG

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-7B L905300-12 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 11:50

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974887	1	04/30/17 11:11	04/30/17 11:49	MMF
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:41	05/01/17 15:41	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 17:53	04/28/17 17:53	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 19:02	04/28/17 19:02	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:34	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:33	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:39	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:38	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 06:15	04/28/17 06:15	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 05:37	04/29/17 05:37	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 01:34	DMG

OCD-8A L905300-13 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 10:10

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974887	1	04/30/17 11:11	04/30/17 11:49	MMF
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:42	05/01/17 15:42	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:21	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 21:57	04/28/17 21:57	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 22:14	04/28/17 22:14	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:28	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:17	TRB
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 20:57	JDG
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/09/17 20:16	VSS
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:41	RDS
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 15:14	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 06:39	04/28/17 06:39	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 05:54	04/29/17 05:54	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 04:26	DMG

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



OCD-8B L905300-14 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 09:25

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974887	1	04/30/17 11:11	04/30/17 11:49	MMF
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:43	05/01/17 15:43	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 22:31	04/28/17 22:31	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 22:49	04/28/17 22:49	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:37	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 18:11	VSS
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:43	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:45	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 07:03	04/28/17 07:03	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 06:11	04/29/17 06:11	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 04:43	DMG

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-87 L905300-15 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 17:20

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974887	1	04/30/17 11:11	04/30/17 11:49	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 15:57	05/01/17 15:57	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 11:40	04/28/17 11:40	SAM
Wet Chemistry by Method 9056A	WG974575	100	04/28/17 12:04	04/28/17 12:04	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:41	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 18:15	VSS
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 16:46	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:48	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 07:27	04/28/17 07:27	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 06:28	04/29/17 06:28	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 01:51	DMG

MW-18A L905300-16 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 13:30

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 15:59	05/01/17 15:59	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:23	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 11:52	04/28/17 11:52	SAM
Wet Chemistry by Method 9056A	WG974575	100	04/28/17 12:15	04/28/17 12:15	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:30	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:19	TRB
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 21:00	JDG
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/02/17 18:18	VSS
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/10/17 12:27	JPD
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:52	LAT
Metals (ICPMS) by Method 6020	WG974737	20	05/01/17 17:16	05/02/17 14:07	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 06:45	04/29/17 06:45	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 02:08	DMG

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-18B L905300-17 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 14:20

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:00	05/01/17 16:00	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 12:50	04/28/17 12:50	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 13:37	04/28/17 13:37	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:44	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 18:22	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:56	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 07:52	04/28/17 07:52	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 07:01	04/29/17 07:01	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 04:09	DMG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-70 L905300-18 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 15:20

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:06	05/01/17 16:06	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 13:02	04/28/17 13:02	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 13:49	04/28/17 13:49	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:48	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 18:25	VSS
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:53	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:59	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 08:16	04/28/17 08:16	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 07:18	04/29/17 07:18	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 02:25	DMG

MW-124 L905300-19 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 16:20

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:07	05/01/17 16:07	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 13:14	04/28/17 13:14	SAM
Wet Chemistry by Method 9056A	WG974575	100	04/28/17 14:00	04/28/17 14:00	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:51	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 18:29	VSS
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:58	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 02:03	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 08:40	04/28/17 08:40	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 07:35	04/29/17 07:35	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 17:16	TH

DUP-EP-01 L905300-20 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 10:00

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:08	05/01/17 16:08	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 13:25	04/28/17 13:25	SAM
Wet Chemistry by Method 9056A	WG974575	100	04/28/17 14:12	04/28/17 14:12	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 20:43	JDG

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545.0000.0000 000

SDG:

L905300

DATE/TIME:

05/12/17 09:22

PAGE:

9 of 101

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



DUP-EP-01 L905300-20 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 10:00

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/02/17 12:11	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/09/17 20:23	VSS
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 02:07	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 14:39	04/28/17 14:39	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 07:52	04/29/17 07:52	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 02:43	DMG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

EB-EP-01 L905300-21 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 15:05

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:09	05/01/17 16:09	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 11:18	04/28/17 11:18	SAM
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 02:28	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 16:48	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 16:03	04/28/17 16:03	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 08:09	04/29/17 08:09	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 05:18	DMG

EB-EP-02 L905300-22 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 16:40

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:10	05/01/17 16:10	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 14:24	04/28/17 14:24	SAM
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 02:50	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 16:51	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 16:24	04/28/17 16:24	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 08:26	04/29/17 08:26	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 03:52	DMG

EB-EP-03 L905300-23 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:50

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:11	05/01/17 16:11	DR
Wet Chemistry by Method 9056A	WG975157	1	04/30/17 22:54	04/30/17 22:54	KCF
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 02:53	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 16:55	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 16:45	04/28/17 16:45	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 08:42	04/29/17 08:42	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 17:33	TH

TRIP BLANK-EP-02 L905300-24 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 00:00

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 03:22	04/29/17 03:22	BMB

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5630		2.82	10.0	1	04/28/2017 14:27	WG974601

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0820	J	0.0197	0.100	1	04/28/2017 12:19	WG974561

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1500		5.19	100	100	04/28/2017 19:55	WG974574
Fluoride	11.4		0.990	10.0	100	04/28/2017 19:55	WG974574
Sulfate	2380		7.74	500	100	04/28/2017 19:55	WG974574

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0468		0.000250	0.00200	1	04/30/2017 22:06	WG974645
Arsenic,Dissolved	0.0326		0.000250	0.00200	1	05/01/2017 21:59	WG974737
Barium	0.0273		0.000360	0.00500	1	04/30/2017 22:06	WG974645
Barium,Dissolved	0.0260		0.000360	0.00500	1	05/01/2017 21:59	WG974737
Calcium	347		0.0460	1.00	1	04/30/2017 22:06	WG974645
Chromium	0.00182	J	0.000540	0.00200	1	04/30/2017 22:06	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 21:59	WG974737
Iron	0.792		0.0150	0.100	1	04/30/2017 22:06	WG974645
Iron,Dissolved	0.0479	J	0.0150	0.100	1	05/01/2017 21:59	WG974737
Lead	0.000744	J	0.000240	0.00200	1	05/02/2017 12:25	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 21:59	WG974737
Manganese	2.02		0.000250	0.00500	1	04/30/2017 22:06	WG974645
Manganese,Dissolved	1.97	V	0.000250	0.00500	1	05/01/2017 21:59	WG974737
Potassium	8.92		0.0370	1.00	1	04/30/2017 22:06	WG974645
Selenium	0.00137	J	0.000380	0.00200	1	04/30/2017 22:06	WG974645
Selenium,Dissolved	0.00125	J	0.000380	0.00200	1	05/01/2017 21:59	WG974737
Sodium	1400		1.10	10.0	10	05/01/2017 15:34	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.660		0.0314	0.100	1	04/28/2017 01:48	WG974712
(S) a,a,a-Trifluorotoluene(FID) 113				77.0-122		04/28/2017 01:48	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 00:17	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 00:17	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 00:17	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 00:17	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 00:17	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 00:17	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 00:17	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 00:17	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 00:17	WG975016



Collected date/time: 04/25/17 16:05

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 00:17	WG975016	2 Tc
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 00:17	WG975016	3 Ss
Chloroethane	U		0.000453	0.00500	1	04/29/2017 00:17	WG975016	4 Cn
Chloroform	U		0.000324	0.00500	1	04/29/2017 00:17	WG975016	5 Sr
Chloromethane	U		0.000276	0.00250	1	04/29/2017 00:17	WG975016	6 Qc
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 00:17	WG975016	7 Gl
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 00:17	WG975016	8 Al
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 00:17	WG975016	9 Sc
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 00:17	WG975016	
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 00:17	WG975016	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 00:17	WG975016	
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 00:17	WG975016	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 00:17	WG975016	
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 00:17	WG975016	
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 00:17	WG975016	
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 00:17	WG975016	
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 00:17	WG975016	
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 00:17	WG975016	
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 00:17	WG975016	
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 00:17	WG975016	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 00:17	WG975016	
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 00:17	WG975016	
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 00:17	WG975016	
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 00:17	WG975016	
Styrene	U		0.000307	0.00100	1	04/29/2017 00:17	WG975016	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 00:17	WG975016	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 00:17	WG975016	
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 00:17	WG975016	
Toluene	U		0.000412	0.00100	1	04/29/2017 00:17	WG975016	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 00:17	WG975016	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 00:17	WG975016	
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 00:17	WG975016	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 00:17	WG975016	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 00:17	WG975016	
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 00:17	WG975016	
o-Xylene	U		0.000341	0.00100	1	04/29/2017 00:17	WG975016	
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 00:17	WG975016	
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 00:17	WG975016	
(S) Toluene-d8	103			80.0-120		04/29/2017 00:17	WG975016	
(S) Dibromofluoromethane	98.6			76.0-123		04/29/2017 00:17	WG975016	
(S) 4-Bromofluorobenzene	103			80.0-120		04/29/2017 00:17	WG975016	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.40		0.124	0.500	5	04/28/2017 23:16	WG974613
(S) o-Terphenyl	97.0			31.0-160		04/28/2017 23:16	WG974613



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9080		2.82	10.0	1	04/28/2017 14:27	WG974601

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	55.7		0.394	2.00	20	04/28/2017 12:20	WG974561

⁶ Qc⁷ Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2030		5.19	100	100	04/28/2017 20:30	WG974574
Fluoride	7.23		0.00990	0.100	1	04/28/2017 20:12	WG974574
Sulfate	4490		7.74	500	100	04/28/2017 20:30	WG974574

⁸ Al⁹ Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0672		0.000250	0.00200	1	04/30/2017 22:10	WG974645
Arsenic,Dissolved	0.0689		0.000250	0.00200	1	05/01/2017 22:33	WG974737
Barium	0.0132		0.000360	0.00500	1	04/30/2017 22:10	WG974645
Barium,Dissolved	0.0136		0.000360	0.00500	1	05/01/2017 22:33	WG974737
Calcium	557		0.0460	1.00	1	04/30/2017 22:10	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:10	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:33	WG974737
Iron	0.0369	J	0.0150	0.100	1	04/30/2017 22:10	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:33	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 12:29	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:33	WG974737
Manganese	1.04		0.000250	0.00500	1	04/30/2017 22:10	WG974645
Manganese,Dissolved	1.07		0.000250	0.00500	1	05/01/2017 22:33	WG974737
Potassium	39.9		0.0370	1.00	1	04/30/2017 22:10	WG974645
Selenium	0.156		0.000380	0.00200	1	04/30/2017 22:10	WG974645
Selenium,Dissolved	0.165		0.000380	0.00200	1	05/01/2017 22:33	WG974737
Sodium	2690		2.20	20.0	20	05/01/2017 15:38	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.01		0.0314	0.100	1	04/28/2017 02:12	WG974712
(S) a,a,a-Trifluorotoluene(FID) 112				77.0-122		04/28/2017 02:12	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 00:34	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 00:34	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 00:34	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 00:34	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 00:34	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 00:34	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 00:34	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 00:34	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 00:34	WG975016



Collected date/time: 04/25/17 14:50

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 00:34	WG975016	¹ Cp
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 00:34	WG975016	² Tc
Chloroethane	U		0.000453	0.00500	1	04/29/2017 00:34	WG975016	
Chloroform	U		0.000324	0.00500	1	04/29/2017 00:34	WG975016	³ Ss
Chloromethane	U		0.000276	0.00250	1	04/29/2017 00:34	WG975016	
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 00:34	WG975016	⁴ Cn
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 00:34	WG975016	
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 00:34	WG975016	
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 00:34	WG975016	⁵ Sr
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 00:34	WG975016	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 00:34	WG975016	⁶ Qc
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 00:34	WG975016	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 00:34	WG975016	⁷ Gl
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 00:34	WG975016	
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 00:34	WG975016	⁸ Al
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 00:34	WG975016	
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 00:34	WG975016	⁹ Sc
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 00:34	WG975016	
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 00:34	WG975016	
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 00:34	WG975016	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 00:34	WG975016	
Methyl tert-butyl ether	0.000473	J	0.000367	0.00100	1	04/29/2017 00:34	WG975016	
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 00:34	WG975016	
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 00:34	WG975016	
Styrene	U		0.000307	0.00100	1	04/29/2017 00:34	WG975016	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 00:34	WG975016	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 00:34	WG975016	
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 00:34	WG975016	
Toluene	U		0.000412	0.00100	1	04/29/2017 00:34	WG975016	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 00:34	WG975016	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 00:34	WG975016	
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 00:34	WG975016	
1,2,4-Trimethylbenzene	0.000893	J	0.000373	0.00100	1	04/29/2017 00:34	WG975016	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 00:34	WG975016	
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 00:34	WG975016	
o-Xylene	U		0.000341	0.00100	1	04/29/2017 00:34	WG975016	
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 00:34	WG975016	
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 00:34	WG975016	
(S) Toluene-d8	101			80.0-120		04/29/2017 00:34	WG975016	
(S) Dibromofluoromethane	98.4			76.0-123		04/29/2017 00:34	WG975016	
(S) 4-Bromofluorobenzene	103			80.0-120		04/29/2017 00:34	WG975016	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	31.5		0.124	0.500	5	04/28/2017 23:33	WG974613
(S) o-Terphenyl	95.0			31.0-160		04/28/2017 23:33	WG974613



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8880		2.82	10.0	1	04/28/2017 14:27	WG974601

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.313		0.0197	0.100	1	04/28/2017 12:21	WG974561

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2390		5.19	100	100	04/28/2017 21:04	WG974574
Fluoride	2.11		0.00990	0.100	1	04/28/2017 20:47	WG974574
Sulfate	3940		7.74	500	100	04/28/2017 21:04	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0650		0.000250	0.00200	1	04/30/2017 22:13	WG974645
Arsenic,Dissolved	0.0642		0.000250	0.00200	1	05/01/2017 22:37	WG974737
Barium	0.00734		0.000360	0.00500	1	04/30/2017 22:13	WG974645
Barium,Dissolved	0.00740		0.000360	0.00500	1	05/01/2017 22:37	WG974737
Calcium	571		0.0460	1.00	1	04/30/2017 22:13	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:13	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:37	WG974737
Iron	1.92		0.0150	0.100	1	04/30/2017 22:13	WG974645
Iron,Dissolved	0.0403	J	0.0150	0.100	1	05/01/2017 22:37	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 12:33	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:37	WG974737
Manganese	0.187		0.000250	0.00500	1	04/30/2017 22:13	WG974645
Manganese,Dissolved	0.222		0.000250	0.00500	1	05/01/2017 22:37	WG974737
Potassium	2.55		0.0370	1.00	1	04/30/2017 22:13	WG974645
Selenium	0.00184	J	0.000380	0.00200	1	04/30/2017 22:13	WG974645
Selenium,Dissolved	0.00189	J	0.000380	0.00200	1	05/01/2017 22:37	WG974737
Sodium	2690		2.20	20.0	20	05/01/2017 15:41	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.367		0.0314	0.100	1	04/28/2017 02:37	WG974712
(S) a,a,a-Trifluorotoluene(FID) 112				77.0-122		04/28/2017 02:37	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 00:51	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 00:51	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 00:51	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 00:51	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 00:51	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 00:51	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 00:51	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 00:51	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 00:51	WG975016



Collected date/time: 04/25/17 14:05

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 00:51	WG975016
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 00:51	WG975016
Chloroethane	U		0.000453	0.00500	1	04/29/2017 00:51	WG975016
Chloroform	U		0.000324	0.00500	1	04/29/2017 00:51	WG975016
Chloromethane	U		0.000276	0.00250	1	04/29/2017 00:51	WG975016
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 00:51	WG975016
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 00:51	WG975016
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 00:51	WG975016
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 00:51	WG975016
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 00:51	WG975016
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 00:51	WG975016
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 00:51	WG975016
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 00:51	WG975016
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 00:51	WG975016
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 00:51	WG975016
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 00:51	WG975016
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 00:51	WG975016
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 00:51	WG975016
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 00:51	WG975016
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 00:51	WG975016
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 00:51	WG975016
Methyl tert-butyl ether	0.00120		0.000367	0.00100	1	04/29/2017 00:51	WG975016
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 00:51	WG975016
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 00:51	WG975016
Styrene	U		0.000307	0.00100	1	04/29/2017 00:51	WG975016
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 00:51	WG975016
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 00:51	WG975016
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 00:51	WG975016
Toluene	U		0.000412	0.00100	1	04/29/2017 00:51	WG975016
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 00:51	WG975016
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 00:51	WG975016
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 00:51	WG975016
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 00:51	WG975016
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 00:51	WG975016
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 00:51	WG975016
o-Xylene	U		0.000341	0.00100	1	04/29/2017 00:51	WG975016
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 00:51	WG975016
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 00:51	WG975016
(S) Toluene-d8	102			80.0-120		04/29/2017 00:51	WG975016
(S) Dibromofluoromethane	98.6			76.0-123		04/29/2017 00:51	WG975016
(S) 4-Bromofluorobenzene	103			80.0-120		04/29/2017 00:51	WG975016

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.68		0.0247	0.100	1	04/28/2017 20:45	WG974613
(S) o-Terphenyl	100			31.0-160		04/28/2017 20:45	WG974613



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9140		2.82	10.0	1	04/28/2017 14:27	WG974601

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.56		0.0197	0.100	1	05/01/2017 15:21	WG974941

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3460		5.19	100	100	04/28/2017 23:59	WG974574
Fluoride	6.25		0.00990	0.100	1	04/28/2017 23:41	WG974574
Sulfate	2950		7.74	500	100	04/28/2017 23:59	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0164		0.000250	0.00200	1	04/30/2017 22:17	WG974645
Arsenic,Dissolved	0.0151		0.000250	0.00200	1	05/01/2017 22:40	WG974737
Barium	0.0213		0.000360	0.00500	1	04/30/2017 22:17	WG974645
Barium,Dissolved	0.0217		0.000360	0.00500	1	05/01/2017 22:40	WG974737
Calcium	670		0.0460	1.00	1	04/30/2017 22:17	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:17	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:40	WG974737
Iron	1.62		0.0150	0.100	1	04/30/2017 22:17	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:40	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:04	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:40	WG974737
Manganese	3.88		0.000250	0.00500	1	04/30/2017 22:17	WG974645
Manganese,Dissolved	4.20		0.000250	0.00500	1	05/01/2017 22:40	WG974737
Potassium	9.30		0.0370	1.00	1	04/30/2017 22:17	WG974645
Selenium	0.00210		0.000380	0.00200	1	04/30/2017 22:17	WG974645
Selenium,Dissolved	0.00180	J	0.000380	0.00200	1	05/01/2017 22:40	WG974737
Sodium	2510		2.20	20.0	20	05/01/2017 15:45	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.118		0.0314	0.100	1	04/28/2017 03:01	WG974712
(S) a,a,a-Trifluorotoluene(FID) 112				77.0-122		04/28/2017 03:01	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 01:07	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 01:07	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 01:07	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 01:07	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 01:07	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 01:07	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 01:07	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 01:07	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 01:07	WG975016



Collected date/time: 04/25/17 12:55

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 01:07	WG975016
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 01:07	WG975016
Chloroethane	U		0.000453	0.00500	1	04/29/2017 01:07	WG975016
Chloroform	U		0.000324	0.00500	1	04/29/2017 01:07	WG975016
Chloromethane	U		0.000276	0.00250	1	04/29/2017 01:07	WG975016
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 01:07	WG975016
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 01:07	WG975016
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 01:07	WG975016
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 01:07	WG975016
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 01:07	WG975016
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 01:07	WG975016
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 01:07	WG975016
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 01:07	WG975016
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 01:07	WG975016
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 01:07	WG975016
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 01:07	WG975016
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 01:07	WG975016
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 01:07	WG975016
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 01:07	WG975016
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 01:07	WG975016
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 01:07	WG975016
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 01:07	WG975016
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 01:07	WG975016
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 01:07	WG975016
Styrene	U		0.000307	0.00100	1	04/29/2017 01:07	WG975016
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 01:07	WG975016
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 01:07	WG975016
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 01:07	WG975016
Toluene	U		0.000412	0.00100	1	04/29/2017 01:07	WG975016
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 01:07	WG975016
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 01:07	WG975016
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 01:07	WG975016
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 01:07	WG975016
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 01:07	WG975016
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 01:07	WG975016
o-Xylene	U		0.000341	0.00100	1	04/29/2017 01:07	WG975016
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 01:07	WG975016
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 01:07	WG975016
(S) Toluene-d8	102			80.0-120		04/29/2017 01:07	WG975016
(S) Dibromofluoromethane	96.3			76.0-123		04/29/2017 01:07	WG975016
(S) 4-Bromofluorobenzene	101			80.0-120		04/29/2017 01:07	WG975016

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.03		0.0247	0.100	1	04/28/2017 21:02	WG974613
(S) o-Terphenyl	96.7			31.0-160		04/28/2017 21:02	WG974613



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11000		2.82	10.0	1	04/28/2017 14:27	WG974601

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.02		0.0197	0.100	1	05/01/2017 15:27	WG974941

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4030		5.19	100	100	04/29/2017 00:16	WG974574
Fluoride	2.39		0.00990	0.100	1	04/29/2017 01:08	WG974574
Sulfate	2570		7.74	500	100	04/29/2017 00:16	WG974574

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00911		0.000250	0.00200	1	04/30/2017 22:20	WG974645
Arsenic,Dissolved	0.00705		0.000250	0.00200	1	05/01/2017 22:44	WG974737
Barium	0.0222		0.000360	0.00500	1	04/30/2017 22:20	WG974645
Barium,Dissolved	0.0224		0.000360	0.00500	1	05/01/2017 22:44	WG974737
Calcium	834		0.0460	1.00	1	04/30/2017 22:20	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:20	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:44	WG974737
Iron	2.28		0.0150	0.100	1	04/30/2017 22:20	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:44	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:08	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:44	WG974737
Manganese	2.09		0.000250	0.00500	1	04/30/2017 22:20	WG974645
Manganese,Dissolved	2.20		0.000250	0.00500	1	05/01/2017 22:44	WG974737
Potassium	15.8		0.0370	1.00	1	04/30/2017 22:20	WG974645
Selenium	0.000598	J	0.000380	0.00200	1	04/30/2017 22:20	WG974645
Selenium,Dissolved	0.000614	J	0.000380	0.00200	1	05/01/2017 22:44	WG974737
Sodium	2870		2.20	20.0	20	05/01/2017 15:48	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.199		0.0314	0.100	1	04/28/2017 03:25	WG974712
(S) a,a,a-Trifluorotoluene(FID) 112				77.0-122		04/28/2017 03:25	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 01:24	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 01:24	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 01:24	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 01:24	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 01:24	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 01:24	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 01:24	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 01:24	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 01:24	WG975016



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 01:24	WG975016
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 01:24	WG975016
Chloroethane	U		0.000453	0.00500	1	04/29/2017 01:24	WG975016
Chloroform	U		0.000324	0.00500	1	04/29/2017 01:24	WG975016
Chloromethane	U		0.000276	0.00250	1	04/29/2017 01:24	WG975016
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 01:24	WG975016
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 01:24	WG975016
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 01:24	WG975016
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 01:24	WG975016
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 01:24	WG975016
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 01:24	WG975016
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 01:24	WG975016
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 01:24	WG975016
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 01:24	WG975016
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 01:24	WG975016
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 01:24	WG975016
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 01:24	WG975016
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 01:24	WG975016
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 01:24	WG975016
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 01:24	WG975016
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 01:24	WG975016
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 01:24	WG975016
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 01:24	WG975016
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 01:24	WG975016
Styrene	U		0.000307	0.00100	1	04/29/2017 01:24	WG975016
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 01:24	WG975016
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 01:24	WG975016
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 01:24	WG975016
Toluene	U		0.000412	0.00100	1	04/29/2017 01:24	WG975016
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 01:24	WG975016
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 01:24	WG975016
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 01:24	WG975016
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 01:24	WG975016
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 01:24	WG975016
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 01:24	WG975016
o-Xylene	U		0.000341	0.00100	1	04/29/2017 01:24	WG975016
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 01:24	WG975016
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 01:24	WG975016
(S) Toluene-d8	102			80.0-120		04/29/2017 01:24	WG975016
(S) Dibromofluoromethane	98.1			76.0-123		04/29/2017 01:24	WG975016
(S) 4-Bromofluorobenzene	103			80.0-120		04/29/2017 01:24	WG975016

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.858		0.0247	0.100	1	04/28/2017 21:19	WG974613
(S) o-Terphenyl	94.3			31.0-160		04/28/2017 21:19	WG974613



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8960		2.82	10.0	1	04/28/2017 14:27	WG974601

1
Cp2
Tc3
Ss4
Cn5
Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0420	J	0.0197	0.100	1	05/01/2017 15:28	WG974941

6
Qc7
Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2550		5.19	100	100	04/29/2017 02:18	WG974574
Fluoride	2.72		0.00990	0.100	1	04/29/2017 01:26	WG974574
Sulfate	3970		7.74	500	100	04/29/2017 02:18	WG974574

8
Al9
Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.113		0.000250	0.00200	1	04/30/2017 22:24	WG974645
Arsenic,Dissolved	0.105		0.000250	0.00200	1	05/01/2017 22:47	WG974737
Barium	0.0134		0.000360	0.00500	1	04/30/2017 22:24	WG974645
Barium,Dissolved	0.0135		0.000360	0.00500	1	05/01/2017 22:47	WG974737
Calcium	600		0.0460	1.00	1	04/30/2017 22:24	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:24	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:47	WG974737
Iron	1.77		0.0150	0.100	1	04/30/2017 22:24	WG974645
Iron,Dissolved	0.0872	J	0.0150	0.100	1	05/01/2017 22:47	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:11	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:47	WG974737
Manganese	2.14		0.000250	0.00500	1	04/30/2017 22:24	WG974645
Manganese,Dissolved	2.22		0.000250	0.00500	1	05/01/2017 22:47	WG974737
Potassium	5.59		0.0370	1.00	1	04/30/2017 22:24	WG974645
Selenium	0.00141	J	0.000380	0.00200	1	04/30/2017 22:24	WG974645
Selenium,Dissolved	0.00167	J	0.000380	0.00200	1	05/01/2017 22:47	WG974737
Sodium	2870		2.20	20.0	20	05/01/2017 15:52	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.710		0.0314	0.100	1	04/28/2017 03:50	WG974712
(S) a,a,a-Trifluorotoluene(FID) 112				77.0-122		04/28/2017 03:50	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 01:41	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 01:41	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 01:41	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 01:41	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 01:41	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 01:41	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 01:41	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 01:41	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 01:41	WG975016



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 01:41	WG975016
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 01:41	WG975016
Chloroethane	U		0.000453	0.00500	1	04/29/2017 01:41	WG975016
Chloroform	U		0.000324	0.00500	1	04/29/2017 01:41	WG975016
Chloromethane	U		0.000276	0.00250	1	04/29/2017 01:41	WG975016
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 01:41	WG975016
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 01:41	WG975016
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 01:41	WG975016
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 01:41	WG975016
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 01:41	WG975016
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 01:41	WG975016
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 01:41	WG975016
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 01:41	WG975016
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 01:41	WG975016
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 01:41	WG975016
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 01:41	WG975016
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 01:41	WG975016
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 01:41	WG975016
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 01:41	WG975016
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 01:41	WG975016
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 01:41	WG975016
Methyl tert-butyl ether	0.00110		0.000367	0.00100	1	04/29/2017 01:41	WG975016
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 01:41	WG975016
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 01:41	WG975016
Styrene	U		0.000307	0.00100	1	04/29/2017 01:41	WG975016
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 01:41	WG975016
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 01:41	WG975016
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 01:41	WG975016
Toluene	U		0.000412	0.00100	1	04/29/2017 01:41	WG975016
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 01:41	WG975016
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 01:41	WG975016
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 01:41	WG975016
1,2,4-Trimethylbenzene	0.000840	J	0.000373	0.00100	1	04/29/2017 01:41	WG975016
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 01:41	WG975016
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 01:41	WG975016
o-Xylene	U		0.000341	0.00100	1	04/29/2017 01:41	WG975016
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 01:41	WG975016
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 01:41	WG975016
(S) Toluene-d8	102			80.0-120		04/29/2017 01:41	WG975016
(S) Dibromofluoromethane	96.4			76.0-123		04/29/2017 01:41	WG975016
(S) 4-Bromofluorobenzene	102			80.0-120		04/29/2017 01:41	WG975016

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.43		0.0247	0.100	1	04/28/2017 21:36	WG974613
(S) o-Terphenyl	99.4			31.0-160		04/28/2017 21:36	WG974613



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4540		2.82	10.0	1	04/28/2017 14:27	WG974601

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 15:29	WG974941

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	960		5.19	100	100	04/29/2017 02:35	WG974574
Fluoride	1.05		0.00990	0.100	1	04/29/2017 01:43	WG974574
Sulfate	2100		7.74	500	100	04/29/2017 02:35	WG974574

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00194	J	0.000250	0.00200	1	04/30/2017 22:27	WG974645
Arsenic,Dissolved	0.00131	J	0.000250	0.00200	1	05/01/2017 22:51	WG974737
Barium	0.0179		0.000360	0.00500	1	04/30/2017 22:27	WG974645
Barium,Dissolved	0.0195		0.000360	0.00500	1	05/01/2017 22:51	WG974737
Calcium	564		0.0460	1.00	1	04/30/2017 22:27	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:27	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:51	WG974737
Iron	2.73		0.0150	0.100	1	04/30/2017 22:27	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:51	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:15	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:51	WG974737
Manganese	0.621		0.000250	0.00500	1	04/30/2017 22:27	WG974645
Manganese,Dissolved	0.667		0.000250	0.00500	1	05/01/2017 22:51	WG974737
Potassium	11.0		0.0370	1.00	1	04/30/2017 22:27	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 22:27	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:51	WG974737
Sodium	629		1.10	10.0	10	05/01/2017 15:55	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 04:14	WG974712
(S) a,a,a-Trifluorotoluene(FID) 112				77.0-122		04/28/2017 04:14	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 04:13	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 04:13	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 04:13	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 04:13	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 04:13	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 04:13	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 04:13	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 04:13	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 04:13	WG975021



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 04:13	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 04:13	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 04:13	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 04:13	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 04:13	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 04:13	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 04:13	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 04:13	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 04:13	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 04:13	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 04:13	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 04:13	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 04:13	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 04:13	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 04:13	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 04:13	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 04:13	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 04:13	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 04:13	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 04:13	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 04:13	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 04:13	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 04:13	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 04:13	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 04:13	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 04:13	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 04:13	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 04:13	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 04:13	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 04:13	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 04:13	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 04:13	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 04:13	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 04:13	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 04:13	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 04:13	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 04:13	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 04:13	WG975021
(S) Toluene-d8	101			80.0-120		04/29/2017 04:13	WG975021
(S) Dibromofluoromethane	97.6			76.0-123		04/29/2017 04:13	WG975021
(S) 4-Bromofluorobenzene	98.9			80.0-120		04/29/2017 04:13	WG975021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0746	J	0.0247	0.100	1	04/28/2017 21:52	WG974613
(S) o-Terphenyl	94.1			31.0-160		04/28/2017 21:52	WG974613



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	12500		2.82	10.0	1	04/28/2017 14:27	WG974601

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.212		0.0197	0.100	1	05/01/2017 15:31	WG974941

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3010		5.19	100	100	04/29/2017 03:10	WG974574
Fluoride	2.92		0.00990	0.100	1	04/29/2017 02:01	WG974574
Sulfate	5840		7.74	500	100	04/29/2017 03:10	WG974574

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.149		0.000250	0.00200	1	04/30/2017 22:31	WG974645
Arsenic,Dissolved	0.0861		0.000250	0.00200	1	05/01/2017 22:55	WG974737
Barium	0.0135		0.000360	0.00500	1	04/30/2017 22:31	WG974645
Barium,Dissolved	0.0133		0.000360	0.00500	1	05/01/2017 22:55	WG974737
Calcium	439		0.0460	1.00	1	04/30/2017 22:31	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:31	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:55	WG974737
Iron	6.69		0.0150	0.100	1	04/30/2017 22:31	WG974645
Iron,Dissolved	0.0208	J	0.0150	0.100	1	05/01/2017 22:55	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:19	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:55	WG974737
Manganese	1.15		0.000250	0.00500	1	04/30/2017 22:31	WG974645
Manganese,Dissolved	1.23		0.000250	0.00500	1	05/01/2017 22:55	WG974737
Potassium	7.27		0.0370	1.00	1	04/30/2017 22:31	WG974645
Selenium	0.000824	J	0.000380	0.00200	1	04/30/2017 22:31	WG974645
Selenium,Dissolved	0.000895	J	0.000380	0.00200	1	05/01/2017 22:55	WG974737
Sodium	3360		2.20	20.0	20	05/01/2017 15:59	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	3.00		0.0314	0.100	1	04/28/2017 04:38	WG974712
(S) a,a,a-Trifluorotoluene(FID) 114				77.0-122		04/28/2017 04:38	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 04:30	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 04:30	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 04:30	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 04:30	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 04:30	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 04:30	WG975021
sec-Butylbenzene	0.000425	J	0.000365	0.00100	1	04/29/2017 04:30	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 04:30	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 04:30	WG975021



Collected date/time: 04/25/17 12:35

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 04:30	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 04:30	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 04:30	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 04:30	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 04:30	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 04:30	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 04:30	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 04:30	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 04:30	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 04:30	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 04:30	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 04:30	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 04:30	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 04:30	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 04:30	WG975021
Isopropylbenzene	0.000991	J	0.000326	0.00100	1	04/29/2017 04:30	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 04:30	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 04:30	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 04:30	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 04:30	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 04:30	WG975021
Methyl tert-butyl ether	0.00160		0.000367	0.00100	1	04/29/2017 04:30	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 04:30	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 04:30	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 04:30	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 04:30	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 04:30	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 04:30	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 04:30	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 04:30	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 04:30	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 04:30	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 04:30	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 04:30	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 04:30	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 04:30	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 04:30	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 04:30	WG975021
(S) Toluene-d8	101			80.0-120		04/29/2017 04:30	WG975021
(S) Dibromofluoromethane	98.1			76.0-123		04/29/2017 04:30	WG975021
(S) 4-Bromofluorobenzene	98.1			80.0-120		04/29/2017 04:30	WG975021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.60		0.0247	0.100	1	04/28/2017 22:09	WG974613
(S) o-Terphenyl	110			31.0-160		04/28/2017 22:09	WG974613



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6290		2.82	10.0	1	04/28/2017 14:27	WG974601

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0210	J	0.0197	0.100	1	05/01/2017 15:32	WG974941

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1560		5.19	100	100	04/29/2017 03:28	WG974574
Fluoride	1.73		0.00990	0.100	1	04/29/2017 02:53	WG974574
Sulfate	2590		7.74	500	100	04/29/2017 03:28	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.154		0.000250	0.00200	1	04/30/2017 22:34	WG974645
Arsenic,Dissolved	0.127		0.000250	0.00200	1	05/01/2017 22:58	WG974737
Barium	0.0115		0.000360	0.00500	1	04/30/2017 22:34	WG974645
Barium,Dissolved	0.0111		0.000360	0.00500	1	05/01/2017 22:58	WG974737
Calcium	420		0.0460	1.00	1	04/30/2017 22:34	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:34	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:58	WG974737
Iron	4.61		0.0150	0.100	1	04/30/2017 22:34	WG974645
Iron,Dissolved	0.0226	J	0.0150	0.100	1	05/01/2017 22:58	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:22	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:58	WG974737
Manganese	3.32		0.000250	0.00500	1	04/30/2017 22:34	WG974645
Manganese,Dissolved	3.51		0.000250	0.00500	1	05/01/2017 22:58	WG974737
Potassium	9.18		0.0370	1.00	1	04/30/2017 22:34	WG974645
Selenium	0.00139	J	0.000380	0.00200	1	04/30/2017 22:34	WG974645
Selenium,Dissolved	0.00155	J	0.000380	0.00200	1	05/01/2017 22:58	WG974737
Sodium	1650		1.10	10.0	10	05/01/2017 16:02	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.08		0.0314	0.100	1	04/28/2017 05:02	WG974712
(S) a,a,a-Trifluorotoluene(FID) 113				77.0-122		04/28/2017 05:02	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 04:47	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 04:47	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 04:47	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 04:47	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 04:47	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 04:47	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 04:47	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 04:47	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 04:47	WG975021



Collected date/time: 04/25/17 13:30

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 04:47	WG975021	¹ Cp
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 04:47	WG975021	² Tc
Chloroethane	U		0.000453	0.00500	1	04/29/2017 04:47	WG975021	
Chloroform	U		0.000324	0.00500	1	04/29/2017 04:47	WG975021	³ Ss
Chloromethane	U		0.000276	0.00250	1	04/29/2017 04:47	WG975021	
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 04:47	WG975021	⁴ Cn
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 04:47	WG975021	
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 04:47	WG975021	
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 04:47	WG975021	⁵ Sr
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 04:47	WG975021	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 04:47	WG975021	⁶ Qc
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 04:47	WG975021	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 04:47	WG975021	⁷ Gl
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 04:47	WG975021	
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 04:47	WG975021	⁸ Al
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 04:47	WG975021	
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 04:47	WG975021	⁹ Sc
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 04:47	WG975021	
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 04:47	WG975021	
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 04:47	WG975021	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 04:47	WG975021	
Methyl tert-butyl ether	0.00140		0.000367	0.00100	1	04/29/2017 04:47	WG975021	
Naphthalene	U		0.00100	0.00500	1	04/29/2017 04:47	WG975021	
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 04:47	WG975021	
Styrene	U		0.000307	0.00100	1	04/29/2017 04:47	WG975021	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 04:47	WG975021	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 04:47	WG975021	
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 04:47	WG975021	
Toluene	U		0.000412	0.00100	1	04/29/2017 04:47	WG975021	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 04:47	WG975021	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 04:47	WG975021	
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 04:47	WG975021	
1,2,4-Trimethylbenzene	0.000499	J	0.000373	0.00100	1	04/29/2017 04:47	WG975021	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 04:47	WG975021	
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 04:47	WG975021	
o-Xylene	U		0.000341	0.00100	1	04/29/2017 04:47	WG975021	
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 04:47	WG975021	
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 04:47	WG975021	
(S) Toluene-d8	101			80.0-120		04/29/2017 04:47	WG975021	
(S) Dibromofluoromethane	98.1			76.0-123		04/29/2017 04:47	WG975021	
(S) 4-Bromofluorobenzene	101			80.0-120		04/29/2017 04:47	WG975021	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.2		0.124	0.500	5	04/29/2017 17:50	WG974613
(S) o-Terphenyl	114			31.0-160		04/29/2017 17:50	WG974613



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3110		2.82	10.0	1	04/28/2017 14:27	WG974601

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 15:33	WG974941

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	576		2.60	50.0	50	04/30/2017 22:07	WG975157
Fluoride	0.971		0.00990	0.100	1	04/30/2017 22:42	WG975157
Sulfate	1740		3.87	250	50	04/30/2017 22:07	WG975157

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0113		0.000250	0.00200	1	04/30/2017 22:38	WG974645
Arsenic,Dissolved	0.00981		0.000250	0.00200	1	05/01/2017 23:02	WG974737
Barium	0.0237		0.000360	0.00500	1	04/30/2017 22:38	WG974645
Barium,Dissolved	0.0140		0.000360	0.00500	1	05/01/2017 23:02	WG974737
Calcium	383		0.0460	1.00	1	04/30/2017 22:38	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:38	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 23:02	WG974737
Iron	1.09		0.0150	0.100	1	04/30/2017 22:38	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 23:02	WG974737
Lead	0.000287	J	0.000240	0.00200	1	05/02/2017 13:26	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 23:02	WG974737
Manganese	0.918		0.000250	0.00500	1	04/30/2017 22:38	WG974645
Manganese,Dissolved	0.906		0.000250	0.00500	1	05/01/2017 23:02	WG974737
Potassium	3.90		0.0370	1.00	1	04/30/2017 22:38	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 22:38	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 23:02	WG974737
Sodium	500		1.10	10.0	10	05/01/2017 16:32	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 05:26	WG974712
(S) a,a,a-Trifluorotoluene(FID) 113				77.0-122		04/28/2017 05:26	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 05:03	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 05:03	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 05:03	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 05:03	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 05:03	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 05:03	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 05:03	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 05:03	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 05:03	WG975021



Collected date/time: 04/25/17 14:15

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 05:03	WG975021	2 Tc
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 05:03	WG975021	3 Ss
Chloroethane	U		0.000453	0.00500	1	04/29/2017 05:03	WG975021	4 Cn
Chloroform	U		0.000324	0.00500	1	04/29/2017 05:03	WG975021	5 Sr
Chloromethane	U		0.000276	0.00250	1	04/29/2017 05:03	WG975021	6 Qc
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 05:03	WG975021	7 Gl
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 05:03	WG975021	8 Al
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 05:03	WG975021	9 Sc
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 05:03	WG975021	
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 05:03	WG975021	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 05:03	WG975021	
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 05:03	WG975021	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 05:03	WG975021	
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 05:03	WG975021	
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 05:03	WG975021	
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 05:03	WG975021	
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 05:03	WG975021	
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 05:03	WG975021	
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 05:03	WG975021	
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 05:03	WG975021	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 05:03	WG975021	
Methyl tert-butyl ether	0.000369	U	0.000367	0.00100	1	04/29/2017 05:03	WG975021	
Naphthalene	U		0.00100	0.00500	1	04/29/2017 05:03	WG975021	
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 05:03	WG975021	
Styrene	U		0.000307	0.00100	1	04/29/2017 05:03	WG975021	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 05:03	WG975021	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 05:03	WG975021	
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 05:03	WG975021	
Toluene	U		0.000412	0.00100	1	04/29/2017 05:03	WG975021	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 05:03	WG975021	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 05:03	WG975021	
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 05:03	WG975021	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 05:03	WG975021	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 05:03	WG975021	
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 05:03	WG975021	
o-Xylene	U		0.000341	0.00100	1	04/29/2017 05:03	WG975021	
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 05:03	WG975021	
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 05:03	WG975021	
(S) Toluene-d8	100			80.0-120		04/29/2017 05:03	WG975021	
(S) Dibromofluoromethane	97.8			76.0-123		04/29/2017 05:03	WG975021	
(S) 4-Bromofluorobenzene	102			80.0-120		04/29/2017 05:03	WG975021	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.500		0.0247	0.100	1	04/29/2017 00:59	WG974616
(S) o-Terphenyl	98.6			31.0-160		04/29/2017 00:59	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6690		2.82	10.0	1	04/30/2017 11:49	WG974887

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0360	J	0.0197	0.100	1	05/01/2017 15:34	WG974941

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2240		5.19	100	100	04/28/2017 17:35	WG974574
Fluoride	1.31		0.00990	0.100	1	04/28/2017 17:18	WG974574
Sulfate	2700		7.74	500	100	04/28/2017 17:35	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0182		0.000250	0.00200	1	04/30/2017 23:30	WG974645
Arsenic,Dissolved	0.0124		0.000250	0.00200	1	05/01/2017 23:05	WG974737
Barium	0.0148		0.000360	0.00500	1	05/02/2017 13:29	WG974645
Barium,Dissolved	0.0150		0.000360	0.00500	1	05/01/2017 23:05	WG974737
Calcium	371		0.0460	1.00	1	04/30/2017 23:30	WG974645
Chromium	0.000819	J	0.000540	0.00200	1	04/30/2017 23:30	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 23:05	WG974737
Iron	3.20		0.0150	0.100	1	04/30/2017 23:30	WG974645
Iron,Dissolved	0.0171	J	0.0150	0.100	1	05/01/2017 23:05	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:29	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 23:05	WG974737
Manganese	0.530		0.000250	0.00500	1	04/30/2017 23:30	WG974645
Manganese,Dissolved	0.570		0.000250	0.00500	1	05/01/2017 23:05	WG974737
Potassium	3.79		0.0370	1.00	1	04/30/2017 23:30	WG974645
Selenium	0.000425	J	0.000380	0.00200	1	04/30/2017 23:30	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 23:05	WG974737
Sodium	2000		1.10	10.0	10	05/01/2017 16:36	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.501		0.0314	0.100	1	04/28/2017 05:50	WG974712
(S) a,a,a-Trifluorotoluene(FID) 113				77.0-122		04/28/2017 05:50	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 05:20	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 05:20	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 05:20	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 05:20	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 05:20	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 05:20	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 05:20	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 05:20	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 05:20	WG975021



Collected date/time: 04/25/17 10:55

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 05:20	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 05:20	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 05:20	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 05:20	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 05:20	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 05:20	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 05:20	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 05:20	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 05:20	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 05:20	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 05:20	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 05:20	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 05:20	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 05:20	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 05:20	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 05:20	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 05:20	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 05:20	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 05:20	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 05:20	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 05:20	WG975021
Methyl tert-butyl ether	0.00150		0.000367	0.00100	1	04/29/2017 05:20	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 05:20	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 05:20	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 05:20	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 05:20	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 05:20	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 05:20	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 05:20	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 05:20	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 05:20	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 05:20	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 05:20	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 05:20	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 05:20	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 05:20	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 05:20	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 05:20	WG975021
(S) Toluene-d8	104			80.0-120		04/29/2017 05:20	WG975021
(S) Dibromofluoromethane	95.5			76.0-123		04/29/2017 05:20	WG975021
(S) 4-Bromofluorobenzene	104			80.0-120		04/29/2017 05:20	WG975021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.12		0.0247	0.100	1	04/29/2017 01:16	WG974616
(S) o-Terphenyl	94.7			31.0-160		04/29/2017 01:16	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4720		2.82	10.0	1	04/30/2017 11:49	WG974887

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0670	J	0.0197	0.100	1	05/01/2017 15:41	WG974941

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1060		5.19	100	100	04/28/2017 19:02	WG974574
Fluoride	0.966		0.00990	0.100	1	04/28/2017 17:53	WG974574
Sulfate	1750		7.74	500	100	04/28/2017 19:02	WG974574

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00397		0.000250	0.00200	1	04/30/2017 23:34	WG974645
Arsenic,Dissolved	0.00373		0.000250	0.00200	1	05/02/2017 01:38	WG974737
Barium	0.0111		0.000360	0.00500	1	05/02/2017 13:33	WG974645
Barium,Dissolved	0.0118		0.000360	0.00500	1	05/02/2017 01:38	WG974737
Calcium	530		0.0460	1.00	1	04/30/2017 23:34	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:34	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:38	WG974737
Iron	0.146		0.0150	0.100	1	04/30/2017 23:34	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 01:38	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:33	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:38	WG974737
Manganese	0.472		0.000250	0.00500	1	04/30/2017 23:34	WG974645
Manganese,Dissolved	0.493		0.000250	0.00500	1	05/02/2017 01:38	WG974737
Potassium	6.71		0.0370	1.00	1	04/30/2017 23:34	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:34	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 01:38	WG974737
Sodium	652		1.10	10.0	10	05/01/2017 16:39	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 06:15	WG974712
(S) a,a,a-Trifluorotoluene(FID) 112				77.0-122		04/28/2017 06:15	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 05:37	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 05:37	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 05:37	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 05:37	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 05:37	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 05:37	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 05:37	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 05:37	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 05:37	WG975021



Collected date/time: 04/25/17 11:50

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 05:37	WG975021	2 Tc
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 05:37	WG975021	3 Ss
Chloroethane	U		0.000453	0.00500	1	04/29/2017 05:37	WG975021	4 Cn
Chloroform	U		0.000324	0.00500	1	04/29/2017 05:37	WG975021	5 Sr
Chloromethane	U		0.000276	0.00250	1	04/29/2017 05:37	WG975021	6 Qc
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 05:37	WG975021	7 Gl
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 05:37	WG975021	8 Al
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 05:37	WG975021	9 Sc
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 05:37	WG975021	
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 05:37	WG975021	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 05:37	WG975021	
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 05:37	WG975021	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 05:37	WG975021	
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 05:37	WG975021	
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 05:37	WG975021	
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 05:37	WG975021	
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 05:37	WG975021	
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 05:37	WG975021	
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 05:37	WG975021	
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 05:37	WG975021	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 05:37	WG975021	
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 05:37	WG975021	
Naphthalene	U		0.00100	0.00500	1	04/29/2017 05:37	WG975021	
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 05:37	WG975021	
Styrene	U		0.000307	0.00100	1	04/29/2017 05:37	WG975021	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 05:37	WG975021	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 05:37	WG975021	
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 05:37	WG975021	
Toluene	U		0.000412	0.00100	1	04/29/2017 05:37	WG975021	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 05:37	WG975021	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 05:37	WG975021	
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 05:37	WG975021	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 05:37	WG975021	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 05:37	WG975021	
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 05:37	WG975021	
o-Xylene	U		0.000341	0.00100	1	04/29/2017 05:37	WG975021	
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 05:37	WG975021	
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 05:37	WG975021	
(S) Toluene-d8	102			80.0-120		04/29/2017 05:37	WG975021	
(S) Dibromofluoromethane	98.1			76.0-123		04/29/2017 05:37	WG975021	
(S) 4-Bromofluorobenzene	100			80.0-120		04/29/2017 05:37	WG975021	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0845	J	0.0247	0.100	1	04/29/2017 01:34	WG974616
(S) o-Terphenyl	92.6			31.0-160		04/29/2017 01:34	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	8960		2.82	10.0	1	04/30/2017 11:49	WG974887

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0300	J	0.0197	0.100	1	05/01/2017 15:42	WG974941

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:21	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2870		5.19	100	100	04/28/2017 22:14	WG974574
Fluoride	2.16		0.00990	0.100	1	04/28/2017 21:57	WG974574
Sulfate	3410		7.74	500	100	04/28/2017 22:14	WG974574

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:28	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:17	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0632		0.000250	0.00200	1	04/30/2017 20:57	WG974645
Arsenic,Dissolved	0.0533		0.000250	0.00200	1	05/02/2017 01:41	WG974737
Barium	0.0177		0.000360	0.00500	1	04/30/2017 20:57	WG974645
Barium,Dissolved	0.0163		0.000360	0.00500	1	05/02/2017 01:41	WG974737
Boron	0.837		0.00150	0.0200	1	04/30/2017 20:57	WG974645
Boron,Dissolved	0.745		0.00150	0.0200	1	05/02/2017 15:14	WG974737
Cadmium	U		0.000160	0.00100	1	04/30/2017 20:57	WG974645
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 01:41	WG974737
Calcium	658		0.0460	1.00	1	04/30/2017 20:57	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 20:57	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:41	WG974737
Cobalt	0.00103	J	0.000260	0.00200	1	04/30/2017 20:57	WG974645
Cobalt,Dissolved	0.00105	J	0.000260	0.00200	1	05/02/2017 01:41	WG974737
Iron	6.72		0.0150	0.100	1	04/30/2017 20:57	WG974645
Iron,Dissolved	0.0677	J	0.0150	0.100	1	05/02/2017 01:41	WG974737
Lead	U		0.000240	0.00200	1	04/30/2017 20:57	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:41	WG974737
Manganese	2.91		0.000250	0.00500	1	04/30/2017 20:57	WG974645
Manganese,Dissolved	3.01		0.000250	0.00500	1	05/02/2017 01:41	WG974737
Nickel	0.0246		0.000350	0.00200	1	04/30/2017 20:57	WG974645
Nickel,Dissolved	0.0227		0.000350	0.00200	1	05/02/2017 01:41	WG974737
Potassium	8.50		0.0370	1.00	1	04/30/2017 20:57	WG974645
Selenium	0.000793	J	0.000380	0.00200	1	04/30/2017 20:57	WG974645
Selenium,Dissolved	0.00106	J	0.000380	0.00200	1	05/02/2017 01:41	WG974737
Sodium	2510		1.10	10.0	10	05/09/2017 20:16	WG974645



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00102	⬇	0.000330	0.0100	1	04/30/2017 20:57	WG974645
Uranium,Dissolved	0.00102	⬇	0.000330	0.0100	1	05/02/2017 01:41	WG974737
Vanadium	0.000626	⬇	0.000180	0.00500	1	04/30/2017 20:57	WG974645
Vanadium,Dissolved	0.000283	⬇	0.000180	0.00500	1	05/02/2017 01:41	WG974737

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.23		0.0314	0.100	1	04/28/2017 06:39	WG974712
(S) a,a,a-Trifluorotoluene(FID) 114				77.0-122		04/28/2017 06:39	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 05:54	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 05:54	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 05:54	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 05:54	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 05:54	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 05:54	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 05:54	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 05:54	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 05:54	WG975021
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 05:54	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 05:54	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 05:54	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 05:54	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 05:54	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 05:54	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 05:54	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 05:54	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 05:54	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 05:54	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 05:54	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 05:54	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 05:54	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 05:54	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 05:54	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 05:54	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 05:54	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 05:54	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 05:54	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 05:54	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 05:54	WG975021
Methyl tert-butyl ether	0.00420		0.000367	0.00100	1	04/29/2017 05:54	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 05:54	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 05:54	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 05:54	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 05:54	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 05:54	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 05:54	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 05:54	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 05:54	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 05:54	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 05:54	WG975021



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	0.000518	J	0.000373	0.00100	1	04/29/2017 05:54	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 05:54	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 05:54	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 05:54	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 05:54	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 05:54	WG975021
(S) Toluene-d8	102			80.0-120		04/29/2017 05:54	WG975021
(S) Dibromofluoromethane	100			76.0-123		04/29/2017 05:54	WG975021
(S) 4-Bromofluorobenzene	99.3			80.0-120		04/29/2017 05:54	WG975021

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.46		0.0247	0.100	1	04/29/2017 04:26	WG974616
(S) o-Terphenyl	98.3			31.0-160		04/29/2017 04:26	WG974616

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7390		2.82	10.0	1	04/30/2017 11:49	WG974887

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0320	J	0.0197	0.100	1	05/01/2017 15:43	WG974941

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2030		5.19	100	100	04/28/2017 22:49	WG974574
Fluoride	0.925		0.00990	0.100	1	04/28/2017 22:31	WG974574
Sulfate	2620		7.74	500	100	04/28/2017 22:49	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00912		0.000250	0.00200	1	04/30/2017 23:37	WG974645
Arsenic,Dissolved	0.00910		0.000250	0.00200	1	05/02/2017 01:45	WG974737
Barium	0.0124		0.000360	0.00500	1	05/02/2017 18:11	WG974645
Barium,Dissolved	0.0127		0.000360	0.00500	1	05/02/2017 01:45	WG974737
Calcium	660		0.0460	1.00	1	04/30/2017 23:37	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:37	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:45	WG974737
Iron	0.266		0.0150	0.100	1	04/30/2017 23:37	WG974645
Iron,Dissolved	0.0155	J	0.0150	0.100	1	05/02/2017 01:45	WG974737
Lead	0.000256	J	0.000240	0.00200	1	05/02/2017 18:11	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:45	WG974737
Manganese	6.36		0.000250	0.00500	1	04/30/2017 23:37	WG974645
Manganese,Dissolved	6.46		0.000250	0.00500	1	05/02/2017 01:45	WG974737
Potassium	9.07		0.0370	1.00	1	04/30/2017 23:37	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:37	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 01:45	WG974737
Sodium	1800		1.10	10.0	10	05/01/2017 16:43	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 07:03	WG974712
(S) a,a,a-Trifluorotoluene(FID) 113				77.0-122		04/28/2017 07:03	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 06:11	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 06:11	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 06:11	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 06:11	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 06:11	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 06:11	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 06:11	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 06:11	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 06:11	WG975021



Collected date/time: 04/25/17 09:25

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 06:11	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 06:11	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 06:11	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 06:11	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 06:11	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 06:11	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 06:11	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 06:11	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 06:11	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 06:11	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 06:11	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 06:11	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 06:11	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 06:11	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 06:11	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 06:11	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 06:11	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 06:11	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 06:11	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 06:11	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 06:11	WG975021
Methyl tert-butyl ether	0.000919	U	0.000367	0.00100	1	04/29/2017 06:11	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 06:11	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 06:11	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 06:11	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 06:11	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 06:11	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 06:11	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 06:11	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 06:11	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 06:11	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 06:11	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 06:11	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 06:11	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 06:11	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 06:11	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 06:11	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 06:11	WG975021
(S) Toluene-d8	101			80.0-120		04/29/2017 06:11	WG975021
(S) Dibromofluoromethane	96.8			76.0-123		04/29/2017 06:11	WG975021
(S) 4-Bromofluorobenzene	102			80.0-120		04/29/2017 06:11	WG975021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.585		0.0247	0.100	1	04/29/2017 04:43	WG974616
(S) o-Terphenyl	97.4			31.0-160		04/29/2017 04:43	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	13500		2.82	10.0	1	04/30/2017 11:49	WG974887

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 15:57	WG974945

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4340		5.19	100	100	04/28/2017 12:04	WG974575
Fluoride	1.02		0.00990	0.100	1	04/28/2017 11:40	WG974575
Sulfate	5020		7.74	500	100	04/28/2017 12:04	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00551		0.000250	0.00200	1	04/30/2017 23:41	WG974645
Arsenic,Dissolved	0.00522		0.000250	0.00200	1	05/02/2017 01:48	WG974737
Barium	0.0155		0.000360	0.00500	1	05/02/2017 18:15	WG974645
Barium,Dissolved	0.0162		0.000360	0.00500	1	05/02/2017 01:48	WG974737
Calcium	648		0.0460	1.00	1	04/30/2017 23:41	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:41	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:48	WG974737
Iron	1.52		0.0150	0.100	1	04/30/2017 23:41	WG974645
Iron,Dissolved	0.617		0.0150	0.100	1	05/02/2017 01:48	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 18:15	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:48	WG974737
Manganese	1.62		0.000250	0.00500	1	04/30/2017 23:41	WG974645
Manganese,Dissolved	1.71		0.000250	0.00500	1	05/02/2017 01:48	WG974737
Potassium	24.3		0.0370	1.00	1	04/30/2017 23:41	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:41	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 01:48	WG974737
Sodium	3560		2.20	20.0	20	05/01/2017 16:46	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 07:27	WG974712
(S) a,a,a-Trifluorotoluene(FID) 113				77.0-122		04/28/2017 07:27	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 06:28	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 06:28	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 06:28	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 06:28	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 06:28	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 06:28	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 06:28	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 06:28	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 06:28	WG975021



Collected date/time: 04/25/17 17:20

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 06:28	WG975021	¹ Cp
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 06:28	WG975021	² Tc
Chloroethane	U		0.000453	0.00500	1	04/29/2017 06:28	WG975021	
Chloroform	U		0.000324	0.00500	1	04/29/2017 06:28	WG975021	³ Ss
Chloromethane	U		0.000276	0.00250	1	04/29/2017 06:28	WG975021	
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 06:28	WG975021	⁴ Cn
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 06:28	WG975021	
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 06:28	WG975021	
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 06:28	WG975021	⁵ Sr
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 06:28	WG975021	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 06:28	WG975021	⁶ Qc
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 06:28	WG975021	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 06:28	WG975021	⁷ Gl
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 06:28	WG975021	
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 06:28	WG975021	⁸ Al
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 06:28	WG975021	
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 06:28	WG975021	
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 06:28	WG975021	⁹ Sc
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 06:28	WG975021	
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 06:28	WG975021	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 06:28	WG975021	
Methyl tert-butyl ether	0.000665	U	0.000367	0.00100	1	04/29/2017 06:28	WG975021	
Naphthalene	U		0.00100	0.00500	1	04/29/2017 06:28	WG975021	
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 06:28	WG975021	
Styrene	U		0.000307	0.00100	1	04/29/2017 06:28	WG975021	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 06:28	WG975021	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 06:28	WG975021	
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 06:28	WG975021	
Toluene	U		0.000412	0.00100	1	04/29/2017 06:28	WG975021	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 06:28	WG975021	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 06:28	WG975021	
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 06:28	WG975021	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 06:28	WG975021	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 06:28	WG975021	
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 06:28	WG975021	
o-Xylene	U		0.000341	0.00100	1	04/29/2017 06:28	WG975021	
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 06:28	WG975021	
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 06:28	WG975021	
(S) Toluene-d8	101			80.0-120		04/29/2017 06:28	WG975021	
(S) Dibromofluoromethane	97.7			76.0-123		04/29/2017 06:28	WG975021	
(S) 4-Bromofluorobenzene	101			80.0-120		04/29/2017 06:28	WG975021	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.356		0.0247	0.100	1	04/29/2017 01:51	WG974616
(S) o-Terphenyl	95.3			31.0-160		04/29/2017 01:51	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	17100		2.82	10.0	1	04/30/2017 12:15	WG974888

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0220	J	0.0197	0.100	1	05/01/2017 15:59	WG974945

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:23	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5790		5.19	100	100	04/28/2017 12:15	WG974575
Fluoride	1.46		0.00990	0.100	1	04/28/2017 11:52	WG974575
Sulfate	6330		7.74	500	100	04/28/2017 12:15	WG974575

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:30	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:19	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00466		0.000250	0.00200	1	04/30/2017 21:00	WG974645
Arsenic,Dissolved	0.00465		0.000250	0.00200	1	05/02/2017 01:52	WG974737
Barium	0.0152		0.000360	0.00500	1	04/30/2017 21:00	WG974645
Barium,Dissolved	0.0170		0.000360	0.00500	1	05/02/2017 01:52	WG974737
Boron	2.04		0.0150	0.200	10	05/10/2017 12:27	WG974645
Boron,Dissolved	2.38		0.0300	0.400	20	05/02/2017 14:07	WG974737
Cadmium	U		0.000160	0.00100	1	04/30/2017 21:00	WG974645
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 01:52	WG974737
Calcium	623		0.0460	1.00	1	04/30/2017 21:00	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 21:00	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:52	WG974737
Cobalt	U		0.000260	0.00200	1	04/30/2017 21:00	WG974645
Cobalt,Dissolved	0.000305	J	0.000260	0.00200	1	05/02/2017 01:52	WG974737
Iron	0.637		0.0150	0.100	1	04/30/2017 21:00	WG974645
Iron,Dissolved	0.382		0.0150	0.100	1	05/02/2017 01:52	WG974737
Lead	U		0.000240	0.00200	1	04/30/2017 21:00	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:52	WG974737
Manganese	0.723		0.000250	0.00500	1	04/30/2017 21:00	WG974645
Manganese,Dissolved	0.776		0.000250	0.00500	1	05/02/2017 01:52	WG974737
Nickel	0.00762		0.000350	0.00200	1	04/30/2017 21:00	WG974645
Nickel,Dissolved	0.00693		0.000350	0.00200	1	05/02/2017 01:52	WG974737
Potassium	38.8		0.0370	1.00	1	04/30/2017 21:00	WG974645
Selenium	0.000491	J	0.000380	0.00200	1	04/30/2017 21:00	WG974645
Selenium,Dissolved	0.000553	J	0.000380	0.00200	1	05/02/2017 01:52	WG974737
Sodium	3940		1.10	10.0	10	05/02/2017 18:18	WG974645



Collected date/time: 04/25/17 13:30

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Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0305		0.000330	0.0100	1	04/30/2017 21:00	WG974645
Uranium,Dissolved	0.0309		0.000330	0.0100	1	05/02/2017 01:52	WG974737
Vanadium	0.000435	J	0.000180	0.00500	1	04/30/2017 21:00	WG974645
Vanadium,Dissolved	0.000553	J	0.000180	0.00500	1	05/02/2017 01:52	WG974737

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 06:45	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 06:45	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 06:45	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 06:45	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 06:45	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 06:45	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 06:45	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 06:45	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 06:45	WG975021
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 06:45	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 06:45	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 06:45	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 06:45	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 06:45	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 06:45	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 06:45	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 06:45	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 06:45	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 06:45	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 06:45	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 06:45	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 06:45	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 06:45	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 06:45	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 06:45	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 06:45	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 06:45	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 06:45	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 06:45	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 06:45	WG975021
Methyl tert-butyl ether	0.000650	J	0.000367	0.00100	1	04/29/2017 06:45	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 06:45	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 06:45	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 06:45	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 06:45	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 06:45	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 06:45	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 06:45	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 06:45	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 06:45	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 06:45	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 06:45	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 06:45	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 06:45	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 06:45	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 06:45	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 06:45	WG975021
(S) Toluene-d8	102			80.0-120		04/29/2017 06:45	WG975021

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/25/17 13:30

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Dibromofluoromethane	96.8			76.0-123		04/29/2017 06:45	WG975021
(S) 4-Bromofluorobenzene	101			80.0-120		04/29/2017 06:45	WG975021

¹ Cp

² Tc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.516		0.0247	0.100	1	04/29/2017 02:08	WG974616
(S) o-Terphenyl	97.1			31.0-160		04/29/2017 02:08	WG974616

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4080		2.82	10.0	1	04/30/2017 12:15	WG974888

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:00	WG974945

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	860		2.60	50.0	50	04/28/2017 13:37	WG974575
Fluoride	0.797		0.00990	0.100	1	04/28/2017 12:50	WG974575
Sulfate	2070		3.87	250	50	04/28/2017 13:37	WG974575

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00883		0.000250	0.00200	1	04/30/2017 23:44	WG974645
Arsenic,Dissolved	0.00962		0.000250	0.00200	1	05/02/2017 01:56	WG974737
Barium	0.0137		0.000360	0.00500	1	05/02/2017 18:22	WG974645
Barium,Dissolved	0.0130		0.000360	0.00500	1	05/02/2017 01:56	WG974737
Calcium	576		0.0460	1.00	1	04/30/2017 23:44	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:44	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:56	WG974737
Iron	0.0793	J	0.0150	0.100	1	04/30/2017 23:44	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 01:56	WG974737
Lead	0.00104	J	0.000240	0.00200	1	05/02/2017 18:22	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:56	WG974737
Manganese	0.803		0.000250	0.00500	1	04/30/2017 23:44	WG974645
Manganese,Dissolved	0.897		0.000250	0.00500	1	05/02/2017 01:56	WG974737
Potassium	5.91		0.0370	1.00	1	04/30/2017 23:44	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:44	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 01:56	WG974737
Sodium	481		0.110	1.00	1	05/02/2017 18:22	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0932	J	0.0314	0.100	1	04/28/2017 07:52	WG974712
(S) a,a,a-Trifluorotoluene(FID) 113				77.0-122		04/28/2017 07:52	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	04/29/2017 07:01	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 07:01	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 07:01	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 07:01	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 07:01	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 07:01	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 07:01	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 07:01	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 07:01	WG975021



Collected date/time: 04/25/17 14:20

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 07:01	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 07:01	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 07:01	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 07:01	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 07:01	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 07:01	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 07:01	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 07:01	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 07:01	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 07:01	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 07:01	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 07:01	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 07:01	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 07:01	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 07:01	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 07:01	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 07:01	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 07:01	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 07:01	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 07:01	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 07:01	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 07:01	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 07:01	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 07:01	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 07:01	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 07:01	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 07:01	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 07:01	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 07:01	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 07:01	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 07:01	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 07:01	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 07:01	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 07:01	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 07:01	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 07:01	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 07:01	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 07:01	WG975021
(S) Toluene-d8	102			80.0-120		04/29/2017 07:01	WG975021
(S) Dibromofluoromethane	99.0			76.0-123		04/29/2017 07:01	WG975021
(S) 4-Bromofluorobenzene	101			80.0-120		04/29/2017 07:01	WG975021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.287		0.0247	0.100	1	04/29/2017 04:09	WG974616
(S) o-Terphenyl	95.7			31.0-160		04/29/2017 04:09	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4660		2.82	10.0	1	04/30/2017 12:15	WG974888

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:06	WG974945

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1290		2.60	50.0	50	04/28/2017 13:49	WG974575
Fluoride	0.626		0.00990	0.100	1	04/28/2017 13:02	WG974575
Sulfate	2460		3.87	250	50	04/28/2017 13:49	WG974575

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0156		0.000250	0.00200	1	04/30/2017 23:48	WG974645
Arsenic,Dissolved	0.0156		0.000250	0.00200	1	05/02/2017 01:59	WG974737
Barium	0.0149		0.000360	0.00500	1	05/02/2017 18:25	WG974645
Barium,Dissolved	0.0156		0.000360	0.00500	1	05/02/2017 01:59	WG974737
Calcium	673		0.0460	1.00	1	04/30/2017 23:48	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:48	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:59	WG974737
Iron	2.19		0.0150	0.100	1	04/30/2017 23:48	WG974645
Iron,Dissolved	0.419		0.0150	0.100	1	05/02/2017 01:59	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 18:25	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:59	WG974737
Manganese	0.440		0.000250	0.00500	1	04/30/2017 23:48	WG974645
Manganese,Dissolved	0.244		0.000250	0.00500	1	05/02/2017 01:59	WG974737
Potassium	4.87		0.0370	1.00	1	04/30/2017 23:48	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:48	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 01:59	WG974737
Sodium	852		1.10	10.0	10	05/01/2017 16:53	WG974645

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.35		0.0314	0.100	1	04/28/2017 08:16	WG974712
(S) a,a,a-Trifluorotoluene(FID) 113				77.0-122		04/28/2017 08:16	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 07:18	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 07:18	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 07:18	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 07:18	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 07:18	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 07:18	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 07:18	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 07:18	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 07:18	WG975021



Collected date/time: 04/25/17 15:20

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 07:18	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 07:18	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 07:18	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 07:18	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 07:18	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 07:18	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 07:18	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 07:18	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 07:18	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 07:18	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 07:18	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 07:18	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 07:18	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 07:18	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 07:18	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 07:18	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 07:18	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 07:18	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 07:18	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 07:18	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 07:18	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 07:18	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 07:18	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 07:18	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 07:18	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 07:18	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 07:18	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 07:18	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 07:18	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 07:18	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 07:18	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 07:18	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 07:18	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 07:18	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 07:18	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 07:18	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 07:18	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 07:18	WG975021
(S) Toluene-d8	101			80.0-120		04/29/2017 07:18	WG975021
(S) Dibromofluoromethane	97.9			76.0-123		04/29/2017 07:18	WG975021
(S) 4-Bromofluorobenzene	105			80.0-120		04/29/2017 07:18	WG975021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.899		0.0247	0.100	1	04/29/2017 02:25	WG974616
(S) o-Terphenyl	98.6			31.0-160		04/29/2017 02:25	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9780		2.82	10.0	1	04/30/2017 12:15	WG974888

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:07	WG974945

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	3110		5.19	100	100	04/28/2017 14:00	WG974575
Fluoride	0.739		0.00990	0.100	1	04/28/2017 13:14	WG974575
Sulfate	3950		7.74	500	100	04/28/2017 14:00	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00565		0.000250	0.00200	1	04/30/2017 23:51	WG974645
Arsenic,Dissolved	0.000470	J	0.000250	0.00200	1	05/02/2017 02:03	WG974737
Barium	0.0205		0.000360	0.00500	1	05/02/2017 18:29	WG974645
Barium,Dissolved	0.0192		0.000360	0.00500	1	05/02/2017 02:03	WG974737
Calcium	715		0.0460	1.00	1	04/30/2017 23:51	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:51	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:03	WG974737
Iron	10.6		0.0150	0.100	1	04/30/2017 23:51	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 02:03	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 18:29	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:03	WG974737
Manganese	0.448		0.000250	0.00500	1	04/30/2017 23:51	WG974645
Manganese,Dissolved	0.463		0.000250	0.00500	1	05/02/2017 02:03	WG974737
Potassium	6.44		0.0370	1.00	1	04/30/2017 23:51	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:51	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 02:03	WG974737
Sodium	2140		1.10	10.0	10	05/01/2017 16:58	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 08:40	WG974712
(S) a,a,a-Trifluorotoluene(FID) 112				77.0-122		04/28/2017 08:40	WG974712

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 07:35	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 07:35	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 07:35	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 07:35	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 07:35	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 07:35	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 07:35	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 07:35	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 07:35	WG975021



Collected date/time: 04/25/17 16:20

L905300

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 07:35	WG975021	2 Tc
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 07:35	WG975021	3 Ss
Chloroethane	U		0.000453	0.00500	1	04/29/2017 07:35	WG975021	4 Cn
Chloroform	U		0.000324	0.00500	1	04/29/2017 07:35	WG975021	5 Sr
Chloromethane	U		0.000276	0.00250	1	04/29/2017 07:35	WG975021	6 Qc
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 07:35	WG975021	7 Gl
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 07:35	WG975021	8 Al
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 07:35	WG975021	9 Sc
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 07:35	WG975021	
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 07:35	WG975021	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 07:35	WG975021	
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 07:35	WG975021	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 07:35	WG975021	
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 07:35	WG975021	
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 07:35	WG975021	
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 07:35	WG975021	
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 07:35	WG975021	
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 07:35	WG975021	
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 07:35	WG975021	
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 07:35	WG975021	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 07:35	WG975021	
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 07:35	WG975021	
Naphthalene	U		0.00100	0.00500	1	04/29/2017 07:35	WG975021	
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 07:35	WG975021	
Styrene	U		0.000307	0.00100	1	04/29/2017 07:35	WG975021	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 07:35	WG975021	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 07:35	WG975021	
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 07:35	WG975021	
Toluene	U		0.000412	0.00100	1	04/29/2017 07:35	WG975021	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 07:35	WG975021	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 07:35	WG975021	
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 07:35	WG975021	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 07:35	WG975021	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 07:35	WG975021	
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 07:35	WG975021	
o-Xylene	U		0.000341	0.00100	1	04/29/2017 07:35	WG975021	
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 07:35	WG975021	
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 07:35	WG975021	
(S) Toluene-d8	100			80.0-120		04/29/2017 07:35	WG975021	
(S) Dibromofluoromethane	98.8			76.0-123		04/29/2017 07:35	WG975021	
(S) 4-Bromofluorobenzene	99.8			80.0-120		04/29/2017 07:35	WG975021	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0365	J	0.0247	0.100	1	04/29/2017 17:16	WG974616
(S) o-Terphenyl	88.8			31.0-160		04/29/2017 17:16	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7810		2.82	10.0	1	04/30/2017 12:15	WG974888

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:08	WG974945

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2230		5.19	100	100	04/28/2017 14:12	WG974575
Fluoride	1.07		0.00990	0.100	1	04/28/2017 13:25	WG974575
Sulfate	2930		7.74	500	100	04/28/2017 14:12	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0195		0.000250	0.00200	1	04/30/2017 20:43	WG974645
Arsenic,Dissolved	0.0131		0.000250	0.00200	1	05/02/2017 02:07	WG974737
Barium	0.0154		0.000360	0.00500	1	04/30/2017 20:43	WG974645
Barium,Dissolved	0.0150		0.000360	0.00500	1	05/02/2017 02:07	WG974737
Calcium	434		0.460	10.0	10	05/02/2017 12:11	WG974645
Chromium	0.000720	J	0.000540	0.00200	1	04/30/2017 20:43	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:07	WG974737
Iron	3.07		0.0150	0.100	1	04/30/2017 20:43	WG974645
Iron,Dissolved	0.0169	J	0.0150	0.100	1	05/02/2017 02:07	WG974737
Lead	U		0.000240	0.00200	1	04/30/2017 20:43	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:07	WG974737
Manganese	0.521	V	0.000250	0.00500	1	04/30/2017 20:43	WG974645
Manganese,Dissolved	0.541		0.000250	0.00500	1	05/02/2017 02:07	WG974737
Potassium	3.89	O1	0.0370	1.00	1	04/30/2017 20:43	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 20:43	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 02:07	WG974737
Sodium	1780		1.10	10.0	10	05/09/2017 20:23	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.402		0.0314	0.100	1	04/28/2017 14:39	WG974800
(S) a,a,a-Trifluorotoluene(FID) 102				77.0-122		04/28/2017 14:39	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 07:52	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 07:52	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 07:52	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 07:52	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 07:52	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 07:52	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 07:52	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 07:52	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 07:52	WG975021



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 07:52	WG975021	2 Tc
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 07:52	WG975021	3 Ss
Chloroethane	U		0.000453	0.00500	1	04/29/2017 07:52	WG975021	4 Cn
Chloroform	U		0.000324	0.00500	1	04/29/2017 07:52	WG975021	5 Sr
Chloromethane	U		0.000276	0.00250	1	04/29/2017 07:52	WG975021	6 Qc
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 07:52	WG975021	7 Gl
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 07:52	WG975021	8 Al
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 07:52	WG975021	9 Sc
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 07:52	WG975021	
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 07:52	WG975021	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 07:52	WG975021	
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 07:52	WG975021	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 07:52	WG975021	
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 07:52	WG975021	
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 07:52	WG975021	
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 07:52	WG975021	
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 07:52	WG975021	
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 07:52	WG975021	
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 07:52	WG975021	
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 07:52	WG975021	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 07:52	WG975021	
Methyl tert-butyl ether	0.00148		0.000367	0.00100	1	04/29/2017 07:52	WG975021	
Naphthalene	U		0.00100	0.00500	1	04/29/2017 07:52	WG975021	
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 07:52	WG975021	
Styrene	U		0.000307	0.00100	1	04/29/2017 07:52	WG975021	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 07:52	WG975021	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 07:52	WG975021	
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 07:52	WG975021	
Toluene	U		0.000412	0.00100	1	04/29/2017 07:52	WG975021	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 07:52	WG975021	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 07:52	WG975021	
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 07:52	WG975021	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 07:52	WG975021	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 07:52	WG975021	
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 07:52	WG975021	
o-Xylene	U		0.000341	0.00100	1	04/29/2017 07:52	WG975021	
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 07:52	WG975021	
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 07:52	WG975021	
(S) Toluene-d8	101			80.0-120		04/29/2017 07:52	WG975021	
(S) Dibromofluoromethane	98.0			76.0-123		04/29/2017 07:52	WG975021	
(S) 4-Bromofluorobenzene	103			80.0-120		04/29/2017 07:52	WG975021	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.24		0.0247	0.100	1	04/29/2017 02:43	WG974616
(S) o-Terphenyl	97.0			31.0-160		04/29/2017 02:43	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3.00	J	2.82	10.0	1	04/30/2017 12:15	WG974888

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:09	WG974945

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.282	J P1	0.0519	1.00	1	04/28/2017 11:18	WG974575
Fluoride	U		0.00990	0.100	1	04/28/2017 11:18	WG974575
Sulfate	0.463	J P1	0.0774	5.00	1	04/28/2017 11:18	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000250	0.00200	1	05/04/2017 16:48	WG974743
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 02:28	WG974740
Barium	U		0.000360	0.00500	1	05/04/2017 16:48	WG974743
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 02:28	WG974740
Calcium	0.135	J	0.0460	1.00	1	05/04/2017 16:48	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 16:48	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:28	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 16:48	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 02:28	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 16:48	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:28	WG974740
Manganese	0.000252	J	0.000250	0.00500	1	05/04/2017 16:48	WG974743
Manganese,Dissolved	0.000400	J	0.000250	0.00500	1	05/02/2017 02:28	WG974740
Potassium	U		0.0370	1.00	1	05/04/2017 16:48	WG974743
Selenium	0.000910	B J	0.000380	0.00200	1	05/04/2017 16:48	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 02:28	WG974740
Sodium	U		0.110	1.00	1	05/04/2017 16:48	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 16:03	WG974800
(S) a,a,a-Trifluorotoluene(FID) 103				77.0-122		04/28/2017 16:03	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 08:09	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 08:09	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 08:09	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 08:09	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 08:09	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 08:09	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 08:09	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 08:09	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 08:09	WG975021



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 08:09	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 08:09	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 08:09	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 08:09	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 08:09	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 08:09	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 08:09	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 08:09	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 08:09	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 08:09	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 08:09	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 08:09	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 08:09	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 08:09	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 08:09	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 08:09	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 08:09	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 08:09	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 08:09	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 08:09	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 08:09	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 08:09	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 08:09	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 08:09	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 08:09	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 08:09	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 08:09	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 08:09	WG975021
Toluene	0.000632	U	0.000412	0.00100	1	04/29/2017 08:09	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 08:09	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 08:09	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 08:09	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 08:09	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 08:09	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 08:09	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 08:09	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 08:09	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 08:09	WG975021
(S) Toluene-d8	102			80.0-120		04/29/2017 08:09	WG975021
(S) Dibromofluoromethane	98.0			76.0-123		04/29/2017 08:09	WG975021
(S) 4-Bromofluorobenzene	99.9			80.0-120		04/29/2017 08:09	WG975021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/29/2017 05:18	WG974616
(S) o-Terphenyl	90.8			31.0-160		04/29/2017 05:18	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	10.0	J	2.82	10.0	1	04/30/2017 12:15	WG974888

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:10	WG974945

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.170	J	0.0519	1.00	1	04/28/2017 14:24	WG974575
Fluoride	U		0.00990	0.100	1	04/28/2017 14:24	WG974575
Sulfate	0.518	J	0.0774	5.00	1	04/28/2017 14:24	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000250	0.00200	1	05/04/2017 16:51	WG974743
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 02:50	WG974740
Barium	U		0.000360	0.00500	1	05/04/2017 16:51	WG974743
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 02:50	WG974740
Calcium	U		0.0460	1.00	1	05/04/2017 16:51	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 16:51	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:50	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 16:51	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 02:50	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 16:51	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:50	WG974740
Manganese	U		0.000250	0.00500	1	05/04/2017 16:51	WG974743
Manganese,Dissolved	0.000255	J	0.000250	0.00500	1	05/02/2017 02:50	WG974740
Potassium	U		0.0370	1.00	1	05/04/2017 16:51	WG974743
Selenium	0.000733	B J	0.000380	0.00200	1	05/04/2017 16:51	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 02:50	WG974740
Sodium	U		0.110	1.00	1	05/04/2017 16:51	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 16:24	WG974800
(S) a,a,a-Trifluorotoluene(FID) 103				77.0-122		04/28/2017 16:24	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 08:26	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 08:26	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 08:26	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 08:26	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 08:26	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 08:26	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 08:26	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 08:26	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 08:26	WG975021



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 08:26	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 08:26	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 08:26	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 08:26	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 08:26	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 08:26	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 08:26	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 08:26	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 08:26	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 08:26	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 08:26	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 08:26	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 08:26	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 08:26	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 08:26	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 08:26	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 08:26	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 08:26	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 08:26	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 08:26	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 08:26	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 08:26	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 08:26	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 08:26	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 08:26	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 08:26	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 08:26	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 08:26	WG975021
Toluene	0.000746	U	0.000412	0.00100	1	04/29/2017 08:26	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 08:26	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 08:26	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 08:26	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 08:26	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 08:26	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 08:26	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 08:26	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 08:26	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 08:26	WG975021
(S) Toluene-d8	99.2			80.0-120		04/29/2017 08:26	WG975021
(S) Dibromofluoromethane	98.0			76.0-123		04/29/2017 08:26	WG975021
(S) 4-Bromofluorobenzene	95.2			80.0-120		04/29/2017 08:26	WG975021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/29/2017 03:52	WG974616
(S) o-Terphenyl	89.4			31.0-160		04/29/2017 03:52	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7.00	J	2.82	10.0	1	04/30/2017 12:15	WG974888

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0200	J P1	0.0197	0.100	1	05/01/2017 16:11	WG974945

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.369	J P1	0.0519	1.00	1	04/30/2017 22:54	WG975157
Fluoride	U		0.00990	0.100	1	04/30/2017 22:54	WG975157
Sulfate	0.490	J P1	0.0774	5.00	1	04/30/2017 22:54	WG975157

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000250	0.00200	1	05/04/2017 16:55	WG974743
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 02:53	WG974740
Barium	U		0.000360	0.00500	1	05/04/2017 16:55	WG974743
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 02:53	WG974740
Calcium	U		0.0460	1.00	1	05/04/2017 16:55	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 16:55	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:53	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 16:55	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 02:53	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 16:55	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:53	WG974740
Manganese	U		0.000250	0.00500	1	05/04/2017 16:55	WG974743
Manganese,Dissolved	U		0.000250	0.00500	1	05/02/2017 02:53	WG974740
Potassium	U		0.0370	1.00	1	05/04/2017 16:55	WG974743
Selenium	0.000544	B J	0.000380	0.00200	1	05/04/2017 16:55	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 02:53	WG974740
Sodium	U		0.110	1.00	1	05/04/2017 16:55	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 16:45	WG974800
(S) a,a,a-Trifluorotoluene(FID) 103				77.0-122		04/28/2017 16:45	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 08:42	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 08:42	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 08:42	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 08:42	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 08:42	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 08:42	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 08:42	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 08:42	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 08:42	WG975021



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 08:42	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 08:42	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 08:42	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 08:42	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 08:42	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 08:42	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 08:42	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 08:42	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 08:42	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 08:42	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 08:42	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 08:42	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 08:42	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 08:42	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 08:42	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 08:42	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 08:42	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 08:42	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 08:42	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 08:42	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 08:42	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 08:42	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 08:42	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 08:42	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 08:42	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 08:42	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 08:42	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 08:42	WG975021
Toluene	0.000494	U	0.000412	0.00100	1	04/29/2017 08:42	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 08:42	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 08:42	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 08:42	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 08:42	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 08:42	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 08:42	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 08:42	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 08:42	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 08:42	WG975021
(S) Toluene-d8	101			80.0-120		04/29/2017 08:42	WG975021
(S) Dibromofluoromethane	97.9			76.0-123		04/29/2017 08:42	WG975021
(S) 4-Bromofluorobenzene	98.9			80.0-120		04/29/2017 08:42	WG975021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	04/29/2017 17:33	WG974616
(S) o-Terphenyl	89.4			31.0-160		04/29/2017 17:33	WG974616



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 03:22	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 03:22	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 03:22	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 03:22	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 03:22	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 03:22	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 03:22	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 03:22	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 03:22	WG975021
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 03:22	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 03:22	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 03:22	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 03:22	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 03:22	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 03:22	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 03:22	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 03:22	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 03:22	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 03:22	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 03:22	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 03:22	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 03:22	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 03:22	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 03:22	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 03:22	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 03:22	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 03:22	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 03:22	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 03:22	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 03:22	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 03:22	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 03:22	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 03:22	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 03:22	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 03:22	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 03:22	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 03:22	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 03:22	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 03:22	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 03:22	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 03:22	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 03:22	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 03:22	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 03:22	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 03:22	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 03:22	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 03:22	WG975021
(S) Toluene-d8	101			80.0-120		04/29/2017 03:22	WG975021
(S) Dibromofluoromethane	96.5			76.0-123		04/29/2017 03:22	WG975021
(S) 4-Bromofluorobenzene	98.2			80.0-120		04/29/2017 03:22	WG975021

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3214533-1 04/28/17 14:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDRL mg/l
Dissolved Solids	U	2.82	10.0	

L905300-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-01 04/28/17 14:27 • (DUP) R3214533-4 04/28/17 14:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	5630	5670	1	0.708		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214533-2 04/28/17 14:27 • (LCSD) R3214533-3 04/28/17 14:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8590	8580	97.6	97.5	85.0-115		0.116	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215013-1 04/30/17 11:49

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDRL mg/l
Dissolved Solids	U	2.82	10.0	

L905226-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905226-01 04/30/17 11:49 • (DUP) R3215013-4 04/30/17 11:49

Analyte	Original Result mg/l	DUP Result mg/l	DUP Qualifier	DUP RPD %	DUP RPD Limits %
Dissolved Solids	1770	1760	1	0.567	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215013-2 04/30/17 11:49 • (LCSD) R3215013-3 04/30/17 11:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Dissolved Solids	8800	8610	8590	97.8	97.6	85.0-115	0.233	0.233	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215048-1 04/30/17 12:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905302-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905302-02 04/30/17 12:15 • (DUP) R3215048-4 04/30/17 12:15

Analyte	Original Result mg/l	DUP Result mg/l	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1800	1860	1	3.56	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215048-2 04/30/17 12:15 • (LCSD) R3215048-3 04/30/17 12:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8620	8600	98.0	97.7	85.0-115	0.232	0.232	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214395-1 04/28/17 11:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RD L mg/l
Nitrate-Nitrite	U	0.0197	0.100	

L904920-01 Original Sample (OS) • Duplicate (DUP)

(OS) L904920-01 04/28/17 11:44 • (DUP) R3214395-4 04/28/17 11:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.13	1.12	1	1		20

L905115-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905115-01 04/28/17 12:00 • (DUP) R3214395-6 04/28/17 12:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	ND	0.0580	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214395-2 04/28/17 11:41 • (LCSD) R3214395-3 04/28/17 11:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	5.09	4.94	102	99	90-110			3	20

L905093-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L905093-01 04/28/17 11:55 • (MS) R3214395-5 04/28/17 11:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	5.00	1.08	5.89	96	1	90-110	

L905206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905206-01 04/28/17 12:08 • (MS) R3214395-7 04/28/17 12:09 • (MSD) R3214395-8 04/28/17 12:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	2.04	6.72	6.79	94	95	1	90-110		1	20



Method Blank (MB)

(MB) R3214791-1 05/01/17 15:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RD L mg/l
Nitrate-Nitrite	U	0.0197	0.100	

L904709-04 Original Sample (OS) • Duplicate (DUP)

(OS) L904709-04 05/01/17 15:05 • (DUP) R3214791-4 05/01/17 15:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.704	0.675	1	4		20

L905300-04 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-04 05/01/17 15:21 • (DUP) R3214791-6 05/01/17 15:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.56	1.53	1	2		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214791-2 05/01/17 15:03 • (LCSD) R3214791-3 05/01/17 15:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	5.24	5.06	105	101	90-110			4	20

L904709-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L904709-06 05/01/17 15:08 • (MS) R3214791-5 05/01/17 15:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	5.00	0.578	5.12	91	1	90-110	

L905300-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-11 05/01/17 15:34 • (MS) R3214791-7 05/01/17 15:35 • (MSD) R3214791-8 05/01/17 15:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	0.0360	5.02	5.00	100	99	1	90-110		0	20



Method Blank (MB)

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905300-15 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-15 05/01/17 15:57 • (DUP) R3214792-4 05/01/17 15:58					
Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier %
Nitrate-Nitrite	U	0.000	1	0	20

L905300-23 Original Sample (OS) • Duplicate (DUP)

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.0200	0.000	1	200	P1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214792-2 05/01/17 15:55 • (LCS) R3214792-3 05/01/17 15:56							
Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD Limits %
				<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	
Nitrate-Nitrite	5.00	5.29	5.16	106	103	90-110	20

L905300-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-17 05/01/17 16:00 • (MS) R3214792-5 05/01/17 16:01							
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	5.00	U	4.76	95	1	90-110	

L905302-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905302-01 05/01/17 16:14 • (MS) R3214792-7 05/01/17 16:19 • (MSD) R3214792-8 05/01/17 16:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	0.0270	4.88	5.00	97	99	1	90-110		2	2	20



Method Blank (MB)

(MB) R3214896-1 05/02/17 09:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLCyanide
	U	0.0018	0.00500	

L905300-13 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-13 05/02/17 09:21 • (DUP) R3214896-4 05/02/17 09:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0.000	1	0		20

L905437-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905437-01 05/02/17 09:48 • (DUP) R3214896-7 05/02/17 09:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	0.000	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214896-2 05/02/17 09:17 • (LCSD) R3214896-3 05/02/17 09:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.0936	0.101	94	101	85-115			8	20

L905307-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-18 05/02/17 09:36 • (MS) R3214896-5 05/02/17 09:37 • (MSD) R3214896-6 05/02/17 09:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.195	0.177	195	177	1	75-125	J5	J5	10	20



Method Blank (MB)

(MB) R3214421-1 04/28/17 07:04

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Chloride	U	0.0519	1.00	
Fluoride	U	0.0099	0.100	
Sulfate	U	0.0774	5.00	

L905233-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905233-01 04/28/17 16:26 • (DUP) R3214421-4 04/28/17 16:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	40.5	40.4	1	0		15
Fluoride	0.152	0.151	1	0		15
Sulfate	27.6	27.5	1	1		15

L905233-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905233-02 04/28/17 17:01 • (DUP) R3214421-5 04/28/17 18:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	20.5	20.2	1	1		15
Fluoride	0.261	0.259	1	1		15
Sulfate	12.7	12.9	1	1		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214421-2 04/28/17 07:22 • (LCSD) R3214421-3 04/28/17 07:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Chloride	40.0	39.3	39.7	98	99	80-120			1	15
Fluoride	8.00	7.93	7.98	99	100	80-120			1	15
Sulfate	40.0	39.8	40.1	100	100	80-120			1	15

L905300-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-12 04/28/17 17:53 • (MS) R3214421-6 04/28/17 19:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %
Fluoride	5.00	0.966	5.36	88	1	80-120	



L905300-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-14 04/28/17 22:31 • (MS) R3214421-7 04/28/17 23:06 • (MSD) R3214421-8 04/28/17 23:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	0.925	5.12	5.15	84	84	1	80-120		1		15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214490-2 04/28/17 06:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905300-21 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-21 04/28/17 11:18 • (DUP) R3214490-5 04/28/17 11:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.282	0.415	1	38	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.463	0.167	1	94	J P1	15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214490-3 04/28/17 06:53 • (LCSD) R3214490-4 04/28/17 07:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	39.6	39.6	99	99	80-120			0	15
Fluoride	8.00	8.18	8.13	102	102	80-120			1	15
Sulfate	40.0	38.9	38.7	97	97	80-120			1	15

L905300-22 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-22 04/28/17 14:24 • (MS) R3214490-6 04/28/17 14:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.170	50.8	101	1	80-120	
Fluoride	5.00	U	5.17	103	1	80-120	
Sulfate	50.0	0.518	50.5	100	1	80-120	

L905307-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-01 04/28/17 17:30 • (MS) R3214490-7 04/28/17 18:29 • (MSD) R3214490-8 04/28/17 18:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	0.623	5.58	4.90	99	85	1	80-120			13	15



Method Blank (MB)

(MB) R3214601-1 04/30/17 19:54

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Chloride	U	0.0519	1.00	
Fluoride	U	0.0099	0.100	
Sulfate	U	0.0774	5.00	

L905300-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-23 04/30/17 22:54 • (DUP) R3214601-5 04/30/17 23:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	0.369	0.474	1	25	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.490	0.000	1	200	P1	15

L905358-09 Original Sample (OS) • Duplicate (DUP)

(OS) L905358-09 05/01/17 03:23 • (DUP) R3214601-6 05/01/17 03:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	0.301	0.455	1	41	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	U	0.000	1	0		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214601-2 04/30/17 20:06 • (LCSD) R3214601-3 04/30/17 20:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Chloride	40.0	39.4	39.4	98	99	80-120		0	0	15
Fluoride	8.00	7.94	7.94	99	99	80-120		0	0	15
Sulfate	40.0	39.3	39.4	98	98	80-120		0	0	15

L905024-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L905024-09 04/30/17 21:09 • (MS) R3214601-4 04/30/17 21:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %
Chloride	50.0	ND	50.9	101	1	80-120	
Fluoride	5.00	ND	5.05	101	1	80-120	



L905024-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L905024-09 04/30/17 21:09 • (MS) R3214601-4 04/30/17 21:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50.0	ND	52.5	105	1	80-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214382-1 04/28/17 15:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214382-2 04/28/17 15:02 • (LCSD) R3214382-3 04/28/17 15:05

Analyte	Spike Amount mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00286	95	96	80-120			1	20

L905146-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905146-05 04/28/17 15:12 • (MS) R3214382-4 04/28/17 15:14 • (MSD) R3214382-5 04/28/17 15:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00288	0.00306	96	102	1	75-125		6		20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3214376-1 04/28/17 13:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214376-2 04/28/17 13:06 • (LCSD) R3214376-3 04/28/17 13:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	0.00300	0.00291	100	80-120			3	20

L904651-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904651-05 04/28/17 13:11 • (MS) R3214376-4 04/28/17 13:13 • (MSD) R3214376-5 04/28/17 13:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00295	0.00290	98	97	1	75-125		2	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3214559-2 04/30/17 20:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	0.0595	J	0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

Method Blank (MB)

(MB) R3215025-1 05/02/17 12:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00024	0.00200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214559-7 04/30/17 21:33 • (LCSD) R3214559-3 04/30/17 20:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0456	0.0466	91	93	80-120			2	20
Barium	0.0500	0.0490	0.0486	98	97	80-120			1	20
Boron	0.0500	0.0477	0.0401	95	80	80-120			17	20
Cadmium	0.0500	0.0479	0.0510	96	102	80-120			6	20
Calcium	5.00	4.82	4.79	96	96	80-120			1	20
Chromium	0.0500	0.0487	0.0486	97	97	80-120			0	20
Cobalt	0.0500	0.0489	0.0502	98	100	80-120			3	20
Iron	5.00	4.92	4.81	98	96	80-120			2	20
Lead	0.0500	0.0482	0.0492	96	98	80-120			2	20
Manganese	0.0500	0.0480	0.0467	96	93	80-120			3	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214559-7 04/30/17 21:33 • (LCSD) R3214559-3 04/30/17 20:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Nickel	0.0500	0.0485	0.0492	97	98	80-120			1	20
Potassium	5.00	4.93	4.95	99	99	80-120			0	20
Selenium	0.0500	0.0465	0.0485	93	97	80-120			4	20
Sodium	5.00	5.14	5.19	103	104	80-120			1	20
Uranium	0.0500	0.0478	0.0483	96	97	80-120			1	20
Vanadium	0.0500	0.0482	0.0474	96	95	80-120			2	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215025-2 05/02/17 12:04 • (LCSD) R3215025-3 05/02/17 12:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Lead	0.0500	0.0493	0.0496	99	99	80-120			0	20

L905300-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-20 04/30/17 20:43 • (MS) R3214559-6 04/30/17 20:50 • (MSD) R3214559-8 04/30/17 20:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	0.0195	0.0633	0.0631	88	87	1	75-125			0	20
Barium	0.0500	0.0154	0.0624	0.0660	94	101	1	75-125			6	20
Boron	0.0500	0.726	0.817	0.830	182	207	1	75-125	V	V	2	20
Cadmium	0.0500	U	0.0463	0.0461	93	92	1	75-125			0	20
Calcium	5.00	370	375	379	100	171	1	75-125	V	V	1	20
Chromium	0.0500	0.000720	0.0470	0.0461	93	91	1	75-125			2	20
Cobalt	0.0500	0.00253	0.0488	0.0482	92	91	1	75-125			1	20
Potassium	5.00	3.89	8.56	8.79	93	98	1	75-125			3	20
Iron	5.00	3.07	7.80	7.61	94	91	1	75-125			2	20
Lead	0.0500	U	0.0480	0.0480	96	96	1	75-125			0	20
Manganese	0.0500	0.521	0.565	0.555	87	66	1	75-125	V	V	2	20
Nickel	0.0500	0.0140	0.0593	0.0580	91	88	1	75-125			2	20
Selenium	0.0500	U	0.0496	0.0488	99	98	1	75-125			2	20
Uranium	0.0500	0.000615	0.0496	0.0500	98	99	1	75-125			1	20
Vanadium	0.0500	0.000275	0.0471	0.0462	94	92	1	75-125			2	20



L905300-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-20 05/02/17 12:11 • (MS) R3215025-5 05/02/17 12:18 • (MSD) R3215025-6 05/02/17 12:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Lead	0.00500	U	0.0485	0.0510	97	102	10	75-125			5	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214826-1 05/01/17 21:48

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Boron,Dissolved	U		0.0015	0.0200
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	U		0.00018	0.00500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCS-D)

(LCS) R3214826-2 05/01/17 21:52 • (LCS-D) R3214826-3 05/01/17 21:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec.		LCSD Rec.		Rec. Limits		<u>LCS Qualifier</u>		<u>LCSD Qualifier</u>		RPD Limits	
				%		%		%		%		%			
Arsenic,Dissolved	0.0500	0.0485	0.0479	97		96		80-120		1		20			
Barium,Dissolved	0.0500	0.0519	0.0486	104		97		80-120		6		20			
Boron,Dissolved	0.0500	0.0443	0.0453	89		91		80-120		2		20			
Cadmium,Dissolved	0.0500	0.0495	0.0481	99		96		80-120		3		20			
Chromium,Dissolved	0.0500	0.0489	0.0482	98		96		80-120		1		20			
Cobalt,Dissolved	0.0500	0.0494	0.0498	99		100		80-120		1		20			
Iron,Dissolved	5.00	4.77	4.76	95		95		80-120		0		20			
Lead,Dissolved	0.0500	0.0492	0.0484	98		97		80-120		2		20			
Manganese,Dissolved	0.0500	0.0479	0.0488	96		98		80-120		2		20			
Nickel,Dissolved	0.0500	0.0496	0.0486	99		97		80-120		2		20			
Selenium,Dissolved	0.0500	0.0513	0.0483	103		97		80-120		6		20			
Uranium,Dissolved	0.0500	0.0487	0.0481	97		96		80-120		1		20			
Vanadium,Dissolved	0.0500	0.0491	0.0488	98		98		80-120		1		20			



L905300-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-01 05/01/17 21:59 • (MS) R3214826-5 05/01/17 22:06 • (MSD) R3214826-6 05/01/17 22:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0326	0.0813	0.0804	98	96	1	75-125			1	20
Barium,Dissolved	0.0500	0.0260	0.0740	0.0730	96	94	1	75-125			1	20
Boron,Dissolved	0.0500	0.487	0.552	0.577	129	180	1	75-125	✓	✓	5	20
Cadmium,Dissolved	0.0500	U	0.0473	0.0467	95	93	1	75-125			1	20
Chromium,Dissolved	0.0500	U	0.0490	0.0482	98	96	1	75-125			2	20
Cobalt,Dissolved	0.0500	0.000775	0.0494	0.0489	97	96	1	75-125			1	20
Iron,Dissolved	5.00	0.0479	4.81	4.79	95	95	1	75-125			0	20
Lead,Dissolved	0.0500	U	0.0482	0.0476	96	95	1	75-125			1	20
Manganese,Dissolved	0.0500	1.97	2.07	2.09	210	239	1	75-125	✓	✓	1	20
Nickel,Dissolved	0.0500	0.00866	0.0565	0.0549	96	92	1	75-125			3	20
Selenium,Dissolved	0.0500	0.00125	0.0529	0.0505	103	99	1	75-125			5	20
Uranium,Dissolved	0.0500	U	0.0497	0.0494	99	99	1	75-125			1	20
Vanadium,Dissolved	0.0500	0.000956	0.0509	0.0506	100	99	1	75-125			1	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3214899-1 05/02/17 02:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214899-2 05/02/17 02:21 • (LCSD) R3214899-3 05/02/17 02:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0485	0.0482	97	96	80-120			1	20
Barium,Dissolved	0.0500	0.0483	0.0483	97	97	80-120			0	20
Chromium,Dissolved	0.0500	0.0498	0.0494	100	99	80-120			1	20
Iron,Dissolved	5.00	5.00	4.94	100	99	80-120			1	20
Lead,Dissolved	0.0500	0.0497	0.0496	99	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0508	0.0498	102	100	80-120			2	20
Selenium,Dissolved	0.0500	0.0484		97		80-120				

L905300-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-21 05/02/17 02:28 • (MS) R3214899-5 05/02/17 02:35 • (MSD) R3214899-6 05/02/17 02:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	U	0.0496	0.0483	99	97	1	75-125		3	20
Barium,Dissolved	0.0500	U	0.0489	0.0481	98	96	1	75-125		2	20
Chromium,Dissolved	0.0500	U	0.0516	0.0499	103	100	1	75-125		3	20
Iron,Dissolved	5.00	U	5.10	4.95	102	99	1	75-125		3	20
Lead,Dissolved	0.0500	U	0.0492	0.0492	98	98	1	75-125		0	20
Manganese,Dissolved	0.0500	0.000400	0.0508	0.0494	101	98	1	75-125		3	20
Selenium,Dissolved	0.0500	U	0.0478	0.0475	96	95	1	75-125		1	20



Method Blank (MB)

(MB) R3215691-1 05/04/17 15:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	0.00135	J	0.00038	0.00200
Sodium	U		0.11	1.00

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215691-2 05/04/17 15:44 • (LCSD) R3215691-3 05/04/17 15:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0500	0.0490	100	98	80-120			2	20
Barium	0.0500	0.0515	0.0499	103	100	80-120			3	20
Calcium	5.00	5.14	4.98	103	100	80-120			3	20
Chromium	0.0500	0.0498	0.0492	100	98	80-120			1	20
Iron	5.00	5.09	4.97	102	99	80-120			3	20
Lead	0.0500	0.0493	0.0490	99	98	80-120			1	20
Manganese	0.0500	0.0490	0.0479	98	96	80-120			2	20
Potassium	5.00	4.95	4.90	99	98	80-120			1	20
Selenium	0.0500	0.0498	0.0468	100	94	80-120			6	20
Sodium	5.00	5.02	4.95	100	99	80-120			1	20

L905307-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-31 05/04/17 15:52 • (MS) R3215691-5 05/04/17 15:59 • (MSD) R3215691-6 05/04/17 16:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0570	0.106	0.104	99	94	1	75-125			2	20
Barium	0.0500	0.0451	0.0950	0.0946	100	99	1	75-125			1	20
Calcium	5.00	197	199	198	40	21	1	75-125	V	V	0	20
Chromium	0.0500	U	0.0485	0.0473	97	95	1	75-125			2	20
Potassium	5.00	5.20	10.2	10.1	99	98	1	75-125			1	20
Iron	5.00	U	4.94	4.86	99	97	1	75-125			2	20
Lead	0.0500	U	0.0505	0.0504	101	101	1	75-125			0	20



L905307-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-31 05/04/17 15:52 • (MS) R3215691-5 05/04/17 15:59 • (MSD) R3215691-6 05/04/17 16:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Manganese	0.0500	0.00134	0.0499	0.0480	97	93	1	75-125			4	20
Selenium	0.0500	0.00166	0.0454	0.0469	88	90	1	75-125			3	20
Sodium	5.00	48.7	52.3	52.0	71	67	1	75-125	V	V	0	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214521-3 04/27/17 23:24

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.100	
(S) <i>o,o</i> -Trifluorotoluene(FID)	112		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214521-1 04/27/17 22:11 • (LCSD) R3214521-2 04/27/17 22:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.91	5.80	107	105	71.0-136			1.85	20
(S) <i>o,o</i> -Trifluorotoluene(FID)		113		112	112	77.0-122				

L905100-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905100-04 04/28/17 01:00 • (MS) R3214521-4 04/27/17 23:48 • (MSD) R3214521-5 04/28/17 00:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	5.78	5.84	104	105	1	18.0-160		1.07		20
(S) <i>o,o</i> -Trifluorotoluene(FID)					112	112		77.0-122				



Method Blank (MB)

(MB) R3215621-3 04/28/17 14:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.0314	0.100
(S) <i>o,o</i> -Trifluorotoluene(FID)	102		77.0-122	

Method Blank (MB)

(MB) R3215632-3 04/28/17 17:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.0314	0.100
(S) <i>o,o</i> -Trifluorotoluene(FID)	99.0		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215621-1 04/28/17 13:16 • (LCSD) R3215621-2 04/28/17 13:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.34	5.24	97.1	95.2	71.0-136			1.92	20
(S) <i>o,o</i> -Trifluorotoluene(FID)				105	105	77.0-122				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215632-1 04/28/17 16:38 • (LCSD) R3215632-2 04/28/17 17:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.13	5.06	93.3	91.9	71.0-136			1.45	20
(S) <i>o,o</i> -Trifluorotoluene(FID)				99.7	100	77.0-122				

L905300-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-20 04/28/17 14:39 • (MS) R3215621-4 04/28/17 15:00 • (MSD) R3215621-5 04/28/17 15:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.402	5.77	5.81	97.6	98.3	1	18.0-160			0.700	20
(S) <i>o,o</i> -Trifluorotoluene(FID)					105	104		77.0-122				



Method Blank (MB)

(MB) R3215095-3 04/28/17 20:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215O95-3 04/28/17 20:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	100		80.0-120	
(S) Dibromofluoromethane	94.5		76.0-123	
(S) 4-Bromofluorobenzene	99.8		80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215O95-1 04/28/17 19:14 • (LCSD) R3215O95-2 04/28/17 19:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.169	0.170	135	136	10.0-160			0.500	23
Benzene	0.0250	0.0199	0.0208	79.5	83.1	69.0-123			4.36	20
Bromodichloromethane	0.0250	0.0226	0.0243	90.6	97.1	76.0-120			6.92	20
Bromoform	0.0250	0.0194	0.0195	77.7	77.9	67.0-132			0.320	20
Bromomethane	0.0250	0.0165	0.0176	65.9	70.5	18.0-160			6.84	20
n-Butylbenzene	0.0250	0.0198	0.0209	79.0	83.4	72.0-126			5.43	20
sec-Butylbenzene	0.0250	0.0218	0.0217	87.2	87.0	74.0-121			0.250	20
Carbon disulfide	0.0250	0.0237	0.0246	94.7	98.5	55.0-127			3.96	20
Carbon tetrachloride	0.0250	0.0183	0.0176	73.0	70.5	63.0-122			3.45	20
Chlorobenzene	0.0250	0.0258	0.0259	103	104	79.0-121			0.370	20
Chlorodibromomethane	0.0250	0.0233	0.0237	93.1	94.8	75.0-125			1.75	20
Chloroethane	0.0250	0.0205	0.0203	82.2	81.4	47.0-152			0.930	20
Chloroform	0.0250	0.0223	0.0235	89.2	94.0	72.0-121			5.22	20
Chloromethane	0.0250	0.0259	0.0269	104	108	48.0-139			3.63	20
1,2-Dibromoethane	0.0250	0.0244	0.0239	97.6	95.5	77.0-123			2.10	20
1,1-Dichloroethane	0.0250	0.0220	0.0230	88.0	92.1	70.0-126			4.56	20
1,2-Dichloroethane	0.0250	0.0234	0.0246	93.8	98.5	67.0-126			4.93	20
1,1-Dichloroethene	0.0250	0.0244	0.0251	97.7	100	64.0-129			2.82	20
cis-1,2-Dichloroethene	0.0250	0.0225	0.0236	90.1	94.3	73.0-120			4.63	20
trans-1,2-Dichloroethene	0.0250	0.0227	0.0237	90.8	94.9	71.0-121			4.40	20
1,2-Dichloropropane	0.0250	0.0225	0.0237	90.2	94.8	75.0-125			4.96	20
cis-1,3-Dichloropropene	0.0250	0.0238	0.0251	95.1	100	79.0-123			5.39	20
trans-1,3-Dichloropropene	0.0250	0.0232	0.0236	93.0	94.5	74.0-127			1.60	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215095-1 04/28/17 19:14 • (LCSD) R3215095-2 04/28/17 19:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>		<u>LCSD Qualifier</u>		RPD Limits	
							%		%		%	
Ethylbenzene	0.0250	0.0227	0.0223	90.9	89.2	77.0-120					18.9	
2-Hexanone	0.125	0.128	0.122	102	97.7	58.0-147					4.62	
Isopropylbenzene	0.0250	0.0218	0.0216	87.3	86.5	75.0-120					0.910	
p-Isopropyltoluene	0.0250	0.0223	0.0222	89.2	88.8	74.0-126					0.510	
2-Butanone (MEK)	0.125	0.0946	0.0947	75.7	75.8	37.0-158					0.160	
Methylene Chloride	0.0250	0.0213	0.0229	85.2	91.7	66.0-121					7.32	
4-Methyl-2-pentanone (MIBK)	0.125	0.102	0.105	81.8	83.8	59.0-143					2.38	
Methyl tert-butyl ether	0.0250	0.0209	0.0217	83.6	87.0	64.0-123					4.01	
Naphthalene	0.0250	0.0152	0.0165	60.7	66.0	62.0-128	J4				8.29	
n-Propylbenzene	0.0250	0.0211	0.0210	84.4	84.0	79.0-120					0.490	
Styrene	0.0250	0.0227	0.0230	90.8	91.8	78.0-124					1.08	
1,1,1,2-Tetrachloroethane	0.0250	0.0241	0.0242	96.6	96.8	75.0-122					0.180	
1,1,2,2-Tetrachloroethane	0.0250	0.0226	0.0223	90.5	89.2	71.0-122					1.41	
Tetrachloroethene	0.0250	0.0277	0.0263	111	105	70.0-127					5.17	
Toluene	0.0250	0.0216	0.0225	86.2	90.1	77.0-120					4.43	
1,1,1-Trichloroethane	0.0250	0.0234	0.0241	93.7	96.4	68.0-122					2.88	
1,1,2-Trichloroethane	0.0250	0.0256	0.0241	102	96.4	78.0-120					5.97	
Trichloroethene	0.0250	0.0265	0.0273	106	109	78.0-120					2.92	
1,2,4-Trimethylbenzene	0.0250	0.0230	0.0230	92.1	91.9	75.0-120					0.250	
1,3,5-Trimethylbenzene	0.0250	0.0225	0.0230	90.0	91.8	75.0-120					2.00	
Vinyl chloride	0.0250	0.0223	0.0227	89.1	90.8	64.0-133					1.92	
Xylenes, Total	0.0750	0.0666	0.0665	88.8	88.7	77.0-120					0.150	
o-Xylene	0.0250	0.0222	0.0221	88.8	88.5	78.0-120					0.250	
m&p-Xylenes	0.0500	0.0444	0.0444	88.9	88.8	77.0-120					0.0900	
(S) Toluene-d8				100	101	80.0-120						
(S) Dibromofluoromethane				92.8	94.0	76.0-123						
(S) 4-Bromofluorobenzene				104	99.5	80.0-120						



Method Blank (MB)

(MB) R3215657-3 04/29/17 03:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215657-3 04/29/17 03:05

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	102		80.0-120	
(S) Dibromofluoromethane	97.1		76.0-123	
(S) 4-Bromofluorobenzene	96.7		80.0-120	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215657-1 04/29/17 02:15 • (LCSD) R3215657-2 04/29/17 02:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.188	0.167	151	134	10.0-160			11.7	23
Benzene	0.0250	0.0232	0.0205	92.7	82.0	69.0-123			12.3	20
Bromodichloromethane	0.0250	0.0245	0.0246	98.0	98.5	76.0-120			0.550	20
Bromoform	0.0250	0.0248	0.0217	99.0	86.7	67.0-132			13.2	20
Bromomethane	0.0250	0.0142	0.0147	56.9	58.8	18.0-160			3.44	20
n-Butylbenzene	0.0250	0.0210	0.0203	83.8	81.3	72.0-126			3.04	20
sec-Butylbenzene	0.0250	0.0231	0.0220	92.5	88.1	74.0-121			4.95	20
Carbon disulfide	0.0250	0.0255	0.0253	102	101	55.0-127			0.740	20
Carbon tetrachloride	0.0250	0.0225	0.0191	90.0	76.5	63.0-122			16.2	20
Chlorobenzene	0.0250	0.0250	0.0253	100	101	79.0-121			0.970	20
Chlorodibromomethane	0.0250	0.0239	0.0248	95.7	99.0	75.0-125			3.40	20
Chloroethane	0.0250	0.0210	0.0201	84.0	80.4	47.0-152			4.37	20
Chloroform	0.0250	0.0235	0.0237	94.2	95.0	72.0-121			0.820	20
Chloromethane	0.0250	0.0237	0.0246	94.6	98.4	48.0-139			3.85	20
1,2-Dibromoethane	0.0250	0.0247	0.0244	98.8	97.5	77.0-123			1.37	20
1,1-Dichloroethane	0.0250	0.0232	0.0232	92.7	92.8	70.0-126			0.0200	20
1,2-Dichloroethane	0.0250	0.0248	0.0247	99.4	98.7	67.0-126			0.650	20
1,1-Dichloroethene	0.0250	0.0244	0.0249	97.7	99.7	64.0-129			2.03	20
cis-1,2-Dichloroethene	0.0250	0.0238	0.0230	95.2	91.8	73.0-120			3.65	20
trans-1,2-Dichloroethene	0.0250	0.0233	0.0233	93.3	93.2	71.0-121			0.110	20
1,2-Dichloropropane	0.0250	0.0236	0.0235	94.5	93.9	75.0-125			0.640	20
cis-1,3-Dichloropropene	0.0250	0.0233	0.0252	93.4	101	79.0-123			7.61	20
trans-1,3-Dichloropropene	0.0250	0.0245	0.0249	98.1	99.4	74.0-127			1.40	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215657-1 04/29/17 02:15 • (LCSD) R3215657-2 04/29/17 02:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
Ethylbenzene	0.0250	0.0246	0.0219	98.3	87.5	77.0-120			11.7		20	
2-Hexanone	0.125	0.142	0.128	113	103	58.0-147			10.0		20	
Isopropylbenzene	0.0250	0.0249	0.0216	99.7	86.4	75.0-120			14.3		20	
p-Isopropyltoluene	0.0250	0.0231	0.0229	92.4	91.4	74.0-126			1.12		20	
2-Butanone (MEK)	0.125	0.108	0.0984	86.1	78.7	37.0-158			8.94		20	
Methylene Chloride	0.0250	0.0240	0.0238	96.0	95.3	66.0-121			0.750		20	
4-Methyl-2-pentanone (MIBK)	0.125	0.115	0.109	92.3	87.0	59.0-143			5.91		20	
Methyl tert-butyl ether	0.0250	0.0230	0.0219	92.1	87.7	64.0-123			4.89		20	
Naphthalene	0.0250	0.0182	0.0162	72.8	64.6	62.0-128			11.8		20	
n-Propylbenzene	0.0250	0.0237	0.0211	94.6	84.4	79.0-120			11.4		20	
Styrene	0.0250	0.0247	0.0227	99.0	90.9	78.0-124			8.48		20	
1,1,1,2-Tetrachloroethane	0.0250	0.0250	0.0245	100	98.1	75.0-122			1.94		20	
1,1,2,2-Tetrachloroethane	0.0250	0.0236	0.0218	94.6	87.3	71.0-122			8.06		20	
Tetrachloroethene	0.0250	0.0266	0.0263	107	105	70.0-127			1.13		20	
Toluene	0.0250	0.0251	0.0222	100	88.8	77.0-120			12.2		20	
1,1,1-Trichloroethane	0.0250	0.0244	0.0246	97.8	98.2	68.0-122			0.480		20	
1,1,2-Trichloroethane	0.0250	0.0245	0.0240	97.9	96.0	78.0-120			1.99		20	
Trichloroethene	0.0250	0.0271	0.0278	108	111	78.0-120			2.59		20	
1,2,4-Trimethylbenzene	0.0250	0.0241	0.0237	96.3	94.9	75.0-120			1.47		20	
1,3,5-Trimethylbenzene	0.0250	0.0239	0.0233	95.6	93.2	75.0-120			2.51		20	
Vinyl chloride	0.0250	0.0233	0.0233	93.1	93.1	64.0-133			0.000		20	
Xylenes, Total	0.0750	0.0732	0.0651	97.6	86.8	77.0-120			11.7		20	
o-Xylene	0.0250	0.0246	0.0217	98.3	86.9	78.0-120			12.3		20	
m&p-Xylenes	0.0500	0.0486	0.0434	97.2	86.8	77.0-120			11.3		20	
(S) Toluene-d8				102	101	80.0-120						
(S) Dibromofluoromethane				96.2	97.5	76.0-123						
(S) 4-Bromofluorobenzene				103	102	80.0-120						



Method Blank (MB)

(MB) R3214509-1 04/28/17 14:33

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
TPH (GC/FID) High Fraction	U	0.0247	0.100	
(S) o-Terphenyl	85.7		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214509-2 04/28/17 14:50 • (LCSD) R3214509-3 04/28/17 15:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.82	1.70	121	114	50.0-150			6.47	20
(S) o-Terphenyl				97.0	97.2	31.0-160				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3214510-1 04/28/17 15:26

Analyte	MB Result		MB Qualifier		MB MDL		MB RDLCSD Qualifier		LCS Rec.		Rec. Limits		RPD	
	mg/l	U	mg/l	0.0247	mg/l	0.100	mg/l	0.100	%	%	%	%	%	%
TPH (GC/FID) High Fraction														
(S) o-Terphenyl	87.9							31.0-160						

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214510-2 04/28/17 15:43 • (LCSD) R3214510-3 04/28/17 16:00

Analyte	Spike Amount		LCS Result		LCSD Result		LCS Rec.		LCSD Rec.		Rec. Limits		RPD	
	mg/l	1.50	mg/l	1.76	mg/l	1.80	%	117	%	120	50.0-150	%	%	%
TPH (GC/FID) High Fraction														
(S) o-Terphenyl							95.8		96.9		31.0-160		2.54	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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California	01157CA	New York	11742
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Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
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Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

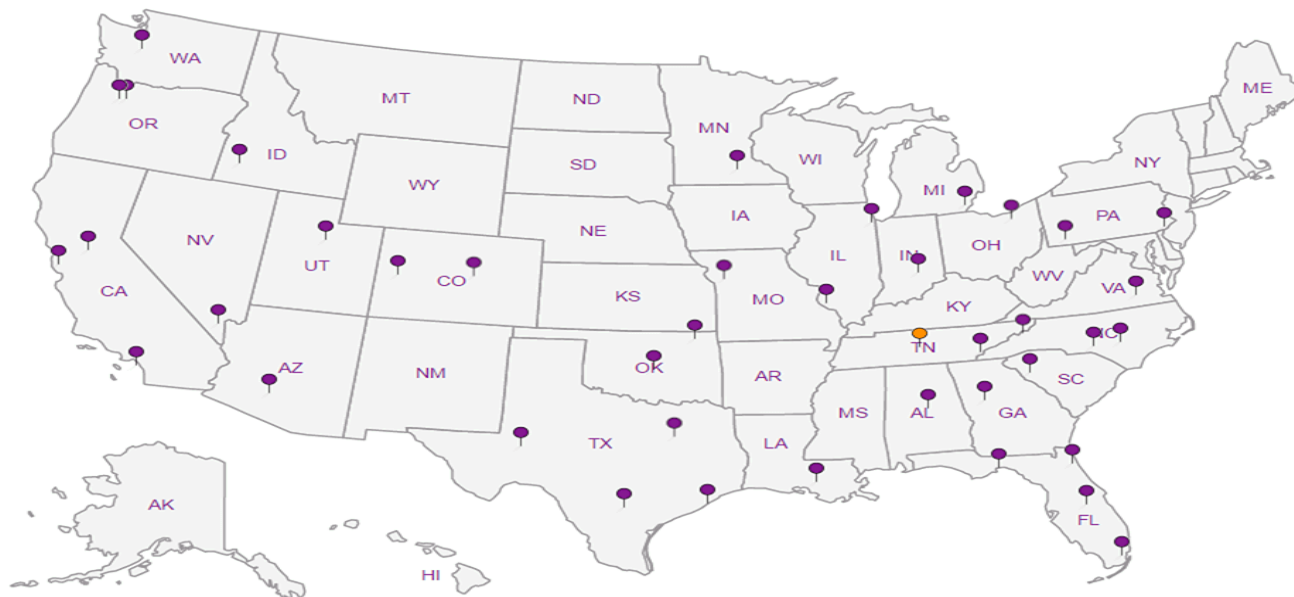
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**





Billing Information:
TRC Solutions - Austin, TX
 505 E. Huntland Dr, Ste 250
 Austin, TX 78752

Accounts Payable
 21 Griffin Road North
 Windsor, CT 06095

Report to: Julie Speer
 Project Description: EP Spring 2017
 Phone: 512-684-3170
 Fax: [blank]
 Email To: jspeer@trcsolutions.com

Client Project #: [blank]
 Site/Facility ID #: EP (Navajo - Artesia)
 Rush? (Lab MUST Be Notified)
 Same Day 200%
 Next Day 100%
 Two Day 50%
 Three Day 25%

Collected by (print): Scott Ude/HMI Team
 Collected by (signature): [Signature]
 Immediately Packed on Ice N ☒ Y ☒

Date Results Needed: 107027
 P.O. #: [blank]

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-79	Grab	GW		4/25/17	1605	10
MW-82	Grab	GW		4/25/17	1450	10
MW-74	Grab	GW		4/25/17	1405	10
MW-73	Grab	GW				
MW-2A	Grab	GW		4/25/17	1255	10
MW-72	Grab	GW		4/25/17	1005	10
OCD-6	Grab	GW		4/25/17	1055	10
OCD-7AR	Grab	GW		4/25/17	1150	10
OCD-7B	Grab	GW				

Analysis / Container / Preservative	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other
 pH _____ Temp _____
 Remarks: Dissolved metals field-filtered. This COC represents shipment 1. 7283 8327 4184 low
 Project is continuing.

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
[Signature]	4/26/17	0800	[Signature]		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
[Signature]			[Signature]		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
[Signature]			[Signature]	4-27-17	900

Hold # 7283 8327 3350
 Condition: (lab use only)
 COC Seal Intact: ☒ Y ☐ N ☐ NA
 pH Checked: 72712
 NCF: [blank]

SCD 2

Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095	
Report to: Julie Speer	Email To: jspeer@trcsolutions.com		
Project Description: EP Spring 2017	City/State Collected: NM		
Phone: 512-684-3170 Fax:	Lab Project #		
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # EP (Navajo - Artesia)	P.O. # 107027	
Collected by (signature): <i>Scott Ude</i>	Rush? (Lab MUST Be Notified) Same Day 200% Next Day 100% Two Day 50% Three Day 25%	Date Results Needed	
Immediately Packed on Ice N ☒ Y ☐	Email? ☒ No ☐ Yes FAX? ☐ No ☐ Yes		
Sample ID	Comp/Grab	Matrix *	Depth
MW-123	Grab	GW	
MW-4A	Grab	GW	
MW-4B	Grab	GW	
MW-5A	Grab	GW	4/25/17 1235
MW-5B	Grab	GW	4/25/17 1330
MW-5C	Grab	GW	4/25/17 1415
MW-7A	Grab	GW	4/25/17 1055
MW-7B	Grab	GW	4/25/17 1150
OCD-8A	Grab	GW	4/25/17 1010
OCD-8B	Grab	GW	4/25/17 925

Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other	
Remarks: Dissolved metals field-filtered.	
Relinquished by: (Signature) <i>Scott Ude</i>	Received by: (Signature)
Relinquished by: (Signature)	Received by: (Signature)
Relinquished by: (Signature)	Received for lab by: (Signature) <i>M...</i>
Date: 4/24/17	Date: 0800
Date:	Date:
Date:	Date:

Analysis / Container / Preservative	Hold #
VOC X DRO X GRO X Short List Metals (Total & Dissolved) X Cations (from "total metals" bottle) X Anions X NO2NO3, TDS X Long List Metals (Total & Dissolved) X Cyanide	Condition: (lab use only) COC Seal Intact: Y N NA pH Checked: NCF

Chain of Custody	Page 2 of 20
ESC L.A.B. S.C.I.E.N.C.E.S. 12005 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-750-5858 Phone: 800-767-5859 Fax: 615-750-5859	L# L905300 Table # Account: TRCATX Template: Prelogin: TSR: Chris McCord Cooler: Shipped Via: Item / Contaminant Sample # (Lab only)

[illegible]

QA/GC 1

Company Name/Address:
TRC Solutions - Austin, TX
 505 E. Huntland Dr, Ste 250
 Austin, TX 78752

Billing Information:
Accounts Payable
 21 Griffin Road North
 Windsor, CT 06095

Report to:
 Julie Speer
 jspeer@trcsolutions.com

Project Description:
 EP Spring 2017

Phone: 512-684-3170
Fax:

City/State Collected: NM

Lab Project #

Site/Facility ID #
 EP (Navajo - Artesia)

Collected by (print):
 Scott Ude

Collected by (signature):
Scott Ude

Immediately Packed on Ice N ☒ Y ☐

Rush? (Lab MUST Be Notified)
 Same Day 200%
 Next Day 100%
 Two Day 50%
 Three Day 25%

Date Results Needed
 107027

Email? No ☒ Yes
FAX? No ☐ Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of	Chrs
DUP-EP-01	Grab	GW		4/25/17	1000	10	
DUP-EP-02	Grab	GW					
DUP-EP-03	Grab	GW					
EB-EP-01	Grab	GW		4/25/17	1505	10	
EB-EP-02	Grab	GW		4/25/17	1640	10	
EB-EP-03	Grab	GW		4/25/17	1250	10	
EB-EP-04	Grab	GW					
Trip-Blank-EP-01	Grab	GW					
Trip-Blank-EP-02	Grab	GW		4/25/17		1	
Trip-Blank-EP-03	Grab	GW					

Analysis / Container / Preservative

Long List Metals (Total & Dissolved)	NO2NO3, TDS	Anions	Cations (from "total metals" bottle)	Short List Metals (Total & Dissolved)	GRO	DRO	VOC	Cyanide
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Item / Container

Sample # (Lab only)

L#	1905300
Table #	
Acctnum:	TRCATX
Template:	
Prelogin:	
TSR:	Chris McCord
Cooler:	
Shipped Via:	
Item / Container	
Sample # (Lab only)	20
	21
	22
	23
	24

*** Matrix:** SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature) *Scott Ude* **Date:** 4/26/17 **Time:** 0800

Relinquished by: (Signature) **Date:** **Time:**

Relinquished by: (Signature) **Date:** **Time:**

Received by: (Signature) **Date:** 4/27/17 **Time:** 900

Received by: (Signature) **Date:** **Time:**

Received for lab by: (Signature) **Date:** **Time:**

Temp: 23.1 °C **Bottles Received:** 231

Condition: (lab use only)

COC Seal Intact: Y N NA

pH Checked: NCF:

ESC LAB SCIENCES Cooler Receipt Form

Client: TRCAX	SDG# 1905300	
Cooler Received/Opened On: 4/ 27 /17	Temperature: 1.5	
Received By: MICHAEL WITHERSPOON		
Signature: <i>[Signature]</i>		
Receipt Check List	Yes	No
COC Seal Present / Intact?		
COC Signed / Accurate?		
Bottles arrive intact?		
Correct bottles used?		
Sufficient volume sent?		
If Applicable		
VOA Zero headspace?		
Preservation Correct / Checked?		

TRC Solutions - Austin, TX

Sample Delivery Group: L905302
Samples Received: 04/27/2017
Project Number: 249545.0000.0000 000
Description: NCL Spring 2017
Site: NCL - NAVAJO-ARTESIA
Report To: Julie Speer
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Entire Report Reviewed By:



Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-45 L905302-01 GW

MW-45 L905302-01 GW

			Collected by	Collected date/time	Received date/time	
				04/25/17 18:20	04/27/17 09:00	1Cp
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF	
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:14	05/01/17 16:14	DR	2Tc
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:24	DR	3Ss
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 15:10	04/28/17 15:10	SAM	4Cn
Wet Chemistry by Method 9056A	WG974575	100	04/28/17 15:57	04/28/17 15:57	SAM	
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:32	TRB	5Sr
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:22	TRB	
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:16	JPD	6Qc
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:25	VSS	
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/30/17 19:49	VSS	7Gl
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 16:44	VSS	
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 21:22	VSS	8Al
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 00:31	04/30/17 00:31	LRL	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	05/02/17 19:43	05/02/17 19:43	LRL	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 05:35	DMG	

MW-54A L905302-02 GW

						Collected by	Collected date/time	Received date/time	
							04/25/17 11:15	04/27/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst				
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF				
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:21	05/01/17 16:21	DR				
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 15:22	04/28/17 15:22	SAM				
Wet Chemistry by Method 9056A	WG974575	20	04/28/17 16:09	04/28/17 16:09	SAM				
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:19	JPD				
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:29	VSS				
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 16:47	VSS				
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 00:47	04/30/17 00:47	LRL				
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 05:52	DMG				

MW-54B L905302-03 GW

						Collected by	Collected date/time	Received date/time	
							04/25/17 10:35	04/27/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst				
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF				
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:22	05/01/17 16:22	DR				
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 15:34	04/28/17 15:34	SAM				
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 16:20	04/28/17 16:20	SAM				
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:22	JPD				
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:32	VSS				
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 17:34	VSS				
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 17:06	04/28/17 17:06	DWR				
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 01:02	04/30/17 01:02	LRL				
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 06:27	DMG				

NCL-49 L905302-04 GW

						Collected by	Collected date/time	Received date/time	
							04/25/17 09:45	04/27/17 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst				
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF				
Wet Chemistry by Method 353.2	WG974945	5	05/01/17 16:23	05/01/17 16:23	DR				
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 15:45	04/28/17 15:45	SAM				

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



NCL-49 L905302-04 GW

			Collected by	Collected date/time	Received date/time
				04/25/17 09:45	04/27/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 16:32	04/28/17 16:32	SAM
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:26	JPD
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:36	VSS
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 17:38	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 01:18	04/30/17 01:18	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 03:34	DMG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-53 L905302-05 GW

			Collected by	Collected date/time	Received date/time
				04/25/17 09:05	04/27/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	5	05/01/17 16:24	05/01/17 16:24	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 17:07	04/28/17 17:07	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 17:54	04/28/17 17:54	SAM
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:29	JPD
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:39	VSS
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 17:41	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 01:33	04/30/17 01:33	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 03:00	DMG

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

DUP-NCL-01 L905302-06 GW

			Collected by	Collected date/time	Received date/time
				04/25/17 09:00	04/27/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	5	05/01/17 16:25	05/01/17 16:25	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 17:19	04/28/17 17:19	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 18:05	04/28/17 18:05	SAM
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:33	JPD
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:43	VSS
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 17:45	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 01:49	04/30/17 01:49	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 03:17	DMG

TRIP BLANK-NCL-01 L905302-07 GW

			Collected by	Collected date/time	Received date/time
				04/25/17 00:00	04/27/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/29/17 22:42	04/29/17 22:42	LRL



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5410		2.82	10.0	1	04/30/2017 12:15	WG974888

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0270	J	0.0197	0.100	1	05/01/2017 16:14	WG974945

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:24	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	545		5.19	100	100	04/28/2017 15:57	WG974575
Fluoride	1.27		0.00990	0.100	1	04/28/2017 15:10	WG974575
Sulfate	2840		7.74	500	100	04/28/2017 15:57	WG974575

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:32	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:22	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00404		0.000250	0.00200	1	05/01/2017 16:44	WG974745
Arsenic,Dissolved	0.00343		0.000250	0.00200	1	04/29/2017 14:16	WG974692
Barium	0.0162		0.000360	0.00500	1	05/01/2017 16:44	WG974745
Barium,Dissolved	0.0174		0.000360	0.00500	1	04/29/2017 14:16	WG974692
Boron	0.514		0.00150	0.0200	1	05/01/2017 16:44	WG974745
Boron,Dissolved	0.549		0.00150	0.0200	1	04/30/2017 19:49	WG974692
Cadmium	U		0.000160	0.00100	1	05/01/2017 16:44	WG974745
Cadmium,Dissolved	U		0.000160	0.00100	1	04/29/2017 14:16	WG974692
Calcium	625		0.0460	1.00	1	05/01/2017 16:44	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 16:44	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:16	WG974692
Cobalt	U		0.000260	0.00200	1	05/01/2017 16:44	WG974745
Cobalt,Dissolved	U		0.000260	0.00200	1	04/29/2017 14:16	WG974692
Iron	1.29		0.0150	0.100	1	05/01/2017 16:44	WG974745
Iron,Dissolved	0.153		0.0150	0.100	1	04/29/2017 14:16	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 16:44	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:25	WG974692
Manganese	0.582		0.000250	0.00500	1	05/01/2017 16:44	WG974745
Manganese,Dissolved	0.572		0.000250	0.00500	1	04/29/2017 14:16	WG974692
Nickel	0.00558		0.000350	0.00200	1	05/01/2017 16:44	WG974745
Nickel,Dissolved	0.00333		0.000350	0.00200	1	04/29/2017 14:16	WG974692
Potassium	5.69		0.0370	1.00	1	05/01/2017 16:44	WG974745
Selenium	U		0.000380	0.00200	1	05/01/2017 16:44	WG974745
Selenium,Dissolved	0.000382	J	0.000380	0.00200	1	04/29/2017 14:16	WG974692
Sodium	394		0.110	1.00	1	05/01/2017 16:44	WG974745



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00109	U	0.000330	0.0100	1	05/01/2017 21:22	WG974745
Uranium,Dissolved	0.00110	U	0.000330	0.0100	1	04/29/2017 17:25	WG974692
Vanadium	0.000466	U	0.000180	0.00500	1	05/01/2017 16:44	WG974745
Vanadium,Dissolved	0.000300	U	0.000180	0.00500	1	04/29/2017 14:16	WG974692

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.0100	0.0500	1	04/30/2017 00:31	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 00:31	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 00:31	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 00:31	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 00:31	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 00:31	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 00:31	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 00:31	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 00:31	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 00:31	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 00:31	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 00:31	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 00:31	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 00:31	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 00:31	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 00:31	WG975213
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 00:31	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 00:31	WG975213
cis-1,2-Dichloroethene	0.00152		0.000260	0.00100	1	04/30/2017 00:31	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 00:31	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 00:31	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 00:31	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 00:31	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 00:31	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 00:31	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 00:31	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 00:31	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 00:31	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 00:31	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 00:31	WG975213
Methyl tert-butyl ether	0.00316		0.000367	0.00100	1	04/30/2017 00:31	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 00:31	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 00:31	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 00:31	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 00:31	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 00:31	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 00:31	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 00:31	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 00:31	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 00:31	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 00:31	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 00:31	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 00:31	WG975213
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 19:43	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 00:31	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 00:31	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 00:31	WG975213
(S) Toluene-d8	104			80.0-120		04/30/2017 00:31	WG975213

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/25/17 18:20

L905302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(S) Toluene-d8	105			80.0-120		05/02/2017 19:43	WG975213
(S) Dibromofluoromethane	101			76.0-123		05/02/2017 19:43	WG975213
(S) Dibromofluoromethane	104			76.0-123		04/30/2017 00:31	WG975213
(S) 4-Bromofluorobenzene	99.1			80.0-120		04/30/2017 00:31	WG975213
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 19:43	WG975213

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/FID) High Fraction	0.857		0.0247	0.100	1	04/29/2017 05:35	WG974616
(S) o-Terphenyl	97.5			31.0-160		04/29/2017 05:35	WG974616

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1800		2.82	10.0	1	04/30/2017 12:15	WG974888

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0860	J	0.0197	0.100	1	05/01/2017 16:21	WG974945

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	193		1.04	20.0	20	04/28/2017 16:09	WG974575
Fluoride	0.987		0.00990	0.100	1	04/28/2017 15:22	WG974575
Sulfate	797		1.55	100	20	04/28/2017 16:09	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00464		0.000250	0.00200	1	05/01/2017 16:47	WG974745
Arsenic,Dissolved	0.00274		0.000250	0.00200	1	04/29/2017 14:19	WG974692
Barium	0.0147		0.000360	0.00500	1	05/01/2017 16:47	WG974745
Barium,Dissolved	0.0164		0.000360	0.00500	1	04/29/2017 14:19	WG974692
Calcium	330		0.0460	1.00	1	05/01/2017 16:47	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 16:47	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:19	WG974692
Iron	0.227		0.0150	0.100	1	05/01/2017 16:47	WG974745
Iron,Dissolved	U		0.0150	0.100	1	04/29/2017 14:19	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 16:47	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:29	WG974692
Manganese	0.456		0.000250	0.00500	1	05/01/2017 16:47	WG974745
Manganese,Dissolved	0.450		0.000250	0.00500	1	04/29/2017 14:19	WG974692
Potassium	0.289	J	0.0370	1.00	1	05/01/2017 16:47	WG974745
Selenium	U		0.000380	0.00200	1	05/01/2017 16:47	WG974745
Selenium,Dissolved	U		0.000380	0.00200	1	04/29/2017 14:19	WG974692
Sodium	59.8		0.110	1.00	1	05/01/2017 16:47	WG974745

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.0100	0.0500	1	04/30/2017 00:47	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 00:47	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 00:47	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 00:47	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 00:47	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 00:47	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 00:47	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 00:47	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 00:47	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 00:47	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 00:47	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 00:47	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 00:47	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 00:47	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 00:47	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 00:47	WG975213



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 00:47	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 00:47	WG975213
cis-1,2-Dichloroethene	0.000888	J	0.000260	0.00100	1	04/30/2017 00:47	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 00:47	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 00:47	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 00:47	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 00:47	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 00:47	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 00:47	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 00:47	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 00:47	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 00:47	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 00:47	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 00:47	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 00:47	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 00:47	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 00:47	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 00:47	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 00:47	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 00:47	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 00:47	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 00:47	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 00:47	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 00:47	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 00:47	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 00:47	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 00:47	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 00:47	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 00:47	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 00:47	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 00:47	WG975213
(S) Toluene-d8	103			80.0-120		04/30/2017 00:47	WG975213
(S) Dibromofluoromethane	106			76.0-123		04/30/2017 00:47	WG975213
(S) 4-Bromofluorobenzene	98.8			80.0-120		04/30/2017 00:47	WG975213

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.55		0.0247	0.100	1	04/29/2017 05:52	WG974616
(S) o-Terphenyl	99.3			31.0-160		04/29/2017 05:52	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1840		2.82	10.0	1	04/30/2017 13:12	WG974889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.100	J	0.0197	0.100	1	05/01/2017 16:22	WG974945

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	127		2.60	50.0	50	04/28/2017 16:20	WG974575
Fluoride	0.617		0.00990	0.100	1	04/28/2017 15:34	WG974575
Sulfate	1040		3.87	250	50	04/28/2017 16:20	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00181	J	0.000250	0.00200	1	05/01/2017 17:34	WG974745
Arsenic,Dissolved	0.00173	J	0.000250	0.00200	1	04/29/2017 14:22	WG974692
Barium	0.0158		0.000360	0.00500	1	05/01/2017 17:34	WG974745
Barium,Dissolved	0.0168		0.000360	0.00500	1	04/29/2017 14:22	WG974692
Calcium	317		0.0460	1.00	1	05/01/2017 17:34	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 17:34	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:22	WG974692
Iron	U		0.0150	0.100	1	05/01/2017 17:34	WG974745
Iron,Dissolved	U		0.0150	0.100	1	04/29/2017 14:22	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 17:34	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:32	WG974692
Manganese	0.253		0.000250	0.00500	1	05/01/2017 17:34	WG974745
Manganese,Dissolved	0.246		0.000250	0.00500	1	04/29/2017 14:22	WG974692
Potassium	1.18		0.0370	1.00	1	05/01/2017 17:34	WG974745
Selenium	0.000720	J	0.000380	0.00200	1	05/01/2017 17:34	WG974745
Selenium,Dissolved	0.000795	J	0.000380	0.00200	1	04/29/2017 14:22	WG974692
Sodium	54.5		0.110	1.00	1	05/01/2017 17:34	WG974745

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 17:06	WG974800
(S) a,a,a-Trifluorotoluene(FID) 103				77.0-122		04/28/2017 17:06	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.0100	0.0500	1	04/30/2017 01:02	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 01:02	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 01:02	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 01:02	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 01:02	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 01:02	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 01:02	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 01:02	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 01:02	WG975213



Collected date/time: 04/25/17 10:35

L905302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 01:02	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 01:02	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 01:02	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 01:02	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 01:02	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 01:02	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 01:02	WG975213
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 01:02	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 01:02	WG975213
cis-1,2-Dichloroethene	0.000616	J	0.000260	0.00100	1	04/30/2017 01:02	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 01:02	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 01:02	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 01:02	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 01:02	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 01:02	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 01:02	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 01:02	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 01:02	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 01:02	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 01:02	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 01:02	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 01:02	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 01:02	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 01:02	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 01:02	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 01:02	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 01:02	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 01:02	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 01:02	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 01:02	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 01:02	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 01:02	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 01:02	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 01:02	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 01:02	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 01:02	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 01:02	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 01:02	WG975213
(S) Toluene-d8	102			80.0-120		04/30/2017 01:02	WG975213
(S) Dibromofluoromethane	106			76.0-123		04/30/2017 01:02	WG975213
(S) 4-Bromofluorobenzene	98.9			80.0-120		04/30/2017 01:02	WG975213

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.881		0.0247	0.100	1	04/29/2017 06:27	WG974616
(S) o-Terphenyl	98.8			31.0-160		04/29/2017 06:27	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3070		2.82	10.0	1	04/30/2017 13:12	WG974889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	9.84		0.0985	0.500	5	05/01/2017 16:23	WG974945

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	172		2.60	50.0	50	04/28/2017 16:32	WG974575
Fluoride	0.576		0.00990	0.100	1	04/28/2017 15:45	WG974575
Sulfate	2010		3.87	250	50	04/28/2017 16:32	WG974575

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00151	J	0.000250	0.00200	1	05/01/2017 17:38	WG974745
Arsenic,Dissolved	0.00143	J	0.000250	0.00200	1	04/29/2017 14:26	WG974692
Barium	0.0118		0.000360	0.00500	1	05/01/2017 17:38	WG974745
Barium,Dissolved	0.0123		0.000360	0.00500	1	04/29/2017 14:26	WG974692
Calcium	451		0.0460	1.00	1	05/01/2017 17:38	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 17:38	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:26	WG974692
Iron	U		0.0150	0.100	1	05/01/2017 17:38	WG974745
Iron,Dissolved	U		0.0150	0.100	1	04/29/2017 14:26	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 17:38	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:36	WG974692
Manganese	0.000320	J	0.000250	0.00500	1	05/01/2017 17:38	WG974745
Manganese,Dissolved	U		0.000250	0.00500	1	04/29/2017 14:26	WG974692
Potassium	0.632	J	0.0370	1.00	1	05/01/2017 17:38	WG974745
Selenium	0.00871		0.000380	0.00200	1	05/01/2017 17:38	WG974745
Selenium,Dissolved	0.00904		0.000380	0.00200	1	04/29/2017 14:26	WG974692
Sodium	133		0.110	1.00	1	05/01/2017 17:38	WG974745

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.0100	0.0500	1	04/30/2017 01:18	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 01:18	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 01:18	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 01:18	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 01:18	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 01:18	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 01:18	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 01:18	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 01:18	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 01:18	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 01:18	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 01:18	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 01:18	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 01:18	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 01:18	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 01:18	WG975213



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 01:18	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 01:18	WG975213
cis-1,2-Dichloroethene	0.000449	J	0.000260	0.00100	1	04/30/2017 01:18	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 01:18	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 01:18	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 01:18	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 01:18	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 01:18	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 01:18	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 01:18	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 01:18	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 01:18	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 01:18	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 01:18	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 01:18	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 01:18	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 01:18	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 01:18	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 01:18	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 01:18	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 01:18	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 01:18	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 01:18	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 01:18	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 01:18	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 01:18	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 01:18	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 01:18	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 01:18	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 01:18	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 01:18	WG975213
(S) Toluene-d8	104			80.0-120		04/30/2017 01:18	WG975213
(S) Dibromofluoromethane	105			76.0-123		04/30/2017 01:18	WG975213
(S) 4-Bromofluorobenzene	98.9			80.0-120		04/30/2017 01:18	WG975213

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0515	J	0.0247	0.100	1	04/29/2017 03:34	WG974616
(S) o-Terphenyl	85.1			31.0-160		04/29/2017 03:34	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2290		2.82	10.0	1	04/30/2017 13:12	WG974889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	15.6		0.0985	0.500	5	05/01/2017 16:24	WG974945

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	222		2.60	50.0	50	04/28/2017 17:54	WG974575
Fluoride	0.904		0.00990	0.100	1	04/28/2017 17:07	WG974575
Sulfate	1330		3.87	250	50	04/28/2017 17:54	WG974575

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00166	J	0.000250	0.00200	1	05/01/2017 17:41	WG974745
Arsenic,Dissolved	0.00162	J	0.000250	0.00200	1	04/29/2017 14:29	WG974692
Barium	0.0201		0.000360	0.00500	1	05/01/2017 17:41	WG974745
Barium,Dissolved	0.0210		0.000360	0.00500	1	04/29/2017 14:29	WG974692
Calcium	340		0.0460	1.00	1	05/01/2017 17:41	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 17:41	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:29	WG974692
Iron	U		0.0150	0.100	1	05/01/2017 17:41	WG974745
Iron,Dissolved	U		0.0150	0.100	1	04/29/2017 14:29	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 17:41	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:39	WG974692
Manganese	1.60		0.000250	0.00500	1	05/01/2017 17:41	WG974745
Manganese,Dissolved	1.50		0.000250	0.00500	1	04/29/2017 14:29	WG974692
Potassium	1.12		0.0370	1.00	1	05/01/2017 17:41	WG974745
Selenium	0.00281		0.000380	0.00200	1	05/01/2017 17:41	WG974745
Selenium,Dissolved	0.00293		0.000380	0.00200	1	04/29/2017 14:29	WG974692
Sodium	130		0.110	1.00	1	05/01/2017 17:41	WG974745

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.0100	0.0500	1	04/30/2017 01:33	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 01:33	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 01:33	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 01:33	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 01:33	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 01:33	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 01:33	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 01:33	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 01:33	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 01:33	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 01:33	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 01:33	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 01:33	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 01:33	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 01:33	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 01:33	WG975213



Collected date/time: 04/25/17 09:05

L905302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 01:33	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 01:33	WG975213
cis-1,2-Dichloroethene	0.000391	J	0.000260	0.00100	1	04/30/2017 01:33	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 01:33	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 01:33	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 01:33	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 01:33	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 01:33	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 01:33	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 01:33	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 01:33	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 01:33	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 01:33	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 01:33	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 01:33	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 01:33	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 01:33	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 01:33	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 01:33	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 01:33	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 01:33	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 01:33	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 01:33	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 01:33	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 01:33	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 01:33	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 01:33	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 01:33	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 01:33	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 01:33	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 01:33	WG975213
(S) Toluene-d8	103			80.0-120		04/30/2017 01:33	WG975213
(S) Dibromofluoromethane	107			76.0-123		04/30/2017 01:33	WG975213
(S) 4-Bromofluorobenzene	98.1			80.0-120		04/30/2017 01:33	WG975213

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.258		0.0247	0.100	1	04/29/2017 03:00	WG974616
(S) o-Terphenyl	94.5			31.0-160		04/29/2017 03:00	WG974616



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2990		2.82	10.0	1	04/30/2017 13:12	WG974889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	9.78		0.0985	0.500	5	05/01/2017 16:25	WG974945

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	159		2.60	50.0	50	04/28/2017 18:05	WG974575
Fluoride	0.575		0.00990	0.100	1	04/28/2017 17:19	WG974575
Sulfate	1970		3.87	250	50	04/28/2017 18:05	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00149	J	0.000250	0.00200	1	05/01/2017 17:45	WG974745
Arsenic,Dissolved	0.00145	J	0.000250	0.00200	1	04/29/2017 14:33	WG974692
Barium	0.0115		0.000360	0.00500	1	05/01/2017 17:45	WG974745
Barium,Dissolved	0.0133		0.000360	0.00500	1	04/29/2017 14:33	WG974692
Calcium	452		0.0460	1.00	1	05/01/2017 17:45	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 17:45	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:33	WG974692
Iron	U		0.0150	0.100	1	05/01/2017 17:45	WG974745
Iron,Dissolved	U		0.0150	0.100	1	04/29/2017 14:33	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 17:45	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:43	WG974692
Manganese	0.000263	J	0.000250	0.00500	1	05/01/2017 17:45	WG974745
Manganese,Dissolved	U		0.000250	0.00500	1	04/29/2017 14:33	WG974692
Potassium	0.633	J	0.0370	1.00	1	05/01/2017 17:45	WG974745
Selenium	0.00924		0.000380	0.00200	1	05/01/2017 17:45	WG974745
Selenium,Dissolved	0.00921		0.000380	0.00200	1	04/29/2017 14:33	WG974692
Sodium	133		0.110	1.00	1	05/01/2017 17:45	WG974745

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.0100	0.0500	1	04/30/2017 01:49	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 01:49	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 01:49	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 01:49	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 01:49	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 01:49	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 01:49	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 01:49	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 01:49	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 01:49	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 01:49	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 01:49	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 01:49	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 01:49	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 01:49	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 01:49	WG975213



Collected date/time: 04/25/17 09:00

L905302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 01:49	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 01:49	WG975213
cis-1,2-Dichloroethene	0.000303	J	0.000260	0.00100	1	04/30/2017 01:49	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 01:49	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 01:49	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 01:49	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 01:49	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 01:49	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 01:49	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 01:49	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 01:49	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 01:49	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 01:49	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 01:49	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 01:49	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 01:49	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 01:49	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 01:49	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 01:49	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 01:49	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 01:49	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 01:49	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 01:49	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 01:49	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 01:49	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 01:49	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 01:49	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 01:49	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 01:49	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 01:49	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 01:49	WG975213
(S) Toluene-d8	105			80.0-120		04/30/2017 01:49	WG975213
(S) Dibromofluoromethane	104			76.0-123		04/30/2017 01:49	WG975213
(S) 4-Bromofluorobenzene	97.4			80.0-120		04/30/2017 01:49	WG975213

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0582	J	0.0247	0.100	1	04/29/2017 03:17	WG974616
(S) o-Terphenyl	88.2			31.0-160		04/29/2017 03:17	WG974616



Collected date/time: 04/25/17 00:00

L905302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.0100	0.0500	1	04/29/2017 22:42	WG975213
Benzene	U		0.000331	0.00100	1	04/29/2017 22:42	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 22:42	WG975213
Bromoform	U		0.000469	0.00100	1	04/29/2017 22:42	WG975213
Bromomethane	U		0.000866	0.00500	1	04/29/2017 22:42	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 22:42	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 22:42	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 22:42	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 22:42	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 22:42	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 22:42	WG975213
Chloroethane	U		0.000453	0.00500	1	04/29/2017 22:42	WG975213
Chloroform	U		0.000324	0.00500	1	04/29/2017 22:42	WG975213
Chloromethane	U		0.000276	0.00250	1	04/29/2017 22:42	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 22:42	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 22:42	WG975213
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 22:42	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 22:42	WG975213
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 22:42	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 22:42	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 22:42	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 22:42	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 22:42	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 22:42	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 22:42	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 22:42	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 22:42	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 22:42	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 22:42	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 22:42	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 22:42	WG975213
Naphthalene	U		0.00100	0.00500	1	04/29/2017 22:42	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 22:42	WG975213
Styrene	U		0.000307	0.00100	1	04/29/2017 22:42	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 22:42	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 22:42	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 22:42	WG975213
Toluene	U		0.000412	0.00100	1	04/29/2017 22:42	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 22:42	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 22:42	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 22:42	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 22:42	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 22:42	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 22:42	WG975213
o-Xylene	U		0.000341	0.00100	1	04/29/2017 22:42	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 22:42	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 22:42	WG975213
(S) Toluene-d8	104			80.0-120		04/29/2017 22:42	WG975213
(S) Dibromofluoromethane	102			76.0-123		04/29/2017 22:42	WG975213
(S) 4-Bromofluorobenzene	97.7			80.0-120		04/29/2017 22:42	WG975213

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215048-1 04/30/17 12:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905302-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905302-02 04/30/17 12:15 • (DUP) R3215048-4 04/30/17 12:15

Analyte	Original Result mg/l	DUP Result mg/l	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1800	1860	1	3.56	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215048-2 04/30/17 12:15 • (LCSD) R3215048-3 04/30/17 12:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8620	8600	98.0	97.7	85.0-115	0.232	0.232	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215055-1 04/30/17 13:12

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905302-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905302-03 04/30/17 13:12 • (DUP) R3215055-4 04/30/17 13:12

Analyte	Original Result mg/l	DUP Result mg/l	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	1840	1880	2.28	1	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215055-2 04/30/17 13:12 • (LCSD) R3215055-3 04/30/17 13:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Dissolved Solids	8800	8650	8600	98.3	97.7	85.0-115	0.580	0.580	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214792-1 05/01/17 15:54					
MB Result		MB Qualifier		MB MDL	MB RDL
mg/l		mg/l		mg/l	mg/l
Analyte					
Nitrate-Nitrite	U		0.0197		0.100

L905300-15 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-15 05/01/17 15:57 • (DUP) R3214792-4 05/01/17 15:58					
Original Result		DUP Result	Dilution	DUP RPD	DUP Qualifier
mg/l		mg/l		%	%
Analyte					
Nitrate-Nitrite	U	0.000	1	0	20

L905300-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-23 05/01/17 16:11 • (DUP) R3214792-6 05/01/17 16:13					
Original Result		DUP Result	Dilution	DUP RPD	DUP Qualifier
mg/l		mg/l		%	%
Analyte					
Nitrate-Nitrite	0.0200	0.000	1	200	P1 20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214792-2 05/01/17 15:55 • (LCSD) R3214792-3 05/01/17 15:56					
Spike Amount		LCS Result	LCSD Result	LCS Rec.	Rec. Limits
mg/l		mg/l	mg/l	%	%
Analyte					
Nitrate-Nitrite	5.00	5.29	5.16	106	90-110
				103	
				3	20

L905300-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-17 05/01/17 16:00 • (MS) R3214792-5 05/01/17 16:01					
Spike Amount		Original Result	MS Result	MS Rec.	MS Qualifier
mg/l		mg/l	mg/l	%	
Analyte					
Nitrate-Nitrite	5.00	U	4.76	95	90-110
				1	

L905302-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905302-01 05/01/17 16:14 • (MS) R3214792-7 05/01/17 16:19 • (MSD) R3214792-8 05/01/17 16:20					
Spike Amount		Original Result	MS Result	MSD Result	MSD Rec.
mg/l		mg/l	mg/l	mg/l	%
Analyte					
Nitrate-Nitrite	5.00	0.0270	4.88	5.00	97
				99	
				1	90-110
				2	20



Method Blank (MB)

(MB) R3214896-1 05/02/17 09:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLCyanide
	U	0.0018	0.00500	

L905300-13 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-13 05/02/17 09:21 • (DUP) R3214896-4 05/02/17 09:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0.000	1	0		20

L905437-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905437-01 05/02/17 09:48 • (DUP) R3214896-7 05/02/17 09:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	0.000	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214896-2 05/02/17 09:17 • (LCSD) R3214896-3 05/02/17 09:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.0936	0.101	94	101	85-115			8	20

L905307-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-18 05/02/17 09:36 • (MS) R3214896-5 05/02/17 09:37 • (MSD) R3214896-6 05/02/17 09:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.195	0.177	195	177	1	75-125	J5	J5	10	20



Method Blank (MB)

(MB) R3214490-2 04/28/17 06:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905300-21 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-21 04/28/17 11:18 • (DUP) R3214490-5 04/28/17 11:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.282	0.415	1	38	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.463	0.167	1	94	J P1	15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214490-3 04/28/17 06:53 • (LCSD) R3214490-4 04/28/17 07:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	39.6	39.6	99	99	80-120			0	15
Fluoride	8.00	8.18	8.13	102	102	80-120			1	15
Sulfate	40.0	38.9	38.7	97	97	80-120			1	15

L905300-22 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-22 04/28/17 14:24 • (MS) R3214490-6 04/28/17 14:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.170	50.8	101	1	80-120	
Fluoride	5.00	U	5.17	103	1	80-120	
Sulfate	50.0	0.518	50.5	100	1	80-120	

L905307-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-01 04/28/17 17:30 • (MS) R3214490-7 04/28/17 18:29 • (MSD) R3214490-8 04/28/17 18:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	0.623	5.58	4.90	99	85	1	80-120			13	15



Method Blank (MB)

(MB) R3214382-1 04/28/17 15:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214382-2 04/28/17 15:02 • (LCSD) R3214382-3 04/28/17 15:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00286	0.00287	95	96	80-120			1	20

L905146-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905146-05 04/28/17 15:12 • (MS) R3214382-4 04/28/17 15:14 • (MSD) R3214382-5 04/28/17 15:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00288	0.00306	96	102	1	75-125		6		20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3214376-1 04/28/17 13:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214376-2 04/28/17 13:06 • (LCSD) R3214376-3 04/28/17 13:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	0.00300	0.00291	100	97	80-120	3	20	

L904651-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904651-05 04/28/17 13:11 • (MS) R3214376-4 04/28/17 13:13 • (MSD) R3214376-5 04/28/17 13:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	U	0.00295	0.00290	98	97	1	75-125	2	20	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3214511-1 04/29/17 11:48

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	0.000641	J	0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Vanadium,Dissolved	U		0.00018	0.00500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3214547-1 04/29/17 15:57

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Lead,Dissolved	U		0.00024	0.00200
Uranium,Dissolved	U		0.00033	0.0100

Method Blank (MB)

(MB) R3214555-3 04/30/17 19:25

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0015	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214511-2 04/29/17 11:52 • (LCSD) R3214511-3 04/29/17 11:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0470	0.0466	94	93	80-120			1	20
Barium,Dissolved	0.0500	0.0484	0.0466	97	93	80-120			4	20
Cadmium,Dissolved	0.0500	0.0523	0.0523	105	105	80-120			0	20
Chromium,Dissolved	0.0500	0.0476	0.0462	95	92	80-120			3	20
Cobalt,Dissolved	0.0500	0.0503	0.0510	101	102	80-120			1	20
Iron,Dissolved	5.00	4.73	4.74	95	95	80-120			0	20
Manganese,Dissolved	0.0500	0.0461	0.0456	92	91	80-120			1	20
Nickel,Dissolved	0.0500	0.0506	0.0504	101	101	80-120			0	20

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545,0000,0000 0000

SDG:

L905302

DATE/TIME:

05/04/17 17:23

PAGE:

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214511-2 04/29/17 11:52 • (LCSD) R3214511-3 04/29/17 11:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Selenium,Dissolved	0.0500	0.0469	0.0467	94	93	80-120			0	20
Vanadium,Dissolved	0.0500	0.0462	0.0466	92	93	80-120			1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214547-2 04/29/17 16:00 • (LCSD) R3214547-3 04/29/17 16:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Lead,Dissolved	0.0500	0.0490	0.0486	98	97	80-120			1	20
Uranium,Dissolved	0.0500	0.0482	0.0479	96	96	80-120			1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214555-7 04/30/17 20:06 • (LCSD) R3214555-8 04/30/17 20:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Boron,Dissolved	0.0500	0.0466	0.0455	93	91	80-120			2	20

L904651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904651-01 04/29/17 11:59 • (MS) R3214511-5 04/29/17 12:06 • (MSD) R3214511-6 04/29/17 12:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.000856	0.0486	0.0466	95	92	1	75-125			4	20
Barium,Dissolved	0.0500	0.00374	0.0501	0.0504	93	93	1	75-125			0	20
Cadmium,Dissolved	0.0500	U	0.0530	0.0515	106	103	1	75-125			3	20
Chromium,Dissolved	0.0500	U	0.0470	0.0441	94	88	1	75-125			6	20
Cobalt,Dissolved	0.0500	0.000646	0.0501	0.0484	99	96	1	75-125			3	20
Iron,Dissolved	5.00	2.58	7.19	7.01	92	89	1	75-125			2	20
Manganese,Dissolved	0.0500	0.695	0.742	0.731	95	72	1	75-125	<u>V</u>		2	20
Nickel,Dissolved	0.0500	0.00262	0.0517	0.0501	98	95	1	75-125			3	20
Selenium,Dissolved	0.0500	U	0.0479	0.0470	96	94	1	75-125			2	20
Vanadium,Dissolved	0.0500	0.00217	0.0493	0.0466	94	89	1	75-125			6	20



L904651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904651-01 04/29/17 16:08 • (MS) R3214547-5 04/29/17 16:15 • (MSD) R3214547-6 04/29/17 16:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Lead,Dissolved	0.0500	U	0.0493	0.0482	99	96	1	75-125			2	20
Uranium,Dissolved	0.0500	0.000460	0.0499	0.0488	99	97	1	75-125			2	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214797-1 05/01/17 16:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Vanadium	U		0.00018	0.00500

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3214813-1 05/01/17 20:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Uranium	U		0.00033	0.0100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214797-2 05/01/17 16:18 • (LCSD) R3214797-3 05/01/17 16:22

Analyte	Spike Amount mg/l	LCS Result		LCSD Result		LCS Rec.		LCSD Rec.		Rec. Limits		LCS Qualifier		LCSD Qualifier		RPD		RPD Limits	
		mg/l	%	mg/l	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Arsenic	0.0500	0.0484	0.0489	0.0489	97	98	80-120	98	80-120	1	20	80-120	1	20	80-120	1	20	80-120	1
Barium	0.0500	0.0428	0.0438	0.0438	86	88	80-120	88	80-120	2	20	80-120	2	20	80-120	2	20	80-120	2
Boron	0.0500	0.0423	0.0421	0.0421	85	84	80-120	84	80-120	0	20	80-120	0	20	80-120	0	20	80-120	0
Cadmium	0.0500	0.0529	0.0542	0.0542	106	108	80-120	108	80-120	3	20	80-120	3	20	80-120	3	20	80-120	3
Calcium	5.00	4.64	4.74	4.74	93	95	80-120	95	80-120	2	20	80-120	2	20	80-120	2	20	80-120	2
Chromium	0.0500	0.0517	0.0519	0.0519	103	104	80-120	104	80-120	0	20	80-120	0	20	80-120	0	20	80-120	0
Cobalt	0.0500	0.0536	0.0542	0.0542	107	108	80-120	108	80-120	1	20	80-120	1	20	80-120	1	20	80-120	1
Iron	5.00	5.13	5.08	5.08	103	102	80-120	102	80-120	1	20	80-120	1	20	80-120	1	20	80-120	1
Lead	0.0500	0.0488	0.0488	0.0488	98	98	80-120	98	80-120	0	20	80-120	0	20	80-120	0	20	80-120	0
Manganese	0.0500	0.0479	0.0478	0.0478	96	96	80-120	96	80-120	0	20	80-120	0	20	80-120	0	20	80-120	0
Nickel	0.0500	0.0534	0.0542	0.0542	107	108	80-120	108	80-120	1	20	80-120	1	20	80-120	1	20	80-120	1



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214797-2 05/01/17 16:18 • (LCSD) R3214797-3 05/01/17 16:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Potassium	5.00	4.71	4.69	94	94	80-120			0	20
Selenium	0.0500	0.0471	0.0471	94	94	80-120			0	20
Sodium	5.00	5.17	5.19	103	104	80-120			0	20
Vanadium	0.0500	0.0499	0.0504	100	101	80-120			1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214813-2 05/01/17 21:00 • (LCSD) R3214813-3 05/01/17 21:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Uranium	0.0500	0.0476	0.0484	95	97	80-120			2	20

L904598-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904598-01 05/01/17 16:26 • (MS) R3214797-5 05/01/17 16:33 • (MSD) R3214797-6 05/01/17 16:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	ND	0.0484	0.0479	97	96	1	75-125			1	20
Barium	0.0500	0.0101	0.0525	0.0518	85	83	1	75-125			1	20
Boron	0.0500	0.0256	0.0684	0.0678	86	84	1	75-125			1	20
Cadmium	0.0500	ND	0.0519	0.0538	104	108	1	75-125			4	20
Calcium	5.00	2.49	7.09	7.02	92	91	1	75-125			1	20
Chromium	0.0500	0.0183	0.0693	0.0688	102	101	1	75-125			1	20
Cobalt	0.0500	ND	0.0537	0.0538	107	108	1	75-125			0	20
Potassium	5.00	ND	5.12	5.07	92	91	1	75-125			1	20
Iron	5.00	ND	5.13	5.10	103	102	1	75-125			1	20
Lead	0.0500	ND	0.0501	0.0503	96	97	1	75-125			0	20
Manganese	0.0500	ND	0.0481	0.0496	95	98	1	75-125			3	20
Nickel	0.0500	ND	0.0538	0.0540	107	107	1	75-125			0	20
Selenium	0.0500	ND	0.0476	0.0457	95	91	1	75-125			4	20
Sodium	5.00	6.69	11.7	11.6	100	98	1	75-125			1	20
Vanadium	0.0500	ND	0.0506	0.0501	101	100	1	75-125			1	20



Method Blank (MB)

(MB) R3215621-3 04/28/17 14:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.0314	0.100
(S) <i>o,o</i> -Trifluorotoluene(FID) 102			77.0-122	

Method Blank (MB)

(MB) R3215632-3 04/28/17 17:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.0314	0.100
(S) <i>o,o</i> -Trifluorotoluene(FID) 99.0			77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215621-1 04/28/17 13:16 • (LCSD) R3215621-2 04/28/17 13:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.34	5.24	97.1	95.2	71.0-136			1.92	20
(S) <i>o,o</i> -Trifluorotoluene(FID)				105	105	77.0-122				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215632-1 04/28/17 16:38 • (LCSD) R3215632-2 04/28/17 17:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.13	5.06	93.3	91.9	71.0-136			1.45	20
(S) <i>o,o</i> -Trifluorotoluene(FID)				99.7	100	77.0-122				

L905300-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-20 04/28/17 14:39 • (MS) R3215621-4 04/28/17 15:00 • (MSD) R3215621-5 04/28/17 15:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.402	5.77	5.81	97.6	98.3	1	18.0-160			0.700	20
(S) <i>o,o</i> -Trifluorotoluene(FID)					105	104		77.0-122				



Method Blank (MB)

(MB) R3214910-4 04/29/17 21:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3214910-4 04/29/17 21:41

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	104		80.0-120	
(S) Dibromofluoromethane	100		76.0-123	
(S) 4-Bromofluorobenzene	98.4		80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214910-1 04/29/17 20:39 • (LCSD) R3214910-3 04/29/17 21:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.191	0.201	153	161	10.0-160		J4	5.15	23
Benzene	0.0250	0.0213	0.0214	85.1	85.6	69.0-123			0.590	20
Bromodichloromethane	0.0250	0.0217	0.0218	86.8	87.2	76.0-120			0.560	20
Bromoform	0.0250	0.0239	0.0240	95.6	96.2	67.0-132			0.580	20
Bromomethane	0.0250	0.0233	0.0237	93.2	94.9	18.0-160			1.80	20
n-Butylbenzene	0.0250	0.0192	0.0194	76.8	77.6	72.0-126			0.940	20
sec-Butylbenzene	0.0250	0.0208	0.0211	83.2	84.5	74.0-121			1.57	20
Carbon disulfide	0.0250	0.0194	0.0194	77.6	77.8	55.0-127			0.200	20
Carbon tetrachloride	0.0250	0.0256	0.0239	102	95.6	63.0-122			6.75	20
Chlorobenzene	0.0250	0.0211	0.0211	84.3	84.5	79.0-121			0.320	20
Chlorodibromomethane	0.0250	0.0222	0.0222	89.0	88.8	75.0-125			0.160	20
Chloroethane	0.0250	0.0217	0.0235	86.7	94.0	47.0-152			8.12	20
Chloroform	0.0250	0.0209	0.0210	83.7	83.9	72.0-121			0.270	20
Chloromethane	0.0250	0.0239	0.0246	95.7	98.3	48.0-139			2.68	20
1,2-Dibromoethane	0.0250	0.0220	0.0218	87.9	87.1	77.0-123			0.870	20
1,1-Dichloroethane	0.0250	0.0207	0.0208	82.8	83.1	70.0-126			0.330	20
1,2-Dichloroethane	0.0250	0.0209	0.0208	83.6	83.1	67.0-126			0.700	20
1,1-Dichloroethene	0.0250	0.0202	0.0204	80.8	81.6	64.0-129			0.910	20
cis-1,2-Dichloroethene	0.0250	0.0206	0.0205	82.5	82.2	73.0-120			0.360	20
trans-1,2-Dichloroethene	0.0250	0.0199	0.0202	79.5	81.0	71.0-121			1.76	20
1,2-Dichloropropane	0.0250	0.0223	0.0222	89.1	88.7	75.0-125			0.460	20
cis-1,3-Dichloropropene	0.0250	0.0219	0.0221	87.8	88.5	79.0-123			0.900	20
trans-1,3-Dichloropropene	0.0250	0.0224	0.0223	89.6	89.4	74.0-127			0.220	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214910-1 04/29/17 20:39 • (LCSD) R3214910-3 04/29/17 21:10

Analyte	Spike Amount		LCS Result		LCSD Result		LCS Rec.		LCSD Rec.		Rec. Limits		LCS Qualifier		LCSD Qualifier		RPD		RPD Limits	
	mg/l		mg/l		mg/l		%		%		%					%		%		
Ethylbenzene	0.0250		0.0218		0.0219		87.2		87.7		77.0-120				77.0-120		0.520		20	
2-Hexanone	0.125		0.152		0.154		122		123		58.0-147						1.12		20	
Isopropylbenzene	0.0250		0.0210		0.0212		84.1		84.7		75.0-120						0.690		20	
p-Isopropyltoluene	0.0250		0.0210		0.0214		84.2		85.7		74.0-126						1.80		20	
2-Butanone (MEK)	0.125		0.155		0.158		124		126		37.0-158						1.95		20	
Methylene Chloride	0.0250		0.0205		0.0205		81.9		82.1		66.0-121						0.240		20	
4-Methyl-2-pentanone (MIBK)	0.125		0.132		0.133		105		106		59.0-143						0.860		20	
Methyl tert-butyl ether	0.0250		0.0223		0.0226		89.3		90.6		64.0-123						1.48		20	
Naphthalene	0.0250		0.0173		0.0179		69.0		71.5		62.0-128						3.46		20	
n-Propylbenzene	0.0250		0.0209		0.0211		83.8		84.5		79.0-120						0.840		20	
Styrene	0.0250		0.0221		0.0221		88.2		88.2		78.0-124						0.0100		20	
1,1,1,2-Tetrachloroethane	0.0250		0.0215		0.0214		86.0		85.7		75.0-122						0.360		20	
1,1,2,2-Tetrachloroethane	0.0250		0.0211		0.0215		84.3		86.0		71.0-122						1.98		20	
Tetrachloroethene	0.0250		0.0221		0.0224		88.6		89.4		70.0-127						0.950		20	
Toluene	0.0250		0.0220		0.0220		87.9		88.0		77.0-120						0.160		20	
1,1,1-Trichloroethane	0.0250		0.0205		0.0204		81.8		81.8		68.0-122						0.0400		20	
1,1,2-Trichloroethane	0.0250		0.0226		0.0226		90.6		90.4		78.0-120						0.190		20	
Trichloroethene	0.0250		0.0215		0.0219		86.2		87.5		78.0-120						1.54		20	
1,2,4-Trimethylbenzene	0.0250		0.0206		0.0208		82.5		83.4		75.0-120						0.990		20	
1,3,5-Trimethylbenzene	0.0250		0.0207		0.0210		82.8		83.8		75.0-120						1.25		20	
Vinyl chloride	0.0250		0.0239		0.0242		95.7		96.6		64.0-133						0.960		20	
Xylenes, Total	0.0750		0.0654		0.0658		87.2		87.7		77.0-120						0.610		20	
o-Xylene	0.0250		0.0215		0.0217		86.1		86.8		78.0-120						0.770		20	
m&p-Xylenes	0.0500		0.0439		0.0441		87.8		88.2		77.0-120						0.420		20	
(S) Toluene-d8					104		104		104		80.0-120									
(S) Dibromofluoromethane					99.6		99.6		100		76.0-123									
(S) 4-Bromofluorobenzene					99.2		99.2		99.8		80.0-120									

L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
											%	
Acetone	0.125	19.3	0.824	0.828	659	663	1	10.0-139	V	V	0.510	25
Benzene	0.0250	0.0153	0.0203	0.0203	81.3	81.0	1	34.0-147			0.290	20
Bromodichloromethane	0.0250	U	0.0225	0.0225	90.2	90.0	1	52.0-135			0.240	20
Bromoform	0.0250	U	0.0204	0.0209	81.8	83.7	1	50.0-146			2.33	20
Bromomethane	0.0250	U	0.0230	0.0228	91.9	91.2	1	10.0-160			0.760	23
n-Butylbenzene	0.0250	U	0.0194	0.0203	77.6	81.1	1	50.0-144			4.40	20



L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD Limits	
											RPD %	RPD %
sec-Butylbenzene	0.0250	U	0.0213	0.0213	85.3	85.0	1	48.0-143			0.320	20
Carbon disulfide	0.0250	U	0.0208	0.0207	83.3	83.0	1	10.0-147			0.350	20
Carbon tetrachloride	0.0250	U	0.0202	0.0203	80.9	81.3	1	41.0-138			0.370	20
Chlorobenzene	0.0250	U	0.0213	0.0216	85.3	86.3	1	52.0-141			1.27	20
Chlorodibromomethane	0.0250	U	0.0223	0.0228	89.2	91.1	1	54.0-142			2.13	20
Chloroethane	0.0250	0.187	0.0304	0.0294	122	118	1	23.0-160			3.20	20
Chloroform	0.0250	U	0.0214	0.0215	85.7	86.0	1	50.0-139			0.370	20
Chloromethane	0.0250	U	0.0233	0.0232	93.3	92.7	1	14.0-151			0.690	20
1,2-Dibromoethane	0.0250	U	0.0219	0.0221	87.6	88.5	1	54.0-140			1.02	20
1,1-Dichloroethane	0.0250	U	0.755	0.753	3020	3010	1	47.0-143	EV	EV	0.290	20
1,2-Dichloroethane	0.0250	0.356	0.0352	0.0348	141	139	1	47.0-141			1.00	20
1,1-Dichloroethene	0.0250	0.519	0.0421	0.0420	169	168	1	31.0-148	V	V	0.240	20
cis-1,2-Dichloroethene	0.0250	U	ND	ND	0.000	0.000	1	43.0-142	J6	J6	0.000	20
trans-1,2-Dichloroethene	0.0250	1.27	0.0679	0.0682	272	273	1	36.0-141	V	V	0.400	20
1,2-Dichloropropane	0.0250	U	0.0229	0.0229	91.5	91.7	1	51.0-141			0.260	20
cis-1,3-Dichloropropene	0.0250	U	0.0247	0.0249	98.7	99.4	1	53.0-139			0.720	20
trans-1,3-Dichloropropene	0.0250	U	0.0236	0.0239	94.3	95.7	1	51.0-143			1.47	20
Ethylbenzene	0.0250	0.0632	0.0222	0.0223	88.7	89.1	1	42.0-147			0.430	20
2-Hexanone	0.125	U	0.126	0.128	101	103	1	36.0-145			1.59	23
Isopropylbenzene	0.0250	U	0.0190	0.0191	75.9	76.3	1	48.0-141			0.600	20
p-Isopropyltoluene	0.0250	U	0.0220	0.0222	88.2	88.8	1	49.0-146			0.670	20
2-Butanone (MEK)	0.125	U	1.56	1.55	1250	1240	1	12.0-149	EV	EV	0.610	24
Methylene Chloride	0.0250	U	0.217	0.217	869	867	1	42.0-135	EV	EV	0.220	20
4-Methyl-2-pentanone (MIBK)	0.125	4.11	0.303	0.303	242	243	1	44.0-160	V	V	0.150	22
Methyl tert-butyl ether	0.0250	U	0.0232	0.0228	92.9	91.4	1	42.0-142			1.68	20
Naphthalene	0.0250	U	0.0160	0.0178	64.1	71.1	1	42.0-146			10.4	24
n-Propylbenzene	0.0250	U	0.0195	0.0196	77.8	78.2	1	47.0-144			0.500	20
Styrene	0.0250	U	0.0207	0.0208	82.9	83.3	1	47.0-147			0.510	20
1,1,1,2-Tetrachloroethane	0.0250	U	0.0214	0.0215	85.6	86.2	1	52.0-140			0.710	20
1,1,2,2-Tetrachloroethane	0.0250	U	0.0226	0.0227	90.4	91.0	1	46.0-149			0.660	20
Tetrachloroethene	0.0250	U	0.0224	0.0224	89.6	89.6	1	38.0-147			0.0100	20
Toluene	0.0250	0.716	0.0466	0.0471	186	188	1	42.0-141	V	V	1.12	20
1,1,1-Trichloroethane	0.0250	U	0.368	0.368	1470	1470	1	46.0-140	EV	EV	0.0300	20
1,1,2-Trichloroethane	0.0250	0.101	0.0266	0.0264	106	106	1	54.0-139			0.740	20
Trichloroethene	0.0250	U	0.0217	0.0217	86.7	86.9	1	32.0-156			0.170	20
1,2,4-Trimethylbenzene	0.0250	U	0.0212	0.0213	84.8	85.1	1	41.0-146			0.350	20
1,3,5-Trimethylbenzene	0.0250	U	0.0206	0.0209	82.4	83.7	1	44.0-143			1.61	20
Vinyl chloride	0.0250	U	1.48	1.50	5930	6010	1	24.0-153	EV	EV	1.34	20
Xylenes, Total	0.0750	0.237	0.0686	0.0691	91.5	92.1	1	41.0-148			0.730	20
o-Xylene	0.0250	0.0510	0.0216	0.0216	86.3	86.3	1	44.0-146			0.0100	20



L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
m&p-Xylenes	0.0500	0.186	0.0470	0.0475	93.9	95.0	1	41.0-147		1.11		20
(S) Toluene-d8					105	106		80.0-120				
(S) Dibromofluoromethane					101	100		76.0-123				
(S) 4-Bromofluorobenzene					97.6	98.5		80.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214510-1 04/28/17 15:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLCSD Qualifier	RPD	RPD Limits
TPH (GC/FID) High Fraction	U	0.0247	0.100			
(S) o-Terphenyl	87.9		31.0-160			

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214510-2 04/28/17 15:43 • (LCSD) R3214510-3 04/28/17 16:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.76	1.80	117	120	50.0-150			2.54	20
(S) o-Terphenyl				95.8	96.9	31.0-160				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

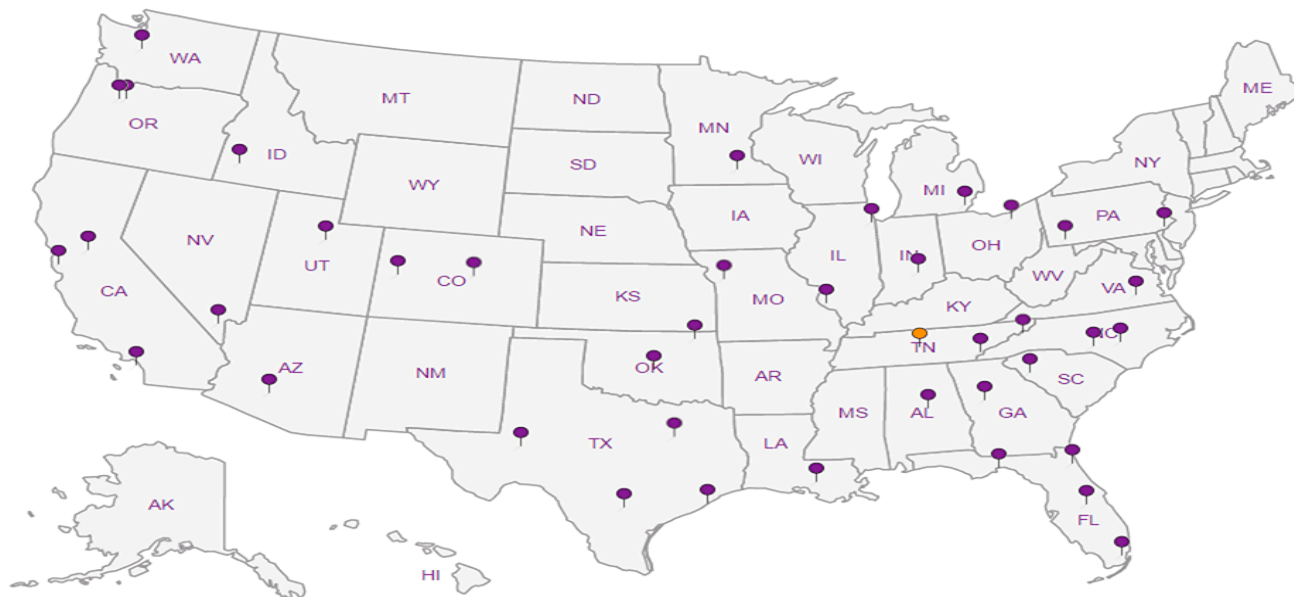
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



[illegible][illegible]

* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other		pH _____ Temp _____	
Flow _____ Other _____		Hold # _____	
Samples returned via: ☐ UPS		Condition: (lab use only) OK	
☒ FedEx ☐ Courier ☐		COC Seal Intact: Y N NA	
Temp: _____ °C Bottles Received: _____		pH Checked: 22.70	
Date: _____		Time: _____	
Received by: (Signature) _____		Date: 4-27-17 Time: 900	
Received by: (Signature) _____		Date: _____	
Received by: (Signature) _____		Date: _____	
Received by: (Signature) _____		Date: _____	

Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095	
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com		
Project Description: NCL Spring 2017	City/State Collected: NM		
Phone: 512-684-3170 Fax:	Lab Project #		
Collected by (print): Scott Ude/HMI Team	P.O. # 107027		
Collected by (signature): <i>Scott Ude</i>	Date Results Needed		
Immediately Packed on Ice N ___ Y ☒	Email? ___ No ☒ Yes FAX? ___ No ___ Yes	No. of Cntrs	
Sample ID	Comp/Grab	Matrix *	Depth
NCL-34A	Grab	GW	
NCL-33	Grab	GW	
NCL-44	Grab	GW	
NCL-32	Grab	GW	
MW-108	Grab	GW	
NCL-31	Grab	GW	
MW-55	Grab	GW	
MW-18	Grab	GW	
MW-54A	Grab	GW	4/25/17 1115 8
MW-54B	Grab	GW	4/25/17 1035 10

* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other	Remarks: Dissolved metals field-filtered.		
Relinquished by : (Signature) <i>Soot ude</i>	Date: <i>4/26/17</i>	Time: <i>0800</i>	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) <i>Mont</i>

Analysis / Container / Preservative		Chain of Custody		Page 7 of 2	
VOC		X	X	X	X
DRO		X	X	X	X
GRO		X	X	X	X
Short List Metals (Total & Dissolved)		X	X	X	X
Cations (from "total metals" bottle)		X	X	X	X
Anions		X	X	X	X
NO ₂ /NO ₃ , TDS		X	X	X	X
Long List Metals (Total & Dissolved)		X	X	X	X
Cyanide		X	X	X	X
L# 1905302 Table # Accnum: TRCATX Template: Prelogin: TSR: Chris McCord Cooler: Shipped Via: Burn / Contaminant Sample # (Lab Only)					

pH _____ Temp _____ Flow _____ Other _____	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____	Condition: (lab use only) Hold # _____
	Temp: 15 °C Bottles Received: 52 Date: 4-27-17 Time: 900	
COC Seal Intact: ☒ Y ☐ N _____ ph Checked: NCF: _____		OK C270

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Signature) Scott Uche

Relinquished by : (Signature)

Relinquished by : (Signature)

Time: 0800

Time:

Time:

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Samples returned via: ☐ UPS

Temp: °C Bottles Received:

Date: 11/17/17 Time: 1:15

Condition: (lab use only)

PH Checked: _____ NCF: _____

use only)

10

1000

9

[illegible]

Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095		Chain of Custody Page 1 of 2 ESC L.A.B. SOLUTIONS 12005 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Report to: Julie Speer		Email To: jspeer@trcsolutions.com		YOUR LAB OF CHOICE 	
Project: NCL Spring 2017		City/State: NM		L# L905302	
Description:		Lab Project #		Table #	
Phone: 512-684-3170 Fax:		P.O. # 107027		Accnum: TRCATX	
Collected by (print): Scott Ude		Site/Facility ID # NCL (Navajo - Artesia)		Template:	
Collected by (signature): 		Rush? (Lab MUST be Notified) Same Day 200% Next Day 100% Two Day 50% Three Day 25%		Prelogin: Chris McCord	
Immediately Packed on ice N ☒ Y		Email? No ☒ Yes FAX? No ☐ Yes		Cooler:	
Sample ID		Date		Shipped Via:	
Comp/Grab		Time		Item / Contaminant	
Matrix *		Depth		Sample # (Lab only)	
DUP-NCL-01	Grab	GW	4/25/17 900	VOC	X
EB-NCL-01	Grab	GW		DRO	X
Trip Blank-NCL-01	Grab	GW		GRO	X
	Grab	GW		Short List Metals (Total & Dissolved)	X
	Grab	GW		Cations (from "total metals" bottle)	X
	Grab	GW		Anions	X
	Grab	GW		NO2NO3, TDS	X
	Grab	GW		Long List Metals (Total & Dissolved)	X
	Grab	GW		Cyanide	X

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature) 	Date: 4/26/17	Time: 0800	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐

Temp: 1.5 °C Bottles Received: 52

Date: 4-27-17 Time: 900

COC Seal Intact: ☒ Y ☐ N ☐ NA

pH Checked: _____ NCF: _____

Hold # _____ Condition: _____ (lab use only)

OK

ESC LAB SCIENCES Cooler Receipt Form

Client: <i>YRCA</i>	SDG#	<i>1905302</i>	
Cooler Received/Opened On: <i>4/ 27 /17</i>	Temperature:	<i>1.5</i>	
Received By: MICHAEL WITHERSPOON			
Signature: <i>M. WITHERSPOON</i>			
Receipt Check List			
	NP	Yes	No
COC Seal Present / Intact?		<i>/</i>	
COC Signed / Accurate?		<i>/</i>	
Bottles arrive intact?		<i>/</i>	
Correct bottles used?		<i>/</i>	
Sufficient volume sent?		<i>/</i>	
If Applicable			
VOA Zero headspace?		<i>/</i>	
Preservation Correct / Checked?		<i>/</i>	

TRC Solutions - Austin, TX

Sample Delivery Group: L905307
Samples Received: 04/27/2017
Project Number: 249545.0000.0000 000
Description: REST Spring 2017
Site: REST - NAVAJO-ARTESIA
Report To: Julie Speer
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Entire Report Reviewed By:



Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



KWB-8 L905307-01 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 17:35

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:26	05/01/17 16:26	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:25	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 17:30	04/28/17 17:30	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 18:17	04/28/17 18:17	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:41	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:24	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:09	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:33	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:24	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	100	05/04/17 23:10	05/04/17 23:10	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 12:11	TRF

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

KWB-7 L905307-02 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 18:20

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:31	05/01/17 16:31	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:28	DR
Wet Chemistry by Method 9056A	WG975157	1	04/30/17 23:17	04/30/17 23:17	KCF
Wet Chemistry by Method 9056A	WG975157	20	04/30/17 23:54	04/30/17 23:54	KCF
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:44	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:26	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:12	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:36	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:28	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 19:58	05/04/17 19:58	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 12:27	TRF

KWB-11A L905307-03 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 19:10

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	20	05/01/17 16:33	05/01/17 16:33	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:29	DR
Wet Chemistry by Method 9056A	WG975157	1	04/30/17 23:29	04/30/17 23:29	KCF
Wet Chemistry by Method 9056A	WG975157	50	05/01/17 00:05	05/01/17 00:05	KCF
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:46	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:28	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:16	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:40	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:31	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 17:27	04/28/17 17:27	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 20:13	05/04/17 20:13	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 12:44	TRF

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545.0000.0000 000

SDG:

L905307

DATE/TIME:

05/10/17 18:57

PAGE:

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



KWB-11B L905307-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 20:00

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:34	05/01/17 16:34	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:30	DR
Wet Chemistry by Method 9056A	WG975157	1	04/30/17 23:41	04/30/17 23:41	KCF
Wet Chemistry by Method 9056A	WG975157	50	05/01/17 00:17	05/01/17 00:17	KCF
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:48	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:31	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:19	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:43	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:35	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 17:48	04/28/17 17:48	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 20:27	05/04/17 20:27	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 13:01	TRF

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

NP-5 L905307-05 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 14:10

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:35	05/01/17 16:35	DR
Wet Chemistry by Method 9056A	WG975157	1	05/01/17 00:52	05/01/17 00:52	KCF
Wet Chemistry by Method 9056A	WG975157	100	05/01/17 01:03	05/01/17 01:03	KCF
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:28	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 19:54	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 20:42	05/04/17 20:42	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 15:33	TRF

MW-136 L905307-06 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 13:20

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974946	5	05/01/17 16:45	05/01/17 16:45	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:31	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 12:16	04/28/17 12:16	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 12:30	04/28/17 12:30	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:50	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:33	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:23	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:47	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:38	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 18:09	04/28/17 18:09	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 20:57	05/04/17 20:57	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 15:50	TRF

RW-#18A L905307-07 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:35

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:46	05/01/17 16:46	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 12:45	04/28/17 12:45	SAM

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



RW-#18A L905307-07 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:35

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9056A	WG974576	50	04/28/17 13:00	04/28/17 13:00	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:32	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 19:58	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 21:12	05/04/17 21:12	DWR

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

KWB-1A L905307-08 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 11:15

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:47	05/01/17 16:47	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:32	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 13:15	04/28/17 13:15	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 13:30	04/28/17 13:30	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:53	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:35	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:26	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:51	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:42	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 21:26	05/04/17 21:26	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 16:06	TRF

KWB-1C L905307-09 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 11:50

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:48	05/01/17 16:48	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 11:12	04/29/17 11:12	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 11:27	04/29/17 11:27	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:35	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:05	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 21:41	05/04/17 21:41	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 16:23	TRF

KWB-10R L905307-10 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 10:30

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:55	05/01/17 16:55	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 11:42	04/29/17 11:42	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 11:57	04/29/17 11:57	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:39	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:08	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	50	05/04/17 23:24	05/04/17 23:24	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 16:39	TRF

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



KWB-2R L905307-11 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 17:15

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:56	05/01/17 16:56	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 12:57	04/29/17 12:57	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 12:12	04/29/17 12:12	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:42	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:12	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 21:56	05/04/17 21:56	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 16:56	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-58 L905307-12 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 16:30

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:57	05/01/17 16:57	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:33	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 20:10	04/28/17 20:10	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 15:11	04/29/17 15:11	SAM
Wet Chemistry by Method 9056A	WG975172	5	04/29/17 17:42	04/29/17 17:42	KCF
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:55	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:38	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:30	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 23:19	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:54	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:45	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	100	05/04/17 23:39	05/04/17 23:39	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 17:13	TRF

MW-103 L905307-13 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 14:45

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:58	05/01/17 16:58	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 20:25	04/28/17 20:25	SAM
Wet Chemistry by Method 9056A	WG975172	500	04/29/17 17:57	04/29/17 17:57	KCF
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:46	VSS
Metals (ICPMS) by Method 6020	WG974738	100	05/01/17 14:40	05/01/17 23:30	VSS
Metals (ICPMS) by Method 6020	WG974741	20	04/28/17 13:50	05/10/17 14:45	JDG
Metals (ICPMS) by Method 6020	WG974741	20	04/28/17 13:50	05/10/17 16:11	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	10	04/28/17 18:30	04/28/17 18:30	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	50	05/04/17 23:54	05/04/17 23:54	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 17:29	TRF

MW-104 L905307-14 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 15:35

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:59	05/01/17 16:59	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 20:54	04/28/17 20:54	SAM
Wet Chemistry by Method 9056A	WG974576	50	04/28/17 21:09	04/28/17 21:09	SAM

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-104 L905307-14 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 15:35

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9056A	WG975172	5	04/29/17 18:12	04/29/17 18:12	KCF
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:49	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:19	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	10	04/28/17 18:51	04/28/17 18:51	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	10	05/05/17 00:09	05/05/17 00:09	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 17:46	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-64 L905307-15 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 13:00

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 17:01	05/01/17 17:01	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 21:54	04/28/17 21:54	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 21:24	04/28/17 21:24	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:53	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:22	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	25	04/28/17 19:12	04/28/17 19:12	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	250	05/05/17 00:23	05/05/17 00:23	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	500	05/08/17 14:46	05/08/17 14:46	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 18:03	TRF

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-65 L905307-16 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 13:50

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 17:02	05/01/17 17:02	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 23:09	04/28/17 23:09	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 22:09	04/28/17 22:09	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:56	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:27	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	5	04/28/17 19:33	04/28/17 19:33	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	100	05/05/17 00:38	05/05/17 00:38	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 18:20	TRF

UG-2 L905307-17 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:10

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:38	05/03/17 14:38	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:35	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 23:24	04/28/17 23:24	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 22:24	04/28/17 22:24	SAM
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 15:29	05/02/17 15:29	KCF
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:57	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:44	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:37	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:58	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:49	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 19:54	04/28/17 19:54	DWR

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



UG-2 L905307-17 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:10

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 22:11	05/04/17 22:11	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 18:37	TRF

¹ Cp

² Tc

³ Ss

UG-3R L905307-18 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 09:40

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:40	05/03/17 14:40	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:36	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 10:13	04/29/17 10:13	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 10:28	04/29/17 10:28	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 16:00	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:47	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:40	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 23:23	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 07:02	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:52	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 20:15	04/28/17 20:15	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 22:25	05/04/17 22:25	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 18:54	TRF

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

UG-1 L905307-19 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 11:20

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:41	05/03/17 14:41	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:41	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 13:12	04/29/17 13:12	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 13:27	04/29/17 13:27	SAM
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:49	TRB
Mercury by Method 7470A	WG974554	1	04/28/17 10:01	04/29/17 07:31	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:44	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 23:26	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 07:05	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:56	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 20:36	04/28/17 20:36	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 22:40	05/04/17 22:40	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 19:11	TRF

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 10:25

Received date/time
04/27/17 09:00

UG-4 L905307-20 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:42	05/03/17 14:42	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:42	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 14:11	04/29/17 14:11	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 14:56	04/29/17 14:56	SAM
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:51	TRB
Mercury by Method 7470A	WG974554	1	04/28/17 10:01	04/29/17 07:33	TRB

ACCOUNT:

TRC Solutions - Austin, TX

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



UG-4 L905307-20 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 10:25

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 19:40	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:11	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 17:47	VSS
Metals (ICPMS) by Method 6020	WG974741	2	04/28/17 13:50	05/01/17 19:23	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 20:57	04/28/17 20:57	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 22:55	05/04/17 22:55	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 19:28	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-43 L905307-21 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 11:25

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:47	05/03/17 14:47	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	2	04/28/17 16:29	05/02/17 10:16	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 01:53	04/29/17 01:53	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 02:23	04/29/17 02:23	SAM
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 16:04	05/02/17 16:04	KCF
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:53	TRB
Mercury by Method 7470A	WG974554	1	04/28/17 10:01	04/29/17 07:35	TRB
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 02:57	LAT
Metals (ICPMS) by Method 6020	WG974740	2	05/01/17 18:51	05/02/17 14:03	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/03/17 21:53	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 16:59	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	50	04/28/17 21:18	04/28/17 21:18	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	200	05/02/17 20:04	05/02/17 20:04	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	50	04/30/17 02:04	04/30/17 02:04	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 19:45	TRF

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-137 L905307-22 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 13:25

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:48	05/03/17 14:48	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	10	04/28/17 16:29	05/02/17 10:18	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 23:39	04/28/17 23:39	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 23:53	04/28/17 23:53	SAM
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:56	TRB
Mercury by Method 7470A	WG974554	1	04/28/17 10:01	04/29/17 07:42	TRB
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:01	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/03/17 21:56	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 17:02	LAT
Metals (ICPMS) by Method 6020	WG974743	5	05/03/17 17:36	05/04/17 18:15	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	200	04/28/17 21:39	04/28/17 21:39	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	200	04/30/17 02:20	04/30/17 02:20	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 18:19	TH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-138 L905307-23 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:25

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:49	05/03/17 14:49	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:45	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 00:08	04/29/17 00:08	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 00:53	04/29/17 00:53	SAM
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:58	TRB
Mercury by Method 7470A	WG974554	1	04/28/17 10:01	04/29/17 07:44	TRB
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:04	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/03/17 22:00	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 17:06	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	10	04/28/17 22:00	04/28/17 22:00	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	10	04/30/17 02:36	04/30/17 02:36	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	5	04/30/17 18:33	05/01/17 17:26	TH

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW-98 L905307-24 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 10:25

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:50	05/03/17 14:50	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 00:23	04/29/17 00:23	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 01:08	04/29/17 01:08	SAM
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:08	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 17:09	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	100	04/28/17 22:21	04/28/17 22:21	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975223	100	04/30/17 00:46	04/30/17 00:46	JAH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 18:36	TH

MW-106 L905307-25 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 09:25

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:52	05/03/17 14:52	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 00:38	04/29/17 00:38	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 02:08	04/29/17 02:08	SAM
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:11	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 17:13	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	5	05/03/17 15:15	05/03/17 15:15	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975223	50	04/30/17 01:07	04/30/17 01:07	JAH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 18:54	TH

MW-50 L905307-26 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:00

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG974947	50	05/02/17 12:34	05/02/17 12:34	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 15:59	04/29/17 15:59	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 16:34	04/29/17 16:34	MCG
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:15	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 17:16	LAT

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-50 L905307-26 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:00

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975223	1	04/30/17 01:27	04/30/17 01:27	JAH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	1	04/30/17 18:33	05/01/17 13:00	TH

¹ Cp

² Tc

³ Ss

RW-1 L905307-27 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 13:05

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:35	05/02/17 12:35	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 16:11	04/29/17 16:11	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 16:23	04/29/17 16:23	MCG
Wet Chemistry by Method 9056A	WG975534	10	05/02/17 16:22	05/02/17 16:22	KCF
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:19	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 18:01	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	1	05/03/17 15:37	05/03/17 15:37	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975223	10	04/30/17 01:48	04/30/17 01:48	JAH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	20	04/30/17 18:33	05/01/17 19:29	TH

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-91 L905307-28 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 13:50

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:36	05/02/17 12:36	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 17:09	04/29/17 17:09	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 18:08	04/29/17 18:08	MCG
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:22	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 18:04	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	5	05/03/17 15:59	05/03/17 15:59	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975227	100	04/29/17 21:04	04/29/17 21:04	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 19:11	TH

MW-90 L905307-29 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 14:30

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:37	05/02/17 12:37	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 17:21	04/29/17 17:21	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 18:19	04/29/17 18:19	MCG
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:33	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 18:08	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	1	04/28/17 15:35	04/28/17 15:35	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975227	1	04/29/17 21:20	04/29/17 21:20	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	5	04/30/17 18:33	05/01/17 17:08	TH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-96 L905307-30 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 15:10

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:38	05/02/17 12:38	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 17:33	04/29/17 17:33	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 18:31	04/29/17 18:31	MCG
Wet Chemistry by Method 9056A	WG975534	10	05/02/17 17:14	05/02/17 17:14	KCF
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:36	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 18:11	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	5	05/03/17 16:21	05/03/17 16:21	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975227	1000	05/05/17 01:13	05/05/17 01:13	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975227	50	04/29/17 21:37	04/29/17 21:37	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 18:01	TH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

DUP-REST-02 L905307-31 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 12:00

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:39	05/02/17 12:39	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 17:44	04/29/17 17:44	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 18:43	04/29/17 18:43	MCG
Wet Chemistry by Method 9056A	WG975534	10	05/02/17 17:31	05/02/17 17:31	KCF
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:40	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 15:52	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	1	05/03/17 16:48	05/03/17 16:48	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975227	5	04/29/17 21:54	04/29/17 21:54	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 17:43	TH

EB-REST-02 L905307-32 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 15:50

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:40	05/02/17 12:40	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 17:56	04/29/17 17:56	MCG
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 17:49	05/02/17 17:49	KCF
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:44	LAT
Metals (ICPMS) by Method 6020	WG976346	1	05/04/17 13:20	05/05/17 05:56	LAT
Metals (ICPMS) by Method 6020	WG976346	1	05/04/17 13:20	05/05/17 13:27	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	1	04/28/17 20:03	04/28/17 20:03	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975239	1	04/30/17 22:37	04/30/17 22:37	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	1	04/30/17 18:33	05/01/17 13:18	TH

TRIP BLANK-REST-04 L905307-34 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/25/17 00:00

Received date/time
04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975237	1	04/30/17 13:04	04/30/17 13:04	JHH



All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

Sample Handling and Receiving

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

<u>ESC Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L905307-03	KWB-11A	4500CN E-2011

VOC pH outside of method requirement.

<u>ESC Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L905307-06	MW-136	8015D/GRO
L905307-14	MW-104	8015D/GRO
L905307-21	MW-43	8015D/GRO
L905307-22	MW-137	8015D/GRO

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2400		2.82	10.0	1	04/30/2017 13:12	WG974889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0510	J	0.0197	0.100	1	05/01/2017 16:26	WG974945

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:25	WG974960

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	574		2.60	50.0	50	04/28/2017 18:17	WG974575
Fluoride	0.623		0.00990	0.100	1	04/28/2017 17:30	WG974575
Sulfate	442		3.87	250	50	04/28/2017 18:17	WG974575

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:41	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:24	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00129	J	0.000250	0.00200	1	05/01/2017 18:24	WG974741
Arsenic,Dissolved	0.000904	J	0.000250	0.00200	1	05/01/2017 20:09	WG974738
Barium	0.106		0.000360	0.00500	1	05/01/2017 18:24	WG974741
Barium,Dissolved	0.0870		0.000360	0.00500	1	05/01/2017 20:09	WG974738
Boron	0.632		0.00150	0.0200	1	05/01/2017 18:24	WG974741
Boron,Dissolved	0.600		0.00150	0.0200	1	05/01/2017 20:09	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:24	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:09	WG974738
Calcium	237		0.0460	1.00	1	05/01/2017 18:24	WG974741
Chromium	0.000851	J	0.000540	0.00200	1	05/01/2017 18:24	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:09	WG974738
Cobalt	0.000264	J	0.000260	0.00200	1	05/01/2017 18:24	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:09	WG974738
Iron	1.07		0.0150	0.100	1	05/01/2017 18:24	WG974741
Iron,Dissolved	0.0772	J	0.0150	0.100	1	05/01/2017 20:09	WG974738
Lead	0.00495		0.000240	0.00200	1	05/01/2017 18:24	WG974741
Lead,Dissolved	0.000556	J	0.000240	0.00200	1	05/01/2017 20:09	WG974738
Manganese	1.83		0.000250	0.00500	1	05/01/2017 18:24	WG974741
Manganese,Dissolved	1.77		0.000250	0.00500	1	05/01/2017 20:09	WG974738
Nickel	0.00120	J	0.000350	0.00200	1	05/01/2017 18:24	WG974741
Nickel,Dissolved	0.000663	J	0.000350	0.00200	1	05/01/2017 20:09	WG974738
Potassium	0.414	J	0.0370	1.00	1	05/01/2017 18:24	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 18:24	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 20:09	WG974738
Sodium	320		0.110	1.00	1	05/01/2017 18:24	WG974741



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	U		0.000330	0.0100	1	05/01/2017 18:24	WG974741
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 06:33	WG974738
Vanadium	0.00157	⌵	0.000180	0.00500	1	05/01/2017 18:24	WG974741
Vanadium,Dissolved	0.00112	⌵	0.000180	0.00500	1	05/01/2017 20:09	WG974738

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		1.00	5.00	100	05/04/2017 23:10	WG976754
Benzene	5.62		0.0331	0.100	100	05/04/2017 23:10	WG976754
Bromodichloromethane	U		0.0380	0.100	100	05/04/2017 23:10	WG976754
Bromoform	U		0.0469	0.100	100	05/04/2017 23:10	WG976754
Bromomethane	U		0.0866	0.500	100	05/04/2017 23:10	WG976754
n-Butylbenzene	U		0.0361	0.100	100	05/04/2017 23:10	WG976754
sec-Butylbenzene	U		0.0365	0.100	100	05/04/2017 23:10	WG976754
Carbon disulfide	U		0.0275	0.100	100	05/04/2017 23:10	WG976754
Carbon tetrachloride	U		0.0379	0.100	100	05/04/2017 23:10	WG976754
Chlorobenzene	U		0.0348	0.100	100	05/04/2017 23:10	WG976754
Chlorodibromomethane	U		0.0327	0.100	100	05/04/2017 23:10	WG976754
Chloroethane	U		0.0453	0.500	100	05/04/2017 23:10	WG976754
Chloroform	U		0.0324	0.500	100	05/04/2017 23:10	WG976754
Chloromethane	U		0.0276	0.250	100	05/04/2017 23:10	WG976754
1,2-Dibromoethane	U		0.0381	0.100	100	05/04/2017 23:10	WG976754
1,1-Dichloroethane	U		0.0259	0.100	100	05/04/2017 23:10	WG976754
1,2-Dichloroethane	U		0.0361	0.100	100	05/04/2017 23:10	WG976754
1,1-Dichloroethene	U		0.0398	0.100	100	05/04/2017 23:10	WG976754
cis-1,2-Dichloroethene	U		0.0260	0.100	100	05/04/2017 23:10	WG976754
trans-1,2-Dichloroethene	U		0.0396	0.100	100	05/04/2017 23:10	WG976754
1,2-Dichloropropane	U		0.0306	0.100	100	05/04/2017 23:10	WG976754
cis-1,3-Dichloropropene	U		0.0418	0.100	100	05/04/2017 23:10	WG976754
trans-1,3-Dichloropropene	U		0.0419	0.100	100	05/04/2017 23:10	WG976754
Ethylbenzene	1.24		0.0384	0.100	100	05/04/2017 23:10	WG976754
Isopropylbenzene	0.0467	⌵	0.0326	0.100	100	05/04/2017 23:10	WG976754
p-Isopropyltoluene	U		0.0350	0.100	100	05/04/2017 23:10	WG976754
2-Butanone (MEK)	U		0.393	1.00	100	05/04/2017 23:10	WG976754
2-Hexanone	U		0.382	1.00	100	05/04/2017 23:10	WG976754
Methylene Chloride	U		0.100	0.500	100	05/04/2017 23:10	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	05/04/2017 23:10	WG976754
Methyl tert-butyl ether	0.129		0.0367	0.100	100	05/04/2017 23:10	WG976754
Naphthalene	0.141	⌵	0.100	0.500	100	05/04/2017 23:10	WG976754
n-Propylbenzene	0.0852	⌵	0.0349	0.100	100	05/04/2017 23:10	WG976754
Styrene	U		0.0307	0.100	100	05/04/2017 23:10	WG976754
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	05/04/2017 23:10	WG976754
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	05/04/2017 23:10	WG976754
Tetrachloroethene	U		0.0372	0.100	100	05/04/2017 23:10	WG976754
Toluene	0.747		0.0412	0.100	100	05/04/2017 23:10	WG976754
1,1,1-Trichloroethane	U		0.0319	0.100	100	05/04/2017 23:10	WG976754
1,1,2-Trichloroethane	U		0.0383	0.100	100	05/04/2017 23:10	WG976754
Trichloroethene	U		0.0398	0.100	100	05/04/2017 23:10	WG976754
1,2,4-Trimethylbenzene	0.380		0.0373	0.100	100	05/04/2017 23:10	WG976754
1,3,5-Trimethylbenzene	0.0863	⌵	0.0387	0.100	100	05/04/2017 23:10	WG976754
Vinyl chloride	U		0.0259	0.100	100	05/04/2017 23:10	WG976754
o-Xylene	0.145		0.0341	0.100	100	05/04/2017 23:10	WG976754
m&p-Xylene	1.92		0.0719	0.200	100	05/04/2017 23:10	WG976754
Xylenes, Total	2.07		0.106	0.300	100	05/04/2017 23:10	WG976754
(S) Toluene-d8	95.3			80.0-120		05/04/2017 23:10	WG976754

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Dibromofluoromethane	80.9			76.0-123		05/04/2017 23:10	WG976754
(S) 4-Bromofluorobenzene	95.2			80.0-120		05/04/2017 23:10	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.41		0.0247	0.100	1	05/01/2017 12:11	WG975178
(S) o-Terphenyl	136			31.0-160		05/01/2017 12:11	WG975178

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2540		2.82	10.0	1	04/30/2017 13:12	WG974889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0600	J	0.0197	0.100	1	05/01/2017 16:31	WG974945

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:28	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	305		1.04	20.0	20	04/30/2017 23:54	WG975157
Fluoride	0.822		0.00990	0.100	1	04/30/2017 23:17	WG975157
Sulfate	1070		1.55	100	20	04/30/2017 23:54	WG975157

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:44	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:26	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00307		0.000250	0.00200	1	05/01/2017 18:28	WG974741
Arsenic,Dissolved	0.00204		0.000250	0.00200	1	05/01/2017 20:12	WG974738
Barium	0.0650		0.000360	0.00500	1	05/01/2017 18:28	WG974741
Barium,Dissolved	0.0440		0.000360	0.00500	1	05/01/2017 20:12	WG974738
Boron	0.436		0.00150	0.0200	1	05/01/2017 18:28	WG974741
Boron,Dissolved	0.405		0.00150	0.0200	1	05/01/2017 20:12	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:28	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:12	WG974738
Calcium	306		0.0460	1.00	1	05/01/2017 18:28	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:28	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:12	WG974738
Cobalt	0.00206		0.000260	0.00200	1	05/01/2017 18:28	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:12	WG974738
Iron	1.47		0.0150	0.100	1	05/01/2017 18:28	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:12	WG974738
Lead	0.000707	J	0.000240	0.00200	1	05/01/2017 18:28	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 20:12	WG974738
Manganese	3.44		0.000250	0.00500	1	05/01/2017 18:28	WG974741
Manganese,Dissolved	3.25		0.000250	0.00500	1	05/01/2017 20:12	WG974738
Nickel	0.00746		0.000350	0.00200	1	05/01/2017 18:28	WG974741
Nickel,Dissolved	0.00101	J	0.000350	0.00200	1	05/01/2017 20:12	WG974738
Potassium	0.225	J	0.0370	1.00	1	05/01/2017 18:28	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 18:28	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 20:12	WG974738
Sodium	230		0.110	1.00	1	05/01/2017 18:28	WG974741



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00159	U	0.000330	0.0100	1	05/01/2017 18:28	WG974741
Uranium,Dissolved	0.00167	U	0.000330	0.0100	1	05/02/2017 06:36	WG974738
Vanadium	0.00102	U	0.000180	0.00500	1	05/01/2017 18:28	WG974741
Vanadium,Dissolved	0.000930	U	0.000180	0.00500	1	05/01/2017 20:12	WG974738

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 19:58	WG976754
Benzene	0.0135		0.000331	0.00100	1	05/04/2017 19:58	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 19:58	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 19:58	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 19:58	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 19:58	WG976754
sec-Butylbenzene	0.00714		0.000365	0.00100	1	05/04/2017 19:58	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 19:58	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 19:58	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 19:58	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 19:58	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 19:58	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 19:58	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 19:58	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 19:58	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 19:58	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 19:58	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 19:58	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 19:58	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 19:58	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 19:58	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 19:58	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 19:58	WG976754
Ethylbenzene	0.00858		0.000384	0.00100	1	05/04/2017 19:58	WG976754
Isopropylbenzene	0.0136		0.000326	0.00100	1	05/04/2017 19:58	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 19:58	WG976754
2-Butanone (MEK)	0.0161		0.00393	0.0100	1	05/04/2017 19:58	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 19:58	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 19:58	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 19:58	WG976754
Methyl tert-butyl ether	0.00678		0.000367	0.00100	1	05/04/2017 19:58	WG976754
Naphthalene	0.00409	U	0.00100	0.00500	1	05/04/2017 19:58	WG976754
n-Propylbenzene	0.00992		0.000349	0.00100	1	05/04/2017 19:58	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 19:58	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 19:58	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 19:58	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 19:58	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 19:58	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 19:58	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 19:58	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 19:58	WG976754
1,2,4-Trimethylbenzene	0.0115		0.000373	0.00100	1	05/04/2017 19:58	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 19:58	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 19:58	WG976754
o-Xylene	0.000576	U	0.000341	0.00100	1	05/04/2017 19:58	WG976754
m&p-Xylene	0.00700		0.000719	0.00200	1	05/04/2017 19:58	WG976754
Xylenes, Total	0.00757		0.00106	0.00300	1	05/04/2017 19:58	WG976754
(S) Toluene-d8	98.4			80.0-120		05/04/2017 19:58	WG976754

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
(S) Dibromofluoromethane	80.3			76.0-123		05/04/2017 19:58	WG976754
(S) 4-Bromofluorobenzene	84.2			80.0-120		05/04/2017 19:58	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
TPH (GC/FID) High Fraction	1.40		0.0247	0.100	1	05/01/2017 12:27	WG975178
(S) o-Terphenyl	110			31.0-160		05/01/2017 12:27	WG975178

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4960		2.82	10.0	1	04/30/2017 13:12	WG974889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	33.9		0.394	2.00	20	05/01/2017 16:33	WG974945

6 Qc

7 Gl

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:29	WG974960

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1310		2.60	50.0	50	05/01/2017 00:05	WG975157
Fluoride	0.487		0.00990	0.100	1	04/30/2017 23:29	WG975157
Sulfate	1540		3.87	250	50	05/01/2017 00:05	WG975157

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:46	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:28	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00183	J	0.000250	0.00200	1	05/01/2017 18:31	WG974741
Arsenic,Dissolved	0.00194	J	0.000250	0.00200	1	05/01/2017 20:16	WG974738
Barium	0.0214		0.000360	0.00500	1	05/01/2017 18:31	WG974741
Barium,Dissolved	0.0205		0.000360	0.00500	1	05/01/2017 20:16	WG974738
Boron	0.412		0.00150	0.0200	1	05/01/2017 18:31	WG974741
Boron,Dissolved	0.386		0.00150	0.0200	1	05/01/2017 20:16	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:31	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:16	WG974738
Calcium	607		0.0460	1.00	1	05/01/2017 18:31	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:31	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:16	WG974738
Cobalt	0.00126	J	0.000260	0.00200	1	05/01/2017 18:31	WG974741
Cobalt,Dissolved	0.00140	J	0.000260	0.00200	1	05/01/2017 20:16	WG974738
Iron	U		0.0150	0.100	1	05/01/2017 18:31	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:16	WG974738
Lead	0.00281		0.000240	0.00200	1	05/01/2017 18:31	WG974741
Lead,Dissolved	0.00294		0.000240	0.00200	1	05/01/2017 20:16	WG974738
Manganese	0.243		0.000250	0.00500	1	05/01/2017 18:31	WG974741
Manganese,Dissolved	0.240		0.000250	0.00500	1	05/01/2017 20:16	WG974738
Nickel	0.00431		0.000350	0.00200	1	05/01/2017 18:31	WG974741
Nickel,Dissolved	0.00478		0.000350	0.00200	1	05/01/2017 20:16	WG974738
Potassium	0.903	J	0.0370	1.00	1	05/01/2017 18:31	WG974741
Selenium	0.00536		0.000380	0.00200	1	05/01/2017 18:31	WG974741
Selenium,Dissolved	0.00483		0.000380	0.00200	1	05/01/2017 20:16	WG974738
Sodium	372		0.110	1.00	1	05/01/2017 18:31	WG974741



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0187		0.000330	0.0100	1	05/01/2017 18:31	WG974741
Uranium,Dissolved	0.0196		0.000330	0.0100	1	05/02/2017 06:40	WG974738
Vanadium	0.0113		0.000180	0.00500	1	05/01/2017 18:31	WG974741
Vanadium,Dissolved	0.0119		0.000180	0.00500	1	05/01/2017 20:16	WG974738

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.155		0.0314	0.100	1	04/28/2017 17:27	WG974800
(S) a,a,a-Trifluorotoluene(FID) 102				77.0-122		04/28/2017 17:27	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 20:13	WG976754
Benzene	0.00359		0.000331	0.00100	1	05/04/2017 20:13	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 20:13	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 20:13	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 20:13	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 20:13	WG976754
sec-Butylbenzene	0.00419		0.000365	0.00100	1	05/04/2017 20:13	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 20:13	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 20:13	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 20:13	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 20:13	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 20:13	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 20:13	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 20:13	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 20:13	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 20:13	WG976754
1,2-Dichloroethane	0.000409	J	0.000361	0.00100	1	05/04/2017 20:13	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 20:13	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 20:13	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 20:13	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 20:13	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 20:13	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 20:13	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 20:13	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 20:13	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 20:13	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 20:13	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 20:13	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 20:13	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 20:13	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 20:13	WG976754
Naphthalene	0.00841		0.00100	0.00500	1	05/04/2017 20:13	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 20:13	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 20:13	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 20:13	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 20:13	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 20:13	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 20:13	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 20:13	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 20:13	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 20:13	WG976754



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	0.0142		0.000373	0.00100	1	05/04/2017 20:13	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 20:13	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 20:13	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 20:13	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 20:13	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 20:13	WG976754
(S) Toluene-d8	96.4			80.0-120		05/04/2017 20:13	WG976754
(S) Dibromofluoromethane	83.7			76.0-123		05/04/2017 20:13	WG976754
(S) 4-Bromofluorobenzene	93.6			80.0-120		05/04/2017 20:13	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.511		0.0247	0.100	1	05/01/2017 12:44	WG975178
(S) o-Terphenyl	91.0			31.0-160		05/01/2017 12:44	WG975178

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2710		2.82	10.0	1	04/30/2017 13:12	WG974889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.48		0.0197	0.100	1	05/01/2017 16:34	WG974945

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:30	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	291		2.60	50.0	50	05/01/2017 00:17	WG975157
Fluoride	0.369		0.00990	0.100	1	04/30/2017 23:41	WG975157
Sulfate	1660		3.87	250	50	05/01/2017 00:17	WG975157

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:48	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:31	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00126	J	0.000250	0.00200	1	05/01/2017 18:35	WG974741
Arsenic,Dissolved	0.00130	J	0.000250	0.00200	1	05/01/2017 20:19	WG974738
Barium	0.0138		0.000360	0.00500	1	05/01/2017 18:35	WG974741
Barium,Dissolved	0.0123		0.000360	0.00500	1	05/01/2017 20:19	WG974738
Boron	0.121		0.00150	0.0200	1	05/01/2017 18:35	WG974741
Boron,Dissolved	0.0995		0.00150	0.0200	1	05/01/2017 20:19	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:35	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:19	WG974738
Calcium	479		0.0460	1.00	1	05/01/2017 18:35	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:35	WG974741
Chromium,Dissolved	0.000579	J	0.000540	0.00200	1	05/01/2017 20:19	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 18:35	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:19	WG974738
Iron	U		0.0150	0.100	1	05/01/2017 18:35	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:19	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:35	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 20:19	WG974738
Manganese	0.000954	J	0.000250	0.00500	1	05/01/2017 18:35	WG974741
Manganese,Dissolved	0.000589	J	0.000250	0.00500	1	05/01/2017 20:19	WG974738
Nickel	U		0.000350	0.00200	1	05/01/2017 18:35	WG974741
Nickel,Dissolved	U		0.000350	0.00200	1	05/01/2017 20:19	WG974738
Potassium	2.37		0.0370	1.00	1	05/01/2017 18:35	WG974741
Selenium	0.00959		0.000380	0.00200	1	05/01/2017 18:35	WG974741
Selenium,Dissolved	0.00905		0.000380	0.00200	1	05/01/2017 20:19	WG974738
Sodium	89.5		0.110	1.00	1	05/01/2017 18:35	WG974741



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0113		0.000330	0.0100	1	05/01/2017 18:35	WG974741
Uranium,Dissolved	0.0114		0.000330	0.0100	1	05/02/2017 06:43	WG974738
Vanadium	0.00846		0.000180	0.00500	1	05/01/2017 18:35	WG974741
Vanadium,Dissolved	0.00855		0.000180	0.00500	1	05/01/2017 20:19	WG974738

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 17:48	WG974800
(S) <i>a,a,a</i> -Trifluorotoluene(FID) 103				77.0-122		04/28/2017 17:48	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 20:27	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 20:27	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 20:27	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 20:27	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 20:27	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 20:27	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 20:27	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 20:27	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 20:27	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 20:27	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 20:27	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 20:27	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 20:27	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 20:27	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 20:27	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 20:27	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 20:27	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 20:27	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 20:27	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 20:27	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 20:27	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 20:27	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 20:27	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 20:27	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 20:27	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 20:27	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 20:27	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 20:27	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 20:27	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 20:27	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 20:27	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 20:27	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 20:27	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 20:27	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 20:27	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 20:27	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 20:27	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 20:27	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 20:27	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 20:27	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 20:27	WG976754

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 20:27	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 20:27	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 20:27	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 20:27	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 20:27	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 20:27	WG976754
(S) Toluene-d8	94.9			80.0-120		05/04/2017 20:27	WG976754
(S) Dibromofluoromethane	82.1			76.0-123		05/04/2017 20:27	WG976754
(S) 4-Bromofluorobenzene	92.9			80.0-120		05/04/2017 20:27	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0339	J	0.0247	0.100	1	05/01/2017 13:01	WG975178
(S) o-Terphenyl	79.7			31.0-160		05/01/2017 13:01	WG975178

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4810		2.82	10.0	1	04/30/2017 13:12	WG974889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.22		0.0197	0.100	1	05/01/2017 16:35	WG974945

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	444		5.19	100	100	05/01/2017 01:03	WG975157
Fluoride	1.63		0.00990	0.100	1	05/01/2017 00:52	WG975157
Sulfate	3770		7.74	500	100	05/01/2017 01:03	WG975157

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00305		0.000250	0.00200	1	05/01/2017 19:54	WG974741
Arsenic,Dissolved	0.00315		0.000250	0.00200	1	05/01/2017 22:28	WG974738
Barium	0.00938		0.000360	0.00500	1	05/01/2017 19:54	WG974741
Barium,Dissolved	0.00738		0.000360	0.00500	1	05/01/2017 22:28	WG974738
Calcium	514		0.0460	1.00	1	05/01/2017 19:54	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 19:54	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:28	WG974738
Iron	0.0632	J	0.0150	0.100	1	05/01/2017 19:54	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:28	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 19:54	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:28	WG974738
Manganese	0.000586	J	0.000250	0.00500	1	05/01/2017 19:54	WG974741
Manganese,Dissolved	U		0.000250	0.00500	1	05/01/2017 22:28	WG974738
Potassium	0.422	J	0.0370	1.00	1	05/01/2017 19:54	WG974741
Selenium	0.0124		0.000380	0.00200	1	05/01/2017 19:54	WG974741
Selenium,Dissolved	0.0125		0.000380	0.00200	1	05/01/2017 22:28	WG974738
Sodium	212		0.110	1.00	1	05/01/2017 19:54	WG974741

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 20:42	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 20:42	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 20:42	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 20:42	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 20:42	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 20:42	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 20:42	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 20:42	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 20:42	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 20:42	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 20:42	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 20:42	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 20:42	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 20:42	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 20:42	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 20:42	WG976754



Collected date/time: 04/25/17 14:10

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 20:42	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 20:42	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 20:42	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 20:42	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 20:42	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 20:42	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 20:42	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 20:42	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 20:42	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 20:42	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 20:42	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 20:42	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 20:42	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 20:42	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 20:42	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 20:42	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 20:42	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 20:42	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 20:42	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 20:42	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 20:42	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 20:42	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 20:42	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 20:42	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 20:42	WG976754
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 20:42	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 20:42	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 20:42	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 20:42	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 20:42	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 20:42	WG976754
(S) Toluene-d8	95.5			80.0-120		05/04/2017 20:42	WG976754
(S) Dibromofluoromethane	82.6			76.0-123		05/04/2017 20:42	WG976754
(S) 4-Bromofluorobenzene	92.3			80.0-120		05/04/2017 20:42	WG976754

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/01/2017 15:33	WG975178
(S) o-Terphenyl	70.5			31.0-160		05/01/2017 15:33	WG975178



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4360		2.82	10.0	1	04/30/2017 13:12	WG974889

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	17.1		0.0985	0.500	5	05/01/2017 16:45	WG974946

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:31	WG974960

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	401		5.19	100	100	04/28/2017 12:30	WG974576
Fluoride	1.81		0.00990	0.100	1	04/28/2017 12:16	WG974576
Sulfate	2370		7.74	500	100	04/28/2017 12:30	WG974576

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:50	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:33	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00237		0.000250	0.00200	1	05/01/2017 18:38	WG974741
Arsenic,Dissolved	0.00248		0.000250	0.00200	1	05/01/2017 20:23	WG974738
Barium	0.0117		0.000360	0.00500	1	05/01/2017 18:38	WG974741
Barium,Dissolved	0.0101		0.000360	0.00500	1	05/01/2017 20:23	WG974738
Boron	0.588		0.00150	0.0200	1	05/01/2017 18:38	WG974741
Boron,Dissolved	0.558		0.00150	0.0200	1	05/01/2017 20:23	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:38	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:23	WG974738
Calcium	643		0.0460	1.00	1	05/01/2017 18:38	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:38	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:23	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 18:38	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:23	WG974738
Iron	0.0262	J	0.0150	0.100	1	05/01/2017 18:38	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:23	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:38	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 20:23	WG974738
Manganese	0.00602		0.000250	0.00500	1	05/01/2017 18:38	WG974741
Manganese,Dissolved	0.00136	J	0.000250	0.00500	1	05/01/2017 20:23	WG974738
Nickel	0.00102	J	0.000350	0.00200	1	05/01/2017 18:38	WG974741
Nickel,Dissolved	0.00109	J	0.000350	0.00200	1	05/01/2017 20:23	WG974738
Potassium	2.81		0.0370	1.00	1	05/01/2017 18:38	WG974741
Selenium	0.00563		0.000380	0.00200	1	05/01/2017 18:38	WG974741
Selenium,Dissolved	0.00472		0.000380	0.00200	1	05/01/2017 20:23	WG974738
Sodium	140		0.110	1.00	1	05/01/2017 18:38	WG974741



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0664		0.000330	0.0100	1	05/01/2017 18:38	WG974741
Uranium,Dissolved	0.0684		0.000330	0.0100	1	05/02/2017 06:47	WG974738
Vanadium	0.0171		0.000180	0.00500	1	05/01/2017 18:38	WG974741
Vanadium,Dissolved	0.0176		0.000180	0.00500	1	05/01/2017 20:23	WG974738

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 18:09	WG974800
(S) <i>a,a,a</i> -Trifluorotoluene(FID) 102				77.0-122		04/28/2017 18:09	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 20:57	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 20:57	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 20:57	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 20:57	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 20:57	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 20:57	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 20:57	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 20:57	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 20:57	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 20:57	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 20:57	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 20:57	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 20:57	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 20:57	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 20:57	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 20:57	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 20:57	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 20:57	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 20:57	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 20:57	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 20:57	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 20:57	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 20:57	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 20:57	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 20:57	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 20:57	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 20:57	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 20:57	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 20:57	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 20:57	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 20:57	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 20:57	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 20:57	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 20:57	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 20:57	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 20:57	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 20:57	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 20:57	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 20:57	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 20:57	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 20:57	WG976754

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/25/17 13:20

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 20:57	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 20:57	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 20:57	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 20:57	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 20:57	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 20:57	WG976754
(S) Toluene-d8	95.1			80.0-120		05/04/2017 20:57	WG976754
(S) Dibromofluoromethane	81.0			76.0-123		05/04/2017 20:57	WG976754
(S) 4-Bromofluorobenzene	91.7			80.0-120		05/04/2017 20:57	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0731	J	0.0247	0.100	1	05/01/2017 15:50	WG975178
(S) o-Terphenyl	80.6			31.0-160		05/01/2017 15:50	WG975178

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4400		2.82	10.0	1	05/01/2017 09:04	WG974890

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.90		0.0197	0.100	1	05/01/2017 16:46	WG974946

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	176		2.60	50.0	50	04/28/2017 13:00	WG974576
Fluoride	2.51		0.00990	0.100	1	04/28/2017 12:45	WG974576
Sulfate	2870		3.87	250	50	04/28/2017 13:00	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00331		0.000250	0.00200	1	05/01/2017 19:58	WG974741
Arsenic,Dissolved	0.00331		0.000250	0.00200	1	05/01/2017 22:32	WG974738
Barium	0.0107		0.000360	0.00500	1	05/01/2017 19:58	WG974741
Barium,Dissolved	0.0105		0.000360	0.00500	1	05/01/2017 22:32	WG974738
Calcium	504		0.0460	1.00	1	05/01/2017 19:58	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 19:58	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:32	WG974738
Iron	U		0.0150	0.100	1	05/01/2017 19:58	WG974741
Iron,Dissolved	0.0200	J	0.0150	0.100	1	05/01/2017 22:32	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 19:58	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:32	WG974738
Manganese	0.000927	J	0.000250	0.00500	1	05/01/2017 19:58	WG974741
Manganese,Dissolved	0.00103	J	0.000250	0.00500	1	05/01/2017 22:32	WG974738
Potassium	1.09		0.0370	1.00	1	05/01/2017 19:58	WG974741
Selenium	0.00406		0.000380	0.00200	1	05/01/2017 19:58	WG974741
Selenium,Dissolved	0.00340		0.000380	0.00200	1	05/01/2017 22:32	WG974738
Sodium	141		0.110	1.00	1	05/01/2017 19:58	WG974741

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 21:12	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 21:12	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 21:12	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 21:12	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 21:12	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 21:12	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 21:12	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 21:12	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 21:12	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 21:12	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 21:12	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 21:12	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 21:12	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 21:12	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 21:12	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 21:12	WG976754



Collected date/time: 04/25/17 12:35

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 21:12	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 21:12	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 21:12	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 21:12	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 21:12	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 21:12	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 21:12	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 21:12	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 21:12	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 21:12	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 21:12	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 21:12	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 21:12	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 21:12	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 21:12	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 21:12	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 21:12	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 21:12	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 21:12	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 21:12	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 21:12	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 21:12	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 21:12	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 21:12	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 21:12	WG976754
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 21:12	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 21:12	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 21:12	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 21:12	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 21:12	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 21:12	WG976754
(S) Toluene-d8	95.1			80.0-120		05/04/2017 21:12	WG976754
(S) Dibromofluoromethane	80.0			76.0-123		05/04/2017 21:12	WG976754
(S) 4-Bromofluorobenzene	92.6			80.0-120		05/04/2017 21:12	WG976754

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4930		2.82	10.0	1	05/01/2017 09:04	WG974890

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.09		0.0197	0.100	1	05/01/2017 16:47	WG974946

6 Qc

7 Gl

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:32	WG974960

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	530		5.19	100	100	04/28/2017 13:30	WG974576
Fluoride	1.39		0.00990	0.100	1	04/28/2017 13:15	WG974576
Sulfate	2940		7.74	500	100	04/28/2017 13:30	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:53	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:35	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00319		0.000250	0.00200	1	05/01/2017 18:42	WG974741
Arsenic,Dissolved	0.00344		0.000250	0.00200	1	05/01/2017 20:26	WG974738
Barium	0.00857		0.000360	0.00500	1	05/01/2017 18:42	WG974741
Barium,Dissolved	0.00795		0.000360	0.00500	1	05/01/2017 20:26	WG974738
Boron	0.706		0.00150	0.0200	1	05/01/2017 18:42	WG974741
Boron,Dissolved	0.681		0.00150	0.0200	1	05/01/2017 20:26	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:42	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:26	WG974738
Calcium	566		0.0460	1.00	1	05/01/2017 18:42	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:42	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:26	WG974738
Cobalt	0.00583		0.000260	0.00200	1	05/01/2017 18:42	WG974741
Cobalt,Dissolved	0.00545		0.000260	0.00200	1	05/01/2017 20:26	WG974738
Iron	U		0.0150	0.100	1	05/01/2017 18:42	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:26	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:42	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 20:26	WG974738
Manganese	0.447		0.000250	0.00500	1	05/01/2017 18:42	WG974741
Manganese,Dissolved	0.409		0.000250	0.00500	1	05/01/2017 20:26	WG974738
Nickel	0.00881		0.000350	0.00200	1	05/01/2017 18:42	WG974741
Nickel,Dissolved	0.00948		0.000350	0.00200	1	05/01/2017 20:26	WG974738
Potassium	1.19		0.0370	1.00	1	05/01/2017 18:42	WG974741
Selenium	0.00164	J	0.000380	0.00200	1	05/01/2017 18:42	WG974741
Selenium,Dissolved	0.00130	J	0.000380	0.00200	1	05/01/2017 20:26	WG974738
Sodium	269		0.110	1.00	1	05/01/2017 18:42	WG974741



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0232		0.000330	0.0100	1	05/01/2017 18:42	WG974741
Uranium,Dissolved	0.0243		0.000330	0.0100	1	05/02/2017 06:51	WG974738
Vanadium	0.0221		0.000180	0.00500	1	05/01/2017 18:42	WG974741
Vanadium,Dissolved	0.0223		0.000180	0.00500	1	05/01/2017 20:26	WG974738

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 21:26	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 21:26	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 21:26	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 21:26	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 21:26	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 21:26	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 21:26	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 21:26	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 21:26	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 21:26	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 21:26	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 21:26	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 21:26	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 21:26	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 21:26	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 21:26	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 21:26	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 21:26	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 21:26	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 21:26	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 21:26	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 21:26	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 21:26	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 21:26	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 21:26	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 21:26	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 21:26	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 21:26	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 21:26	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 21:26	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 21:26	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 21:26	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 21:26	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 21:26	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 21:26	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 21:26	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 21:26	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 21:26	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 21:26	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 21:26	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 21:26	WG976754
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 21:26	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 21:26	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 21:26	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 21:26	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 21:26	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 21:26	WG976754
(S) Toluene-d8	94.9			80.0-120		05/04/2017 21:26	WG976754

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Dibromofluoromethane	82.2			76.0-123		05/04/2017 21:26	WG976754
(S) 4-Bromofluorobenzene	91.4			80.0-120		05/04/2017 21:26	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.102		0.0247	0.100	1	05/01/2017 16:06	WG975178
(S) o-Terphenyl	81.1			31.0-160		05/01/2017 16:06	WG975178

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5000		2.82	10.0	1	05/01/2017 09:04	WG974890

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0350	J P1	0.0197	0.100	1	05/01/2017 16:48	WG974946

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	508		5.19	100	100	04/29/2017 11:27	WG974576
Fluoride	1.25		0.00990	0.100	1	04/29/2017 11:12	WG974576
Sulfate	2860		7.74	500	100	04/29/2017 11:27	WG974576

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00303		0.000250	0.00200	1	05/01/2017 20:05	WG974741
Arsenic,Dissolved	0.00303		0.000250	0.00200	1	05/01/2017 22:35	WG974738
Barium	0.00955		0.000360	0.00500	1	05/01/2017 20:05	WG974741
Barium,Dissolved	0.00839		0.000360	0.00500	1	05/01/2017 22:35	WG974738
Calcium	560		0.0460	1.00	1	05/01/2017 20:05	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:05	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:35	WG974738
Iron	U		0.0150	0.100	1	05/01/2017 20:05	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:35	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 20:05	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:35	WG974738
Manganese	0.501		0.000250	0.00500	1	05/01/2017 20:05	WG974741
Manganese,Dissolved	0.472		0.000250	0.00500	1	05/01/2017 22:35	WG974738
Potassium	1.36		0.0370	1.00	1	05/01/2017 20:05	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 20:05	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:35	WG974738
Sodium	267		0.110	1.00	1	05/01/2017 20:05	WG974741

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 21:41	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 21:41	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 21:41	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 21:41	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 21:41	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 21:41	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 21:41	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 21:41	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 21:41	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 21:41	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 21:41	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 21:41	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 21:41	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 21:41	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 21:41	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 21:41	WG976754



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 21:41	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 21:41	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 21:41	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 21:41	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 21:41	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 21:41	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 21:41	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 21:41	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 21:41	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 21:41	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 21:41	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 21:41	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 21:41	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 21:41	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 21:41	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 21:41	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 21:41	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 21:41	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 21:41	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 21:41	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 21:41	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 21:41	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 21:41	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 21:41	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 21:41	WG976754
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 21:41	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 21:41	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 21:41	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 21:41	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 21:41	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 21:41	WG976754
(S) Toluene-d8	95.7			80.0-120		05/04/2017 21:41	WG976754
(S) Dibromofluoromethane	82.4			76.0-123		05/04/2017 21:41	WG976754
(S) 4-Bromofluorobenzene	93.7			80.0-120		05/04/2017 21:41	WG976754

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.140		0.0247	0.100	1	05/01/2017 16:23	WG975178
(S) o-Terphenyl	86.2			31.0-160		05/01/2017 16:23	WG975178



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1130		2.82	10.0	1	05/01/2017 09:04	WG974890

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:55	WG974946

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	230		5.19	100	100	04/29/2017 11:57	WG974576
Fluoride	1.57		0.00990	0.100	1	04/29/2017 11:42	WG974576
Sulfate	0.475	J	0.0774	5.00	1	04/29/2017 11:42	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0157		0.000250	0.00200	1	05/01/2017 20:08	WG974741
Arsenic,Dissolved	0.0115		0.000250	0.00200	1	05/01/2017 22:39	WG974738
Barium	3.82		0.000360	0.00500	1	05/01/2017 20:08	WG974741
Barium,Dissolved	3.39		0.000360	0.00500	1	05/01/2017 22:39	WG974738
Calcium	134		0.0460	1.00	1	05/01/2017 20:08	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:08	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:39	WG974738
Iron	5.21		0.0150	0.100	1	05/01/2017 20:08	WG974741
Iron,Dissolved	0.281		0.0150	0.100	1	05/01/2017 22:39	WG974738
Lead	0.000971	J	0.000240	0.00200	1	05/01/2017 20:08	WG974741
Lead,Dissolved	0.000478	J	0.000240	0.00200	1	05/01/2017 22:39	WG974738
Manganese	0.157		0.000250	0.00500	1	05/01/2017 20:08	WG974741
Manganese,Dissolved	0.145		0.000250	0.00500	1	05/01/2017 22:39	WG974738
Potassium	0.521	J	0.0370	1.00	1	05/01/2017 20:08	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 20:08	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:39	WG974738
Sodium	131		0.110	1.00	1	05/01/2017 20:08	WG974741

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.500	2.50	50	05/04/2017 23:24	WG976754
Benzene	4.95		0.0166	0.0500	50	05/04/2017 23:24	WG976754
Bromodichloromethane	U		0.0190	0.0500	50	05/04/2017 23:24	WG976754
Bromoform	U		0.0234	0.0500	50	05/04/2017 23:24	WG976754
Bromomethane	U		0.0433	0.250	50	05/04/2017 23:24	WG976754
n-Butylbenzene	U		0.0180	0.0500	50	05/04/2017 23:24	WG976754
sec-Butylbenzene	U		0.0182	0.0500	50	05/04/2017 23:24	WG976754
Carbon disulfide	U		0.0138	0.0500	50	05/04/2017 23:24	WG976754
Carbon tetrachloride	U		0.0190	0.0500	50	05/04/2017 23:24	WG976754
Chlorobenzene	U		0.0174	0.0500	50	05/04/2017 23:24	WG976754
Chlorodibromomethane	U		0.0164	0.0500	50	05/04/2017 23:24	WG976754
Chloroethane	U		0.0226	0.250	50	05/04/2017 23:24	WG976754
Chloroform	0.0172	J	0.0162	0.250	50	05/04/2017 23:24	WG976754
Chloromethane	U		0.0138	0.125	50	05/04/2017 23:24	WG976754
1,2-Dibromoethane	U		0.0190	0.0500	50	05/04/2017 23:24	WG976754
1,1-Dichloroethane	U		0.0130	0.0500	50	05/04/2017 23:24	WG976754



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0180	0.0500	50	05/04/2017 23:24	WG976754
1,1-Dichloroethene	U		0.0199	0.0500	50	05/04/2017 23:24	WG976754
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/04/2017 23:24	WG976754
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/04/2017 23:24	WG976754
1,2-Dichloropropane	U		0.0153	0.0500	50	05/04/2017 23:24	WG976754
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/04/2017 23:24	WG976754
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/04/2017 23:24	WG976754
Ethylbenzene	0.505		0.0192	0.0500	50	05/04/2017 23:24	WG976754
Isopropylbenzene	0.0486	L	0.0163	0.0500	50	05/04/2017 23:24	WG976754
p-Isopropyltoluene	U		0.0175	0.0500	50	05/04/2017 23:24	WG976754
2-Butanone (MEK)	U		0.196	0.500	50	05/04/2017 23:24	WG976754
2-Hexanone	U		0.191	0.500	50	05/04/2017 23:24	WG976754
Methylene Chloride	U		0.0500	0.250	50	05/04/2017 23:24	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/04/2017 23:24	WG976754
Methyl tert-butyl ether	3.65		0.0184	0.0500	50	05/04/2017 23:24	WG976754
Naphthalene	0.156	L	0.0500	0.250	50	05/04/2017 23:24	WG976754
n-Propylbenzene	0.0714		0.0174	0.0500	50	05/04/2017 23:24	WG976754
Styrene	U		0.0154	0.0500	50	05/04/2017 23:24	WG976754
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/04/2017 23:24	WG976754
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/04/2017 23:24	WG976754
Tetrachloroethene	U		0.0186	0.0500	50	05/04/2017 23:24	WG976754
Toluene	0.0605		0.0206	0.0500	50	05/04/2017 23:24	WG976754
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/04/2017 23:24	WG976754
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/04/2017 23:24	WG976754
Trichloroethene	U		0.0199	0.0500	50	05/04/2017 23:24	WG976754
1,2,4-Trimethylbenzene	0.360		0.0186	0.0500	50	05/04/2017 23:24	WG976754
1,3,5-Trimethylbenzene	0.0907		0.0194	0.0500	50	05/04/2017 23:24	WG976754
Vinyl chloride	U		0.0130	0.0500	50	05/04/2017 23:24	WG976754
o-Xylene	0.198		0.0170	0.0500	50	05/04/2017 23:24	WG976754
m&p-Xylene	0.716		0.0360	0.100	50	05/04/2017 23:24	WG976754
Xylenes, Total	0.914		0.0530	0.150	50	05/04/2017 23:24	WG976754
(S) Toluene-d8	95.3			80.0-120		05/04/2017 23:24	WG976754
(S) Dibromofluoromethane	80.7			76.0-123		05/04/2017 23:24	WG976754
(S) 4-Bromofluorobenzene	95.4			80.0-120		05/04/2017 23:24	WG976754

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.01		0.0247	0.100	1	05/01/2017 16:39	WG975178
(S) o-Terphenyl	94.3			31.0-160		05/01/2017 16:39	WG975178



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2550		2.82	10.0	1	05/01/2017 09:04	WG974890

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0220	J	0.0197	0.100	1	05/01/2017 16:56	WG974946

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	279		5.19	100	100	04/29/2017 12:12	WG974576
Fluoride	0.904		0.00990	0.100	1	04/29/2017 12:57	WG974576
Sulfate	1060		7.74	500	100	04/29/2017 12:12	WG974576

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00152	J	0.000250	0.00200	1	05/01/2017 20:12	WG974741
Arsenic,Dissolved	0.00326		0.000250	0.00200	1	05/01/2017 22:42	WG974738
Barium	0.0271		0.000360	0.00500	1	05/01/2017 20:12	WG974741
Barium,Dissolved	0.0234		0.000360	0.00500	1	05/01/2017 22:42	WG974738
Calcium	280		0.0460	1.00	1	05/01/2017 20:12	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:12	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:42	WG974738
Iron	0.0346	J	0.0150	0.100	1	05/01/2017 20:12	WG974741
Iron,Dissolved	0.517		0.0150	0.100	1	05/01/2017 22:42	WG974738
Lead	0.000273	J	0.000240	0.00200	1	05/01/2017 20:12	WG974741
Lead,Dissolved	0.000733	J	0.000240	0.00200	1	05/01/2017 22:42	WG974738
Manganese	0.564		0.000250	0.00500	1	05/01/2017 20:12	WG974741
Manganese,Dissolved	0.665		0.000250	0.00500	1	05/01/2017 22:42	WG974738
Potassium	0.460	J	0.0370	1.00	1	05/01/2017 20:12	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 20:12	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:42	WG974738
Sodium	286		0.110	1.00	1	05/01/2017 20:12	WG974741

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 21:56	WG976754
Benzene	0.0260		0.000331	0.00100	1	05/04/2017 21:56	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 21:56	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 21:56	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 21:56	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 21:56	WG976754
sec-Butylbenzene	0.00279		0.000365	0.00100	1	05/04/2017 21:56	WG976754
Carbon disulfide	0.000332	J	0.000275	0.00100	1	05/04/2017 21:56	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 21:56	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 21:56	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 21:56	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 21:56	WG976754
Chloroform	0.00360	J	0.000324	0.00500	1	05/04/2017 21:56	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 21:56	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 21:56	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 21:56	WG976754



Collected date/time: 04/25/17 17:15

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 21:56	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 21:56	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 21:56	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 21:56	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 21:56	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 21:56	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 21:56	WG976754
Ethylbenzene	0.00543		0.000384	0.00100	1	05/04/2017 21:56	WG976754
Isopropylbenzene	0.00816		0.000326	0.00100	1	05/04/2017 21:56	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 21:56	WG976754
2-Butanone (MEK)	0.0164		0.00393	0.0100	1	05/04/2017 21:56	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 21:56	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 21:56	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 21:56	WG976754
Methyl tert-butyl ether	0.0192		0.000367	0.00100	1	05/04/2017 21:56	WG976754
Naphthalene	0.00609		0.00100	0.00500	1	05/04/2017 21:56	WG976754
n-Propylbenzene	0.0121		0.000349	0.00100	1	05/04/2017 21:56	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 21:56	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 21:56	WG976754
1,1,2,2-Tetrachloroethane	0.000160	J	0.000130	0.00100	1	05/04/2017 21:56	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 21:56	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 21:56	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 21:56	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 21:56	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 21:56	WG976754
1,2,4-Trimethylbenzene	0.0341		0.000373	0.00100	1	05/04/2017 21:56	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 21:56	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 21:56	WG976754
o-Xylene	0.000772	J	0.000341	0.00100	1	05/04/2017 21:56	WG976754
m&p-Xylene	0.0273		0.000719	0.00200	1	05/04/2017 21:56	WG976754
Xylenes, Total	0.0281		0.00106	0.00300	1	05/04/2017 21:56	WG976754
(S) Toluene-d8	96.6			80.0-120		05/04/2017 21:56	WG976754
(S) Dibromofluoromethane	82.7			76.0-123		05/04/2017 21:56	WG976754
(S) 4-Bromofluorobenzene	77.1	J2		80.0-120		05/04/2017 21:56	WG976754

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.35		0.0247	0.100	1	05/01/2017 16:56	WG975178
(S) o-Terphenyl	97.8			31.0-160		05/01/2017 16:56	WG975178



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1550		2.82	10.0	1	05/01/2017 09:04	WG974890

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0380	J	0.0197	0.100	1	05/01/2017 16:57	WG974946

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:33	WG974960

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	280		5.19	100	100	04/29/2017 15:11	WG974576
Fluoride	1.40		0.00990	0.100	1	04/28/2017 20:10	WG974576
Sulfate	106		0.387	25.0	5	04/29/2017 17:42	WG975172

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:55	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:38	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0115		0.000250	0.00200	1	05/01/2017 18:45	WG974741
Arsenic,Dissolved	0.0118		0.000250	0.00200	1	05/01/2017 20:30	WG974738
Barium	0.716		0.000360	0.00500	1	05/01/2017 18:45	WG974741
Barium,Dissolved	0.680		0.000360	0.00500	1	05/01/2017 20:30	WG974738
Boron	0.453		0.00150	0.0200	1	05/01/2017 18:45	WG974741
Boron,Dissolved	0.395		0.00150	0.0200	1	05/01/2017 20:30	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:45	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:30	WG974738
Calcium	229		0.0460	1.00	1	05/01/2017 18:45	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:45	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:30	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 18:45	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:30	WG974738
Iron	0.521		0.0150	0.100	1	05/01/2017 18:45	WG974741
Iron,Dissolved	0.123		0.0150	0.100	1	05/01/2017 20:30	WG974738
Lead	0.00218		0.000240	0.00200	1	05/01/2017 18:45	WG974741
Lead,Dissolved	0.00131	J	0.000240	0.00200	1	05/01/2017 23:19	WG974738
Manganese	0.333		0.000250	0.00500	1	05/01/2017 18:45	WG974741
Manganese,Dissolved	0.319		0.000250	0.00500	1	05/01/2017 20:30	WG974738
Nickel	0.000637	J	0.000350	0.00200	1	05/01/2017 18:45	WG974741
Nickel,Dissolved	0.000589	J	0.000350	0.00200	1	05/01/2017 20:30	WG974738
Potassium	0.370	J	0.0370	1.00	1	05/01/2017 18:45	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 18:45	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 20:30	WG974738
Sodium	123		0.110	1.00	1	05/01/2017 18:45	WG974741



Collected date/time: 04/25/17 16:30

L905307

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	U		0.000330	0.0100	1	05/01/2017 18:45	WG974741
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 06:54	WG974738
Vanadium	0.00233	U	0.000180	0.00500	1	05/01/2017 18:45	WG974741
Vanadium,Dissolved	0.00242	U	0.000180	0.00500	1	05/01/2017 20:30	WG974738

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		1.00	5.00	100	05/04/2017 23:39	WG976754
Benzene	3.00		0.0331	0.100	100	05/04/2017 23:39	WG976754
Bromodichloromethane	U		0.0380	0.100	100	05/04/2017 23:39	WG976754
Bromoform	U		0.0469	0.100	100	05/04/2017 23:39	WG976754
Bromomethane	U		0.0866	0.500	100	05/04/2017 23:39	WG976754
n-Butylbenzene	U		0.0361	0.100	100	05/04/2017 23:39	WG976754
sec-Butylbenzene	U		0.0365	0.100	100	05/04/2017 23:39	WG976754
Carbon disulfide	U		0.0275	0.100	100	05/04/2017 23:39	WG976754
Carbon tetrachloride	U		0.0379	0.100	100	05/04/2017 23:39	WG976754
Chlorobenzene	U		0.0348	0.100	100	05/04/2017 23:39	WG976754
Chlorodibromomethane	U		0.0327	0.100	100	05/04/2017 23:39	WG976754
Chloroethane	U		0.0453	0.500	100	05/04/2017 23:39	WG976754
Chloroform	U		0.0324	0.500	100	05/04/2017 23:39	WG976754
Chloromethane	U		0.0276	0.250	100	05/04/2017 23:39	WG976754
1,2-Dibromoethane	U		0.0381	0.100	100	05/04/2017 23:39	WG976754
1,1-Dichloroethane	U		0.0259	0.100	100	05/04/2017 23:39	WG976754
1,2-Dichloroethane	U		0.0361	0.100	100	05/04/2017 23:39	WG976754
1,1-Dichloroethene	U		0.0398	0.100	100	05/04/2017 23:39	WG976754
cis-1,2-Dichloroethene	U		0.0260	0.100	100	05/04/2017 23:39	WG976754
trans-1,2-Dichloroethene	U		0.0396	0.100	100	05/04/2017 23:39	WG976754
1,2-Dichloropropane	U		0.0306	0.100	100	05/04/2017 23:39	WG976754
cis-1,3-Dichloropropene	U		0.0418	0.100	100	05/04/2017 23:39	WG976754
trans-1,3-Dichloropropene	U		0.0419	0.100	100	05/04/2017 23:39	WG976754
Ethylbenzene	0.720		0.0384	0.100	100	05/04/2017 23:39	WG976754
Isopropylbenzene	0.0511	U	0.0326	0.100	100	05/04/2017 23:39	WG976754
p-Isopropyltoluene	U		0.0350	0.100	100	05/04/2017 23:39	WG976754
2-Butanone (MEK)	U		0.393	1.00	100	05/04/2017 23:39	WG976754
2-Hexanone	U		0.382	1.00	100	05/04/2017 23:39	WG976754
Methylene Chloride	U		0.100	0.500	100	05/04/2017 23:39	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	05/04/2017 23:39	WG976754
Methyl tert-butyl ether	U		0.0367	0.100	100	05/04/2017 23:39	WG976754
Naphthalene	0.191	U	0.100	0.500	100	05/04/2017 23:39	WG976754
n-Propylbenzene	0.0910	U	0.0349	0.100	100	05/04/2017 23:39	WG976754
Styrene	U		0.0307	0.100	100	05/04/2017 23:39	WG976754
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	05/04/2017 23:39	WG976754
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	05/04/2017 23:39	WG976754
Tetrachloroethene	U		0.0372	0.100	100	05/04/2017 23:39	WG976754
Toluene	U		0.0412	0.100	100	05/04/2017 23:39	WG976754
1,1,1-Trichloroethane	U		0.0319	0.100	100	05/04/2017 23:39	WG976754
1,1,2-Trichloroethane	U		0.0383	0.100	100	05/04/2017 23:39	WG976754
Trichloroethene	U		0.0398	0.100	100	05/04/2017 23:39	WG976754
1,2,4-Trimethylbenzene	0.517		0.0373	0.100	100	05/04/2017 23:39	WG976754
1,3,5-Trimethylbenzene	U		0.0387	0.100	100	05/04/2017 23:39	WG976754
Vinyl chloride	U		0.0259	0.100	100	05/04/2017 23:39	WG976754
o-Xylene	U		0.0341	0.100	100	05/04/2017 23:39	WG976754
m&p-Xylene	0.533		0.0719	0.200	100	05/04/2017 23:39	WG976754
Xylenes, Total	0.533		0.106	0.300	100	05/04/2017 23:39	WG976754
(S) Toluene-d8	94.5			80.0-120		05/04/2017 23:39	WG976754



Collected date/time: 04/25/17 16:30

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Dibromofluoromethane	81.8			76.0-123		05/04/2017 23:39	WG976754
(S) 4-Bromofluorobenzene	92.6			80.0-120		05/04/2017 23:39	WG976754

¹ Cp

² Tc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.23		0.0247	0.100	1	05/01/2017 17:13	WG975178
(S) o-Terphenyl	103			31.0-160		05/01/2017 17:13	WG975178

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	22300		2.82	10.0	1	05/01/2017 09:04	WG974890

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0530	J	0.0197	0.100	1	05/01/2017 16:58	WG974946

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	12000		26.0	500	500	04/29/2017 17:57	WG975172
Fluoride	1.39		0.00990	0.100	1	04/28/2017 20:25	WG974576
Sulfate	48.0		0.0774	5.00	1	04/28/2017 20:25	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00848	J	0.00500	0.0400	20	05/10/2017 14:45	WG974741
Arsenic,Dissolved	0.00797		0.000250	0.00200	1	05/01/2017 22:46	WG974738
Barium	8.12		0.00720	0.100	20	05/10/2017 14:45	WG974741
Barium,Dissolved	6.62		0.000360	0.00500	1	05/01/2017 22:46	WG974738
Calcium	306		0.920	20.0	20	05/10/2017 14:45	WG974741
Chromium	U		0.0108	0.0400	20	05/10/2017 14:45	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:46	WG974738
Iron	U		0.300	2.00	20	05/10/2017 14:45	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:46	WG974738
Lead	U		0.00480	0.0400	20	05/10/2017 14:45	WG974741
Lead,Dissolved	U		0.0240	0.200	100	05/01/2017 23:30	WG974738
Manganese	0.00689	J	0.00500	0.100	20	05/10/2017 14:45	WG974741
Manganese,Dissolved	0.00621		0.000250	0.00500	1	05/01/2017 22:46	WG974738
Potassium	3.12	J	0.740	20.0	20	05/10/2017 14:45	WG974741
Selenium	U		0.00760	0.0400	20	05/10/2017 16:11	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:46	WG974738
Sodium	10000		2.20	20.0	20	05/10/2017 14:45	WG974741

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	3.46		0.314	1.00	10	04/28/2017 18:30	WG974800
(S) a,a,a-Trifluorotoluene(FID) 98.7				77.0-122		04/28/2017 18:30	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.500	2.50	50	05/04/2017 23:54	WG976754
Benzene	1.30		0.0166	0.0500	50	05/04/2017 23:54	WG976754
Bromodichloromethane	U		0.0190	0.0500	50	05/04/2017 23:54	WG976754
Bromoform	U		0.0234	0.0500	50	05/04/2017 23:54	WG976754
Bromomethane	U		0.0433	0.250	50	05/04/2017 23:54	WG976754
n-Butylbenzene	U		0.0180	0.0500	50	05/04/2017 23:54	WG976754
sec-Butylbenzene	U		0.0182	0.0500	50	05/04/2017 23:54	WG976754
Carbon disulfide	U		0.0138	0.0500	50	05/04/2017 23:54	WG976754
Carbon tetrachloride	U		0.0190	0.0500	50	05/04/2017 23:54	WG976754



Collected date/time: 04/25/17 14:45

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.0174	0.0500	50	05/04/2017 23:54	WG976754	¹ Cp
Chlorodibromomethane	U		0.0164	0.0500	50	05/04/2017 23:54	WG976754	² Tc
Chloroethane	U		0.0226	0.250	50	05/04/2017 23:54	WG976754	
Chloroform	U		0.0162	0.250	50	05/04/2017 23:54	WG976754	³ Ss
Chloromethane	U		0.0138	0.125	50	05/04/2017 23:54	WG976754	
1,2-Dibromoethane	U		0.0190	0.0500	50	05/04/2017 23:54	WG976754	⁴ Cn
1,1-Dichloroethane	U		0.0130	0.0500	50	05/04/2017 23:54	WG976754	
1,2-Dichloroethane	U		0.0180	0.0500	50	05/04/2017 23:54	WG976754	
1,1-Dichloroethene	U		0.0199	0.0500	50	05/04/2017 23:54	WG976754	⁵ Sr
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/04/2017 23:54	WG976754	
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/04/2017 23:54	WG976754	⁶ Qc
1,2-Dichloropropane	U		0.0153	0.0500	50	05/04/2017 23:54	WG976754	
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/04/2017 23:54	WG976754	⁷ Gl
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/04/2017 23:54	WG976754	
Ethylbenzene	U		0.0192	0.0500	50	05/04/2017 23:54	WG976754	⁸ Al
Isopropylbenzene	0.0192	U	0.0163	0.0500	50	05/04/2017 23:54	WG976754	
p-Isopropyltoluene	U		0.0175	0.0500	50	05/04/2017 23:54	WG976754	
2-Butanone (MEK)	U		0.196	0.500	50	05/04/2017 23:54	WG976754	⁹ Sc
2-Hexanone	U		0.191	0.500	50	05/04/2017 23:54	WG976754	
Methylene Chloride	U		0.0500	0.250	50	05/04/2017 23:54	WG976754	
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/04/2017 23:54	WG976754	
Methyl tert-butyl ether	U		0.0184	0.0500	50	05/04/2017 23:54	WG976754	
Naphthalene	U		0.0500	0.250	50	05/04/2017 23:54	WG976754	
n-Propylbenzene	0.0295	U	0.0174	0.0500	50	05/04/2017 23:54	WG976754	
Styrene	U		0.0154	0.0500	50	05/04/2017 23:54	WG976754	
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/04/2017 23:54	WG976754	
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/04/2017 23:54	WG976754	
Tetrachloroethene	U		0.0186	0.0500	50	05/04/2017 23:54	WG976754	
Toluene	U		0.0206	0.0500	50	05/04/2017 23:54	WG976754	
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/04/2017 23:54	WG976754	
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/04/2017 23:54	WG976754	
Trichloroethene	U		0.0199	0.0500	50	05/04/2017 23:54	WG976754	
1,2,4-Trimethylbenzene	U		0.0186	0.0500	50	05/04/2017 23:54	WG976754	
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	05/04/2017 23:54	WG976754	
Vinyl chloride	U		0.0130	0.0500	50	05/04/2017 23:54	WG976754	
o-Xylene	U		0.0170	0.0500	50	05/04/2017 23:54	WG976754	
m&p-Xylene	U		0.0360	0.100	50	05/04/2017 23:54	WG976754	
Xylenes, Total	U		0.0530	0.150	50	05/04/2017 23:54	WG976754	
(S) Toluene-d8	95.9			80.0-120		05/04/2017 23:54	WG976754	
(S) Dibromofluoromethane	83.9			76.0-123		05/04/2017 23:54	WG976754	
(S) 4-Bromofluorobenzene	91.1			80.0-120		05/04/2017 23:54	WG976754	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.94		0.0247	0.100	1	05/01/2017 17:29	WG975178
(S) o-Terphenyl	86.8			31.0-160		05/01/2017 17:29	WG975178



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	986		2.82	10.0	1	05/01/2017 09:04	WG974890

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0450	J J6	0.0197	0.100	1	05/01/2017 16:59	WG974946

⁶ Qc⁷ Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	209		2.60	50.0	50	04/28/2017 21:09	WG974576
Fluoride	1.94		0.00990	0.100	1	04/28/2017 20:54	WG974576
Sulfate	217		0.387	25.0	5	04/29/2017 18:12	WG975172

⁸ Al⁹ Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0551		0.000250	0.00200	1	05/01/2017 20:19	WG974741
Arsenic,Dissolved	0.0540		0.000250	0.00200	1	05/01/2017 22:49	WG974738
Barium	0.0438		0.000360	0.00500	1	05/01/2017 20:19	WG974741
Barium,Dissolved	0.0440		0.000360	0.00500	1	05/01/2017 22:49	WG974738
Calcium	203		0.0460	1.00	1	05/01/2017 20:19	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:19	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:49	WG974738
Iron	0.0283	J	0.0150	0.100	1	05/01/2017 20:19	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:49	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 20:19	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:49	WG974738
Manganese	0.00109	J	0.000250	0.00500	1	05/01/2017 20:19	WG974741
Manganese,Dissolved	0.00112	J	0.000250	0.00500	1	05/01/2017 22:49	WG974738
Potassium	5.56		0.0370	1.00	1	05/01/2017 20:19	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 20:19	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:49	WG974738
Sodium	50.9		0.110	1.00	1	05/01/2017 20:19	WG974741

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.66		0.314	1.00	10	04/28/2017 18:51	WG974800
(S) a,a,q-Trifluorotoluene(FID) 102				77.0-122		04/28/2017 18:51	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.100	0.500	10	05/05/2017 00:09	WG976754
Benzene	0.741		0.00331	0.0100	10	05/05/2017 00:09	WG976754
Bromodichloromethane	U		0.00380	0.0100	10	05/05/2017 00:09	WG976754
Bromoform	U		0.00469	0.0100	10	05/05/2017 00:09	WG976754
Bromomethane	U		0.00866	0.0500	10	05/05/2017 00:09	WG976754
n-Butylbenzene	U		0.00361	0.0100	10	05/05/2017 00:09	WG976754
sec-Butylbenzene	0.0327		0.00365	0.0100	10	05/05/2017 00:09	WG976754
Carbon disulfide	U		0.00275	0.0100	10	05/05/2017 00:09	WG976754
Carbon tetrachloride	U		0.00379	0.0100	10	05/05/2017 00:09	WG976754



Collected date/time: 04/25/17 15:35

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00348	0.0100	10	05/05/2017 00:09	WG976754
Chlorodibromomethane	U		0.00327	0.0100	10	05/05/2017 00:09	WG976754
Chloroethane	U		0.00453	0.0500	10	05/05/2017 00:09	WG976754
Chloroform	U		0.00324	0.0500	10	05/05/2017 00:09	WG976754
Chloromethane	U		0.00276	0.0250	10	05/05/2017 00:09	WG976754
1,2-Dibromoethane	U		0.00381	0.0100	10	05/05/2017 00:09	WG976754
1,1-Dichloroethane	U		0.00259	0.0100	10	05/05/2017 00:09	WG976754
1,2-Dichloroethane	U		0.00361	0.0100	10	05/05/2017 00:09	WG976754
1,1-Dichloroethene	U		0.00398	0.0100	10	05/05/2017 00:09	WG976754
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/05/2017 00:09	WG976754
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/05/2017 00:09	WG976754
1,2-Dichloropropane	U		0.00306	0.0100	10	05/05/2017 00:09	WG976754
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/05/2017 00:09	WG976754
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/05/2017 00:09	WG976754
Ethylbenzene	0.0244		0.00384	0.0100	10	05/05/2017 00:09	WG976754
Isopropylbenzene	0.0565		0.00326	0.0100	10	05/05/2017 00:09	WG976754
p-Isopropyltoluene	U		0.00350	0.0100	10	05/05/2017 00:09	WG976754
2-Butanone (MEK)	U		0.0393	0.100	10	05/05/2017 00:09	WG976754
2-Hexanone	U		0.0382	0.100	10	05/05/2017 00:09	WG976754
Methylene Chloride	U		0.0100	0.0500	10	05/05/2017 00:09	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/05/2017 00:09	WG976754
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/05/2017 00:09	WG976754
Naphthalene	U		0.0100	0.0500	10	05/05/2017 00:09	WG976754
n-Propylbenzene	0.00933	U	0.00349	0.0100	10	05/05/2017 00:09	WG976754
Styrene	U		0.00307	0.0100	10	05/05/2017 00:09	WG976754
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/05/2017 00:09	WG976754
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/05/2017 00:09	WG976754
Tetrachloroethene	U		0.00372	0.0100	10	05/05/2017 00:09	WG976754
Toluene	U		0.00412	0.0100	10	05/05/2017 00:09	WG976754
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/05/2017 00:09	WG976754
1,1,2-Trichloroethane	0.00750	U	0.00383	0.0100	10	05/05/2017 00:09	WG976754
Trichloroethene	U		0.00398	0.0100	10	05/05/2017 00:09	WG976754
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/05/2017 00:09	WG976754
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/05/2017 00:09	WG976754
Vinyl chloride	U		0.00259	0.0100	10	05/05/2017 00:09	WG976754
o-Xylene	U		0.00341	0.0100	10	05/05/2017 00:09	WG976754
m&p-Xylene	U		0.00719	0.0200	10	05/05/2017 00:09	WG976754
Xylenes, Total	U		0.0106	0.0300	10	05/05/2017 00:09	WG976754
(S) Toluene-d8	98.2			80.0-120		05/05/2017 00:09	WG976754
(S) Dibromofluoromethane	82.1			76.0-123		05/05/2017 00:09	WG976754
(S) 4-Bromofluorobenzene	90.0			80.0-120		05/05/2017 00:09	WG976754

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.36		0.0247	0.100	1	05/01/2017 17:46	WG975178
(S) o-Terphenyl	95.2			31.0-160		05/01/2017 17:46	WG975178



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1760		2.82	10.0	1	05/01/2017 09:04	WG974890

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0400	J	0.0197	0.100	1	05/01/2017 17:01	WG974946

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	382		5.19	100	100	04/28/2017 21:24	WG974576
Fluoride	1.03		0.00990	0.100	1	04/28/2017 21:54	WG974576
Sulfate	3.93	J	0.0774	5.00	1	04/28/2017 21:54	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0346		0.000250	0.00200	1	05/01/2017 20:22	WG974741
Arsenic,Dissolved	0.0382		0.000250	0.00200	1	05/01/2017 22:53	WG974738
Barium	2.00		0.000360	0.00500	1	05/01/2017 20:22	WG974741
Barium,Dissolved	1.88		0.000360	0.00500	1	05/01/2017 22:53	WG974738
Calcium	99.7		0.0460	1.00	1	05/01/2017 20:22	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:22	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:53	WG974738
Iron	0.151		0.0150	0.100	1	05/01/2017 20:22	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:53	WG974738
Lead	0.000997	J	0.000240	0.00200	1	05/01/2017 20:22	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:53	WG974738
Manganese	0.0515		0.000250	0.00500	1	05/01/2017 20:22	WG974741
Manganese,Dissolved	0.0479		0.000250	0.00500	1	05/01/2017 22:53	WG974738
Potassium	0.774	J	0.0370	1.00	1	05/01/2017 20:22	WG974741
Selenium	0.000642	J	0.000380	0.00200	1	05/01/2017 20:22	WG974741
Selenium,Dissolved	0.000431	J	0.000380	0.00200	1	05/01/2017 22:53	WG974738
Sodium	367		0.110	1.00	1	05/01/2017 20:22	WG974741

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	109		0.785	2.50	25	04/28/2017 19:12	WG974800
(S) a,a,a-Trifluorotoluene(FID) 82.7				77.0-122		04/28/2017 19:12	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		2.50	12.5	250	05/05/2017 00:23	WG976754
Benzene	3.22		0.166	0.500	500	05/08/2017 14:46	WG976754
Bromodichloromethane	U		0.0950	0.250	250	05/05/2017 00:23	WG976754
Bromoform	U		0.117	0.250	250	05/05/2017 00:23	WG976754
Bromomethane	U		0.216	1.25	250	05/05/2017 00:23	WG976754
n-Butylbenzene	U		0.0902	0.250	250	05/05/2017 00:23	WG976754
sec-Butylbenzene	U		0.0912	0.250	250	05/05/2017 00:23	WG976754
Carbon disulfide	U		0.0688	0.250	250	05/05/2017 00:23	WG976754
Carbon tetrachloride	U		0.0948	0.250	250	05/05/2017 00:23	WG976754



Collected date/time: 04/25/17 13:00

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.0870	0.250	250	05/05/2017 00:23	WG976754	2 Tc
Chlorodibromomethane	U		0.0818	0.250	250	05/05/2017 00:23	WG976754	3 Ss
Chloroethane	U		0.113	1.25	250	05/05/2017 00:23	WG976754	4 Cn
Chloroform	U		0.0810	1.25	250	05/05/2017 00:23	WG976754	5 Sr
Chloromethane	U		0.0690	0.625	250	05/05/2017 00:23	WG976754	6 Qc
1,2-Dibromoethane	U		0.0952	0.250	250	05/05/2017 00:23	WG976754	7 Gl
1,1-Dichloroethane	U		0.0648	0.250	250	05/05/2017 00:23	WG976754	8 Al
1,2-Dichloroethane	U		0.0902	0.250	250	05/05/2017 00:23	WG976754	9 Sc
1,1-Dichloroethene	U		0.0995	0.250	250	05/05/2017 00:23	WG976754	
cis-1,2-Dichloroethene	U		0.0650	0.250	250	05/05/2017 00:23	WG976754	
trans-1,2-Dichloroethene	U		0.0990	0.250	250	05/05/2017 00:23	WG976754	
1,2-Dichloropropane	U		0.0765	0.250	250	05/05/2017 00:23	WG976754	
cis-1,3-Dichloropropene	U		0.104	0.250	250	05/05/2017 00:23	WG976754	
trans-1,3-Dichloropropene	U		0.105	0.250	250	05/05/2017 00:23	WG976754	
Ethylbenzene	3.35		0.0960	0.250	250	05/05/2017 00:23	WG976754	
Isopropylbenzene	0.0986	U	0.0815	0.250	250	05/05/2017 00:23	WG976754	
p-Isopropyltoluene	U		0.0875	0.250	250	05/05/2017 00:23	WG976754	
2-Butanone (MEK)	U		0.982	2.50	250	05/05/2017 00:23	WG976754	
2-Hexanone	U		0.955	2.50	250	05/05/2017 00:23	WG976754	
Methylene Chloride	U		0.250	1.25	250	05/05/2017 00:23	WG976754	
4-Methyl-2-pentanone (MIBK)	U		0.535	2.50	250	05/05/2017 00:23	WG976754	
Methyl tert-butyl ether	0.408		0.0918	0.250	250	05/05/2017 00:23	WG976754	
Naphthalene	U		0.250	1.25	250	05/05/2017 00:23	WG976754	
n-Propylbenzene	0.146	U	0.0872	0.250	250	05/05/2017 00:23	WG976754	
Styrene	U		0.0768	0.250	250	05/05/2017 00:23	WG976754	
1,1,1,2-Tetrachloroethane	U		0.0962	0.250	250	05/05/2017 00:23	WG976754	
1,1,2,2-Tetrachloroethane	U		0.0325	0.250	250	05/05/2017 00:23	WG976754	
Tetrachloroethene	U		0.0930	0.250	250	05/05/2017 00:23	WG976754	
Toluene	13.2		0.103	0.250	250	05/05/2017 00:23	WG976754	
1,1,1-Trichloroethane	U		0.0798	0.250	250	05/05/2017 00:23	WG976754	
1,1,2-Trichloroethane	U		0.0958	0.250	250	05/05/2017 00:23	WG976754	
Trichloroethene	U		0.0995	0.250	250	05/05/2017 00:23	WG976754	
1,2,4-Trimethylbenzene	0.793		0.0932	0.250	250	05/05/2017 00:23	WG976754	
1,3,5-Trimethylbenzene	0.163	U	0.0968	0.250	250	05/05/2017 00:23	WG976754	
Vinyl chloride	U		0.0648	0.250	250	05/05/2017 00:23	WG976754	
o-Xylene	2.09		0.0852	0.250	250	05/05/2017 00:23	WG976754	
m&p-Xylene	5.49		0.180	0.500	250	05/05/2017 00:23	WG976754	
Xylenes, Total	7.58		0.265	0.750	250	05/05/2017 00:23	WG976754	
(S) Toluene-d8	94.2			80.0-120		05/05/2017 00:23	WG976754	
(S) Toluene-d8	104			80.0-120		05/08/2017 14:46	WG976754	
(S) Dibromofluoromethane	82.3			76.0-123		05/05/2017 00:23	WG976754	
(S) Dibromofluoromethane	102			76.0-123		05/08/2017 14:46	WG976754	
(S) 4-Bromofluorobenzene	94.2			80.0-120		05/05/2017 00:23	WG976754	
(S) 4-Bromofluorobenzene	96.2			80.0-120		05/08/2017 14:46	WG976754	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.88		0.0247	0.100	1	05/01/2017 18:03	WG975178
(S) o-Terphenyl	78.6			31.0-160		05/01/2017 18:03	WG975178



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1430		2.82	10.0	1	05/01/2017 09:04	WG974890

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0330	J	0.0197	0.100	1	05/01/2017 17:02	WG974946

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	354		5.19	100	100	04/28/2017 22:09	WG974576
Fluoride	1.38		0.00990	0.100	1	04/28/2017 23:09	WG974576
Sulfate	0.822	J	0.0774	5.00	1	04/28/2017 23:09	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0108		0.000250	0.00200	1	05/01/2017 20:27	WG974741
Arsenic,Dissolved	0.0107		0.000250	0.00200	1	05/01/2017 22:56	WG974738
Barium	3.01		0.000360	0.00500	1	05/01/2017 20:27	WG974741
Barium,Dissolved	2.81		0.000360	0.00500	1	05/01/2017 22:56	WG974738
Calcium	134		0.0460	1.00	1	05/01/2017 20:27	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:27	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:56	WG974738
Iron	1.58		0.0150	0.100	1	05/01/2017 20:27	WG974741
Iron,Dissolved	0.124		0.0150	0.100	1	05/01/2017 22:56	WG974738
Lead	0.000874	J	0.000240	0.00200	1	05/01/2017 20:27	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:56	WG974738
Manganese	0.593		0.000250	0.00500	1	05/01/2017 20:27	WG974741
Manganese,Dissolved	0.547		0.000250	0.00500	1	05/01/2017 22:56	WG974738
Potassium	1.01		0.0370	1.00	1	05/01/2017 20:27	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 20:27	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:56	WG974738
Sodium	279		0.110	1.00	1	05/01/2017 20:27	WG974741

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	18.5		0.157	0.500	5	04/28/2017 19:33	WG974800
(S) a,a,a-Trifluorotoluene(FID) 89.7				77.0-122		04/28/2017 19:33	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		1.00	5.00	100	05/05/2017 00:38	WG976754
Benzene	6.70		0.0331	0.100	100	05/05/2017 00:38	WG976754
Bromodichloromethane	U		0.0380	0.100	100	05/05/2017 00:38	WG976754
Bromoform	U		0.0469	0.100	100	05/05/2017 00:38	WG976754
Bromomethane	U		0.0866	0.500	100	05/05/2017 00:38	WG976754
n-Butylbenzene	U		0.0361	0.100	100	05/05/2017 00:38	WG976754
sec-Butylbenzene	U		0.0365	0.100	100	05/05/2017 00:38	WG976754
Carbon disulfide	U		0.0275	0.100	100	05/05/2017 00:38	WG976754
Carbon tetrachloride	U		0.0379	0.100	100	05/05/2017 00:38	WG976754



Collected date/time: 04/25/17 13:50

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.0348	0.100	100	05/05/2017 00:38	WG976754	¹ Cp
Chlorodibromomethane	U		0.0327	0.100	100	05/05/2017 00:38	WG976754	² Tc
Chloroethane	U		0.0453	0.500	100	05/05/2017 00:38	WG976754	
Chloroform	U		0.0324	0.500	100	05/05/2017 00:38	WG976754	³ Ss
Chloromethane	U		0.0276	0.250	100	05/05/2017 00:38	WG976754	
1,2-Dibromoethane	U		0.0381	0.100	100	05/05/2017 00:38	WG976754	⁴ Cn
1,1-Dichloroethane	U		0.0259	0.100	100	05/05/2017 00:38	WG976754	
1,2-Dichloroethane	U		0.0361	0.100	100	05/05/2017 00:38	WG976754	
1,1-Dichloroethene	U		0.0398	0.100	100	05/05/2017 00:38	WG976754	⁵ Sr
cis-1,2-Dichloroethene	U		0.0260	0.100	100	05/05/2017 00:38	WG976754	
trans-1,2-Dichloroethene	U		0.0396	0.100	100	05/05/2017 00:38	WG976754	⁶ Qc
1,2-Dichloropropane	U		0.0306	0.100	100	05/05/2017 00:38	WG976754	
cis-1,3-Dichloropropene	U		0.0418	0.100	100	05/05/2017 00:38	WG976754	⁷ Gl
trans-1,3-Dichloropropene	U		0.0419	0.100	100	05/05/2017 00:38	WG976754	
Ethylbenzene	0.0768	L	0.0384	0.100	100	05/05/2017 00:38	WG976754	⁸ Al
Isopropylbenzene	0.0479	L	0.0326	0.100	100	05/05/2017 00:38	WG976754	
p-Isopropyltoluene	U		0.0350	0.100	100	05/05/2017 00:38	WG976754	⁹ Sc
2-Butanone (MEK)	U		0.393	1.00	100	05/05/2017 00:38	WG976754	
2-Hexanone	U		0.382	1.00	100	05/05/2017 00:38	WG976754	
Methylene Chloride	U		0.100	0.500	100	05/05/2017 00:38	WG976754	
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	05/05/2017 00:38	WG976754	
Methyl tert-butyl ether	2.27		0.0367	0.100	100	05/05/2017 00:38	WG976754	
Naphthalene	0.205	L	0.100	0.500	100	05/05/2017 00:38	WG976754	
n-Propylbenzene	0.0493	L	0.0349	0.100	100	05/05/2017 00:38	WG976754	
Styrene	U		0.0307	0.100	100	05/05/2017 00:38	WG976754	
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	05/05/2017 00:38	WG976754	
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	05/05/2017 00:38	WG976754	
Tetrachloroethene	U		0.0372	0.100	100	05/05/2017 00:38	WG976754	
Toluene	U		0.0412	0.100	100	05/05/2017 00:38	WG976754	
1,1,1-Trichloroethane	U		0.0319	0.100	100	05/05/2017 00:38	WG976754	
1,1,2-Trichloroethane	U		0.0383	0.100	100	05/05/2017 00:38	WG976754	
Trichloroethene	U		0.0398	0.100	100	05/05/2017 00:38	WG976754	
1,2,4-Trimethylbenzene	U		0.0373	0.100	100	05/05/2017 00:38	WG976754	
1,3,5-Trimethylbenzene	U		0.0387	0.100	100	05/05/2017 00:38	WG976754	
Vinyl chloride	U		0.0259	0.100	100	05/05/2017 00:38	WG976754	
o-Xylene	U		0.0341	0.100	100	05/05/2017 00:38	WG976754	
m&p-Xylene	0.0736	L	0.0719	0.200	100	05/05/2017 00:38	WG976754	
Xylenes, Total	U		0.106	0.300	100	05/05/2017 00:38	WG976754	
(S) Toluene-d8	93.3			80.0-120		05/05/2017 00:38	WG976754	
(S) Dibromofluoromethane	79.0			76.0-123		05/05/2017 00:38	WG976754	
(S) 4-Bromofluorobenzene	93.1			80.0-120		05/05/2017 00:38	WG976754	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8.30		0.0247	0.100	1	05/01/2017 18:20	WG975178
(S) o-Terphenyl	111			31.0-160		05/01/2017 18:20	WG975178



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2270		2.82	10.0	1	04/29/2017 13:05	WG974898

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	16.3		0.197	1.00	10	05/03/2017 14:38	WG975894

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:35	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	78.9		0.0519	1.00	1	05/02/2017 15:29	WG975534
Fluoride	1.67		0.00990	0.100	1	04/28/2017 23:24	WG974576
Sulfate	1060		7.74	500	100	04/28/2017 22:24	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:57	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:44	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00197	J	0.000250	0.00200	1	05/01/2017 18:49	WG974741
Arsenic,Dissolved	0.00206		0.000250	0.00200	1	05/01/2017 20:37	WG974738
Barium	0.0154		0.000360	0.00500	1	05/01/2017 18:49	WG974741
Barium,Dissolved	0.0137		0.000360	0.00500	1	05/01/2017 20:37	WG974738
Boron	0.303		0.00150	0.0200	1	05/01/2017 18:49	WG974741
Boron,Dissolved	0.265		0.00150	0.0200	1	05/01/2017 20:37	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:49	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:37	WG974738
Calcium	342		0.0460	1.00	1	05/01/2017 18:49	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:49	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:37	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 18:49	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:37	WG974738
Iron	0.0172	J	0.0150	0.100	1	05/01/2017 18:49	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:37	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:49	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 20:37	WG974738
Manganese	0.0154		0.000250	0.00500	1	05/01/2017 18:49	WG974741
Manganese,Dissolved	0.00390	J	0.000250	0.00500	1	05/01/2017 20:37	WG974738
Nickel	0.00271		0.000350	0.00200	1	05/01/2017 18:49	WG974741
Nickel,Dissolved	0.00342		0.000350	0.00200	1	05/01/2017 20:37	WG974738
Potassium	1.60		0.0370	1.00	1	05/01/2017 18:49	WG974741
Selenium	0.00572		0.000380	0.00200	1	05/01/2017 18:49	WG974741
Selenium,Dissolved	0.00522		0.000380	0.00200	1	05/01/2017 20:37	WG974738
Sodium	94.0		0.110	1.00	1	05/01/2017 18:49	WG974741



Collected date/time: 04/25/17 12:10

L905307

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0153		0.000330	0.0100	1	05/01/2017 18:49	WG974741
Uranium,Dissolved	0.0155		0.000330	0.0100	1	05/02/2017 06:58	WG974738
Vanadium	0.0154		0.000180	0.00500	1	05/01/2017 18:49	WG974741
Vanadium,Dissolved	0.0159		0.000180	0.00500	1	05/01/2017 20:37	WG974738

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 19:54	WG974800
(S) <i>a,a,a</i> -Trifluorotoluene(FID) 103				77.0-122		04/28/2017 19:54	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 22:11	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 22:11	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 22:11	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 22:11	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 22:11	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 22:11	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 22:11	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 22:11	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 22:11	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 22:11	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 22:11	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 22:11	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 22:11	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 22:11	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 22:11	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 22:11	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 22:11	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 22:11	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 22:11	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 22:11	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 22:11	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 22:11	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 22:11	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 22:11	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 22:11	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 22:11	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 22:11	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 22:11	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 22:11	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 22:11	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 22:11	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 22:11	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 22:11	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 22:11	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 22:11	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 22:11	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 22:11	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 22:11	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 22:11	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 22:11	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 22:11	WG976754

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Collected date/time: 04/25/17 12:10

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 22:11	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 22:11	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 22:11	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 22:11	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 22:11	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 22:11	WG976754
(S) Toluene-d8	94.6			80.0-120		05/04/2017 22:11	WG976754
(S) Dibromofluoromethane	81.9			76.0-123		05/04/2017 22:11	WG976754
(S) 4-Bromofluorobenzene	92.5			80.0-120		05/04/2017 22:11	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0818	J	0.0247	0.100	1	05/01/2017 18:37	WG975178
(S) o-Terphenyl	85.3			31.0-160		05/01/2017 18:37	WG975178

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2140		2.82	10.0	1	04/29/2017 13:05	WG974898

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.60		0.197	1.00	10	05/03/2017 14:40	WG975894

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U	J5	0.00180	0.00500	1	05/02/2017 09:36	WG974960

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	61.1		0.0519	1.00	1	04/29/2017 10:13	WG974576
Fluoride	0.707		0.00990	0.100	1	04/29/2017 10:13	WG974576
Sulfate	1310		7.74	500	100	04/29/2017 10:28	WG974576

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	04/28/2017 16:00	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:47	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00161	J	0.000250	0.00200	1	05/01/2017 18:52	WG974741
Arsenic,Dissolved	0.00165	J	0.000250	0.00200	1	05/01/2017 20:40	WG974738
Barium	0.0185		0.000360	0.00500	1	05/01/2017 18:52	WG974741
Barium,Dissolved	0.0167		0.000360	0.00500	1	05/01/2017 20:40	WG974738
Boron	0.256		0.00150	0.0200	1	05/01/2017 18:52	WG974741
Boron,Dissolved	0.219		0.00150	0.0200	1	05/01/2017 20:40	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:52	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:40	WG974738
Calcium	393		0.0460	1.00	1	05/01/2017 18:52	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:52	WG974741
Chromium,Dissolved	0.000573	J	0.000540	0.00200	1	05/01/2017 20:40	WG974738
Cobalt	0.000465	J	0.000260	0.00200	1	05/01/2017 18:52	WG974741
Cobalt,Dissolved	0.000421	J	0.000260	0.00200	1	05/01/2017 20:40	WG974738
Iron	0.0316	J	0.0150	0.100	1	05/01/2017 18:52	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:40	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:52	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 23:23	WG974738
Manganese	0.00182	J	0.000250	0.00500	1	05/01/2017 18:52	WG974741
Manganese,Dissolved	0.00217	J	0.000250	0.00500	1	05/01/2017 20:40	WG974738
Nickel	0.00225		0.000350	0.00200	1	05/01/2017 18:52	WG974741
Nickel,Dissolved	0.00316		0.000350	0.00200	1	05/01/2017 20:40	WG974738
Potassium	1.74		0.0370	1.00	1	05/01/2017 18:52	WG974741
Selenium	0.00325		0.000380	0.00200	1	05/01/2017 18:52	WG974741
Selenium,Dissolved	0.00371		0.000380	0.00200	1	05/01/2017 20:40	WG974738
Sodium	70.7		0.110	1.00	1	05/01/2017 18:52	WG974741



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0129		0.000330	0.0100	1	05/01/2017 18:52	WG974741
Uranium,Dissolved	0.0132		0.000330	0.0100	1	05/02/2017 07:02	WG974738
Vanadium	0.00961		0.000180	0.00500	1	05/01/2017 18:52	WG974741
Vanadium,Dissolved	0.00992		0.000180	0.00500	1	05/01/2017 20:40	WG974738

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 20:15	WG974800
(S) a,a,a-Trifluorotoluene(FID) 103				77.0-122		04/28/2017 20:15	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 22:25	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 22:25	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 22:25	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 22:25	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 22:25	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 22:25	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 22:25	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 22:25	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 22:25	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 22:25	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 22:25	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 22:25	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 22:25	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 22:25	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 22:25	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 22:25	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 22:25	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 22:25	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 22:25	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 22:25	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 22:25	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 22:25	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 22:25	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 22:25	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 22:25	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 22:25	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 22:25	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 22:25	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 22:25	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 22:25	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 22:25	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 22:25	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 22:25	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 22:25	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 22:25	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 22:25	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 22:25	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 22:25	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 22:25	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 22:25	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 22:25	WG976754

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 22:25	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 22:25	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 22:25	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 22:25	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 22:25	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 22:25	WG976754
(S) Toluene-d8	94.1			80.0-120		05/04/2017 22:25	WG976754
(S) Dibromofluoromethane	82.5			76.0-123		05/04/2017 22:25	WG976754
(S) 4-Bromofluorobenzene	93.0			80.0-120		05/04/2017 22:25	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0517	J	0.0247	0.100	1	05/01/2017 18:54	WG975178
(S) o-Terphenyl	85.3			31.0-160		05/01/2017 18:54	WG975178

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3390		2.82	10.0	1	04/29/2017 13:05	WG974898

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	15.0		0.197	1.00	10	05/03/2017 14:41	WG975894

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:41	WG974960

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	178		5.19	100	100	04/29/2017 13:27	WG974576
Fluoride	0.928		0.00990	0.100	1	04/29/2017 13:12	WG974576
Sulfate	1830		7.74	500	100	04/29/2017 13:27	WG974576

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	04/29/2017 07:31	WG974554
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:49	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00106	J	0.000250	0.00200	1	05/01/2017 18:56	WG974741
Arsenic,Dissolved	0.00113	J	0.000250	0.00200	1	05/01/2017 20:44	WG974738
Barium	0.0135		0.000360	0.00500	1	05/01/2017 18:56	WG974741
Barium,Dissolved	0.0118		0.000360	0.00500	1	05/01/2017 20:44	WG974738
Boron	0.548		0.00150	0.0200	1	05/01/2017 18:56	WG974741
Boron,Dissolved	0.502		0.00150	0.0200	1	05/01/2017 20:44	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:56	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:44	WG974738
Calcium	471		0.0460	1.00	1	05/01/2017 18:56	WG974741
Chromium	0.000572	J	0.000540	0.00200	1	05/01/2017 18:56	WG974741
Chromium,Dissolved	0.000688	J	0.000540	0.00200	1	05/01/2017 20:44	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 18:56	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:44	WG974738
Iron	0.0561	J	0.0150	0.100	1	05/01/2017 18:56	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:44	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:56	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 23:26	WG974738
Manganese	0.00689		0.000250	0.00500	1	05/01/2017 18:56	WG974741
Manganese,Dissolved	0.00476	J	0.000250	0.00500	1	05/01/2017 20:44	WG974738
Nickel	0.00145	J	0.000350	0.00200	1	05/01/2017 18:56	WG974741
Nickel,Dissolved	0.00225		0.000350	0.00200	1	05/01/2017 20:44	WG974738
Potassium	1.14		0.0370	1.00	1	05/01/2017 18:56	WG974741
Selenium	0.0100		0.000380	0.00200	1	05/01/2017 18:56	WG974741
Selenium,Dissolved	0.00938		0.000380	0.00200	1	05/01/2017 20:44	WG974738
Sodium	99.1		0.110	1.00	1	05/01/2017 18:56	WG974741



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Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0262		0.000330	0.0100	1	05/01/2017 18:56	WG974741
Uranium,Dissolved	0.0273		0.000330	0.0100	1	05/02/2017 07:05	WG974738
Vanadium	0.0118		0.000180	0.00500	1	05/01/2017 18:56	WG974741
Vanadium,Dissolved	0.0120		0.000180	0.00500	1	05/01/2017 20:44	WG974738

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 20:36	WG974800
(S) a,a,a-Trifluorotoluene(FID) 103				77.0-122		04/28/2017 20:36	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 22:40	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 22:40	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 22:40	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 22:40	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 22:40	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 22:40	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 22:40	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 22:40	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 22:40	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 22:40	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 22:40	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 22:40	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 22:40	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 22:40	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 22:40	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 22:40	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 22:40	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 22:40	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 22:40	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 22:40	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 22:40	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 22:40	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 22:40	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 22:40	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 22:40	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 22:40	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 22:40	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 22:40	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 22:40	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 22:40	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 22:40	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 22:40	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 22:40	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 22:40	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 22:40	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 22:40	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 22:40	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 22:40	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 22:40	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 22:40	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 22:40	WG976754



Collected date/time: 04/25/17 11:20

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 22:40	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 22:40	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 22:40	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 22:40	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 22:40	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 22:40	WG976754
(S) Toluene-d8	95.6			80.0-120		05/04/2017 22:40	WG976754
(S) Dibromofluoromethane	81.5			76.0-123		05/04/2017 22:40	WG976754
(S) 4-Bromofluorobenzene	92.5			80.0-120		05/04/2017 22:40	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0484	J	0.0247	0.100	1	05/01/2017 19:11	WG975178
(S) o-Terphenyl	84.9			31.0-160		05/01/2017 19:11	WG975178

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4350		2.82	10.0	1	04/29/2017 13:05	WG974898

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.547	J	0.197	1.00	10	05/03/2017 14:42	WG975894

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:42	WG974960

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	154		5.19	100	100	04/29/2017 14:56	WG974576
Fluoride	0.666		0.00990	0.100	1	04/29/2017 14:11	WG974576
Sulfate	2750		7.74	500	100	04/29/2017 14:56	WG974576

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	04/29/2017 07:33	WG974554
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:51	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00111	J	0.000250	0.00200	1	05/01/2017 17:47	WG974741
Arsenic,Dissolved	0.00103	J	0.000250	0.00200	1	05/01/2017 19:40	WG974738
Barium	0.0164		0.000360	0.00500	1	05/01/2017 17:47	WG974741
Barium,Dissolved	0.0149		0.000360	0.00500	1	05/01/2017 19:40	WG974738
Boron	1.06		0.00300	0.0400	2	05/01/2017 19:23	WG974741
Boron,Dissolved	0.958	O1 V	0.00150	0.0200	1	05/01/2017 19:40	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 17:47	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 19:40	WG974738
Calcium	594	V	0.0460	1.00	1	05/01/2017 17:47	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 17:47	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 19:40	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 17:47	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 19:40	WG974738
Iron	0.0249	J	0.0150	0.100	1	05/01/2017 17:47	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 19:40	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 17:47	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 19:40	WG974738
Manganese	0.00935		0.000250	0.00500	1	05/01/2017 17:47	WG974741
Manganese,Dissolved	0.00620		0.000250	0.00500	1	05/01/2017 19:40	WG974738
Nickel	0.00143	J	0.000350	0.00200	1	05/01/2017 17:47	WG974741
Nickel,Dissolved	0.00255		0.000350	0.00200	1	05/01/2017 19:40	WG974738
Potassium	1.87		0.0370	1.00	1	05/01/2017 17:47	WG974741
Selenium	0.0143		0.000380	0.00200	1	05/01/2017 17:47	WG974741
Selenium,Dissolved	0.0142		0.000380	0.00200	1	05/01/2017 19:40	WG974738
Sodium	202	V	0.110	1.00	1	05/01/2017 17:47	WG974741



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0361		0.000330	0.0100	1	05/01/2017 17:47	WG974741
Uranium,Dissolved	0.0373		0.000330	0.0100	1	05/02/2017 06:11	WG974738
Vanadium	0.00739		0.000180	0.00500	1	05/01/2017 17:47	WG974741
Vanadium,Dissolved	0.00736		0.000180	0.00500	1	05/01/2017 19:40	WG974738

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 20:57	WG974800
(S) <i>a,a,a</i> -Trifluorotoluene(FID) 103				77.0-122		04/28/2017 20:57	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 22:55	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 22:55	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 22:55	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 22:55	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 22:55	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 22:55	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 22:55	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 22:55	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 22:55	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 22:55	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 22:55	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 22:55	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 22:55	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 22:55	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 22:55	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 22:55	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 22:55	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 22:55	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 22:55	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 22:55	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 22:55	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 22:55	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 22:55	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 22:55	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 22:55	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 22:55	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 22:55	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 22:55	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 22:55	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 22:55	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 22:55	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 22:55	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 22:55	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 22:55	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 22:55	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 22:55	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 22:55	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 22:55	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 22:55	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 22:55	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 22:55	WG976754



Collected date/time: 04/25/17 10:25

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 22:55	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 22:55	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 22:55	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 22:55	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 22:55	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 22:55	WG976754
(S) Toluene-d8	95.6			80.0-120		05/04/2017 22:55	WG976754
(S) Dibromofluoromethane	82.4			76.0-123		05/04/2017 22:55	WG976754
(S) 4-Bromofluorobenzene	91.9			80.0-120		05/04/2017 22:55	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0463	J	0.0247	0.100	1	05/01/2017 19:28	WG975178
(S) o-Terphenyl	83.2			31.0-160		05/01/2017 19:28	WG975178

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3530		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 14:47	WG975894

Sample Narrative:

353.2 L905307-21 WG975894: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	0.0802		0.00360	0.0100	2	05/02/2017 10:16	WG974960

Wet Chemistry by Method 9056A

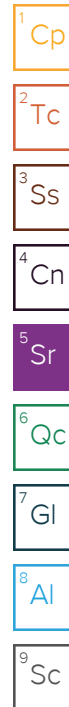
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	687		5.19	100	100	04/29/2017 02:23	WG974576
Fluoride	2.10		0.00990	0.100	1	04/29/2017 01:53	WG974576
Sulfate	450	J	7.74	500	100	05/02/2017 16:04	WG975534

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/29/2017 07:35	WG974554
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:53	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00987		0.000250	0.00200	1	05/04/2017 16:59	WG974743
Arsenic,Dissolved	0.0107		0.000250	0.00200	1	05/02/2017 02:57	WG974740
Barium	0.100		0.000360	0.00500	1	05/04/2017 16:59	WG974743
Barium,Dissolved	0.0928		0.000360	0.00500	1	05/02/2017 02:57	WG974740
Boron	1.21		0.00150	0.0200	1	05/03/2017 21:53	WG974743
Boron,Dissolved	1.20		0.00300	0.0400	2	05/02/2017 14:03	WG974740
Cadmium	U		0.000160	0.00100	1	05/04/2017 16:59	WG974743
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 02:57	WG974740
Calcium	180		0.0460	1.00	1	05/04/2017 16:59	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 16:59	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:57	WG974740
Cobalt	U		0.000260	0.00200	1	05/04/2017 16:59	WG974743
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 02:57	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 16:59	WG974743
Iron,Dissolved	0.0170	J	0.0150	0.100	1	05/02/2017 02:57	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 16:59	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:57	WG974740
Manganese	0.175		0.000250	0.00500	1	05/04/2017 16:59	WG974743
Manganese,Dissolved	0.191		0.000250	0.00500	1	05/02/2017 02:57	WG974740
Nickel	0.00534		0.000350	0.00200	1	05/04/2017 16:59	WG974743
Nickel,Dissolved	0.00955		0.000350	0.00200	1	05/02/2017 02:57	WG974740
Potassium	0.905	J	0.0370	1.00	1	05/04/2017 16:59	WG974743





Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	0.00413	B	0.000380	0.00200	1	05/04/2017 16:59	WG974743
Selenium,Dissolved	0.00152	J	0.000380	0.00200	1	05/02/2017 02:57	WG974740
Sodium	559		0.110	1.00	1	05/04/2017 16:59	WG974743
Uranium	U		0.000330	0.0100	1	05/04/2017 16:59	WG974743
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 02:57	WG974740
Vanadium	0.00200	J	0.000180	0.00500	1	05/04/2017 16:59	WG974743
Vanadium,Dissolved	0.00185	B J	0.000180	0.00500	1	05/02/2017 02:57	WG974740

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	29.6		1.57	5.00	50	04/28/2017 21:18	WG974800
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-122		04/28/2017 21:18	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.500	2.50	50	04/30/2017 02:04	WG975213
Benzene	9.62		0.0662	0.200	200	05/02/2017 20:04	WG975213
Bromodichloromethane	U		0.0190	0.0500	50	04/30/2017 02:04	WG975213
Bromoform	U		0.0234	0.0500	50	04/30/2017 02:04	WG975213
Bromomethane	U		0.0433	0.250	50	04/30/2017 02:04	WG975213
n-Butylbenzene	U		0.0180	0.0500	50	04/30/2017 02:04	WG975213
sec-Butylbenzene	U		0.0182	0.0500	50	04/30/2017 02:04	WG975213
Carbon disulfide	U		0.0138	0.0500	50	04/30/2017 02:04	WG975213
Carbon tetrachloride	U		0.0190	0.0500	50	04/30/2017 02:04	WG975213
Chlorobenzene	U		0.0174	0.0500	50	04/30/2017 02:04	WG975213
Chlorodibromomethane	U		0.0164	0.0500	50	04/30/2017 02:04	WG975213
Chloroethane	U		0.0226	0.250	50	04/30/2017 02:04	WG975213
Chloroform	U		0.0162	0.250	50	04/30/2017 02:04	WG975213
Chloromethane	U		0.0138	0.125	50	04/30/2017 02:04	WG975213
1,2-Dibromoethane	U		0.0190	0.0500	50	04/30/2017 02:04	WG975213
1,1-Dichloroethane	U		0.0130	0.0500	50	04/30/2017 02:04	WG975213
1,2-Dichloroethane	U		0.0180	0.0500	50	04/30/2017 02:04	WG975213
1,1-Dichloroethene	U		0.0199	0.0500	50	04/30/2017 02:04	WG975213
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	04/30/2017 02:04	WG975213
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	04/30/2017 02:04	WG975213
1,2-Dichloropropane	U		0.0153	0.0500	50	04/30/2017 02:04	WG975213
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	04/30/2017 02:04	WG975213
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	04/30/2017 02:04	WG975213
Ethylbenzene	0.445		0.0192	0.0500	50	04/30/2017 02:04	WG975213
Isopropylbenzene	0.0668		0.0163	0.0500	50	04/30/2017 02:04	WG975213
p-Isopropyltoluene	U		0.0175	0.0500	50	04/30/2017 02:04	WG975213
2-Butanone (MEK)	U		0.196	0.500	50	04/30/2017 02:04	WG975213
2-Hexanone	U		0.191	0.500	50	04/30/2017 02:04	WG975213
Methylene Chloride	U		0.0500	0.250	50	04/30/2017 02:04	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	04/30/2017 02:04	WG975213
Methyl tert-butyl ether	0.0484	J	0.0184	0.0500	50	04/30/2017 02:04	WG975213
Naphthalene	0.163	J	0.0500	0.250	50	04/30/2017 02:04	WG975213
n-Propylbenzene	0.112		0.0174	0.0500	50	04/30/2017 02:04	WG975213
Styrene	U		0.0154	0.0500	50	04/30/2017 02:04	WG975213
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	04/30/2017 02:04	WG975213
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	04/30/2017 02:04	WG975213
Tetrachloroethene	U		0.0186	0.0500	50	04/30/2017 02:04	WG975213
Toluene	0.519		0.0206	0.0500	50	04/30/2017 02:04	WG975213



Collected date/time: 04/25/17 11:25

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.0160	0.0500	50	04/30/2017 02:04	WG975213
1,1,2-Trichloroethane	U		0.0192	0.0500	50	04/30/2017 02:04	WG975213
Trichloroethene	U		0.0199	0.0500	50	04/30/2017 02:04	WG975213
1,2,4-Trimethylbenzene	0.497		0.0186	0.0500	50	04/30/2017 02:04	WG975213
1,3,5-Trimethylbenzene	0.108		0.0194	0.0500	50	04/30/2017 02:04	WG975213
Vinyl chloride	U		0.0130	0.0500	50	04/30/2017 02:04	WG975213
o-Xylene	0.539		0.0170	0.0500	50	04/30/2017 02:04	WG975213
m&p-Xylene	1.26		0.0360	0.100	50	04/30/2017 02:04	WG975213
Xylenes, Total	1.80		0.0530	0.150	50	04/30/2017 02:04	WG975213
(S) Toluene-d8	105			80.0-120		04/30/2017 02:04	WG975213
(S) Toluene-d8	106			80.0-120		05/02/2017 20:04	WG975213
(S) Dibromofluoromethane	99.4			76.0-123		05/02/2017 20:04	WG975213
(S) Dibromofluoromethane	100			76.0-123		04/30/2017 02:04	WG975213
(S) 4-Bromofluorobenzene	99.2			80.0-120		04/30/2017 02:04	WG975213
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 20:04	WG975213

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.53		0.0247	0.100	1	05/01/2017 19:45	WG975178
(S) o-Terphenyl	91.6			31.0-160		05/01/2017 19:45	WG975178



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4230		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 14:48	WG975894

Sample Narrative:

353.2 L905307-22 WG975894: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	0.116		0.0180	0.0500	10	05/02/2017 10:18	WG974960

Wet Chemistry by Method 9056A

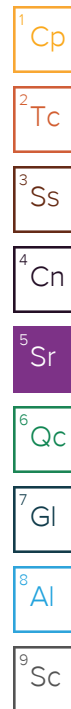
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	478		5.19	100	100	04/28/2017 23:53	WG974576
Fluoride	1.54		0.00990	0.100	1	04/28/2017 23:39	WG974576
Sulfate	1050		7.74	500	100	04/28/2017 23:53	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/29/2017 07:42	WG974554
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:56	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0496		0.000250	0.00200	1	05/04/2017 17:02	WG974743
Arsenic,Dissolved	0.0520		0.000250	0.00200	1	05/02/2017 03:01	WG974740
Barium	0.0564		0.000360	0.00500	1	05/04/2017 17:02	WG974743
Barium,Dissolved	0.0518		0.000360	0.00500	1	05/02/2017 03:01	WG974740
Boron	0.752		0.00150	0.0200	1	05/03/2017 21:56	WG974743
Boron,Dissolved	0.700		0.00150	0.0200	1	05/02/2017 03:01	WG974740
Cadmium	U		0.000160	0.00100	1	05/04/2017 17:02	WG974743
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 03:01	WG974740
Calcium	139		0.0460	1.00	1	05/04/2017 17:02	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 17:02	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:01	WG974740
Cobalt	U		0.000260	0.00200	1	05/04/2017 17:02	WG974743
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 03:01	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 17:02	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:01	WG974740
Lead	0.00408		0.000240	0.00200	1	05/04/2017 17:02	WG974743
Lead,Dissolved	0.00355		0.000240	0.00200	1	05/02/2017 03:01	WG974740
Manganese	0.113		0.000250	0.00500	1	05/04/2017 17:02	WG974743
Manganese,Dissolved	0.124		0.000250	0.00500	1	05/02/2017 03:01	WG974740
Nickel	0.00689		0.000350	0.00200	1	05/04/2017 17:02	WG974743
Nickel,Dissolved	0.00790		0.000350	0.00200	1	05/02/2017 03:01	WG974740
Potassium	1.53		0.0370	1.00	1	05/04/2017 17:02	WG974743





Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	0.00397	B	0.000380	0.00200	1	05/04/2017 17:02	WG974743
Selenium,Dissolved	0.00196	J	0.000380	0.00200	1	05/02/2017 03:01	WG974740
Sodium	1120		0.550	5.00	5	05/04/2017 18:15	WG974743
Uranium	U		0.000330	0.0100	1	05/04/2017 17:02	WG974743
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 03:01	WG974740
Vanadium	0.00580		0.000180	0.00500	1	05/04/2017 17:02	WG974743
Vanadium,Dissolved	0.00537		0.000180	0.00500	1	05/02/2017 03:01	WG974740

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	14.1	J	6.28	20.0	200	04/28/2017 21:39	WG974800
(S) a,a,a-Trifluorotoluene(FID) 101				77.0-122		04/28/2017 21:39	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	2.00	10.0	200	04/30/2017 02:20	WG975213
Benzene	9.69		0.0662	0.200	200	04/30/2017 02:20	WG975213
Bromodichloromethane	U		0.0760	0.200	200	04/30/2017 02:20	WG975213
Bromoform	U		0.0938	0.200	200	04/30/2017 02:20	WG975213
Bromomethane	U		0.173	1.00	200	04/30/2017 02:20	WG975213
n-Butylbenzene	U		0.0722	0.200	200	04/30/2017 02:20	WG975213
sec-Butylbenzene	U		0.0730	0.200	200	04/30/2017 02:20	WG975213
Carbon disulfide	U		0.0550	0.200	200	04/30/2017 02:20	WG975213
Carbon tetrachloride	U		0.0758	0.200	200	04/30/2017 02:20	WG975213
Chlorobenzene	U		0.0696	0.200	200	04/30/2017 02:20	WG975213
Chlorodibromomethane	U		0.0654	0.200	200	04/30/2017 02:20	WG975213
Chloroethane	U		0.0906	1.00	200	04/30/2017 02:20	WG975213
Chloroform	U		0.0648	1.00	200	04/30/2017 02:20	WG975213
Chloromethane	U		0.0552	0.500	200	04/30/2017 02:20	WG975213
1,2-Dibromoethane	U		0.0762	0.200	200	04/30/2017 02:20	WG975213
1,1-Dichloroethane	U		0.0518	0.200	200	04/30/2017 02:20	WG975213
1,2-Dichloroethane	U		0.0722	0.200	200	04/30/2017 02:20	WG975213
1,1-Dichloroethene	U		0.0796	0.200	200	04/30/2017 02:20	WG975213
cis-1,2-Dichloroethene	U		0.0520	0.200	200	04/30/2017 02:20	WG975213
trans-1,2-Dichloroethene	U		0.0792	0.200	200	04/30/2017 02:20	WG975213
1,2-Dichloropropane	U		0.0612	0.200	200	04/30/2017 02:20	WG975213
cis-1,3-Dichloropropene	U		0.0836	0.200	200	04/30/2017 02:20	WG975213
trans-1,3-Dichloropropene	U		0.0838	0.200	200	04/30/2017 02:20	WG975213
Ethylbenzene	1.58		0.0768	0.200	200	04/30/2017 02:20	WG975213
Isopropylbenzene	0.0899	J	0.0652	0.200	200	04/30/2017 02:20	WG975213
p-Isopropyltoluene	U		0.0700	0.200	200	04/30/2017 02:20	WG975213
2-Butanone (MEK)	U		0.786	2.00	200	04/30/2017 02:20	WG975213
2-Hexanone	U		0.764	2.00	200	04/30/2017 02:20	WG975213
Methylene Chloride	U		0.200	1.00	200	04/30/2017 02:20	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.428	2.00	200	04/30/2017 02:20	WG975213
Methyl tert-butyl ether	U		0.0734	0.200	200	04/30/2017 02:20	WG975213
Naphthalene	0.272	J	0.200	1.00	200	04/30/2017 02:20	WG975213
n-Propylbenzene	0.142	J	0.0698	0.200	200	04/30/2017 02:20	WG975213
Styrene	U		0.0614	0.200	200	04/30/2017 02:20	WG975213
1,1,1,2-Tetrachloroethane	U		0.0770	0.200	200	04/30/2017 02:20	WG975213
1,1,2,2-Tetrachloroethane	U		0.0260	0.200	200	04/30/2017 02:20	WG975213
Tetrachloroethene	U		0.0744	0.200	200	04/30/2017 02:20	WG975213
Toluene	2.08		0.0824	0.200	200	04/30/2017 02:20	WG975213



Collected date/time: 04/25/17 13:25

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.0638	0.200	200	04/30/2017 02:20	WG975213
1,1,2-Trichloroethane	U		0.0766	0.200	200	04/30/2017 02:20	WG975213
Trichloroethene	U		0.0796	0.200	200	04/30/2017 02:20	WG975213
1,2,4-Trimethylbenzene	0.414		0.0746	0.200	200	04/30/2017 02:20	WG975213
1,3,5-Trimethylbenzene	0.0969	J	0.0774	0.200	200	04/30/2017 02:20	WG975213
Vinyl chloride	U		0.0518	0.200	200	04/30/2017 02:20	WG975213
o-Xylene	0.427		0.0682	0.200	200	04/30/2017 02:20	WG975213
m&p-Xylene	0.727		0.144	0.400	200	04/30/2017 02:20	WG975213
Xylenes, Total	1.15		0.212	0.600	200	04/30/2017 02:20	WG975213
(S) Toluene-d8	105			80.0-120		04/30/2017 02:20	WG975213
(S) Dibromofluoromethane	101			76.0-123		04/30/2017 02:20	WG975213
(S) 4-Bromofluorobenzene	97.7			80.0-120		04/30/2017 02:20	WG975213

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	12.6		0.247	1.00	10	05/01/2017 18:19	WG975181
(S) o-Terphenyl	102			31.0-160		05/01/2017 18:19	WG975181



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1930		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 14:49	WG975894

Sample Narrative:

353.2 L905307-23 WG975894: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 09:45	WG974960

Wet Chemistry by Method 9056A

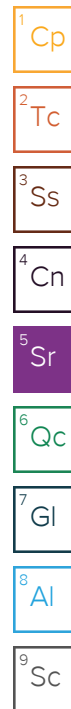
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	571		5.19	100	100	04/29/2017 00:53	WG974576
Fluoride	1.14		0.00990	0.100	1	04/29/2017 00:08	WG974576
Sulfate	72.3		0.0774	5.00	1	04/29/2017 00:08	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/29/2017 07:44	WG974554
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:58	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00569		0.000250	0.00200	1	05/04/2017 17:06	WG974743
Arsenic,Dissolved	0.00553		0.000250	0.00200	1	05/02/2017 03:04	WG974740
Barium	0.130		0.000360	0.00500	1	05/04/2017 17:06	WG974743
Barium,Dissolved	0.129		0.000360	0.00500	1	05/02/2017 03:04	WG974740
Boron	1.01		0.00150	0.0200	1	05/03/2017 22:00	WG974743
Boron,Dissolved	0.945		0.00150	0.0200	1	05/02/2017 03:04	WG974740
Cadmium	U		0.000160	0.00100	1	05/04/2017 17:06	WG974743
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 03:04	WG974740
Calcium	121		0.0460	1.00	1	05/04/2017 17:06	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 17:06	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:04	WG974740
Cobalt	U		0.000260	0.00200	1	05/04/2017 17:06	WG974743
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 03:04	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 17:06	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:04	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 17:06	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:04	WG974740
Manganese	0.111		0.000250	0.00500	1	05/04/2017 17:06	WG974743
Manganese,Dissolved	0.105		0.000250	0.00500	1	05/02/2017 03:04	WG974740
Nickel	0.00546		0.000350	0.00200	1	05/04/2017 17:06	WG974743
Nickel,Dissolved	0.00484		0.000350	0.00200	1	05/02/2017 03:04	WG974740
Potassium	1.81		0.0370	1.00	1	05/04/2017 17:06	WG974743





Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	0.00267	B	0.000380	0.00200	1	05/04/2017 17:06	WG974743
Selenium,Dissolved	0.000432	U	0.000380	0.00200	1	05/02/2017 03:04	WG974740
Sodium	424		0.110	1.00	1	05/04/2017 17:06	WG974743
Uranium	U		0.000330	0.0100	1	05/04/2017 17:06	WG974743
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 03:04	WG974740
Vanadium	0.00269	U	0.000180	0.00500	1	05/04/2017 17:06	WG974743
Vanadium,Dissolved	0.00246	U	0.000180	0.00500	1	05/02/2017 03:04	WG974740

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.00		0.314	1.00	10	04/28/2017 22:00	WG974800
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-122		04/28/2017 22:00	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.100	0.500	10	04/30/2017 02:36	WG975213
Benzene	0.484		0.00331	0.0100	10	04/30/2017 02:36	WG975213
Bromodichloromethane	U		0.00380	0.0100	10	04/30/2017 02:36	WG975213
Bromoform	U		0.00469	0.0100	10	04/30/2017 02:36	WG975213
Bromomethane	U		0.00866	0.0500	10	04/30/2017 02:36	WG975213
n-Butylbenzene	0.00404	U	0.00361	0.0100	10	04/30/2017 02:36	WG975213
sec-Butylbenzene	0.0116		0.00365	0.0100	10	04/30/2017 02:36	WG975213
Carbon disulfide	U		0.00275	0.0100	10	04/30/2017 02:36	WG975213
Carbon tetrachloride	U		0.00379	0.0100	10	04/30/2017 02:36	WG975213
Chlorobenzene	U		0.00348	0.0100	10	04/30/2017 02:36	WG975213
Chlorodibromomethane	U		0.00327	0.0100	10	04/30/2017 02:36	WG975213
Chloroethane	U		0.00453	0.0500	10	04/30/2017 02:36	WG975213
Chloroform	U		0.00324	0.0500	10	04/30/2017 02:36	WG975213
Chloromethane	U		0.00276	0.0250	10	04/30/2017 02:36	WG975213
1,2-Dibromoethane	U		0.00381	0.0100	10	04/30/2017 02:36	WG975213
1,1-Dichloroethane	U		0.00259	0.0100	10	04/30/2017 02:36	WG975213
1,2-Dichloroethane	U		0.00361	0.0100	10	04/30/2017 02:36	WG975213
1,1-Dichloroethene	U		0.00398	0.0100	10	04/30/2017 02:36	WG975213
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	04/30/2017 02:36	WG975213
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	04/30/2017 02:36	WG975213
1,2-Dichloropropane	U		0.00306	0.0100	10	04/30/2017 02:36	WG975213
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	04/30/2017 02:36	WG975213
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	04/30/2017 02:36	WG975213
Ethylbenzene	0.0167		0.00384	0.0100	10	04/30/2017 02:36	WG975213
Isopropylbenzene	0.0602		0.00326	0.0100	10	04/30/2017 02:36	WG975213
p-Isopropyltoluene	U		0.00350	0.0100	10	04/30/2017 02:36	WG975213
2-Butanone (MEK)	U		0.0393	0.100	10	04/30/2017 02:36	WG975213
2-Hexanone	U		0.0382	0.100	10	04/30/2017 02:36	WG975213
Methylene Chloride	U		0.0100	0.0500	10	04/30/2017 02:36	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	04/30/2017 02:36	WG975213
Methyl tert-butyl ether	0.125		0.00367	0.0100	10	04/30/2017 02:36	WG975213
Naphthalene	0.0639		0.0100	0.0500	10	04/30/2017 02:36	WG975213
n-Propylbenzene	0.0674		0.00349	0.0100	10	04/30/2017 02:36	WG975213
Styrene	U		0.00307	0.0100	10	04/30/2017 02:36	WG975213
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	04/30/2017 02:36	WG975213
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	04/30/2017 02:36	WG975213
Tetrachloroethene	U		0.00372	0.0100	10	04/30/2017 02:36	WG975213
Toluene	U		0.00412	0.0100	10	04/30/2017 02:36	WG975213



Collected date/time: 04/25/17 12:25

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.00319	0.0100	10	04/30/2017 02:36	WG975213
1,1,2-Trichloroethane	U		0.00383	0.0100	10	04/30/2017 02:36	WG975213
Trichloroethene	U		0.00398	0.0100	10	04/30/2017 02:36	WG975213
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	04/30/2017 02:36	WG975213
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	04/30/2017 02:36	WG975213
Vinyl chloride	U		0.00259	0.0100	10	04/30/2017 02:36	WG975213
o-Xylene	U		0.00341	0.0100	10	04/30/2017 02:36	WG975213
m&p-Xylene	U		0.00719	0.0200	10	04/30/2017 02:36	WG975213
Xylenes, Total	U		0.0106	0.0300	10	04/30/2017 02:36	WG975213
(S) Toluene-d8	105			80.0-120		04/30/2017 02:36	WG975213
(S) Dibromofluoromethane	99.3			76.0-123		04/30/2017 02:36	WG975213
(S) 4-Bromofluorobenzene	99.7			80.0-120		04/30/2017 02:36	WG975213

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	14.6		0.124	0.500	5	05/01/2017 17:26	WG975181
(S) o-Terphenyl	123			31.0-160		05/01/2017 17:26	WG975181



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3200		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 14:50	WG975894

Sample Narrative:

353.2 L905307-24 WG975894: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	93.5		0.0519	1.00	1	04/29/2017 00:23	WG974576
Fluoride	1.68		0.00990	0.100	1	04/29/2017 00:23	WG974576
Sulfate	1850		7.74	500	100	04/29/2017 01:08	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00109	J	0.000250	0.00200	1	05/04/2017 17:09	WG974743
Arsenic,Dissolved	0.00164	J	0.000250	0.00200	1	05/02/2017 03:08	WG974740
Barium	0.0163		0.000360	0.00500	1	05/04/2017 17:09	WG974743
Barium,Dissolved	0.0157		0.000360	0.00500	1	05/02/2017 03:08	WG974740
Calcium	516		0.0460	1.00	1	05/04/2017 17:09	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 17:09	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:08	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 17:09	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:08	WG974740
Lead	0.00875		0.000240	0.00200	1	05/04/2017 17:09	WG974743
Lead,Dissolved	0.00758		0.000240	0.00200	1	05/02/2017 03:08	WG974740
Manganese	0.0261		0.000250	0.00500	1	05/04/2017 17:09	WG974743
Manganese,Dissolved	0.0242		0.000250	0.00500	1	05/02/2017 03:08	WG974740
Potassium	0.180	J	0.0370	1.00	1	05/04/2017 17:09	WG974743
Selenium	0.00227	B	0.000380	0.00200	1	05/04/2017 17:09	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 03:08	WG974740
Sodium	79.2		0.110	1.00	1	05/04/2017 17:09	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	15.9		3.14	10.0	100	04/28/2017 22:21	WG974800
(S) a,a,a-Trifluorotoluene(FID) 99.7				77.0-122		04/28/2017 22:21	WG974800

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		1.00	5.00	100	04/30/2017 00:46	WG975223
Benzene	4.39		0.0331	0.100	100	04/30/2017 00:46	WG975223
Bromodichloromethane	U		0.0380	0.100	100	04/30/2017 00:46	WG975223
Bromoform	U		0.0469	0.100	100	04/30/2017 00:46	WG975223
Bromomethane	U		0.0866	0.500	100	04/30/2017 00:46	WG975223
n-Butylbenzene	U		0.0361	0.100	100	04/30/2017 00:46	WG975223



Collected date/time: 04/25/17 10:25

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.0365	0.100	100	04/30/2017 00:46	WG975223
Carbon disulfide	0.0335	U	0.0275	0.100	100	04/30/2017 00:46	WG975223
Carbon tetrachloride	U		0.0379	0.100	100	04/30/2017 00:46	WG975223
Chlorobenzene	U		0.0348	0.100	100	04/30/2017 00:46	WG975223
Chlorodibromomethane	U		0.0327	0.100	100	04/30/2017 00:46	WG975223
Chloroethane	U		0.0453	0.500	100	04/30/2017 00:46	WG975223
Chloroform	U		0.0324	0.500	100	04/30/2017 00:46	WG975223
Chloromethane	U		0.0276	0.250	100	04/30/2017 00:46	WG975223
1,2-Dibromoethane	U		0.0381	0.100	100	04/30/2017 00:46	WG975223
1,1-Dichloroethane	U		0.0259	0.100	100	04/30/2017 00:46	WG975223
1,2-Dichloroethane	U		0.0361	0.100	100	04/30/2017 00:46	WG975223
1,1-Dichloroethene	U		0.0398	0.100	100	04/30/2017 00:46	WG975223
cis-1,2-Dichloroethene	U		0.0260	0.100	100	04/30/2017 00:46	WG975223
trans-1,2-Dichloroethene	U		0.0396	0.100	100	04/30/2017 00:46	WG975223
1,2-Dichloropropane	U		0.0306	0.100	100	04/30/2017 00:46	WG975223
cis-1,3-Dichloropropene	U		0.0418	0.100	100	04/30/2017 00:46	WG975223
trans-1,3-Dichloropropene	U		0.0419	0.100	100	04/30/2017 00:46	WG975223
Ethylbenzene	1.05		0.0384	0.100	100	04/30/2017 00:46	WG975223
Isopropylbenzene	0.0745	U	0.0326	0.100	100	04/30/2017 00:46	WG975223
p-Isopropyltoluene	U		0.0350	0.100	100	04/30/2017 00:46	WG975223
2-Butanone (MEK)	U		0.393	1.00	100	04/30/2017 00:46	WG975223
2-Hexanone	U		0.382	1.00	100	04/30/2017 00:46	WG975223
Methylene Chloride	U		0.100	0.500	100	04/30/2017 00:46	WG975223
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	04/30/2017 00:46	WG975223
Methyl tert-butyl ether	U		0.0367	0.100	100	04/30/2017 00:46	WG975223
Naphthalene	0.239	U	0.100	0.500	100	04/30/2017 00:46	WG975223
n-Propylbenzene	0.111		0.0349	0.100	100	04/30/2017 00:46	WG975223
Styrene	U		0.0307	0.100	100	04/30/2017 00:46	WG975223
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	04/30/2017 00:46	WG975223
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	04/30/2017 00:46	WG975223
Tetrachloroethene	U		0.0372	0.100	100	04/30/2017 00:46	WG975223
Toluene	0.356		0.0412	0.100	100	04/30/2017 00:46	WG975223
1,1,1-Trichloroethane	U		0.0319	0.100	100	04/30/2017 00:46	WG975223
1,1,2-Trichloroethane	U		0.0383	0.100	100	04/30/2017 00:46	WG975223
Trichloroethene	U		0.0398	0.100	100	04/30/2017 00:46	WG975223
1,2,4-Trimethylbenzene	0.382		0.0373	0.100	100	04/30/2017 00:46	WG975223
1,3,5-Trimethylbenzene	0.0852	U	0.0387	0.100	100	04/30/2017 00:46	WG975223
Vinyl chloride	U		0.0259	0.100	100	04/30/2017 00:46	WG975223
o-Xylene	0.0443	U	0.0341	0.100	100	04/30/2017 00:46	WG975223
m&p-Xylene	1.84		0.0719	0.200	100	04/30/2017 00:46	WG975223
Xylenes, Total	1.88		0.106	0.300	100	04/30/2017 00:46	WG975223
(S) Toluene-d8	103			80.0-120		04/30/2017 00:46	WG975223
(S) Dibromofluoromethane	94.5			76.0-123		04/30/2017 00:46	WG975223
(S) 4-Bromofluorobenzene	91.9			80.0-120		04/30/2017 00:46	WG975223

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.94		0.247	1.00	10	05/01/2017 18:36	WG975181
(S) o-Terphenyl	92.4			31.0-160		05/01/2017 18:36	WG975181



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2630		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 14:52	WG975894

Sample Narrative:

353.2 L905307-25 WG975894: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	302		5.19	100	100	04/29/2017 02:08	WG974576
Fluoride	1.28		0.00990	0.100	1	04/29/2017 00:38	WG974576
Sulfate	1020		7.74	500	100	04/29/2017 02:08	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0114		0.000250	0.00200	1	05/04/2017 17:13	WG974743
Arsenic,Dissolved	0.0120		0.000250	0.00200	1	05/02/2017 03:11	WG974740
Barium	0.0259		0.000360	0.00500	1	05/04/2017 17:13	WG974743
Barium,Dissolved	0.0269		0.000360	0.00500	1	05/02/2017 03:11	WG974740
Calcium	313		0.0460	1.00	1	05/04/2017 17:13	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 17:13	WG974743
Chromium,Dissolved	0.00107	J	0.000540	0.00200	1	05/02/2017 03:11	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 17:13	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:11	WG974740
Lead	0.00133	J	0.000240	0.00200	1	05/04/2017 17:13	WG974743
Lead,Dissolved	0.00110	J	0.000240	0.00200	1	05/02/2017 03:11	WG974740
Manganese	0.00658		0.000250	0.00500	1	05/04/2017 17:13	WG974743
Manganese,Dissolved	0.00711		0.000250	0.00500	1	05/02/2017 03:11	WG974740
Potassium	2.44		0.0370	1.00	1	05/04/2017 17:13	WG974743
Selenium	0.00216	B	0.000380	0.00200	1	05/04/2017 17:13	WG974743
Selenium,Dissolved	0.000512	J	0.000380	0.00200	1	05/02/2017 03:11	WG974740
Sodium	236		0.110	1.00	1	05/04/2017 17:13	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	21.4		0.157	0.500	5	05/03/2017 15:15	WG974807
(S) a,a,a-Trifluorotoluene(FID) 92.3				77.0-122		05/03/2017 15:15	WG974807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.500	2.50	50	04/30/2017 01:07	WG975223
Benzene	9.71		0.0166	0.0500	50	04/30/2017 01:07	WG975223
Bromodichloromethane	U		0.0190	0.0500	50	04/30/2017 01:07	WG975223
Bromoform	U		0.0234	0.0500	50	04/30/2017 01:07	WG975223
Bromomethane	U		0.0433	0.250	50	04/30/2017 01:07	WG975223
n-Butylbenzene	U		0.0180	0.0500	50	04/30/2017 01:07	WG975223



Collected date/time: 04/25/17 09:25

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.0182	0.0500	50	04/30/2017 01:07	WG975223
Carbon disulfide	0.0186	U	0.0138	0.0500	50	04/30/2017 01:07	WG975223
Carbon tetrachloride	U		0.0190	0.0500	50	04/30/2017 01:07	WG975223
Chlorobenzene	U		0.0174	0.0500	50	04/30/2017 01:07	WG975223
Chlorodibromomethane	U		0.0164	0.0500	50	04/30/2017 01:07	WG975223
Chloroethane	U		0.0226	0.250	50	04/30/2017 01:07	WG975223
Chloroform	U		0.0162	0.250	50	04/30/2017 01:07	WG975223
Chloromethane	U		0.0138	0.125	50	04/30/2017 01:07	WG975223
1,2-Dibromoethane	U		0.0190	0.0500	50	04/30/2017 01:07	WG975223
1,1-Dichloroethane	U		0.0130	0.0500	50	04/30/2017 01:07	WG975223
1,2-Dichloroethane	U		0.0180	0.0500	50	04/30/2017 01:07	WG975223
1,1-Dichloroethene	U		0.0199	0.0500	50	04/30/2017 01:07	WG975223
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	04/30/2017 01:07	WG975223
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	04/30/2017 01:07	WG975223
1,2-Dichloropropane	U		0.0153	0.0500	50	04/30/2017 01:07	WG975223
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	04/30/2017 01:07	WG975223
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	04/30/2017 01:07	WG975223
Ethylbenzene	0.0301	U	0.0192	0.0500	50	04/30/2017 01:07	WG975223
Isopropylbenzene	0.0344	U	0.0163	0.0500	50	04/30/2017 01:07	WG975223
p-Isopropyltoluene	U		0.0175	0.0500	50	04/30/2017 01:07	WG975223
2-Butanone (MEK)	U		0.196	0.500	50	04/30/2017 01:07	WG975223
2-Hexanone	U		0.191	0.500	50	04/30/2017 01:07	WG975223
Methylene Chloride	U		0.0500	0.250	50	04/30/2017 01:07	WG975223
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	04/30/2017 01:07	WG975223
Methyl tert-butyl ether	0.0832		0.0184	0.0500	50	04/30/2017 01:07	WG975223
Naphthalene	U		0.0500	0.250	50	04/30/2017 01:07	WG975223
n-Propylbenzene	0.0482	U	0.0174	0.0500	50	04/30/2017 01:07	WG975223
Styrene	U		0.0154	0.0500	50	04/30/2017 01:07	WG975223
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	04/30/2017 01:07	WG975223
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	04/30/2017 01:07	WG975223
Tetrachloroethene	U		0.0186	0.0500	50	04/30/2017 01:07	WG975223
Toluene	0.116		0.0206	0.0500	50	04/30/2017 01:07	WG975223
1,1,1-Trichloroethane	U		0.0160	0.0500	50	04/30/2017 01:07	WG975223
1,1,2-Trichloroethane	U		0.0192	0.0500	50	04/30/2017 01:07	WG975223
Trichloroethene	U		0.0199	0.0500	50	04/30/2017 01:07	WG975223
1,2,4-Trimethylbenzene	0.0853		0.0186	0.0500	50	04/30/2017 01:07	WG975223
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	04/30/2017 01:07	WG975223
Vinyl chloride	U		0.0130	0.0500	50	04/30/2017 01:07	WG975223
o-Xylene	U		0.0170	0.0500	50	04/30/2017 01:07	WG975223
m&p-Xylene	0.236		0.0360	0.100	50	04/30/2017 01:07	WG975223
Xylenes, Total	0.236		0.0530	0.150	50	04/30/2017 01:07	WG975223
(S) Toluene-d8	102			80.0-120		04/30/2017 01:07	WG975223
(S) Dibromofluoromethane	92.2			76.0-123		04/30/2017 01:07	WG975223
(S) 4-Bromofluorobenzene	93.7			80.0-120		04/30/2017 01:07	WG975223

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	17.9		0.247	1.00	10	05/01/2017 18:54	WG975181
(S) o-Terphenyl	88.9			31.0-160		05/01/2017 18:54	WG975181



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6840		2.82	10.0	1	04/29/2017 13:05	WG974898

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	155		0.985	5.00	50	05/02/2017 12:34	WG974947

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	463		5.19	100	100	04/29/2017 16:34	WG974924
Fluoride	2.21		0.00990	0.100	1	04/29/2017 15:59	WG974924
Sulfate	3710		7.74	500	100	04/29/2017 16:34	WG974924

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00210		0.000250	0.00200	1	05/04/2017 17:16	WG974743
Arsenic,Dissolved	0.00213		0.000250	0.00200	1	05/02/2017 03:15	WG974740
Barium	0.0137		0.000360	0.00500	1	05/04/2017 17:16	WG974743
Barium,Dissolved	0.0130		0.000360	0.00500	1	05/02/2017 03:15	WG974740
Calcium	566		0.0460	1.00	1	05/04/2017 17:16	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 17:16	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:15	WG974740
Iron	0.0253	J	0.0150	0.100	1	05/04/2017 17:16	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:15	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 17:16	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:15	WG974740
Manganese	0.433		0.000250	0.00500	1	05/04/2017 17:16	WG974743
Manganese,Dissolved	0.549		0.000250	0.00500	1	05/02/2017 03:15	WG974740
Potassium	5.90		0.0370	1.00	1	05/04/2017 17:16	WG974743
Selenium	0.0485		0.000380	0.00200	1	05/04/2017 17:16	WG974743
Selenium,Dissolved	0.0427		0.000380	0.00200	1	05/02/2017 03:15	WG974740
Sodium	646		0.110	1.00	1	05/04/2017 17:16	WG974743

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/30/2017 01:27	WG975223
Benzene	U		0.000331	0.00100	1	04/30/2017 01:27	WG975223
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 01:27	WG975223
Bromoform	U		0.000469	0.00100	1	04/30/2017 01:27	WG975223
Bromomethane	U		0.000866	0.00500	1	04/30/2017 01:27	WG975223
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 01:27	WG975223
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 01:27	WG975223
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 01:27	WG975223
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 01:27	WG975223
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 01:27	WG975223
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 01:27	WG975223
Chloroethane	U		0.000453	0.00500	1	04/30/2017 01:27	WG975223
Chloroform	U		0.000324	0.00500	1	04/30/2017 01:27	WG975223
Chloromethane	U		0.000276	0.00250	1	04/30/2017 01:27	WG975223
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 01:27	WG975223
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 01:27	WG975223



Collected date/time: 04/25/17 12:00

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 01:27	WG975223
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 01:27	WG975223
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 01:27	WG975223
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 01:27	WG975223
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 01:27	WG975223
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 01:27	WG975223
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 01:27	WG975223
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 01:27	WG975223
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 01:27	WG975223
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 01:27	WG975223
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 01:27	WG975223
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 01:27	WG975223
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 01:27	WG975223
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 01:27	WG975223
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 01:27	WG975223
Naphthalene	U		0.00100	0.00500	1	04/30/2017 01:27	WG975223
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 01:27	WG975223
Styrene	U		0.000307	0.00100	1	04/30/2017 01:27	WG975223
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 01:27	WG975223
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 01:27	WG975223
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 01:27	WG975223
Toluene	U		0.000412	0.00100	1	04/30/2017 01:27	WG975223
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 01:27	WG975223
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 01:27	WG975223
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 01:27	WG975223
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 01:27	WG975223
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 01:27	WG975223
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 01:27	WG975223
o-Xylene	U		0.000341	0.00100	1	04/30/2017 01:27	WG975223
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 01:27	WG975223
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 01:27	WG975223
(S) Toluene-d8	104			80.0-120		04/30/2017 01:27	WG975223
(S) Dibromofluoromethane	97.3			76.0-123		04/30/2017 01:27	WG975223
(S) 4-Bromofluorobenzene	90.4			80.0-120		04/30/2017 01:27	WG975223

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.835		0.0247	0.100	1	05/01/2017 13:00	WG975181
(S) o-Terphenyl	88.6			31.0-160		05/01/2017 13:00	WG975181



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3690		2.82	10.0	1	04/29/2017 13:57	WG974899

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:35	WG974947

Sample Narrative:

353.2 L905307-27 WG974947: dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	246		0.519	10.0	10	05/02/2017 16:22	WG975534
Fluoride	1.41		0.00990	0.100	1	04/29/2017 16:11	WG974924
Sulfate	1860		7.74	500	100	04/29/2017 16:23	WG974924

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0359		0.000250	0.00200	1	05/04/2017 18:01	WG974743
Arsenic,Dissolved	0.0234		0.000250	0.00200	1	05/02/2017 03:19	WG974740
Barium	0.0243		0.000360	0.00500	1	05/04/2017 18:01	WG974743
Barium,Dissolved	0.0229		0.000360	0.00500	1	05/02/2017 03:19	WG974740
Calcium	558		0.0460	1.00	1	05/04/2017 18:01	WG974743
Chromium	0.00254		0.000540	0.00200	1	05/04/2017 18:01	WG974743
Chromium,Dissolved	0.00338		0.000540	0.00200	1	05/02/2017 03:19	WG974740
Iron	4.88		0.0150	0.100	1	05/04/2017 18:01	WG974743
Iron,Dissolved	0.184		0.0150	0.100	1	05/02/2017 03:19	WG974740
Lead	0.00492		0.000240	0.00200	1	05/04/2017 18:01	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:19	WG974740
Manganese	0.240		0.000250	0.00500	1	05/04/2017 18:01	WG974743
Manganese,Dissolved	0.218		0.000250	0.00500	1	05/02/2017 03:19	WG974740
Potassium	7.37		0.0370	1.00	1	05/04/2017 18:01	WG974743
Selenium	0.00573	<u>B</u>	0.000380	0.00200	1	05/04/2017 18:01	WG974743
Selenium,Dissolved	0.00286		0.000380	0.00200	1	05/02/2017 03:19	WG974740
Sodium	268		0.110	1.00	1	05/04/2017 18:01	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.20		0.0314	0.100	1	05/03/2017 15:37	WG974807
(S) a,a,a-Trifluorotoluene(FID) 93.8				77.0-122		05/03/2017 15:37	WG974807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.100	0.500	10	04/30/2017 01:48	WG975223
Benzene	0.696		0.00331	0.0100	10	04/30/2017 01:48	WG975223
Bromodichloromethane	U		0.00380	0.0100	10	04/30/2017 01:48	WG975223
Bromoform	U		0.00469	0.0100	10	04/30/2017 01:48	WG975223
Bromomethane	U		0.00866	0.0500	10	04/30/2017 01:48	WG975223
n-Butylbenzene	0.00401	<u>J</u>	0.00361	0.0100	10	04/30/2017 01:48	WG975223



Collected date/time: 04/25/17 13:05

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00414	U	0.00365	0.0100	10	04/30/2017 01:48	WG975223
Carbon disulfide	0.00277	U	0.00275	0.0100	10	04/30/2017 01:48	WG975223
Carbon tetrachloride	U		0.00379	0.0100	10	04/30/2017 01:48	WG975223
Chlorobenzene	U		0.00348	0.0100	10	04/30/2017 01:48	WG975223
Chlorodibromomethane	U		0.00327	0.0100	10	04/30/2017 01:48	WG975223
Chloroethane	U		0.00453	0.0500	10	04/30/2017 01:48	WG975223
Chloroform	U		0.00324	0.0500	10	04/30/2017 01:48	WG975223
Chloromethane	U		0.00276	0.0250	10	04/30/2017 01:48	WG975223
1,2-Dibromoethane	U		0.00381	0.0100	10	04/30/2017 01:48	WG975223
1,1-Dichloroethane	U		0.00259	0.0100	10	04/30/2017 01:48	WG975223
1,2-Dichloroethane	U		0.00361	0.0100	10	04/30/2017 01:48	WG975223
1,1-Dichloroethene	U		0.00398	0.0100	10	04/30/2017 01:48	WG975223
cis-1,2-Dichloroethene	0.624		0.00260	0.0100	10	04/30/2017 01:48	WG975223
trans-1,2-Dichloroethene	0.0108		0.00396	0.0100	10	04/30/2017 01:48	WG975223
1,2-Dichloropropane	U		0.00306	0.0100	10	04/30/2017 01:48	WG975223
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	04/30/2017 01:48	WG975223
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	04/30/2017 01:48	WG975223
Ethylbenzene	0.0169		0.00384	0.0100	10	04/30/2017 01:48	WG975223
Isopropylbenzene	0.00424	U	0.00326	0.0100	10	04/30/2017 01:48	WG975223
p-Isopropyltoluene	U		0.00350	0.0100	10	04/30/2017 01:48	WG975223
2-Butanone (MEK)	U		0.0393	0.100	10	04/30/2017 01:48	WG975223
2-Hexanone	U		0.0382	0.100	10	04/30/2017 01:48	WG975223
Methylene Chloride	U		0.0100	0.0500	10	04/30/2017 01:48	WG975223
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	04/30/2017 01:48	WG975223
Methyl tert-butyl ether	0.0441		0.00367	0.0100	10	04/30/2017 01:48	WG975223
Naphthalene	U		0.0100	0.0500	10	04/30/2017 01:48	WG975223
n-Propylbenzene	0.00361	U	0.00349	0.0100	10	04/30/2017 01:48	WG975223
Styrene	U		0.00307	0.0100	10	04/30/2017 01:48	WG975223
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	04/30/2017 01:48	WG975223
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	04/30/2017 01:48	WG975223
Tetrachloroethene	U		0.00372	0.0100	10	04/30/2017 01:48	WG975223
Toluene	0.0102		0.00412	0.0100	10	04/30/2017 01:48	WG975223
1,1,1-Trichloroethane	U		0.00319	0.0100	10	04/30/2017 01:48	WG975223
1,1,2-Trichloroethane	U		0.00383	0.0100	10	04/30/2017 01:48	WG975223
Trichloroethene	0.00896	U	0.00398	0.0100	10	04/30/2017 01:48	WG975223
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	04/30/2017 01:48	WG975223
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	04/30/2017 01:48	WG975223
Vinyl chloride	U		0.00259	0.0100	10	04/30/2017 01:48	WG975223
o-Xylene	U		0.00341	0.0100	10	04/30/2017 01:48	WG975223
m&p-Xylene	0.00743	U	0.00719	0.0200	10	04/30/2017 01:48	WG975223
Xylenes, Total	U		0.0106	0.0300	10	04/30/2017 01:48	WG975223
(S) Toluene-d8	103			80.0-120		04/30/2017 01:48	WG975223
(S) Dibromofluoromethane	94.9			76.0-123		04/30/2017 01:48	WG975223
(S) 4-Bromofluorobenzene	92.8			80.0-120		04/30/2017 01:48	WG975223

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	21.5		0.494	2.00	20	05/01/2017 19:29	WG975181
(S) o-Terphenyl	126	J7		31.0-160		05/01/2017 19:29	WG975181



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2120		2.82	10.0	1	04/29/2017 13:57	WG974899

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:36	WG974947

Sample Narrative:

353.2 L905307-28 WG974947: dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	74.8		0.0519	1.00	1	04/29/2017 17:09	WG974924
Fluoride	1.18		0.00990	0.100	1	04/29/2017 17:09	WG974924
Sulfate	790		7.74	500	100	04/29/2017 18:08	WG974924

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00780		0.000250	0.00200	1	05/04/2017 18:04	WG974743
Arsenic,Dissolved	0.00818		0.000250	0.00200	1	05/02/2017 03:22	WG974740
Barium	0.0532		0.000360	0.00500	1	05/04/2017 18:04	WG974743
Barium,Dissolved	0.0523		0.000360	0.00500	1	05/02/2017 03:22	WG974740
Calcium	362		0.0460	1.00	1	05/04/2017 18:04	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 18:04	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:22	WG974740
Iron	0.0336	J	0.0150	0.100	1	05/04/2017 18:04	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:22	WG974740
Lead	0.00352		0.000240	0.00200	1	05/04/2017 18:04	WG974743
Lead,Dissolved	0.00238		0.000240	0.00200	1	05/02/2017 03:22	WG974740
Manganese	0.00138	J	0.000250	0.00500	1	05/04/2017 18:04	WG974743
Manganese,Dissolved	0.00165	J	0.000250	0.00500	1	05/02/2017 03:22	WG974740
Potassium	0.463	J	0.0370	1.00	1	05/04/2017 18:04	WG974743
Selenium	0.00138	B J	0.000380	0.00200	1	05/04/2017 18:04	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 03:22	WG974740
Sodium	33.8		0.110	1.00	1	05/04/2017 18:04	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	17.0		0.157	0.500	5	05/03/2017 15:59	WG974807
(S) a,a,a-Trifluorotoluene(FID)	93.2			77.0-122		05/03/2017 15:59	WG974807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		1.00	5.00	100	04/29/2017 21:04	WG975227
Benzene	2.67		0.0331	0.100	100	04/29/2017 21:04	WG975227
Bromodichloromethane	U		0.0380	0.100	100	04/29/2017 21:04	WG975227
Bromoform	U		0.0469	0.100	100	04/29/2017 21:04	WG975227
Bromomethane	U		0.0866	0.500	100	04/29/2017 21:04	WG975227
n-Butylbenzene	U		0.0361	0.100	100	04/29/2017 21:04	WG975227



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.0365	0.100	100	04/29/2017 21:04	WG975227
Carbon disulfide	0.0284	J	0.0275	0.100	100	04/29/2017 21:04	WG975227
Carbon tetrachloride	U	J4	0.0379	0.100	100	04/29/2017 21:04	WG975227
Chlorobenzene	U		0.0348	0.100	100	04/29/2017 21:04	WG975227
Chlorodibromomethane	U	J4	0.0327	0.100	100	04/29/2017 21:04	WG975227
Chloroethane	U		0.0453	0.500	100	04/29/2017 21:04	WG975227
Chloroform	U		0.0324	0.500	100	04/29/2017 21:04	WG975227
Chloromethane	U		0.0276	0.250	100	04/29/2017 21:04	WG975227
1,2-Dibromoethane	U		0.0381	0.100	100	04/29/2017 21:04	WG975227
1,1-Dichloroethane	U		0.0259	0.100	100	04/29/2017 21:04	WG975227
1,2-Dichloroethane	U		0.0361	0.100	100	04/29/2017 21:04	WG975227
1,1-Dichloroethene	U		0.0398	0.100	100	04/29/2017 21:04	WG975227
cis-1,2-Dichloroethene	U		0.0260	0.100	100	04/29/2017 21:04	WG975227
trans-1,2-Dichloroethene	U		0.0396	0.100	100	04/29/2017 21:04	WG975227
1,2-Dichloropropane	U		0.0306	0.100	100	04/29/2017 21:04	WG975227
cis-1,3-Dichloropropene	U		0.0418	0.100	100	04/29/2017 21:04	WG975227
trans-1,3-Dichloropropene	U		0.0419	0.100	100	04/29/2017 21:04	WG975227
Ethylbenzene	0.473		0.0384	0.100	100	04/29/2017 21:04	WG975227
Isopropylbenzene	0.108		0.0326	0.100	100	04/29/2017 21:04	WG975227
p-Isopropyltoluene	U		0.0350	0.100	100	04/29/2017 21:04	WG975227
2-Butanone (MEK)	U		0.393	1.00	100	04/29/2017 21:04	WG975227
2-Hexanone	U		0.382	1.00	100	04/29/2017 21:04	WG975227
Methylene Chloride	U		0.100	0.500	100	04/29/2017 21:04	WG975227
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	04/29/2017 21:04	WG975227
Methyl tert-butyl ether	U		0.0367	0.100	100	04/29/2017 21:04	WG975227
Naphthalene	U		0.100	0.500	100	04/29/2017 21:04	WG975227
n-Propylbenzene	0.114		0.0349	0.100	100	04/29/2017 21:04	WG975227
Styrene	U		0.0307	0.100	100	04/29/2017 21:04	WG975227
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	04/29/2017 21:04	WG975227
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	04/29/2017 21:04	WG975227
Tetrachloroethene	U		0.0372	0.100	100	04/29/2017 21:04	WG975227
Toluene	1.61		0.0412	0.100	100	04/29/2017 21:04	WG975227
1,1,1-Trichloroethane	U		0.0319	0.100	100	04/29/2017 21:04	WG975227
1,1,2-Trichloroethane	U		0.0383	0.100	100	04/29/2017 21:04	WG975227
Trichloroethene	U		0.0398	0.100	100	04/29/2017 21:04	WG975227
1,2,4-Trimethylbenzene	0.235		0.0373	0.100	100	04/29/2017 21:04	WG975227
1,3,5-Trimethylbenzene	0.0634	J	0.0387	0.100	100	04/29/2017 21:04	WG975227
Vinyl chloride	U		0.0259	0.100	100	04/29/2017 21:04	WG975227
o-Xylene	0.216		0.0341	0.100	100	04/29/2017 21:04	WG975227
m&p-Xylene	0.832		0.0719	0.200	100	04/29/2017 21:04	WG975227
Xylenes, Total	1.05		0.106	0.300	100	04/29/2017 21:04	WG975227
(S) Toluene-d8	102			80.0-120		04/29/2017 21:04	WG975227
(S) Dibromofluoromethane	97.1			76.0-123		04/29/2017 21:04	WG975227
(S) 4-Bromofluorobenzene	102			80.0-120		04/29/2017 21:04	WG975227

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	19.8		0.247	1.00	10	05/01/2017 19:11	WG975181
(S) o-Terphenyl	92.2			31.0-160		05/01/2017 19:11	WG975181



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3880		2.82	10.0	1	04/29/2017 13:57	WG974899

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:37	WG974947

Sample Narrative:

353.2 L905307-29 WG974947: dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	161		5.19	100	100	04/29/2017 18:19	WG974924
Fluoride	3.41		0.00990	0.100	1	04/29/2017 17:21	WG974924
Sulfate	2740		7.74	500	100	04/29/2017 18:19	WG974924

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00894		0.000250	0.00200	1	05/04/2017 18:08	WG974743
Arsenic,Dissolved	0.00507		0.000250	0.00200	1	05/02/2017 03:33	WG974740
Barium	0.0159		0.000360	0.00500	1	05/04/2017 18:08	WG974743
Barium,Dissolved	0.0148		0.000360	0.00500	1	05/02/2017 03:33	WG974740
Calcium	363		0.0460	1.00	1	05/04/2017 18:08	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 18:08	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:33	WG974740
Iron	1.53		0.0150	0.100	1	05/04/2017 18:08	WG974743
Iron,Dissolved	0.0528	J	0.0150	0.100	1	05/02/2017 03:33	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 18:08	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:33	WG974740
Manganese	0.144		0.000250	0.00500	1	05/04/2017 18:08	WG974743
Manganese,Dissolved	0.144		0.000250	0.00500	1	05/02/2017 03:33	WG974740
Potassium	1.61		0.0370	1.00	1	05/04/2017 18:08	WG974743
Selenium	0.00359	B	0.000380	0.00200	1	05/04/2017 18:08	WG974743
Selenium,Dissolved	0.000711	J	0.000380	0.00200	1	05/02/2017 03:33	WG974740
Sodium	189		0.110	1.00	1	05/04/2017 18:08	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.217		0.0314	0.100	1	04/28/2017 15:35	WG974807
(S) a,a,a-Trifluorotoluene(FID) 95.1				77.0-122		04/28/2017 15:35	WG974807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 21:20	WG975227
Benzene	0.00225		0.000331	0.00100	1	04/29/2017 21:20	WG975227
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 21:20	WG975227
Bromoform	U		0.000469	0.00100	1	04/29/2017 21:20	WG975227
Bromomethane	U		0.000866	0.00500	1	04/29/2017 21:20	WG975227
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 21:20	WG975227



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00243		0.000365	0.00100	1	04/29/2017 21:20	WG975227
Carbon disulfide	0.000444	J	0.000275	0.00100	1	04/29/2017 21:20	WG975227
Carbon tetrachloride	U	J4	0.000379	0.00100	1	04/29/2017 21:20	WG975227
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 21:20	WG975227
Chlorodibromomethane	U	J4	0.000327	0.00100	1	04/29/2017 21:20	WG975227
Chloroethane	U		0.000453	0.00500	1	04/29/2017 21:20	WG975227
Chloroform	U		0.000324	0.00500	1	04/29/2017 21:20	WG975227
Chloromethane	U		0.000276	0.00250	1	04/29/2017 21:20	WG975227
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 21:20	WG975227
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 21:20	WG975227
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 21:20	WG975227
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 21:20	WG975227
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 21:20	WG975227
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 21:20	WG975227
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 21:20	WG975227
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 21:20	WG975227
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 21:20	WG975227
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 21:20	WG975227
Isopropylbenzene	0.0180		0.000326	0.00100	1	04/29/2017 21:20	WG975227
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 21:20	WG975227
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 21:20	WG975227
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 21:20	WG975227
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 21:20	WG975227
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 21:20	WG975227
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 21:20	WG975227
Naphthalene	U		0.00100	0.00500	1	04/29/2017 21:20	WG975227
n-Propylbenzene	0.00336		0.000349	0.00100	1	04/29/2017 21:20	WG975227
Styrene	U		0.000307	0.00100	1	04/29/2017 21:20	WG975227
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 21:20	WG975227
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 21:20	WG975227
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 21:20	WG975227
Toluene	U		0.000412	0.00100	1	04/29/2017 21:20	WG975227
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 21:20	WG975227
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 21:20	WG975227
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 21:20	WG975227
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 21:20	WG975227
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 21:20	WG975227
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 21:20	WG975227
o-Xylene	U		0.000341	0.00100	1	04/29/2017 21:20	WG975227
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 21:20	WG975227
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 21:20	WG975227
(S) Toluene-d8	101			80.0-120		04/29/2017 21:20	WG975227
(S) Dibromofluoromethane	97.0			76.0-123		04/29/2017 21:20	WG975227
(S) 4-Bromofluorobenzene	99.4			80.0-120		04/29/2017 21:20	WG975227

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.20		0.124	0.500	5	05/01/2017 17:08	WG975181
(S) o-Terphenyl	93.5			31.0-160		05/01/2017 17:08	WG975181



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1600		2.82	10.0	1	04/29/2017 13:57	WG974899

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:38	WG974947

Sample Narrative:

353.2 L905307-30 WG974947: dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	191		5.19	100	100	04/29/2017 18:31	WG974924
Fluoride	1.08		0.00990	0.100	1	04/29/2017 17:33	WG974924
Sulfate	298		0.774	50.0	10	05/02/2017 17:14	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00314		0.000250	0.00200	1	05/04/2017 18:11	WG974743
Arsenic,Dissolved	0.00326		0.000250	0.00200	1	05/02/2017 03:36	WG974740
Barium	0.124		0.000360	0.00500	1	05/04/2017 18:11	WG974743
Barium,Dissolved	0.119		0.000360	0.00500	1	05/02/2017 03:36	WG974740
Calcium	179		0.0460	1.00	1	05/04/2017 18:11	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 18:11	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:36	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 18:11	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:36	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 18:11	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:36	WG974740
Manganese	0.000699	J	0.000250	0.00500	1	05/04/2017 18:11	WG974743
Manganese,Dissolved	0.00148	J	0.000250	0.00500	1	05/02/2017 03:36	WG974740
Potassium	1.10		0.0370	1.00	1	05/04/2017 18:11	WG974743
Selenium	0.00148	B J	0.000380	0.00200	1	05/04/2017 18:11	WG974743
Selenium,Dissolved	0.000546	J	0.000380	0.00200	1	05/02/2017 03:36	WG974740
Sodium	208		0.110	1.00	1	05/04/2017 18:11	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	25.1		0.157	0.500	5	05/03/2017 16:21	WG974807
(S) a,a,a-Trifluorotoluene(FID) 95.3				77.0-122		05/03/2017 16:21	WG974807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.500	2.50	50	04/29/2017 21:37	WG975227
Benzene	U		0.0166	0.0500	50	04/29/2017 21:37	WG975227
Bromodichloromethane	U		0.0190	0.0500	50	04/29/2017 21:37	WG975227
Bromoform	U		0.0234	0.0500	50	04/29/2017 21:37	WG975227
Bromomethane	U		0.0433	0.250	50	04/29/2017 21:37	WG975227
n-Butylbenzene	U		0.0180	0.0500	50	04/29/2017 21:37	WG975227



Collected date/time: 04/25/17 15:10

L905307

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.0182	0.0500	50	04/29/2017 21:37	WG975227
Carbon disulfide	U		0.0138	0.0500	50	04/29/2017 21:37	WG975227
Carbon tetrachloride	U	J4	0.0190	0.0500	50	04/29/2017 21:37	WG975227
Chlorobenzene	U		0.0174	0.0500	50	04/29/2017 21:37	WG975227
Chlorodibromomethane	U	J4	0.0164	0.0500	50	04/29/2017 21:37	WG975227
Chloroethane	U		0.0226	0.250	50	04/29/2017 21:37	WG975227
Chloroform	U		0.0162	0.250	50	04/29/2017 21:37	WG975227
Chloromethane	U		0.0138	0.125	50	04/29/2017 21:37	WG975227
1,2-Dibromoethane	U		0.0190	0.0500	50	04/29/2017 21:37	WG975227
1,1-Dichloroethane	U		0.0130	0.0500	50	04/29/2017 21:37	WG975227
1,2-Dichloroethane	U		0.0180	0.0500	50	04/29/2017 21:37	WG975227
1,1-Dichloroethene	U		0.0199	0.0500	50	04/29/2017 21:37	WG975227
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	04/29/2017 21:37	WG975227
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	04/29/2017 21:37	WG975227
1,2-Dichloropropane	U		0.0153	0.0500	50	04/29/2017 21:37	WG975227
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	04/29/2017 21:37	WG975227
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	04/29/2017 21:37	WG975227
Ethylbenzene	U		0.0192	0.0500	50	04/29/2017 21:37	WG975227
Isopropylbenzene	0.0837		0.0163	0.0500	50	04/29/2017 21:37	WG975227
p-Isopropyltoluene	U		0.0175	0.0500	50	04/29/2017 21:37	WG975227
2-Butanone (MEK)	U		0.196	0.500	50	04/29/2017 21:37	WG975227
2-Hexanone	U		0.191	0.500	50	04/29/2017 21:37	WG975227
Methylene Chloride	U		0.0500	0.250	50	04/29/2017 21:37	WG975227
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	04/29/2017 21:37	WG975227
Methyl tert-butyl ether	30.6		0.367	1.00	1000	05/05/2017 01:13	WG975227
Naphthalene	U		0.0500	0.250	50	04/29/2017 21:37	WG975227
n-Propylbenzene	0.0765		0.0174	0.0500	50	04/29/2017 21:37	WG975227
Styrene	U		0.0154	0.0500	50	04/29/2017 21:37	WG975227
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	04/29/2017 21:37	WG975227
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	04/29/2017 21:37	WG975227
Tetrachloroethene	U		0.0186	0.0500	50	04/29/2017 21:37	WG975227
Toluene	U		0.0206	0.0500	50	04/29/2017 21:37	WG975227
1,1,1-Trichloroethane	U		0.0160	0.0500	50	04/29/2017 21:37	WG975227
1,1,2-Trichloroethane	U		0.0192	0.0500	50	04/29/2017 21:37	WG975227
Trichloroethene	U		0.0199	0.0500	50	04/29/2017 21:37	WG975227
1,2,4-Trimethylbenzene	U		0.0186	0.0500	50	04/29/2017 21:37	WG975227
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	04/29/2017 21:37	WG975227
Vinyl chloride	U		0.0130	0.0500	50	04/29/2017 21:37	WG975227
o-Xylene	U		0.0170	0.0500	50	04/29/2017 21:37	WG975227
m&p-Xylene	U		0.0360	0.100	50	04/29/2017 21:37	WG975227
Xylenes, Total	U		0.0530	0.150	50	04/29/2017 21:37	WG975227
(S) Toluene-d8	99.1			80.0-120		05/05/2017 01:13	WG975227
(S) Toluene-d8	100			80.0-120		04/29/2017 21:37	WG975227
(S) Dibromofluoromethane	96.9			76.0-123		05/05/2017 01:13	WG975227
(S) Dibromofluoromethane	97.9			76.0-123		04/29/2017 21:37	WG975227
(S) 4-Bromofluorobenzene	93.4			80.0-120		05/05/2017 01:13	WG975227
(S) 4-Bromofluorobenzene	102			80.0-120		04/29/2017 21:37	WG975227

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.02		0.247	1.00	10	05/01/2017 18:01	WG975181
(S) o-Terphenyl	103			31.0-160		05/01/2017 18:01	WG975181



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1010		2.82	10.0	1	04/29/2017 13:57	WG974899

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:39	WG974947

Sample Narrative:

353.2 L905307-31 WG974947: dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	230		5.19	100	100	04/29/2017 18:43	WG974924
Fluoride	1.77		0.00990	0.100	1	04/29/2017 17:44	WG974924
Sulfate	219		0.774	50.0	10	05/02/2017 17:31	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0570		0.000250	0.00200	1	05/04/2017 15:52	WG974743
Arsenic,Dissolved	0.0578		0.000250	0.00200	1	05/02/2017 03:40	WG974740
Barium	0.0451	Q1	0.000360	0.00500	1	05/04/2017 15:52	WG974743
Barium,Dissolved	0.0448		0.000360	0.00500	1	05/02/2017 03:40	WG974740
Calcium	197		0.0460	1.00	1	05/04/2017 15:52	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 15:52	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:40	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 15:52	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:40	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 15:52	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:40	WG974740
Manganese	0.00134	J	0.000250	0.00500	1	05/04/2017 15:52	WG974743
Manganese,Dissolved	0.000952	J	0.000250	0.00500	1	05/02/2017 03:40	WG974740
Potassium	5.20	Q1	0.0370	1.00	1	05/04/2017 15:52	WG974743
Selenium	0.00166	B J	0.000380	0.00200	1	05/04/2017 15:52	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 03:40	WG974740
Sodium	48.7	Q1 V	0.110	1.00	1	05/04/2017 15:52	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	2.41		0.0314	0.100	1	05/03/2017 16:48	WG974807
(S) a,a,a-Trifluorotoluene(FID) 91.0				77.0-122		05/03/2017 16:48	WG974807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0500	0.250	5	04/29/2017 21:54	WG975227
Benzene	0.529		0.00166	0.00500	5	04/29/2017 21:54	WG975227
Bromodichloromethane	U		0.00190	0.00500	5	04/29/2017 21:54	WG975227
Bromoform	U		0.00234	0.00500	5	04/29/2017 21:54	WG975227
Bromomethane	U		0.00433	0.0250	5	04/29/2017 21:54	WG975227
n-Butylbenzene	U		0.00180	0.00500	5	04/29/2017 21:54	WG975227



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.0193		0.00182	0.00500	5	04/29/2017 21:54	WG975227
Carbon disulfide	U		0.00138	0.00500	5	04/29/2017 21:54	WG975227
Carbon tetrachloride	U	J4	0.00190	0.00500	5	04/29/2017 21:54	WG975227
Chlorobenzene	U		0.00174	0.00500	5	04/29/2017 21:54	WG975227
Chlorodibromomethane	U	J4	0.00164	0.00500	5	04/29/2017 21:54	WG975227
Chloroethane	U		0.00226	0.0250	5	04/29/2017 21:54	WG975227
Chloroform	U		0.00162	0.0250	5	04/29/2017 21:54	WG975227
Chloromethane	U		0.00138	0.0125	5	04/29/2017 21:54	WG975227
1,2-Dibromoethane	U		0.00190	0.00500	5	04/29/2017 21:54	WG975227
1,1-Dichloroethane	U		0.00130	0.00500	5	04/29/2017 21:54	WG975227
1,2-Dichloroethane	U		0.00180	0.00500	5	04/29/2017 21:54	WG975227
1,1-Dichloroethene	U		0.00199	0.00500	5	04/29/2017 21:54	WG975227
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	04/29/2017 21:54	WG975227
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	04/29/2017 21:54	WG975227
1,2-Dichloropropane	U		0.00153	0.00500	5	04/29/2017 21:54	WG975227
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	04/29/2017 21:54	WG975227
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	04/29/2017 21:54	WG975227
Ethylbenzene	0.0168		0.00192	0.00500	5	04/29/2017 21:54	WG975227
Isopropylbenzene	0.0380		0.00163	0.00500	5	04/29/2017 21:54	WG975227
p-Isopropyltoluene	U		0.00175	0.00500	5	04/29/2017 21:54	WG975227
2-Butanone (MEK)	U		0.0196	0.0500	5	04/29/2017 21:54	WG975227
2-Hexanone	U		0.0191	0.0500	5	04/29/2017 21:54	WG975227
Methylene Chloride	U		0.00500	0.0250	5	04/29/2017 21:54	WG975227
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	04/29/2017 21:54	WG975227
Methyl tert-butyl ether	0.0132		0.00184	0.00500	5	04/29/2017 21:54	WG975227
Naphthalene	U		0.00500	0.0250	5	04/29/2017 21:54	WG975227
n-Propylbenzene	0.00632		0.00174	0.00500	5	04/29/2017 21:54	WG975227
Styrene	U		0.00154	0.00500	5	04/29/2017 21:54	WG975227
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	04/29/2017 21:54	WG975227
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	04/29/2017 21:54	WG975227
Tetrachloroethene	U		0.00186	0.00500	5	04/29/2017 21:54	WG975227
Toluene	U		0.00206	0.00500	5	04/29/2017 21:54	WG975227
1,1,1-Trichloroethane	U		0.00160	0.00500	5	04/29/2017 21:54	WG975227
1,1,2-Trichloroethane	U		0.00192	0.00500	5	04/29/2017 21:54	WG975227
Trichloroethene	U		0.00199	0.00500	5	04/29/2017 21:54	WG975227
1,2,4-Trimethylbenzene	0.00209	J	0.00186	0.00500	5	04/29/2017 21:54	WG975227
1,3,5-Trimethylbenzene	U		0.00194	0.00500	5	04/29/2017 21:54	WG975227
Vinyl chloride	U		0.00130	0.00500	5	04/29/2017 21:54	WG975227
o-Xylene	U		0.00170	0.00500	5	04/29/2017 21:54	WG975227
m&p-Xylene	0.00402	J	0.00360	0.0100	5	04/29/2017 21:54	WG975227
Xylenes, Total	U		0.00530	0.0150	5	04/29/2017 21:54	WG975227
(S) Toluene-d8	100			80.0-120		04/29/2017 21:54	WG975227
(S) Dibromofluoromethane	96.7			76.0-123		04/29/2017 21:54	WG975227
(S) 4-Bromofluorobenzene	99.5			80.0-120		04/29/2017 21:54	WG975227

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.91		0.247	1.00	10	05/01/2017 17:43	WG975181
(S) o-Terphenyl	103			31.0-160		05/01/2017 17:43	WG975181



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	U		2.82	10.0	1	04/29/2017 13:57	WG974899

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:40	WG974947

Sample Narrative:

353.2 L905307-32 WG974947: dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.269	J	0.0519	1.00	1	05/02/2017 17:49	WG975534
Fluoride	U		0.00990	0.100	1	04/29/2017 17:56	WG974924
Sulfate	0.173	J	0.0774	5.00	1	04/29/2017 17:56	WG974924

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/05/2017 05:56	WG976346
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 03:44	WG974740
Barium	U		0.000360	0.00500	1	05/05/2017 05:56	WG976346
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 03:44	WG974740
Calcium	0.365	J	0.0460	1.00	1	05/05/2017 05:56	WG976346
Chromium	U		0.000540	0.00200	1	05/05/2017 05:56	WG976346
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:44	WG974740
Iron	U		0.0150	0.100	1	05/05/2017 05:56	WG976346
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:44	WG974740
Lead	U		0.000240	0.00200	1	05/05/2017 13:27	WG976346
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:44	WG974740
Manganese	0.000651	J	0.000250	0.00500	1	05/05/2017 05:56	WG976346
Manganese,Dissolved	U		0.000250	0.00500	1	05/02/2017 03:44	WG974740
Potassium	U		0.0370	1.00	1	05/05/2017 05:56	WG976346
Selenium	U		0.000380	0.00200	1	05/05/2017 05:56	WG976346
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 03:44	WG974740
Sodium	0.132	J	0.110	1.00	1	05/05/2017 05:56	WG976346

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 20:03	WG974807
(S) a,a,a-Trifluorotoluene(FID) 98.4				77.0-122		04/28/2017 20:03	WG974807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U	J4	0.0100	0.0500	1	04/30/2017 22:37	WG975239
Benzene	U		0.000331	0.00100	1	04/30/2017 22:37	WG975239
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 22:37	WG975239
Bromoform	U		0.000469	0.00100	1	04/30/2017 22:37	WG975239
Bromomethane	U		0.000866	0.00500	1	04/30/2017 22:37	WG975239
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 22:37	WG975239



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 22:37	WG975239
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 22:37	WG975239
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 22:37	WG975239
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 22:37	WG975239
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 22:37	WG975239
Chloroethane	U		0.000453	0.00500	1	04/30/2017 22:37	WG975239
Chloroform	U		0.000324	0.00500	1	04/30/2017 22:37	WG975239
Chloromethane	U		0.000276	0.00250	1	04/30/2017 22:37	WG975239
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 22:37	WG975239
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 22:37	WG975239
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 22:37	WG975239
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 22:37	WG975239
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 22:37	WG975239
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 22:37	WG975239
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 22:37	WG975239
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 22:37	WG975239
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 22:37	WG975239
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 22:37	WG975239
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 22:37	WG975239
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 22:37	WG975239
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 22:37	WG975239
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 22:37	WG975239
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 22:37	WG975239
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 22:37	WG975239
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 22:37	WG975239
Naphthalene	0.0111		0.00100	0.00500	1	04/30/2017 22:37	WG975239
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 22:37	WG975239
Styrene	U		0.000307	0.00100	1	04/30/2017 22:37	WG975239
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 22:37	WG975239
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 22:37	WG975239
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 22:37	WG975239
Toluene	0.000719	J	0.000412	0.00100	1	04/30/2017 22:37	WG975239
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 22:37	WG975239
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 22:37	WG975239
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 22:37	WG975239
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 22:37	WG975239
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 22:37	WG975239
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 22:37	WG975239
o-Xylene	U		0.000341	0.00100	1	04/30/2017 22:37	WG975239
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 22:37	WG975239
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 22:37	WG975239
(S) Toluene-d8	105			80.0-120		04/30/2017 22:37	WG975239
(S) Dibromofluoromethane	101			76.0-123		04/30/2017 22:37	WG975239
(S) 4-Bromofluorobenzene	98.7			80.0-120		04/30/2017 22:37	WG975239

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0519	J	0.0247	0.100	1	05/01/2017 13:18	WG975181
(S) o-Terphenyl	87.0			31.0-160		05/01/2017 13:18	WG975181



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/30/2017 13:04	WG975237
Benzene	U		0.000331	0.00100	1	04/30/2017 13:04	WG975237
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 13:04	WG975237
Bromoform	U		0.000469	0.00100	1	04/30/2017 13:04	WG975237
Bromomethane	U		0.000866	0.00500	1	04/30/2017 13:04	WG975237
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 13:04	WG975237
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 13:04	WG975237
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 13:04	WG975237
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 13:04	WG975237
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 13:04	WG975237
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 13:04	WG975237
Chloroethane	U		0.000453	0.00500	1	04/30/2017 13:04	WG975237
Chloroform	U		0.000324	0.00500	1	04/30/2017 13:04	WG975237
Chloromethane	U		0.000276	0.00250	1	04/30/2017 13:04	WG975237
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 13:04	WG975237
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 13:04	WG975237
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 13:04	WG975237
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 13:04	WG975237
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 13:04	WG975237
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 13:04	WG975237
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 13:04	WG975237
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 13:04	WG975237
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 13:04	WG975237
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 13:04	WG975237
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 13:04	WG975237
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 13:04	WG975237
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 13:04	WG975237
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 13:04	WG975237
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 13:04	WG975237
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 13:04	WG975237
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 13:04	WG975237
Naphthalene	U		0.00100	0.00500	1	04/30/2017 13:04	WG975237
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 13:04	WG975237
Styrene	U		0.000307	0.00100	1	04/30/2017 13:04	WG975237
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 13:04	WG975237
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 13:04	WG975237
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 13:04	WG975237
Toluene	U		0.000412	0.00100	1	04/30/2017 13:04	WG975237
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 13:04	WG975237
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 13:04	WG975237
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 13:04	WG975237
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 13:04	WG975237
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 13:04	WG975237
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 13:04	WG975237
o-Xylene	U		0.000341	0.00100	1	04/30/2017 13:04	WG975237
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 13:04	WG975237
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 13:04	WG975237
(S) Toluene-d8	101			80.0-120		04/30/2017 13:04	WG975237
(S) Dibromofluoromethane	100			76.0-123		04/30/2017 13:04	WG975237
(S) 4-Bromofluorobenzene	105			80.0-120		04/30/2017 13:04	WG975237

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215055-1 04/30/17 13:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905302-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905302-03 04/30/17 13:12 • (DUP) R3215055-4 04/30/17 13:12

Analyte	Original Result mg/l	DUP Result mg/l	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1840	1880	1	2.28	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215055-2 04/30/17 13:12 • (LCSD) R3215055-3 04/30/17 13:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8650	8600	98.3	97.7	85.0-115	0.580		5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215286-1 05/01/17 09:04

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905307-07 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-07 05/01/17 09:04 • (DUP) R3215286-4 05/01/17 09:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Dissolved Solids	4400	4510	1	2.47		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215286-2 05/01/17 09:04 • (LCSD) R3215286-3 05/01/17 09:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Dissolved Solids	8800	8660	8690	98.4	98.8	85.0-115		0.346		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214740-1 04/29/17 13:05

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905307-26 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-26 04/29/17 13:05 • (DUP) R3214740-4 04/29/17 13:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	6840	6840	1	0.000		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214740-2 04/29/17 13:05 • (LCSD) R3214740-3 04/29/17 13:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Dissolved Solids	8800	8610	8610	97.8	97.8	85.0-115		0.000		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214749-1 04/29/17 13:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	2.82	10.0	

L905307-27 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-27 04/29/17 13:57 • (DUP) R3214749-4 04/29/17 13:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3690	3770	1	2.14		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214749-2 04/29/17 13:57 • (LCSD) R3214749-3 04/29/17 13:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8590	8630	97.6	98.1	85.0-115		0.465		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905300-15 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-15 05/01/17 15:57 • (DUP) R3214792-4 05/01/17 15:58					
Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier DUP RPD Limits %
Nitrate-Nitrite	U	0.000	1	0	20

L905300-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-23 05/01/17 16:11 • (DUP) R3214792-6 05/01/17 16:13					
Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier %
Nitrate-Nitrite	0.0200	0.000	1	200	P1 20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214792-2 05/01/17 15:55 • (LCSD) R3214792-3 05/01/17 15:56									
Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD Limits %
Nitrate-Nitrite	5.00	5.29	5.16	106	103	90-110		3	20

L905300-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-17 05/01/17 16:00 • (MS) R3214792-5 05/01/17 16:01						
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %
Nitrate-Nitrite	5.00	U	4.76	95	1	90-110

L905302-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905302-01 05/01/17 16:14 • (MS) R3214792-7 05/01/17 16:19 • (MSD) R3214792-8 05/01/17 16:20												
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	0.0270	4.88	5.00	97	99	1	90-110			2	20



Method Blank (MB)

(MB) R3214787-8 05/01/17 16:42

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905307-09 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-09 05/01/17 16:48 • (DUP) R3214787-11 05/01/17 16:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Nitrate-Nitrite	0.0350	0.000	1	200	P1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214787-9 05/01/17 16:43 • (LCSD) R3214787-10 05/01/17 16:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	5.14	5.06	103	101	90-110			2	20

L905307-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L905307-14 05/01/17 16:59 • (MS) R3214787-12 05/01/17 17:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Nitrate-Nitrite	5.00	0.0450	0.247	4	1	90-110	J6



Method Blank (MB)

(MB) R3215035-1 05/02/17 12:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RD L mg/l
Nitrate-Nitrite	U	0.0197	0.100	

L905143-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905143-02 05/02/17 12:27 • (DUP) R3215035-5 05/02/17 12:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.47	1.41	1	4		20

L905363-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905363-01 05/02/17 12:46 • (DUP) R3215035-6 05/02/17 12:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.09	1.08	1	1		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215035-2 05/02/17 12:21 • (LCSD) R3215035-3 05/02/17 12:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	5.30	5.10	106	102	90-110			4	20

L905133-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L905133-02 05/02/17 12:24 • (MS) R3215035-4 05/02/17 12:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	5.00	1.17	5.78	92	1	90-110	

L905408-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905408-01 05/02/17 12:58 • (MS) R3215035-7 05/02/17 12:59 • (MSD) R3215035-8 05/02/17 13:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	0.944	5.75	5.81	96	97	1	90-110		1	20



Method Blank (MB)

(MB) R3215384-1 05/03/17 14:35					
MB Result		<u>MB Qualifier</u>		MB MDL	MB RDL
mg/l		mg/l		mg/l	mg/l
Analyte					
Nitrate-Nitrite	U		0.0197		0.100

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/03/17 14:38 • (DUP) R3215384-4 05/03/17 14:39					
Original Result		DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>
mg/l		mg/l		%	%
Analyte					
Nitrate-Nitrite	16.3	16.7	10	2	20

L905307-24 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-24 05/03/17 14:50 • (DUP) R3215384-5 05/03/17 14:51					
Original Result		DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>
mg/l		mg/l		%	%
Analyte					
Nitrate-Nitrite	U	0.000	10	0	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215384-2 05/03/17 14:36 • (LCSD) R3215384-3 05/03/17 14:37					
Spike Amount		LCS Result	LCSD Result	LCS Rec.	Rec. Limits
mg/l		mg/l	mg/l	%	%
Analyte					
Nitrate-Nitrite	5.00	5.32	4.93	106	99
				106	90-110
				99	20

L905371-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L905371-15 05/03/17 14:54 • (MS) R3215384-6 05/03/17 14:55					
Spike Amount		Original Result	MS Result	MS Rec.	<u>MS Qualifier</u>
mg/l		mg/l	mg/l	%	%
Analyte					
Nitrate-Nitrite	5.00	ND	4.56	91	1
				91	90-110

L905651-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-04 05/03/17 15:07 • (MS) R3215384-7 05/03/17 15:13 • (MSD) R3215384-8 05/03/17 15:14					
Spike Amount		Original Result	MS Result	MSD Result	MSD Rec.
mg/l		mg/l	mg/l	mg/l	%
Analyte					
Nitrate-Nitrite	5.00	0.0570	0.323	0.310	5
				5	5
				1	90-110
				1	4
				<u>J6</u>	<u>J6</u>
				4	20



Method Blank (MB)

(MB) R3214896-1 05/02/17 09:16

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Cyanide	U	0.0018	0.0018	0.00500

L905300-13 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-13 05/02/17 09:21 • (DUP) R3214896-4 05/02/17 09:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Cyanide	U	0.000	1	0		20

L905437-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905437-01 05/02/17 09:48 • (DUP) R3214896-7 05/02/17 09:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Cyanide	ND	0.000	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214896-2 05/02/17 09:17 • (LCSD) R3214896-3 05/02/17 09:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Cyanide	0.100	0.0936	0.101	94	101	85-115			8	20

L905307-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-18 05/02/17 09:36 • (MS) R3214896-5 05/02/17 09:37 • (MSD) R3214896-6 05/02/17 09:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Cyanide	0.100	U	0.195	0.177	195	177	1	75-125	<u>J5</u>	<u>J5</u>	10	20



Method Blank (MB)

(MB) R3214490-2 04/28/17 06:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905300-21 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-21 04/28/17 11:18 • (DUP) R3214490-5 04/28/17 11:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.282	0.415	1	38	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.463	0.167	1	94	J P1	15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214490-3 04/28/17 06:53 • (LCSD) R3214490-4 04/28/17 07:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	39.6	39.6	99	99	80-120			0	15
Fluoride	8.00	8.18	8.13	102	102	80-120			1	15
Sulfate	40.0	38.9	38.7	97	97	80-120			1	15

L905300-22 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-22 04/28/17 14:24 • (MS) R3214490-6 04/28/17 14:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.170	50.8	101	1	80-120	
Fluoride	5.00	U	5.17	103	1	80-120	
Sulfate	50.0	0.518	50.5	100	1	80-120	

L905307-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-01 04/28/17 17:30 • (MS) R3214490-7 04/28/17 18:29 • (MSD) R3214490-8 04/28/17 18:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	0.623	5.58	4.90	99	85	1	80-120			13	15



Method Blank (MB)

(MB) R3214515-1 04/28/17 05:53

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Chloride	U	0.0519	1.00	
Fluoride	U	0.0099	0.100	
Sulfate	U	0.0774	5.00	

L905307-18 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-18 04/29/17 10:13 • (DUP) R3214515-10 04/29/17 10:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	61.1	61.3	1	0		15
Fluoride	0.707	0.709	1	0		15

L905307-18 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-18 04/29/17 10:28 • (DUP) R3214515-11 04/29/17 10:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Sulfate	1310	1290	100	1		15

L905307-19 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-19 04/29/17 13:12 • (DUP) R3214515-12 04/29/17 13:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Fluoride	0.928	0.930	1	0		15

L905307-19 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-19 04/29/17 13:27 • (DUP) R3214515-13 04/29/17 13:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	178	165	100	8		15
Sulfate	1830	1820	100	0		15



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214515-2 04/28/17 06:08 • (LCSD) R3214515-3 04/28/17 06:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40.0	39.8	39.9	100	100	80-120			0	15
Fluoride	8.00	8.15	8.15	102	102	80-120			0	15
Sulfate	40.0	40.0	39.8	100	100	80-120			0	15

L905307-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L905307-14 04/28/17 20:54 • (MS) R3214515-9 04/28/17 21:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Fluoride	5.00	1.94	6.86	98	1	80-120	

L905307-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-20 04/29/17 14:11 • (MS) R3214515-14 04/29/17 14:26 • (MSD) R3214515-15 04/29/17 14:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Fluoride	5.00	0.666	5.27	5.42	92	95	1	80-120		3		15



Method Blank (MB)

(MB) R3214525-1 04/29/17 12:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RD L mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905118-05 Original Sample (OS) • Duplicate (DUP)

(OS) L905118-05 04/29/17 15:36 • (DUP) R3214525-5 04/29/17 15:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	U	0.000	1	0		15
Sulfate	2.68	2.71	1	1	J	15

L905334-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905334-01 04/29/17 19:30 • (DUP) R3214525-6 04/29/17 19:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7.99	7.91	1	1		15
Fluoride	0.122	0.127	1	4		15
Sulfate	62.6	63.4	1	1		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214525-2 04/29/17 12:30 • (LCSD) R3214525-3 04/29/17 12:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	39.5	39.5	99	99	80-120			0	15
Fluoride	8.00	8.14	8.16	102	102	80-120			0	15
Sulfate	40.0	38.0	38.1	95	95	80-120			0	15

L904745-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L904745-08 04/29/17 13:40 • (MS) R3214525-4 04/29/17 13:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	ND	5.10	102	1	80-120	
Sulfate	50.0	ND	52.0	94	1	80-120	



L905334-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905334-03 04/29/17 20:16 • (MS) R3214525-7 04/29/17 20:28 • (MSD) R3214525-8 04/29/17 20:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Chloride	50.0	7.35	58.3	58.1	102	102	1	80-120			0	15
Fluoride	5.00	0.101	5.07	5.31	99	104	1	80-120			5	15
Sulfate	50.0	18.9	63.6	64.1	89	90	1	80-120			1	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214601-1 04/30/17 19:54

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905300-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-23 04/30/17 22:54 • (DUP) R3214601-5 04/30/17 23:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Chloride	0.369	0.474	1	25	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.490	0.000	1	200	P1	15

L905358-09 Original Sample (OS) • Duplicate (DUP)

(OS) L905358-09 05/01/17 03:23 • (DUP) R3214601-6 05/01/17 03:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Chloride	0.301	0.455	1	41	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	U	0.000	1	0		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214601-2 04/30/17 20:06 • (LCSD) R3214601-3 04/30/17 20:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40.0	39.4	39.4	98	99	80-120			0	15
Fluoride	8.00	7.94	7.94	99	99	80-120			0	15
Sulfate	40.0	39.3	39.4	98	98	80-120			0	15

L905024-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L905024-09 04/30/17 21:09 • (MS) R3214601-4 04/30/17 21:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	ND	50.9	101	1	80-120	
Fluoride	5.00	ND	5.05	101	1	80-120	



L905024-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L905024-09 04/30/17 21:09 • (MS) R3214601-4 04/30/17 21:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50.0	ND	52.5	105	1	80-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214551-1 04/29/17 05:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Sulfate	U		0.0774	5.00

L905847-05 Original Sample (OS) • Duplicate (DUP)

(OS) L905847-05 04/29/17 16:58 • (DUP) R3214551-4 04/29/17 17:12

Analyte	Original Result mg/l	DUP Result mg/l	DUP Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.81	1.52	1	18	P1	15
Sulfate	13.0	13.1	1	1		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214551-2 04/29/17 05:51 • (LCSD) R3214551-3 04/29/17 06:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	39.3	39.1	98	98	80-120			0	15
Sulfate	40.0	38.9	39.2	97	98	80-120			1	15

L905847-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L905847-04 04/29/17 16:43 • (MS) R3214551-5 04/29/17 17:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	2.06	53.0	102	1	80-120	
Sulfate	50.0	20.0	71.9	104	1	80-120	



Method Blank (MB)

(MB) R3215194-1 05/02/17 07:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Sulfate	U		0.0774	5.00

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/02/17 15:29 • (DUP) R3215194-4 05/02/17 15:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	78.9	78.8	1	0		15
Sulfate	U	0.000	1	0		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215194-2 05/02/17 07:22 • (LCSD) R3215194-3 05/02/17 07:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.5	40.4	101	101	80-120			0	15
Sulfate	40.0	40.9	40.7	102	102	80-120			1	15

L905307-32 Original Sample (OS) • Matrix Spike (MS)

(OS) L905307-32 05/02/17 17:49 • (MS) R3215194-5 05/02/17 18:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.269	48.8	97	1	80-120	
Sulfate	50.0	U	49.0	98	1	80-120	



Method Blank (MB)

(MB) R3214382-1 04/28/17 15:00

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Mercury	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214382-2 04/28/17 15:02 • (LCSD) R3214382-3 04/28/17 15:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.00300	0.00286	0.00287	95	96	80-120			1	20

L905146-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905146-05 04/28/17 15:12 • (MS) R3214382-4 04/28/17 15:14 • (MSD) R3214382-5 04/28/17 15:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.00300	U	0.00288	0.00306	96	102	1	75-125		6		20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3214376-1 04/28/17 13:04

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214376-2 04/28/17 13:06 • (LCSD) R3214376-3 04/28/17 13:08

Analyte	Spike Amount		LCSD Result		LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%	%	%	%	%	%
Mercury,Dissolved	0.00300	0.00300	0.00291	0.00291	100	97	80-120		3	20	

L904651-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904651-05 04/28/17 13:11 • (MS) R3214376-4 04/28/17 13:13 • (MSD) R3214376-5 04/28/17 13:20

Analyte	Spike Amount		Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury,Dissolved	0.00300	U		0.00295	0.00290	98	97	1	75-125			2	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3214474-1 04/29/17 07:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214474-2 04/29/17 07:17 • (LCSD) R3214474-6 04/29/17 08:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00272	0.00273	91	80-120			0	20

L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/29/17 07:21 • (MS) R3214474-4 04/29/17 07:24 • (MSD) R3214474-5 04/29/17 07:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00290	0.00295	97	98	1	75-125		2	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3214811-1 05/01/17 19:29

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Boron,Dissolved	U		0.0015	0.0200
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Vanadium,Dissolved	U		0.00018	0.00500

Method Blank (MB)

(MB) R3214872-1 05/02/17 06:00

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Uranium,Dissolved	U		0.00033	0.0100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214811-2 05/01/17 19:33 • (LCSD) R3214811-3 05/01/17 19:37

Analyte	Spike Amount mg/l	LCS Result		LCSD Result		LCS Rec.		LCSD Rec.		Rec. Limits		<u>LCS Qualifier</u>		<u>LCSD Qualifier</u>		RPD		RPD Limits	
		mg/l	%	mg/l	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Arsenic,Dissolved	0.0500	0.0500	0.0500	0.0489	0.0489	100	98	80-120	80-120	2	20	2	20	2	20	2	20	2	20
Barium,Dissolved	0.0500	0.0447	0.0434	0.0434	0.0434	89	87	80-120	80-120	3	20	3	20	3	20	3	20	3	20
Boron,Dissolved	0.0500	0.0437	0.0439	0.0439	0.0439	87	88	80-120	80-120	0	20	0	20	0	20	0	20	0	20
Cadmium,Dissolved	0.0500	0.0544	0.0539	0.0539	0.0539	109	108	80-120	80-120	1	20	1	20	1	20	1	20	1	20
Chromium,Dissolved	0.0500	0.0529	0.0514	0.0514	0.0514	106	103	80-120	80-120	3	20	3	20	3	20	3	20	3	20
Cobalt,Dissolved	0.0500	0.0553	0.0540	0.0540	0.0540	111	108	80-120	80-120	2	20	2	20	2	20	2	20	2	20
Iron,Dissolved	5.00	5.22	5.02	5.02	5.02	104	100	80-120	80-120	4	20	4	20	4	20	4	20	4	20
Lead,Dissolved	0.0500	0.0501	0.0491	0.0491	0.0491	100	98	80-120	80-120	2	20	2	20	2	20	2	20	2	20
Manganese,Dissolved	0.0500	0.0486	0.0481	0.0481	0.0481	97	96	80-120	80-120	1	20	1	20	1	20	1	20	1	20
Nickel,Dissolved	0.0500	0.0554	0.0544	0.0544	0.0544	111	109	80-120	80-120	2	20	2	20	2	20	2	20	2	20
Selenium,Dissolved	0.0500	0.0476	0.0476	0.0476	0.0476	95	95	80-120	80-120	0	20	0	20	0	20	0	20	0	20
Vanadium,Dissolved	0.0500	0.0516	0.0501	0.0501	0.0501	103	100	80-120	80-120	3	20	3	20	3	20	3	20	3	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214872-2 05/02/17 06:04 • (LCSD) R3214872-3 05/02/17 06:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Uranium,Dissolved	0.0500	0.0515	0.0498	103	100	80-120			3	20

L905307-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-20 05/01/17 19:40 • (MS) R3214811-5 05/01/17 19:47 • (MSD) R3214811-6 05/01/17 19:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00103	0.0505	0.0504	99	99	1	75-125			0	20
Barium,Dissolved	0.0500	0.0149	0.0598	0.0606	90	91	1	75-125			1	20
Boron,Dissolved	0.0500	0.958	1.10	1.06	288	207	1	75-125	<u>V</u>	<u>V</u>	4	20
Cadmium,Dissolved	0.0500	U	0.0541	0.0540	108	108	1	75-125			0	20
Chromium,Dissolved	0.0500	U	0.0513	0.0514	103	103	1	75-125			0	20
Cobalt,Dissolved	0.0500	U	0.0527	0.0522	105	104	1	75-125			1	20
Iron,Dissolved	5.00	U	4.96	4.89	99	98	1	75-125			1	20
Lead,Dissolved	0.0500	U	0.0503	0.0490	101	98	1	75-125			3	20
Manganese,Dissolved	0.0500	0.00620	0.0539	0.0522	95	92	1	75-125			3	20
Nickel,Dissolved	0.0500	0.00255	0.0540	0.0540	103	103	1	75-125			0	20
Selenium,Dissolved	0.0500	0.0142	0.0630	0.0628	98	97	1	75-125			0	20
Vanadium,Dissolved	0.0500	0.00736	0.0581	0.0584	102	102	1	75-125			1	20

L905307-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-20 05/02/17 06:11 • (MS) R3214872-5 05/02/17 06:18 • (MSD) R3214872-6 05/02/17 06:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Uranium,Dissolved	0.0500	0.0373	0.0899	0.0881	105	102	1	75-125			2	20



Method Blank (MB)

(MB) R3214899-1 05/02/17 02:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Boron,Dissolved	0.00381	J	0.0015	0.0200
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	0.000218	J	0.00018	0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214899-2 05/02/17 02:21 • (LCSD) R3214899-3 05/02/17 02:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0485	0.0482	97	96	80-120			1	20
Barium,Dissolved	0.0500	0.0483	0.0483	97	97	80-120			0	20
Boron,Dissolved	0.0500	0.0504	0.0491	101	98	80-120			3	20
Cadmium,Dissolved	0.0500	0.0503	0.0505	101	101	80-120			1	20
Chromium,Dissolved	0.0500	0.0498	0.0494	100	99	80-120			1	20
Cobalt,Dissolved	0.0500	0.0510	0.0502	102	100	80-120			2	20
Iron,Dissolved	5.00	5.00	4.94	100	99	80-120			1	20
Lead,Dissolved	0.0500	0.0497	0.0496	99	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0508	0.0498	102	100	80-120			2	20
Nickel,Dissolved	0.0500	0.0506	0.0498	101	100	80-120			2	20
Selenium,Dissolved	0.0500	0.0484		97		80-120				
Uranium,Dissolved	0.0500	0.0494	0.0498	99	100	80-120			1	20
Vanadium,Dissolved	0.0500	0.0498	0.0488	100	98	80-120			2	20



L905300-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-21 05/02/17 02:28 • (MS) R3214899-5 05/02/17 02:35 • (MSD) R3214899-6 05/02/17 02:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	U	0.0496	0.0483	99	97	1	75-125		3	3	20
Barium,Dissolved	0.0500	U	0.0489	0.0481	98	96	1	75-125		2	2	20
Boron,Dissolved	0.0500	0.00172	0.0445	0.0452	86	87	1	75-125		2	2	20
Cadmium,Dissolved	0.0500	U	0.0503	0.0518	101	104	1	75-125		3	3	20
Chromium,Dissolved	0.0500	U	0.0516	0.0499	103	100	1	75-125		3	3	20
Cobalt,Dissolved	0.0500	U	0.0527	0.0511	105	102	1	75-125		3	3	20
Iron,Dissolved	5.00	U	5.10	4.95	102	99	1	75-125		3	3	20
Lead,Dissolved	0.0500	U	0.0492	0.0492	98	98	1	75-125		0	0	20
Manganese,Dissolved	0.0500	0.000400	0.0508	0.0494	101	98	1	75-125		3	3	20
Nickel,Dissolved	0.0500	U	0.0518	0.0502	104	100	1	75-125		3	3	20
Selenium,Dissolved	0.0500	U	0.0478	0.0475	96	95	1	75-125		1	1	20
Uranium,Dissolved	0.0500	U	0.0490	0.0490	98	98	1	75-125		0	0	20
Vanadium,Dissolved	0.0500	U	0.0506	0.0487	101	97	1	75-125		4	4	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214808-1 05/01/17 17:37

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.0025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214808-2 05/01/17 17:40 • (LCSD) R3214808-3 05/01/17 17:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	0.0495	0.0494	99	99	80-120			0	20
Barium	0.0500	0.0498	0.0483	100	97	80-120			3	20
Boron	0.0500	0.0446	0.0444	89	89	80-120			0	20
Cadmium	0.0500	0.0487	0.0504	97	101	80-120			3	20
Calcium	5.00	5.72	5.29	114	106	80-120			8	20
Chromium	0.0500	0.0491	0.0490	98	98	80-120			0	20
Cobalt	0.0500	0.0503	0.0517	101	103	80-120			3	20
Iron	5.00	4.84	4.92	97	98	80-120			2	20
Lead	0.0500	0.0481	0.0486	96	97	80-120			1	20
Manganese	0.0500	0.0490	0.0491	98	98	80-120			0	20
Nickel	0.0500	0.0504	0.0513	101	103	80-120			2	20
Potassium	5.00	4.87	4.89	97	98	80-120			0	20
Selenium	0.0500	0.0488	0.0493	98	99	80-120			1	20
Sodium	5.00	5.15	5.08	103	102	80-120			1	20
Uranium	0.0500	0.0471	0.0477	94	95	80-120			1	20
Vanadium	0.0500	0.0481	0.0493	96	99	80-120			2	20



L905307-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-20 05/01/17 17:47 • (MS) R3214808-5 05/01/17 17:54 • (MSD) R3214808-6 05/01/17 17:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00111	0.0476	0.0456	93	89	1	75-125		4	4	20
Barium	0.0500	0.0164	0.0643	0.0657	96	98	1	75-125		2	2	20
Boron	0.0500	1.01	1.08	1.08	138	144	1	75-125	EV	EV	0	20
Cadmium	0.0500	U	0.0500	0.0502	100	100	1	75-125			0	20
Calcium	5.00	594	615	597	434	64	1	75-125	V	V	3	20
Chromium	0.0500	U	0.0485	0.0471	97	94	1	75-125		3	3	20
Cobalt	0.0500	U	0.0491	0.0474	98	95	1	75-125		4	4	20
Potassium	5.00	1.87	6.90	6.56	100	94	1	75-125		5	5	20
Iron	5.00	0.0249	4.77	4.64	95	92	1	75-125		3	3	20
Lead	0.0500	U	0.0476	0.0476	95	95	1	75-125		0	0	20
Manganese	0.0500	0.00935	0.0504	0.0493	82	80	1	75-125		2	2	20
Nickel	0.0500	0.00143	0.0491	0.0480	95	93	1	75-125		2	2	20
Selenium	0.0500	0.0143	0.0635	0.0617	98	95	1	75-125		3	3	20
Sodium	5.00	202	216	209	265	135	1	75-125	V	V	3	20
Uranium	0.0500	0.0361	0.0846	0.0849	97	98	1	75-125		0	0	20
Vanadium	0.0500	0.00739	0.0556	0.0544	96	94	1	75-125		2	2	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215542-1 05/03/17 21:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Boron	U		0.0015	0.0200

Method Blank (MB)

(MB) R3215691-1 05/04/17 15:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	0.000481	J	0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	0.00135	J	0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215542-2 05/03/17 21:32 • (LCSD) R3215542-3 05/03/17 21:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Boron	0.0500	0.0468	0.0446	94	89	80-120			5	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215691-2 05/04/17 15:44 • (LCSD) R3215691-3 05/04/17 15:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0500	0.0490	100	98	80-120			2	20
Barium	0.0500	0.0515	0.0499	103	100	80-120			3	20
Cadmium	0.0500	0.0507	0.0508	101	102	80-120			0	20
Calcium	5.00	5.14	4.98	103	100	80-120			3	20

ACCOUNT:

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PROJECT:

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215691-2 05/04/17 15:44 • (LCSD) R3215691-3 05/04/17 15:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chromium	0.0500	0.0498	0.0492	100	98	80-120			1	20
Cobalt	0.0500	0.0522	0.0509	104	102	80-120			3	20
Iron	5.00	5.09	4.97	102	99	80-120			3	20
Lead	0.0500	0.0493	0.0490	99	98	80-120			1	20
Manganese	0.0500	0.0490	0.0479	98	96	80-120			2	20
Nickel	0.0500	0.0523	0.0504	105	101	80-120			4	20
Potassium	5.00	4.95	4.90	99	98	80-120			1	20
Selenium	0.0500	0.0498	0.0468	100	94	80-120			6	20
Sodium	5.00	5.02	4.95	100	99	80-120			1	20
Uranium	0.0500	0.0490	0.0485	98	97	80-120			1	20
Vanadium	0.0500	0.0495	0.0483	99	97	80-120			2	20

L905307-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-31 05/04/17 15:52 • (MS) R3215691-5 05/04/17 15:59 • (MSD) R3215691-6 05/04/17 16:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	0.0570	0.106	0.104	99	94	1	75-125			2	20
Barium	0.0500	0.0451	0.0950	0.0946	100	99	1	75-125			1	20
Cadmium	0.0500	U	0.0511	0.0506	102	101	1	75-125			1	20
Calcium	5.00	197	199	198	40	21	1	75-125	V	V	0	20
Chromium	0.0500	U	0.0485	0.0473	97	95	1	75-125			2	20
Cobalt	0.0500	U	0.0503	0.0490	101	98	1	75-125			3	20
Potassium	5.00	5.20	10.2	10.1	99	98	1	75-125			1	20
Iron	5.00	U	4.94	4.86	99	97	1	75-125			2	20
Lead	0.0500	U	0.0505	0.0504	101	101	1	75-125			0	20
Manganese	0.0500	0.00134	0.0499	0.0480	97	93	1	75-125			4	20
Nickel	0.0500	U	0.0502	0.0486	100	97	1	75-125			3	20
Selenium	0.0500	0.00166	0.0454	0.0469	88	90	1	75-125			3	20
Sodium	5.00	48.7	52.3	52.0	71	67	1	75-125	V	V	0	20
Uranium	0.0500	U	0.0521	0.0512	104	102	1	75-125			2	20
Vanadium	0.0500	0.000580	0.0500	0.0486	99	96	1	75-125			3	20



Method Blank (MB)

(MB) R3215774-1 05/05/17 05:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	0.0162	J	0.015	0.100
Manganese	U		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

Method Blank (MB)

(MB) R3215916-1 05/05/17 12:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00024	0.00200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215774-2 05/05/17 05:24 • (LCSD) R3215774-3 05/05/17 05:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0458	0.0459	92	92	80-120			0	20
Barium	0.0500	0.0479	0.0475	96	95	80-120			1	20
Calcium	5.00	4.70	4.70	94	94	80-120			0	20
Chromium	0.0500	0.0464	0.0463	93	93	80-120			0	20
Iron	5.00	4.76	4.74	95	95	80-120			0	20
Manganese	0.0500	0.0461	0.0457	92	91	80-120			1	20
Potassium	5.00	4.69	4.69	94	94	80-120			0	20
Selenium	0.0500	0.0447	0.0447	89	89	80-120			0	20
Sodium	5.00	4.74	4.78	95	96	80-120			1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215916-2 05/05/17 13:02 • (LCSD) R3215916-3 05/05/17 13:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Lead	0.0500	0.0489	0.0487	98	97	80-120			0	20



L905928-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905928-01 05/05/17 05:31 • (MS) R3215774-5 05/05/17 05:38 • (MSD) R3215774-6 05/05/17 05:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.000893	0.0473	0.0478	93	94	1	75-125			1	20
Barium	0.0500	0.172	0.215	0.212	87	81	1	75-125			2	20
Calcium	5.00		102	102	68	57	1	75-125	V	V	1	20
Chromium	0.0500	U	0.0476	0.0483	95	97	1	75-125			1	20
Potassium	5.00		5.95	5.96	95	95	1	75-125			0	20
Iron	5.00		4.83	4.86	96	97	1	75-125			1	20
Manganese	0.0500	0.00802	0.0528	0.0528	90	90	1	75-125			0	20
Selenium	0.0500	0.00299	0.0499	0.0495	94	93	1	75-125			1	20
Sodium	5.00		9.58	9.63	99	100	1	75-125			0	20

L905928-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905928-01 05/05/17 13:09 • (MS) R3215916-5 05/05/17 13:16 • (MSD) R3215916-6 05/05/17 13:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	0.0500	U	0.0498	0.0499	100	100	1	75-125			0	20



Method Blank (MB)

(MB) R3215621-3 04/28/17 14:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.0314	0.100
(S) <i>o,o</i> -Trifluorotoluene(FID) 102			77.0-122	

Method Blank (MB)

(MB) R3215632-3 04/28/17 17:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.0314	0.100
(S) <i>o,o</i> -Trifluorotoluene(FID) 99.0			77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215621-1 04/28/17 13:16 • (LCSD) R3215621-2 04/28/17 13:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.34	5.24	97.1	95.2	71.0-136			1.92	20
(S) <i>o,o</i> -Trifluorotoluene(FID)				105	105	77.0-122				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215632-1 04/28/17 16:38 • (LCSD) R3215632-2 04/28/17 17:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.13	5.06	93.3	91.9	71.0-136			1.45	20
(S) <i>o,o</i> -Trifluorotoluene(FID)				99.7	100	77.0-122				

L905300-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-20 04/28/17 14:39 • (MS) R3215621-4 04/28/17 15:00 • (MSD) R3215621-5 04/28/17 15:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.402	5.77	5.81	97.6	98.3	1	18.0-160			0.700	20
(S) <i>o,o</i> -Trifluorotoluene(FID)					105	104		77.0-122				



Method Blank (MB)

(MB) R3214999-3 04/28/17 13:37				
MB Result		MB Qualifier		MB RD/L
mg/l		mg/l		mg/l
Analyte				
TPH (GC/FID) Low Fraction	U	0.0314		0.100
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)	98.4			77.0-122

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214999-1 04/28/17 12:31 • (LCSD) R3214999-2 04/28/17 12:53									
Spike Amount		LCS Result	LCSD Result	LCS Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
mg/l		mg/l	mg/l	%	%			%	%
Analyte									
TPH (GC/FID) Low Fraction	5.50	5.36	5.28	97.5	71.0-136			1.61	20
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)				101	77.0-122				

L905440-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905440-05 04/28/17 17:27 • (MS) R3214999-4 04/28/17 14:28 • (MSD) R3214999-5 04/28/17 14:50									
Spike Amount		Original Result	MS Result	MSD Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier	RPD
mg/l		mg/l	mg/l	mg/l	%		%		%
Analyte									
TPH (GC/FID) Low Fraction	5.50	0.0903	5.25	5.42	93.8	1	18.0-160	3.23	20
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)				100	101		77.0-122		



Method Blank (MB)

(MB) R3214910-4 04/29/17 21:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3214910-4 04/29/17 21:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	104		80.0-120	
(S) Dibromofluoromethane	100		76.0-123	
(S) 4-Bromofluorobenzene	98.4		80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214910-1 04/29/17 20:39 • (LCSD) R3214910-3 04/29/17 21:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.191	0.201	153	161	10.0-160		J4	5.15	23
Benzene	0.0250	0.0213	0.0214	85.1	85.6	69.0-123			0.590	20
Bromodichloromethane	0.0250	0.0217	0.0218	86.8	87.2	76.0-120			0.560	20
Bromoform	0.0250	0.0239	0.0240	95.6	96.2	67.0-132			0.580	20
Bromomethane	0.0250	0.0233	0.0237	93.2	94.9	18.0-160			1.80	20
n-Butylbenzene	0.0250	0.0192	0.0194	76.8	77.6	72.0-126			0.940	20
sec-Butylbenzene	0.0250	0.0208	0.0211	83.2	84.5	74.0-121			1.57	20
Carbon disulfide	0.0250	0.0194	0.0194	77.6	77.8	55.0-127			0.200	20
Carbon tetrachloride	0.0250	0.0256	0.0239	102	95.6	63.0-122			6.75	20
Chlorobenzene	0.0250	0.0211	0.0211	84.3	84.5	79.0-121			0.320	20
Chlorodibromomethane	0.0250	0.0222	0.0222	89.0	88.8	75.0-125			0.160	20
Chloroethane	0.0250	0.0217	0.0235	86.7	94.0	47.0-152			8.12	20
Chloroform	0.0250	0.0209	0.0210	83.7	83.9	72.0-121			0.270	20
Chloromethane	0.0250	0.0239	0.0246	95.7	98.3	48.0-139			2.68	20
1,2-Dibromoethane	0.0250	0.0220	0.0218	87.9	87.1	77.0-123			0.870	20
1,1-Dichloroethane	0.0250	0.0207	0.0208	82.8	83.1	70.0-126			0.330	20
1,2-Dichloroethane	0.0250	0.0209	0.0208	83.6	83.1	67.0-126			0.700	20
1,1-Dichloroethene	0.0250	0.0202	0.0204	80.8	81.6	64.0-129			0.910	20
cis-1,2-Dichloroethene	0.0250	0.0206	0.0205	82.5	82.2	73.0-120			0.360	20
trans-1,2-Dichloroethene	0.0250	0.0199	0.0202	79.5	81.0	71.0-121			1.76	20
1,2-Dichloropropane	0.0250	0.0223	0.0222	89.1	88.7	75.0-125			0.460	20
cis-1,3-Dichloropropene	0.0250	0.0219	0.0221	87.8	88.5	79.0-123			0.900	20
trans-1,3-Dichloropropene	0.0250	0.0224	0.0223	89.6	89.4	74.0-127			0.220	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214910-1 04/29/17 20:39 • (LCSD) R3214910-3 04/29/17 21:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0218	0.0219	87.2	87.7	77.0-120			0.520	20
2-Hexanone	0.125	0.152	0.154	122	123	58.0-147			1.12	20
Isopropylbenzene	0.0250	0.0210	0.0212	84.1	84.7	75.0-120			0.690	20
p-Isopropyltoluene	0.0250	0.0210	0.0214	84.2	85.7	74.0-126			1.80	20
2-Butanone (MEK)	0.125	0.155	0.158	124	126	37.0-158			1.95	20
Methylene Chloride	0.0250	0.0205	0.0205	81.9	82.1	66.0-121			0.240	20
4-Methyl-2-pentanone (MIBK)	0.125	0.132	0.133	105	106	59.0-143			0.860	20
Methyl tert-butyl ether	0.0250	0.0223	0.0226	89.3	90.6	64.0-123			1.48	20
Naphthalene	0.0250	0.0173	0.0179	69.0	71.5	62.0-128			3.46	20
n-Propylbenzene	0.0250	0.0209	0.0211	83.8	84.5	79.0-120			0.840	20
Styrene	0.0250	0.0221	0.0221	88.2	88.2	78.0-124			0.0100	20
1,1,1,2-Tetrachloroethane	0.0250	0.0215	0.0214	86.0	85.7	75.0-122			0.360	20
1,1,2,2-Tetrachloroethane	0.0250	0.0211	0.0215	84.3	86.0	71.0-122			1.98	20
Tetrachloroethene	0.0250	0.0221	0.0224	88.6	89.4	70.0-127			0.950	20
Toluene	0.0250	0.0220	0.0220	87.9	88.0	77.0-120			0.160	20
1,1,1-Trichloroethane	0.0250	0.0205	0.0204	81.8	81.8	68.0-122			0.0400	20
1,1,2-Trichloroethane	0.0250	0.0226	0.0226	90.6	90.4	78.0-120			0.190	20
Trichloroethene	0.0250	0.0215	0.0219	86.2	87.5	78.0-120			1.54	20
1,2,4-Trimethylbenzene	0.0250	0.0206	0.0208	82.5	83.4	75.0-120			0.990	20
1,3,5-Trimethylbenzene	0.0250	0.0207	0.0210	82.8	83.8	75.0-120			1.25	20
Vinyl chloride	0.0250	0.0239	0.0242	95.7	96.6	64.0-133			0.960	20
Xylenes, Total	0.0750	0.0654	0.0658	87.2	87.7	77.0-120			0.610	20
o-Xylene	0.0250	0.0215	0.0217	86.1	86.8	78.0-120			0.770	20
m&p-Xylenes	0.0500	0.0439	0.0441	87.8	88.2	77.0-120			0.420	20
(S) Toluene-d8			104	104	104	80.0-120				
(S) Dibromofluoromethane			99.6	100	100	76.0-123				
(S) 4-Bromofluorobenzene			99.2	99.8	99.8	80.0-120				

L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	19.3	0.824	0.828	659	663	1	10.0-139	V	V	0.510	25
Benzene	0.0250	0.0153	0.0203	0.0203	81.3	81.0	1	34.0-147			0.290	20
Bromodichloromethane	0.0250	U	0.0225	0.0225	90.2	90.0	1	52.0-135			0.240	20
Bromoform	0.0250	U	0.0204	0.0209	81.8	83.7	1	50.0-146			2.33	20
Bromomethane	0.0250	U	0.0230	0.0228	91.9	91.2	1	10.0-160			0.760	23
n-Butylbenzene	0.0250	U	0.0194	0.0203	77.6	81.1	1	50.0-144			4.40	20



L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

Analyte	Spike Amount		Original Result		MS Result		MSD Result		MS Rec.		Dilution		Rec. Limits		MS Qualifier		MSD Qualifier		RPD Limits	
	mg/l		mg/l		mg/l	%	mg/l	%	%				%			%		%	%	
sec-Butylbenzene	0.0250	U	0.0213	U	0.0213	85.3	0.0213	85.0	1	1	1	48.0-143				0.320		0.320	20	
Carbon disulfide	0.0250	U	0.0208	U	0.0207	83.3	0.0207	83.0	1	1	1	10.0-147				0.350		0.350	20	
Carbon tetrachloride	0.0250	U	0.0202	U	0.0203	80.9	0.0203	81.3	1	1	1	41.0-138				0.370		0.370	20	
Chlorobenzene	0.0250	U	0.0213	U	0.0216	85.3	0.0216	86.3	1	1	1	52.0-141				1.27		1.27	20	
Chlorodibromomethane	0.0250	U	0.0223	U	0.0228	89.2	0.0228	91.1	1	1	1	54.0-142				2.13		2.13	20	
Chloroethane	0.0250	0.187	0.0304	U	0.0294	122	0.0294	118	1	1	1	23.0-160				3.20		3.20	20	
Chloroform	0.0250	U	0.0214	U	0.0215	85.7	0.0215	86.0	1	1	1	50.0-139				0.370		0.370	20	
Chloromethane	0.0250	U	0.0233	U	0.0232	93.3	0.0232	92.7	1	1	1	14.0-151				0.690		0.690	20	
1,2-Dibromoethane	0.0250	U	0.0219	U	0.0221	87.6	0.0221	88.5	1	1	1	54.0-140			EV		EV	1.02	20	
1,1-Dichloroethane	0.0250	U	0.755	U	0.753	3020	0.753	3010	1	1	1	47.0-143			EV		EV	0.290	20	
1,2-Dichloroethane	0.0250	0.356	0.0352	U	0.0348	141	0.0348	139	1	1	1	47.0-141						1.00	20	
1,1-Dichloroethene	0.0250	0.519	0.0421	U	0.0420	169	0.0420	168	1	1	1	31.0-148			V		V	0.240	20	
cis-1,2-Dichloroethene	0.0250	U	ND	U	ND	0.000	ND	0.000	1	1	1	43.0-142			J6		J6	0.000	20	
trans-1,2-Dichloroethene	0.0250	1.27	0.0679	U	0.0682	272	0.0682	273	1	1	1	36.0-141			V		V	0.400	20	
1,2-Dichloropropane	0.0250	U	0.0229	U	0.0229	91.5	0.0229	91.7	1	1	1	51.0-141						0.260	20	
cis-1,3-Dichloropropene	0.0250	U	0.0247	U	0.0249	98.7	0.0249	99.4	1	1	1	53.0-139						0.720	20	
trans-1,3-Dichloropropene	0.0250	U	0.0236	U	0.0239	94.3	0.0239	95.7	1	1	1	51.0-143						1.47	20	
Ethylbenzene	0.0250	0.0632	0.0222	U	0.0223	88.7	0.0223	89.1	1	1	1	42.0-147						0.430	20	
2-Hexanone	0.125	U	0.126	U	0.128	101	0.128	103	1	1	1	36.0-145						1.59	23	
Isopropylbenzene	0.0250	U	0.0190	U	0.0191	75.9	0.0191	76.3	1	1	1	48.0-141						0.600	20	
p-Isopropyltoluene	0.0250	U	0.0220	U	0.0222	88.2	0.0222	88.8	1	1	1	49.0-146						0.670	20	
2-Butanone (MEK)	0.125	U	1.56	U	1.55	1250	1.55	1240	1	1	1	12.0-149			EV		EV	0.610	24	
Methylene Chloride	0.0250	U	0.217	U	0.217	869	0.217	867	1	1	1	42.0-135			EV		EV	0.220	20	
4-Methyl-2-pentanone (MIBK)	0.125	4.11	0.303	U	0.303	242	0.303	243	1	1	1	44.0-160			V		V	0.150	22	
Methyl tert-butyl ether	0.0250	U	0.0232	U	0.0228	92.9	0.0228	91.4	1	1	1	42.0-142						1.68	20	
Naphthalene	0.0250	U	0.0160	U	0.0178	64.1	0.0178	71.1	1	1	1	42.0-146						10.4	24	
n-Propylbenzene	0.0250	U	0.0195	U	0.0196	77.8	0.0196	78.2	1	1	1	47.0-144						0.500	20	
Styrene	0.0250	U	0.0207	U	0.0208	82.9	0.0208	83.3	1	1	1	47.0-147						0.510	20	
1,1,1,2-Tetrachloroethane	0.0250	U	0.0214	U	0.0215	85.6	0.0215	86.2	1	1	1	52.0-140						0.710	20	
1,1,2,2-Tetrachloroethane	0.0250	U	0.0226	U	0.0227	90.4	0.0227	91.0	1	1	1	46.0-149						0.660	20	
Tetrachloroethene	0.0250	U	0.0224	U	0.0224	89.6	0.0224	89.6	1	1	1	38.0-147						0.0100	20	
Toluene	0.0250	0.716	0.0466	U	0.0471	186	0.0471	188	1	1	1	42.0-141			V		V	1.12	20	
1,1,1-Trichloroethane	0.0250	U	0.368	U	0.368	1470	0.368	1470	1	1	1	46.0-140			EV		EV	0.0300	20	
1,1,2-Trichloroethane	0.0250	0.101	0.0266	U	0.0266	106	0.0264	106	1	1	1	54.0-139						0.740	20	
Trichloroethene	0.0250	U	0.0217	U	0.0217	86.7	0.0217	86.9	1	1	1	32.0-156						0.170	20	
1,2,4-Trimethylbenzene	0.0250	U	0.0212	U	0.0213	84.8	0.0213	85.1	1	1	1	41.0-146						0.350	20	
1,3,5-Trimethylbenzene	0.0250	U	0.0206	U	0.0209	82.4	0.0209	83.7	1	1	1	44.0-143						1.61	20	
Vinyl chloride	0.0250	U	1.48	U	1.50	5930	1.50	6010	1	1	1	24.0-153			EV		EV	1.34	20	
Xylenes, Total	0.0750	0.237	0.0686	U	0.0691	91.5	0.0691	92.1	1	1	1	41.0-148						0.730	20	
o-Xylene	0.0250	0.0510	0.0216	U	0.0216	86.3	0.0216	86.3	1	1	1	44.0-146						0.0100	20	



L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
m&p-Xylenes	0.0500	0.186	0.0470	0.0475	93.9	95.0	1	41.0-147		1.11		20
(S) Toluene-d8					105	106		80.0-120				
(S) Dibromofluoromethane					101	100		76.0-123				
(S) 4-Bromofluorobenzene					97.6	98.5		80.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215008-3 04/29/17 18:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215O08-3 04/29/17 18:30

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	105		80.0-120	
(S) Dibromofluoromethane	101		76.0-123	
(S) 4-Bromofluorobenzene	93.5		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215O08-2 04/29/17 17:20 • (LCSD) R3215O08-4 04/29/17 18:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.0703	0.0648	56.2	51.8	10.0-160			8.20	23
Benzene	0.0250	0.0244	0.0243	97.5	97.1	69.0-123			0.380	20
Bromodichloromethane	0.0250	0.0215	0.0218	85.9	87.1	76.0-120			1.31	20
Bromoform	0.0250	0.0176	0.0179	70.2	71.4	67.0-132			1.68	20
Bromomethane	0.0250	0.0216	0.0226	86.3	90.2	18.0-160			4.41	20
n-Butylbenzene	0.0250	0.0294	0.0282	118	113	72.0-126			4.41	20
sec-Butylbenzene	0.0250	0.0229	0.0233	91.7	93.2	74.0-121			1.62	20
Carbon disulfide	0.0250	0.0225	0.0228	89.8	91.1	55.0-127			1.40	20
Carbon tetrachloride	0.0250	0.0212	0.0219	84.7	87.8	63.0-122			3.58	20
Chlorobenzene	0.0250	0.0206	0.0203	82.3	81.3	79.0-121			1.30	20
Chlorodibromomethane	0.0250	0.0190	0.0189	75.9	75.6	75.0-125			0.360	20
Chloroethane	0.0250	0.0272	0.0277	109	111	47.0-152			1.85	20
Chloroform	0.0250	0.0218	0.0226	87.0	90.5	72.0-121			3.86	20
Chloromethane	0.0250	0.0263	0.0273	105	109	48.0-139			3.54	20
1,2-Dibromoethane	0.0250	0.0208	0.0205	83.2	82.1	77.0-123			1.30	20
1,1-Dichloroethane	0.0250	0.0247	0.0255	98.8	102	70.0-126			3.30	20
1,2-Dichloroethane	0.0250	0.0234	0.0234	93.5	93.6	67.0-126			0.0200	20
1,1-Dichloroethene	0.0250	0.0226	0.0227	90.4	90.9	64.0-129			0.510	20
cis-1,2-Dichloroethene	0.0250	0.0216	0.0221	86.6	88.4	73.0-120			2.10	20
trans-1,2-Dichloroethene	0.0250	0.0222	0.0230	88.7	92.1	71.0-121			3.74	20
1,2-Dichloropropane	0.0250	0.0264	0.0259	105	104	75.0-125			1.80	20
cis-1,3-Dichloropropene	0.0250	0.0241	0.0239	96.2	95.4	79.0-123			0.850	20
trans-1,3-Dichloropropene	0.0250	0.0234	0.0225	93.7	89.9	74.0-127			4.17	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215008-2 04/29/17 17:20 • (LCSD) R3215008-4 04/29/17 18:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
							%		%		%	
Ethylbenzene	0.0250	0.0216	0.0214	86.6	85.6	77.0-120					1.18	
2-Hexanone	0.125	0.0970	0.0899	77.6	71.9	58.0-147					7.57	
Isopropylbenzene	0.0250	0.0223	0.0224	89.1	89.6	75.0-120					0.550	
p-Isopropyltoluene	0.0250	0.0215	0.0219	86.1	87.8	74.0-126					1.89	
2-Butanone (MEK)	0.125	0.157	0.150	125	120	37.0-158					3.94	
Methylene Chloride	0.0250	0.0217	0.0221	86.8	88.3	66.0-121					1.72	
4-Methyl-2-pentanone (MIBK)	0.125	0.136	0.131	108	105	59.0-143					3.46	
Methyl tert-butyl ether	0.0250	0.0227	0.0232	90.6	93.0	64.0-123					2.56	
Naphthalene	0.0250	0.0211	0.0198	84.3	79.3	62.0-128					6.12	
n-Propylbenzene	0.0250	0.0232	0.0235	92.9	94.2	79.0-120					1.37	
Styrene	0.0250	0.0208	0.0201	83.0	80.3	78.0-124					3.32	
1,1,1,2-Tetrachloroethane	0.0250	0.0189	0.0194	75.8	77.5	75.0-122					2.18	
1,1,2,2-Tetrachloroethane	0.0250	0.0224	0.0228	89.7	91.0	71.0-122					1.41	
Tetrachloroethene	0.0250	0.0209	0.0202	83.6	80.7	70.0-127					3.43	
Toluene	0.0250	0.0232	0.0232	92.9	92.6	77.0-120					0.280	
1,1,1-Trichloroethane	0.0250	0.0236	0.0244	94.3	97.5	68.0-122					3.29	
1,1,2-Trichloroethane	0.0250	0.0211	0.0209	84.5	83.8	78.0-120					0.870	
Trichloroethene	0.0250	0.0209	0.0211	83.4	84.4	78.0-120					1.17	
1,2,4-Trimethylbenzene	0.0250	0.0208	0.0212	83.2	84.7	75.0-120					1.79	
1,3,5-Trimethylbenzene	0.0250	0.0209	0.0213	83.5	85.4	75.0-120					2.17	
Vinyl chloride	0.0250	0.0290	0.0296	116	118	64.0-133					1.80	
Xylenes, Total	0.0750	0.0632	0.0636	84.3	84.8	77.0-120					0.630	
o-Xylene	0.0250	0.0205	0.0208	82.0	83.3	78.0-120					1.59	
m&p-Xylenes	0.0500	0.0427	0.0428	85.3	85.7	77.0-120					0.410	
(S) Toluene-d8				104	104	80.0-120						
(S) Dibromofluoromethane				95.3	98.6	76.0-123						
(S) 4-Bromofluorobenzene				89.8	90.9	80.0-120						



Method Blank (MB)

(MB) R3215631-3 04/29/17 19:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215631-3 04/29/17 19:44

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	101		80.0-120	
(S) Dibromofluoromethane	97.3		76.0-123	
(S) 4-Bromofluorobenzene	100		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215631-1 04/29/17 18:53 • (LCSD) R3215631-2 04/29/17 19:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.164	0.168	131	134	10.0-160			2.63	23
Benzene	0.0250	0.0221	0.0217	88.3	87.0	69.0-123			1.50	20
Bromodichloromethane	0.0250	0.0203	0.0209	81.2	83.6	76.0-120			2.92	20
Bromoform	0.0250	0.0173	0.0190	69.2	76.2	67.0-132			9.57	20
Bromomethane	0.0250	0.0183	0.0184	73.1	73.4	18.0-160			0.420	20
n-Butylbenzene	0.0250	0.0200	0.0202	79.8	80.8	72.0-126			1.24	20
sec-Butylbenzene	0.0250	0.0215	0.0216	85.9	86.4	74.0-121			0.550	20
Carbon disulfide	0.0250	0.0245	0.0241	98.1	96.3	55.0-127			1.79	20
Carbon tetrachloride	0.0250	0.0138	0.0154	55.3	61.5	63.0-122	J4	J4	10.7	20
Chlorobenzene	0.0250	0.0236	0.0237	94.2	95.0	79.0-121			0.760	20
Chlorodibromomethane	0.0250	0.0180	0.0196	72.0	78.4	75.0-125	J4		8.46	20
Chloroethane	0.0250	0.0197	0.0186	78.6	74.5	47.0-152			5.37	20
Chloroform	0.0250	0.0227	0.0223	90.7	89.1	72.0-121			1.78	20
Chloromethane	0.0250	0.0271	0.0286	108	114	48.0-139			5.43	20
1,2-Dibromoethane	0.0250	0.0220	0.0229	87.8	91.7	77.0-123			4.34	20
1,1-Dichloroethane	0.0250	0.0220	0.0214	88.0	85.4	70.0-126			2.95	20
1,2-Dichloroethane	0.0250	0.0233	0.0227	93.0	90.6	67.0-126			2.63	20
1,1-Dichloroethene	0.0250	0.0251	0.0241	100	96.5	64.0-129			3.95	20
cis-1,2-Dichloroethene	0.0250	0.0222	0.0216	88.8	86.4	73.0-120			2.74	20
trans-1,2-Dichloroethene	0.0250	0.0225	0.0220	90.0	87.8	71.0-121			2.41	20
1,2-Dichloropropane	0.0250	0.0222	0.0218	88.7	87.3	75.0-125			1.59	20
cis-1,3-Dichloropropene	0.0250	0.0198	0.0206	79.4	82.4	79.0-123			3.69	20
trans-1,3-Dichloropropene	0.0250	0.0189	0.0195	75.5	78.0	74.0-127			3.25	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215631-1 04/29/17 18:53 • (LCSD) R3215631-2 04/29/17 19:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
Ethylbenzene	0.0250	0.0234	0.0236	93.5	94.2	77.0-120					0.780	20
2-Hexanone	0.125	0.112	0.121	89.4	96.5	58.0-147					7.58	20
Isopropylbenzene	0.0250	0.0231	0.0234	92.3	93.7	75.0-120					1.55	20
p-Isopropyltoluene	0.0250	0.0221	0.0220	88.3	88.2	74.0-126					0.120	20
2-Butanone (MEK)	0.125	0.0933	0.0961	74.6	76.9	37.0-158					2.99	20
Methylene Chloride	0.0250	0.0217	0.0212	87.0	84.9	66.0-121					2.38	20
4-Methyl-2-pentanone (MIBK)	0.125	0.0970	0.102	77.6	81.7	59.0-143					5.14	20
Methyl tert-butyl ether	0.0250	0.0209	0.0209	83.5	83.5	64.0-123					0.0800	20
Naphthalene	0.0250	0.0168	0.0183	67.1	73.3	62.0-128					8.82	20
n-Propylbenzene	0.0250	0.0224	0.0227	89.5	90.8	79.0-120					1.41	20
Styrene	0.0250	0.0225	0.0229	89.8	91.4	78.0-124					1.75	20
1,1,1,2-Tetrachloroethane	0.0250	0.0201	0.0207	80.4	82.8	75.0-122					3.01	20
1,1,2,2-Tetrachloroethane	0.0250	0.0213	0.0222	85.2	88.9	71.0-122					4.28	20
Tetrachloroethene	0.0250	0.0252	0.0258	101	103	70.0-127					2.52	20
Toluene	0.0250	0.0236	0.0231	94.3	92.3	77.0-120					2.08	20
1,1,1-Trichloroethane	0.0250	0.0226	0.0226	90.3	90.5	68.0-122					0.290	20
1,1,2-Trichloroethane	0.0250	0.0222	0.0229	88.9	91.7	78.0-120					3.07	20
Trichloroethene	0.0250	0.0252	0.0252	101	101	78.0-120					0.270	20
1,2,4-Trimethylbenzene	0.0250	0.0223	0.0225	89.2	90.0	75.0-120					0.790	20
1,3,5-Trimethylbenzene	0.0250	0.0221	0.0224	88.3	89.7	75.0-120					1.52	20
Vinyl chloride	0.0250	0.0208	0.0211	83.3	84.4	64.0-133					1.35	20
Xylenes, Total	0.0750	0.0694	0.0694	92.5	92.5	77.0-120					0.000	20
o-Xylene	0.0250	0.0228	0.0231	91.3	92.6	78.0-120					1.42	20
m&p-Xylenes	0.0500	0.0466	0.0463	93.2	92.7	77.0-120					0.520	20
(S) Toluene-d8				101	99.7	80.0-120						
(S) Dibromofluoromethane				97.0	96.3	76.0-123						
(S) 4-Bromofluorobenzene				102	102	80.0-120						



Method Blank (MB)

(MB) R3214594-3 04/30/17 10:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
2-Butanone (MEK)	U		0.00393	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
n-Propylbenzene	U		0.000349	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3214594-3 04/30/17 10:28

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
Vinyl chloride	U		0.000259	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	101		80.0-120	
(S) Dibromofluoromethane	96.9		76.0-123	
(S) 4-Bromofluorobenzene	105		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214594-1 04/30/17 09:24 • (LCSD) R3214594-2 04/30/17 09:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.157	0.149	126	119	10.0-160			5.39	23
Benzene	0.0250	0.0228	0.0218	91.2	87.2	69.0-123			4.53	20
Bromodichloromethane	0.0250	0.0218	0.0216	87.0	86.3	76.0-120			0.840	20
Bromoform	0.0250	0.0236	0.0241	94.5	96.6	67.0-132			2.20	20
Bromomethane	0.0250	0.0175	0.0173	70.0	69.0	18.0-160			1.48	20
n-Butylbenzene	0.0250	0.0241	0.0239	96.2	95.5	72.0-126			0.740	20
sec-Butylbenzene	0.0250	0.0255	0.0253	102	101	74.0-121			0.690	20
Carbon disulfide	0.0250	0.0177	0.0170	70.8	68.1	55.0-127			3.95	20
Carbon tetrachloride	0.0250	0.0207	0.0195	83.0	77.8	63.0-122			6.41	20
Chlorobenzene	0.0250	0.0243	0.0240	97.1	95.8	79.0-121			1.33	20
Chlorodibromomethane	0.0250	0.0232	0.0233	92.7	93.3	75.0-125			0.720	20
Chloroethane	0.0250	0.0213	0.0208	85.2	83.2	47.0-152			2.45	20
Chloroform	0.0250	0.0223	0.0215	89.2	85.9	72.0-121			3.79	20
Chloromethane	0.0250	0.0238	0.0228	95.2	91.2	48.0-139			4.22	20
1,2-Dibromoethane	0.0250	0.0231	0.0233	92.2	93.0	77.0-123			0.840	20
1,1-Dichloroethane	0.0250	0.0230	0.0219	91.8	87.8	70.0-126			4.53	20
1,2-Dichloroethane	0.0250	0.0210	0.0211	84.1	84.5	67.0-126			0.440	20
1,1-Dichloroethene	0.0250	0.0203	0.0194	81.2	77.6	64.0-129			4.55	20
cis-1,2-Dichloroethene	0.0250	0.0229	0.0222	91.6	88.8	73.0-120			3.08	20
trans-1,2-Dichloroethene	0.0250	0.0228	0.0216	91.0	86.4	71.0-121			5.20	20
1,2-Dichloropropane	0.0250	0.0241	0.0235	96.4	94.1	75.0-125			2.43	20
cis-1,3-Dichloropropene	0.0250	0.0234	0.0236	93.8	94.4	79.0-123			0.680	20
trans-1,3-Dichloropropene	0.0250	0.0226	0.0228	90.4	91.3	74.0-127			1.07	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214594-1 04/30/17 09:24 • (LCSD) R3214594-2 04/30/17 09:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
							LCS Qualifier		LCSD Qualifier		RPD	
Ethylbenzene	0.0250	0.0231	0.0229	92.4	91.6	77.0-120					0.870	
2-Hexanone	0.125	0.134	0.139	107	111	58.0-147					3.45	
Isopropylbenzene	0.0250	0.0235	0.0236	94.0	94.4	75.0-120					0.510	
2-Butanone (MEK)	0.125	0.115	0.112	91.9	89.9	37.0-158					2.25	
p-Isopropyltoluene	0.0250	0.0265	0.0264	106	106	74.0-126					0.200	
Methylene Chloride	0.0250	0.0252	0.0240	101	96.1	66.0-121					4.82	
4-Methyl-2-pentanone (MIBK)	0.125	0.120	0.124	96.1	98.9	59.0-143					2.87	
Methyl tert-butyl ether	0.0250	0.0209	0.0213	83.8	85.2	64.0-123					1.65	
Naphthalene	0.0250	0.0232	0.0258	92.9	103	62.0-128					10.4	
n-Propylbenzene	0.0250	0.0255	0.0247	102	98.8	79.0-120					3.01	
Styrene	0.0250	0.0247	0.0248	98.7	99.1	78.0-124					0.430	
1,1,1,2-Tetrachloroethane	0.0250	0.0238	0.0241	95.4	96.4	75.0-122					1.03	
1,1,2,2-Tetrachloroethane	0.0250	0.0259	0.0266	104	107	71.0-122					2.80	
Tetrachloroethene	0.0250	0.0238	0.0228	95.2	91.0	70.0-127					4.53	
Toluene	0.0250	0.0227	0.0215	90.6	86.1	77.0-120					5.06	
1,1,1-Trichloroethane	0.0250	0.0218	0.0209	87.2	83.6	68.0-122					4.29	
1,1,2-Trichloroethane	0.0250	0.0243	0.0247	97.4	98.7	78.0-120					1.38	
Trichloroethene	0.0250	0.0225	0.0215	89.9	86.0	78.0-120					4.49	
1,2,4-Trimethylbenzene	0.0250	0.0253	0.0253	101	101	75.0-120					0.100	
1,3,5-Trimethylbenzene	0.0250	0.0257	0.0254	103	102	75.0-120					1.20	
Vinyl chloride	0.0250	0.0201	0.0193	80.3	77.1	64.0-133					3.98	
Xylenes, Total	0.0750	0.0711	0.0702	94.8	93.6	77.0-120					1.27	
o-Xylene	0.0250	0.0233	0.0236	93.1	94.5	78.0-120					1.46	
m&p-Xylenes	0.0500	0.0478	0.0466	95.7	93.2	77.0-120					2.59	
(S) Toluene-d8				103	103	80.0-120						
(S) Dibromofluoromethane				95.5	94.9	76.0-123						
(S) 4-Bromofluorobenzene				105	108	80.0-120						



Method Blank (MB)

(MB) R3214895-3 04/30/17 18:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
Ethylbenzene	U		0.000384	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
2-Hexanone	U		0.00382	0.0100
Naphthalene	U		0.00100	0.00500
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
n-Propylbenzene	U		0.000349	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Xylenes, Total	U		0.00106	0.00300



Method Blank (MB)

(MB) R3214895-3 04/30/17 18:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	104		80.0-120	
(S) Dibromofluoromethane	100		76.0-123	
(S) 4-Bromofluorobenzene	98.9		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214895-2 04/30/17 17:52 • (LCSD) R3214895-4 04/30/17 20:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0210	0.0217	83.9	86.9	69.0-123			3.46	20
Acetone	0.125	0.217	0.224	173	180	10.0-160	J4	J4	3.45	23
Bromodichloromethane	0.0250	0.0216	0.0221	86.3	88.6	76.0-120			2.65	20
Ethylbenzene	0.0250	0.0217	0.0224	86.9	89.6	77.0-120			3.07	20
Bromoform	0.0250	0.0239	0.0235	95.4	93.8	67.0-132			1.70	20
Bromomethane	0.0250	0.0240	0.0239	96.0	95.7	18.0-160			0.300	20
n-Butylbenzene	0.0250	0.0195	0.0203	77.9	81.1	72.0-126			4.00	20
sec-Butylbenzene	0.0250	0.0208	0.0218	83.3	87.4	74.0-121			4.79	20
Carbon disulfide	0.0250	0.0189	0.0198	75.6	79.3	55.0-127			4.80	20
Carbon tetrachloride	0.0250	0.0234	0.0268	93.8	107	63.0-122			13.3	20
Chlorobenzene	0.0250	0.0210	0.0214	84.1	85.7	79.0-121			1.83	20
Chlorodibromomethane	0.0250	0.0221	0.0221	88.6	88.4	75.0-125			0.160	20
Chloroethane	0.0250	0.0231	0.0226	92.6	90.3	47.0-152			2.47	20
Naphthalene	0.0250	0.0200	0.0165	79.8	66.0	62.0-128			18.9	20
Chloroform	0.0250	0.0206	0.0215	82.3	85.8	72.0-121			4.24	20
Chloromethane	0.0250	0.0251	0.0254	100	101	48.0-139			1.20	20
1,2-Dibromoethane	0.0250	0.0224	0.0215	89.7	85.9	77.0-123			4.40	20
Toluene	0.0250	0.0216	0.0226	86.6	90.3	77.0-120			4.17	20
1,1-Dichloroethane	0.0250	0.0203	0.0210	81.4	83.9	70.0-126			3.02	20
1,2,4-Trimethylbenzene	0.0250	0.0207	0.0211	82.7	84.3	75.0-120			1.91	20
1,2-Dichloroethane	0.0250	0.0208	0.0206	83.1	82.5	67.0-126			0.610	20
1,1-Dichloroethene	0.0250	0.0200	0.0213	80.1	85.1	64.0-129			6.06	20
cis-1,2-Dichloroethene	0.0250	0.0201	0.0210	80.2	83.9	73.0-120			4.44	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214895-2 04/30/17 17:52 • (LCSD) R3214895-4 04/30/17 20:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,2-Dichloroethene	0.0250	0.0196	0.0204	78.4	81.7	71.0-121			4.11	20
1,2-Dichloropropane	0.0250	0.0220	0.0224	88.0	89.6	75.0-125			1.77	20
Xylenes, Total	0.0750	0.0650	0.0669	86.7	89.2	77.0-120			2.88	20
cis-1,3-Dichloropropene	0.0250	0.0222	0.0228	88.7	91.1	79.0-123			2.65	20
trans-1,3-Dichloropropene	0.0250	0.0225	0.0229	90.1	91.6	74.0-127			1.65	20
2-Hexanone	0.125	0.174	0.172	139	137	58.0-147			1.45	20
Isopropylbenzene	0.0250	0.0210	0.0217	83.8	86.6	75.0-120			3.30	20
p-Isopropyltoluene	0.0250	0.0212	0.0220	84.7	88.1	74.0-126			3.95	20
2-Butanone (MEK)	0.125	0.174	0.172	140	137	37.0-158			1.62	20
Methylene Chloride	0.0250	0.0202	0.0207	80.8	82.9	66.0-121			2.61	20
4-Methyl-2-pentanone (MIBK)	0.125	0.137	0.129	110	103	59.0-143			6.27	20
Methyl tert-butyl ether	0.0250	0.0228	0.0220	91.0	87.8	64.0-123			3.56	20
n-Propylbenzene	0.0250	0.0208	0.0218	83.2	87.1	79.0-120			4.56	20
Styrene	0.0250	0.0219	0.0225	87.6	89.9	78.0-124			2.64	20
1,1,1,2-Tetrachloroethane	0.0250	0.0211	0.0217	84.5	86.8	75.0-122			2.78	20
1,1,2,2-Tetrachloroethane	0.0250	0.0225	0.0216	89.9	86.4	71.0-122			3.92	20
Tetrachloroethene	0.0250	0.0218	0.0227	87.4	90.9	70.0-127			3.95	20
1,1,1-Trichloroethane	0.0250	0.0203	0.0209	81.2	83.8	68.0-122			3.18	20
1,1,2-Trichloroethane	0.0250	0.0230	0.0223	91.9	89.1	78.0-120			3.15	20
Trichloroethene	0.0250	0.0208	0.0214	83.4	85.8	78.0-120			2.85	20
1,3,5-Trimethylbenzene	0.0250	0.0207	0.0212	82.8	84.9	75.0-120			2.52	20
Vinyl chloride	0.0250	0.0243	0.0253	97.0	101	64.0-133			4.06	20
o-Xylene	0.0250	0.0214	0.0219	85.8	87.7	78.0-120			2.23	20
m&p-Xylenes	0.0500	0.0436	0.0450	87.2	90.1	77.0-120			3.23	20
(S) Toluene-d8			105	105	105	80.0-120				
(S) Dibromofluoromethane			99.0	99.0	99.1	76.0-123				
(S) 4-Bromofluorobenzene			99.5	99.5	100	80.0-120				

L905377-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905377-11 05/01/17 02:15 • (MS) R3214895-5 05/01/17 02:30 • (MSD) R3214895-6 05/01/17 02:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Benzene	0.0250	ND	0.0137	0.0194	54.9	77.5	1	34.0-147	J3	34.0	20
Ethylbenzene	0.0250	ND	0.0132	0.0193	53.0	77.2	1	42.0-147	J3	37.2	20
Acetone	0.125	ND	0.0830	0.117	66.4	93.8	1	10.0-139	J3	34.2	25
Bromodichloromethane	0.0250	ND	0.0137	0.0194	55.0	77.8	1	52.0-135	J3	34.3	20
Naphthalene	0.0250	0.000627	0.0106	0.0169	39.9	65.2	1	42.0-146	J3	45.9	24
Bromoform	0.0250	ND	0.0145	0.0207	57.9	82.9	1	50.0-146	J3	35.5	20



L905377-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905377-11 05/01/17 02:15 • (MS) R3214895-5 05/01/17 02:30 • (MSD) R3214895-6 05/01/17 02:46

Analyte	Spike Amount		Original Result	MS Result		MSD Result	MS Rec.		Dilution	Rec. Limits		MS Qualifier		MSD Qualifier		RPD	
	mg/l	mg/l		mg/l	%		%	%		%	%		%		%	%	%
Bromomethane	0.0250	ND	0.0149	0.0149	59.5	0.0199	79.7	1	1	10.0-160	23	J3	J3	J3	J3	29.0	23
n-Butylbenzene	0.0250	ND	0.0120	0.0120	47.9	0.0181	72.3	1	1	50.0-144	20	J6	J6	J3	J3	40.6	20
sec-Butylbenzene	0.0250	ND	0.0131	0.0131	52.5	0.0193	77.3	1	1	48.0-143	20		J3	J3	J3	38.3	20
Carbon disulfide	0.0250	ND	0.0110	0.0110	43.9	0.0156	62.4	1	1	10.0-147	20		J3	J3	J3	34.9	20
Toluene	0.0250	ND	0.0138	0.0138	55.1	0.0196	78.2	1	1	42.0-141	20		J3	J3	J3	34.6	20
Carbon tetrachloride	0.0250	ND	0.0155	0.0155	62.1	0.0222	88.7	1	1	41.0-138	20		J3	J3	J3	35.3	20
Chlorobenzene	0.0250	ND	0.0131	0.0131	52.2	0.0188	75.1	1	1	52.0-141	20		J3	J3	J3	35.9	20
Chlorodibromomethane	0.0250	ND	0.0135	0.0135	54.1	0.0196	78.6	1	1	54.0-142	20		J3	J3	J3	37.0	20
Chloroethane	0.0250	ND	0.0166	0.0166	66.3	0.0230	91.9	1	1	23.0-160	20		J3	J3	J3	32.4	20
Chloroform	0.0250	ND	0.0136	0.0136	54.2	0.0192	76.7	1	1	50.0-139	20		J3	J3	J3	34.3	20
Chloromethane	0.0250	ND	0.0176	0.0176	70.3	0.0247	98.8	1	1	14.0-151	20		J3	J3	J3	33.7	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0127	0.0127	50.1	0.0187	73.8	1	1	41.0-146	20		J3	J3	J3	37.7	20
1,2-Dibromoethane	0.0250	ND	0.0135	0.0135	54.1	0.0195	77.9	1	1	54.0-140	20		J3	J3	J3	36.1	20
Xylenes, Total	0.0750	ND	0.0400	0.0400	53.3	0.0581	77.5	1	1	41.0-148	20		J3	J3	J3	36.9	20
1,1-Dichloroethane	0.0250	ND	0.0136	0.0136	54.3	0.0190	76.1	1	1	47.0-143	20		J3	J3	J3	33.4	20
1,2-Dichloroethane	0.0250	ND	0.0135	0.0135	53.9	0.0189	75.7	1	1	47.0-141	20		J3	J3	J3	33.6	20
1,1-Dichloroethene	0.0250	ND	0.0131	0.0131	52.5	0.0186	74.3	1	1	31.0-148	20		J3	J3	J3	34.4	20
cis-1,2-Dichloroethene	0.0250	ND	0.0138	0.0138	52.2	0.0192	73.9	1	1	43.0-142	20		J3	J3	J3	32.9	20
trans-1,2-Dichloroethene	0.0250	ND	0.0126	0.0126	50.3	0.0178	71.1	1	1	36.0-141	20		J3	J3	J3	34.1	20
1,2-Dichloropropane	0.0250	0.00173	0.0140	0.0140	49.1	0.0198	72.2	1	1	51.0-141	20	J6	J6	J3	J3	34.3	20
cis-1,3-Dichloropropene	0.0250	ND	0.0136	0.0136	54.3	0.0195	77.9	1	1	53.0-139	20		J3	J3	J3	35.6	20
trans-1,3-Dichloropropene	0.0250	ND	0.0138	0.0138	51.9	0.0197	75.4	1	1	51.0-143	20		J3	J3	J3	35.1	20
2-Hexanone	0.125	ND	0.0825	0.0825	66.0	0.120	95.9	1	1	36.0-145	23		J3	J3	J3	37.0	23
Isopropylbenzene	0.0250	ND	0.0129	0.0129	51.7	0.0190	76.1	1	1	48.0-141	20		J3	J3	J3	38.2	20
p-Isopropyltoluene	0.0250	ND	0.0131	0.0131	52.2	0.0195	77.8	1	1	49.0-146	20		J3	J3	J3	39.3	20
2-Butanone (MEK)	0.125	ND	0.0855	0.0855	68.4	0.122	97.7	1	1	12.0-149	24		J3	J3	J3	35.3	24
Methylene Chloride	0.0250	ND	0.0132	0.0132	52.6	0.0185	73.9	1	1	42.0-135	20		J3	J3	J3	33.7	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.0845	0.0845	67.6	0.122	97.4	1	1	44.0-160	22		J3	J3	J3	36.2	22
Methyl tert-butyl ether	0.0250	ND	0.0142	0.0142	56.6	0.0204	81.6	1	1	42.0-142	20		J3	J3	J3	36.1	20
n-Propylbenzene	0.0250	ND	0.0131	0.0131	52.3	0.0191	76.6	1	1	47.0-144	20		J3	J3	J3	37.8	20
Styrene	0.0250	ND	0.0135	0.0135	53.8	0.0195	78.0	1	1	47.0-147	20		J3	J3	J3	36.7	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0131	0.0131	52.5	0.0191	76.6	1	1	52.0-140	20		J3	J3	J3	37.3	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0141	0.0141	56.5	0.0205	81.8	1	1	46.0-149	20		J3	J3	J3	36.5	20
Tetrachloroethene	0.0250	ND	0.0135	0.0135	53.8	0.0196	78.2	1	1	38.0-147	20		J3	J3	J3	36.9	20
1,1,1-Trichloroethane	0.0250	ND	0.0133	0.0133	53.3	0.0189	75.8	1	1	46.0-140	20		J3	J3	J3	34.8	20
1,1,2-Trichloroethane	0.0250	ND	0.0142	0.0142	57.0	0.0202	80.7	1	1	54.0-139	20		J3	J3	J3	34.5	20
Trichloroethene	0.0250	0.0156	0.0291	0.0291	54.1	0.0352	78.4	1	1	32.0-156	20					18.9	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0127	0.0127	50.6	0.0185	74.2	1	1	44.0-143	20		J3	J3	J3	37.7	20
Vinyl chloride	0.0250	ND	0.0191	0.0191	76.4	0.0271	108	1	1	24.0-153	20		J3	J3	J3	34.5	20
o-Xylene	0.0250	ND	0.0130	0.0130	52.1	0.0191	76.2	1	1	44.0-146	20		J3	J3	J3	37.6	20

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

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SDG:

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DATE/TIME:

05/10/17 18:57

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L905377-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905377-11 05/01/17 02:15 • (MS) R3214895-5 05/01/17 02:30 • (MSD) R3214895-6 05/01/17 02:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
m&p-Xylenes	0.0500	ND	0.0270	0.0390	54.1	78.0	1	41.0-147		U3	36.2	20
(S) Toluene-d8					105	105		80.0-120				
(S) Dibromofluoromethane					101	101		76.0-123				
(S) 4-Bromofluorobenzene					98.7	98.8		80.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215982-3 05/04/17 19:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215982-3 05/04/17 19:43

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	95.4		80.0-120	
(S) Dibromofluoromethane	84.1		76.0-123	
(S) 4-Bromofluorobenzene	92.7		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215982-1 05/04/17 18:59 • (LCSD) R3215982-2 05/04/17 19:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.162	0.159	130	127	10.0-160			1.64	23
Benzene	0.0250	0.0256	0.0247	102	98.9	69.0-123			3.51	20
Bromodichloromethane	0.0250	0.0270	0.0270	108	108	76.0-120			0.160	20
Bromoform	0.0250	0.0269	0.0271	108	108	67.0-132			0.780	20
Bromomethane	0.0250	0.0216	0.0217	86.3	86.7	18.0-160			0.420	20
n-Butylbenzene	0.0250	0.0287	0.0289	115	116	72.0-126			0.860	20
sec-Butylbenzene	0.0250	0.0267	0.0265	107	106	74.0-121			0.420	20
Carbon disulfide	0.0250	0.0257	0.0245	103	97.9	55.0-127			4.81	20
Carbon tetrachloride	0.0250	0.0246	0.0234	98.2	93.7	63.0-122			4.72	20
Chlorobenzene	0.0250	0.0274	0.0276	109	111	79.0-121			0.960	20
Chlorodibromomethane	0.0250	0.0270	0.0275	108	110	75.0-125			1.72	20
Chloroethane	0.0250	0.0251	0.0238	100	95.0	47.0-152			5.53	20
Chloroform	0.0250	0.0249	0.0240	99.5	96.1	72.0-121			3.48	20
Chloromethane	0.0250	0.0295	0.0282	118	113	48.0-139			4.38	20
1,2-Dibromoethane	0.0250	0.0279	0.0283	112	113	77.0-123			1.44	20
1,1-Dichloroethane	0.0250	0.0256	0.0244	103	97.8	70.0-126			4.73	20
1,2-Dichloroethane	0.0250	0.0261	0.0255	104	102	67.0-126			2.17	20
1,1-Dichloroethene	0.0250	0.0261	0.0249	104	99.6	64.0-129			4.74	20
cis-1,2-Dichloroethene	0.0250	0.0246	0.0233	98.2	93.3	73.0-120			5.16	20
trans-1,2-Dichloroethene	0.0250	0.0246	0.0234	98.4	93.6	71.0-121			5.09	20
1,2-Dichloropropane	0.0250	0.0283	0.0280	113	112	75.0-125			1.08	20
cis-1,3-Dichloropropene	0.0250	0.0288	0.0289	115	116	79.0-123			0.330	20
trans-1,3-Dichloropropene	0.0250	0.0292	0.0294	117	118	74.0-127			0.680	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215982-1 05/04/17 18:59 • (LCSD) R3215982-2 05/04/17 19:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		RPD		RPD Limits	
Ethylbenzene	0.0250	0.0274	0.0274	110	109	77.0-120			0.290		20	
2-Hexanone	0.125	0.154	0.149	123	119	58.0-147			2.93		20	
Isopropylbenzene	0.0250	0.0272	0.0270	109	108	75.0-120			0.850		20	
p-Isopropyltoluene	0.0250	0.0260	0.0262	104	105	74.0-126			0.640		20	
2-Butanone (MEK)	0.125	0.149	0.141	119	113	37.0-158			5.26		20	
Methylene Chloride	0.0250	0.0257	0.0245	103	98.2	66.0-121			4.45		20	
4-Methyl-2-pentanone (MIBK)	0.125	0.149	0.146	119	117	59.0-143			1.95		20	
Methyl tert-butyl ether	0.0250	0.0260	0.0250	104	100	64.0-123			4.08		20	
Naphthalene	0.0250	0.0275	0.0288	110	115	62.0-128			4.45		20	
n-Propylbenzene	0.0250	0.0273	0.0272	109	109	79.0-120			0.420		20	
Styrene	0.0250	0.0288	0.0284	115	114	78.0-124			1.28		20	
11,1,1,2-Tetrachloroethane	0.0250	0.0255	0.0257	102	103	75.0-122			0.850		20	
11,1,2,2-Tetrachloroethane	0.0250	0.0249	0.0247	99.5	98.7	71.0-122			0.750		20	
Tetrachloroethene	0.0250	0.0263	0.0263	105	105	70.0-127			0.190		20	
Toluene	0.0250	0.0282	0.0280	113	112	77.0-120			0.730		20	
11,1,1-Trichloroethane	0.0250	0.0248	0.0236	99.2	94.5	68.0-122			4.80		20	
11,1,2-Trichloroethane	0.0250	0.0271	0.0273	108	109	78.0-120			0.940		20	
Trichloroethene	0.0250	0.0277	0.0281	111	112	78.0-120			1.24		20	
1,2,4-Trimethylbenzene	0.0250	0.0264	0.0262	106	105	75.0-120			0.780		20	
1,3,5-Trimethylbenzene	0.0250	0.0267	0.0266	107	107	75.0-120			0.260		20	
Vinyl chloride	0.0250	0.0285	0.0271	114	109	64.0-133			4.89		20	
Xylenes, Total	0.0750	0.0819	0.0814	109	109	77.0-120			0.610		20	
o-Xylene	0.0250	0.0269	0.0267	107	107	78.0-120			0.570		20	
m&p-Xylenes	0.0500	0.0550	0.0547	110	109	77.0-120			0.450		20	
(S) Toluene-d8				96.0	97.1	80.0-120						
(S) Dibromofluoromethane				85.0	83.3	76.0-123						
(S) 4-Bromofluorobenzene				90.4	89.1	80.0-120						



Method Blank (MB)

(MB) R3214877-1 05/01/17 11:21

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
TPH (GC/FID) High Fraction	U	0.0247	0.100	
(S) o-Terphenyl	69.8		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214877-2 05/01/17 11:38 • (LCSD) R3214877-3 05/01/17 11:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.65	1.48	110	98.7	50.0-150			10.6	20
(S) o-Terphenyl				86.4	85.7	31.0-160				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214920-1 05/01/17 11:14

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
TPH (GC/FID) High Fraction	U	0.0247	0.100	
(S) o-Terphenyl	88.4		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214920-2 05/01/17 11:31 • (LCSD) R3214920-3 05/01/17 11:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> mg/l	<u>LCSD Qualifier</u> mg/l	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.65	1.67	110	112	50.0-150			1.52	20
(S) o-Terphenyl				87.5	86.2	31.0-160				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier Description

B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

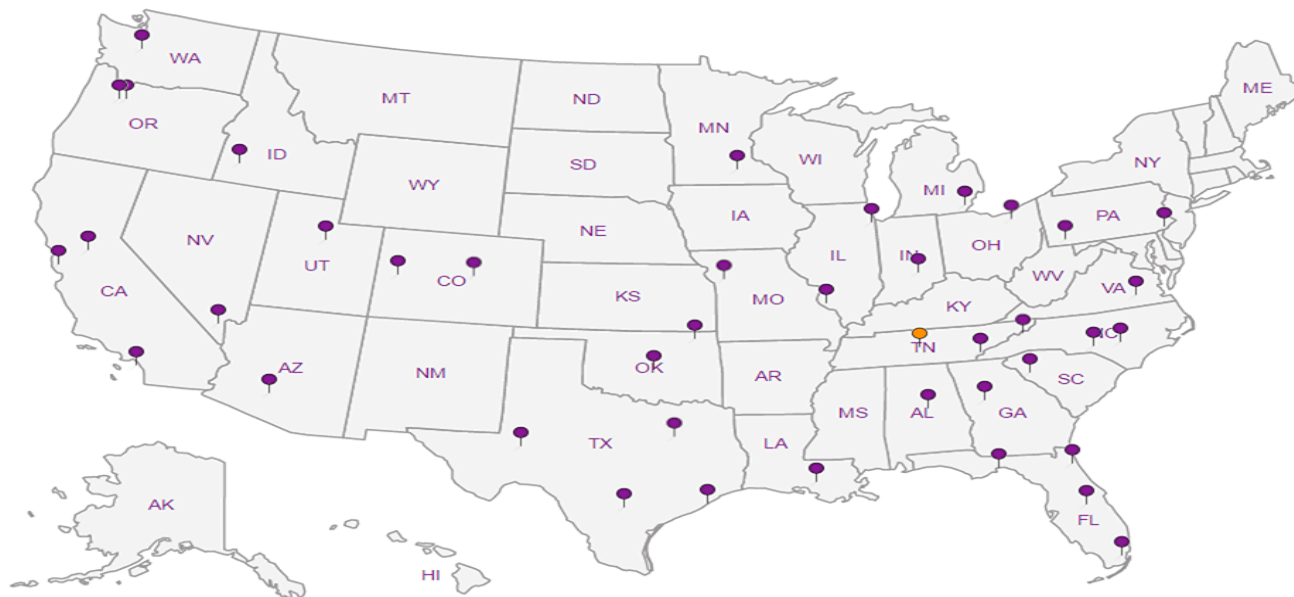
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



B73

Company Name/Address:

TRC Solutions - Austin, TX

505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing information:

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:

Julie Speer

Email To:

jspeer@trcsolutions.com

Project:

REST Spring 2017

Description:

Phone: 512-684-3170

Fax:

Client Project #

Collected by (print):

Scott Ude/HMI Team

Collected by (signature):

Scott Ude

Immediately

Packed on Ice N ☒ Y ☐

Site/Facility ID #

REST (Navajo - Artesia)

Rush? (Lab MUST Be Notified)

☐ Same Day
☐ Next Day
☐ Two Day
☐ Three Day

Date Results Needed

P.O. #

107027

Email? ☐ No ☒ Yes
 FAX? ☐ No ☐ Yes

Sample ID

-RW-12R

-MW-113

KWB-8

-RW-22

-RW-20A

-RW-20B

-RW-13R

-RW-14R

-MW-133

-MW-134

Comp/Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Depth

GW

GW

GW

GW

GW

GW

GW

GW

GW

Date

4/25/17

1735

Time

No.

of

Ents

9

1735

VOC

X

X

X

X

X

X

X

X

X

DRO

X

X

X

X

X

X

X

X

X

GRO

X

X

X

X

X

X

X

X

X

Short List Metals (Total & Dissolved)

X

X

X

X

X

X

X

X

X

Cations (from "total metals" bottle)

X

X

X

X

X

X

X

X

X

Anions

X

X

X

X

X

X

X

X

X

Long List Metals (Total & Dissolved)

X

X

X

X

X

X

X

X

X

Cyanide

X

X

X

X

X

X

X

X

X

Shipped Via:

Boat / Outrigger

Sample # (lab only)

-01

Account: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Boat / Outrigger

Sample # (lab only)

Analysis / Container / Preservative

Chain of Custody

Page 10 of 20

32065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-794-8858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1905307

G138

Acctnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Boat / Outrigger

Sample # (lab only)

-01

* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature)

Scott Ude

Date:

4/26/17

Time:

0800

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Received by: (Signature)

Temp:

°C

Bottles Received:

Date:

4-27-17

Time:

900

COC Seal Intact:

Y N NA

pH Checked:

NCF:

22,712

21

pH

Temp

Flow

Other

Samples returned via:

UPS

Courier

FedEx

Condition:

(lab use only)

Hold #

7283 8327 4173,4037

7283 8327 3340

BTB Z

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:
Julie Speer
Email To: jspeer@trcsolutions.com

Project:
REST Spring 2017

Phone: 512-684-3170
Fax:

Client Project #
Site/Facility ID #
REST (Navajo - Artesia)

Collected by (print):
Scott Ude
Collected by (signature):
Immediately Packed on Ice N ☒ Y ☒
Rush? (Lab MUST Be Notified)
Same Day ☐ Next Day ☐ Two Day ☐ Three Day ☐
Email? ☐ No ☒ Yes
FAX? ☐ No ☐ Yes

Date Results Needed

P.O. #
107027

Lab Project #

City/State Collected: NM

Matrix *

Comp/Grab

Depth

Date

Time

No. of Cntrs

Sample ID

Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature) **Scott Ude**
Relinquished by: (Signature)
Relinquished by: (Signature)

Analysis / Container / Preservative

Short List Metals (Total & Dissolved)

GRO

DRO

VOC

Cations (from "total metals" bottle)

Anions

NO2NO3, TDS

Long List Metals (Total & Dissolved)

Cyanide

Accnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Rem / Contaminant

Sample # (lab only)

Chain of Custody

ESC

LAB SCIENCE

YOUR LAB OF CHOICE

12005 Leburn Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# **1905307**

Table #

Accnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Rem / Contaminant

Sample # (lab only)

pH Temp

Flow Other

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier

Temp: °C Bottles Received: **312+TB**

Date: **4-27-17 900**

Hold #

Condition: (lab use only)

COC Seal Intact: **J** Y N NA

pH Checked: **62.712**

Company Name/Address:

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:

Julie Speer

Email To:

jspeer@trcsolutions.com

Project

REST Spring 2017

Description:

Phone: 512-684-3170

Fax:

Client Project #

Collected by (print):

Scott Ude/HMI Team

Site/Facility ID #

REST (Navajo - Artesia)

Collected by (signature):

Scott Ude

Rush? (Lab MUST Be Notified)

Same Day 200%
Next Day 100%
Two Day 50%
Three Day 25%

Immediately

Packed on Ice: N ☒ Y ☐

Date Results Needed

107027

Email? ☐ No ☒ Yes

FAX? ☐ No ☐ Yes

No. of

Cntrs

Date

Time

Comp/Grab

Matrix *

Depth

Sample ID

MW-117

MW-118

MW-119

NP-5

MW-136

MW-126A

MW-126B

MW-127

MW-129

RW-18A

Grab

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature)

Scott Ude

Date:

4/26/17

Time:

0800

Received by: (Signature)

[Signature]

Received by: (Signature)

[Signature]

Received for lab by: (Signature)

[Signature]

Date:

4/26/17

Time:

0800

Date:

4/27/17

Time:

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Date:

4/27/17

Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095	
Report to: Julie Speer	Email To: jspeer@trowsolutions.com		
Project Description: REST Spring 2017		City/State Collected: NM	Lab Project #:
Phone: 512-684-3170 Fax:	Client Project #	P.O. # 107027	
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # REST (Navajo - Artesia)	Date Results Needed	
Collected by (signature): <i>Scott Ude</i>	Rush? (Lab MUST Be Notified) Same Day 200% Next Day 100% Two Day 50% Three Day 25%	Email? ☐ No ☒ Yes FAX? ☐ No ☐ Yes	
Immediately Packed on Ice N ☐ Y ☒		No. of Entries	
Sample ID	Comp/Grab	Matrix *	Date
KWB-1A	Grab	GW	4/25/17
KWB-1C	Grab	GW	4/25/17
KWB-10R	Grab	GW	4/25/17
MW-131	Grab	GW	
KWB-5	Grab	GW	
MW-111	Grab	GW	
KWB-6	Grab	GW	
MW-112	Grab	GW	
MW-132	Grab	GW	
MW-57	Grab	GW	

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - Wastewater **DW** - Drinking Water **OT** - Other

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature) <i>Scott Ude</i>	Date: 4/26/17	Time: 0800	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>MWU</i>

* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other _____				pH _____	Temp _____
Remarks: Dissolved metals field-filtered.				Flow _____	Other _____
Relinquished by: (Signature) <i>Scott Wade</i>	Date: <i>4/20/17</i>	Time: <i>0800</i>	Received by: (Signature) <i>[Signature]</i>	Samples returned via: ☐ UPS	Condition: (lab use only) Hold # _____ COC Seal Intact: ☒ Y ☐ N NA pH Checked: <i>23.712</i>
Relinquished by: (Signature)	Date: _____	Time: _____	Received by: (Signature)	Temp: <i>1.5</i> °C Bottles Received: <i>3124TB</i> ☒ FedEx ☐ Courier ☐	
Relinquished by: (Signature)	Date: _____	Time: _____	Received for lab by: (Signature) <i>[Signature]</i>	Date: <i>4-27-17</i> Time: <i>900</i>	

SCU 1

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:
Julie Speer
Project: **REST Spring 2017**
Description:

Email To:
jspeer@trcsolutions.com

City/State Collected: **NM**

Lab Project #

Phone: 512-684-3170

Fax:

Client Project #

Site/Facility ID #
REST (Navajo - Artesia)

Collected by (print):
Scott Ude

Collected by (signature):
Scott Ude

Immediately Packed on Ice ☒ Yes ☐ No

Rush? (Lab MUST Be Notified)
☐ Same Day ☐ Next Day ☐ Two Day ☐ Three Day

Date Results Needed
107027

Email? ☒ No ☐ Yes
Fax? ☐ No ☐ Yes

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide
MW-103	Grab	GW		4/25/17	1445	X	X	X	X	X	X	X	X	
MW-104	Grab	GW		4/25/17	1535	X	X	X	X	X	X	X	X	
MW-64	Grab	GW		4/25/17	1300	X	X	X	X	X	X	X	X	
MW-65	Grab	GW		4/25/17	1350	X	X	X	X	X	X	X	X	
RW-5R	Grab	GW				X	X	X	X	X	X	X	X	
MW-102	Grab	GW				X	X	X	X	X	X	X	X	
RW-4	Grab	GW				X	X	X	X	X	X	X	X	
RW-6	Grab	GW				X	X	X	X	X	X	X	X	
MW-99	Grab	GW				X	X	X	X	X	X	X	X	
MW-66	Grab	GW				X	X	X	X	X	X	X	X	

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature) *Scott Ude* Date: 4/26/17 Time: 0800

Relinquished by: (Signature) Date: Time:

Relinquished by: (Signature) Date: Time:

Received by: (Signature) Date: Time:

Received by: (Signature) Date: Time:

Received for lab by: (Signature) *Murt* Date: 4-27-17 Time: 900

Temp: 13 °C Bottles Received: 312-T1B

COC Seal Intact: ☒ Y ☐ N NA

pH Checked: ☒ Y ☐ N NA

Hold #

Condition: (lab use only)

Flow: Temp

pH

Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095	
Report to: Julie Speer	Email To: jspeer@trcsolutions.com		
Project Description: REST Spring 2017	City/State Collected: NM		
Phone: 512-684-3170	Lab Project #		
Fax:			
Collected by (print): Scott Ude/HMI Team	P.O. #	107027	
Collected by (signature): <i>Scott Ude</i>	Date Results Needed		
Immediately Packed on ice: N ☒ Y ☐	Email? ☐ No ☒ Yes FAX? ☐ No ☐ Yes	No. of	Ents
Sample ID	Date	Time	
MW-39			
MW-98			
RW-40	4/25/17	1025	10
MW-40			
MW-41			
RW-9			
MW-42			
MW-29			
RW-#16B			
MW-106	4/25/17	925	10

Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095		Chain of Custody Page <u>20</u> of <u>20</u> ESC L.A.B. S-C-I-E-N-C-E-S YOUR LAB OF CHOICE 12063 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Report to: Julie Speer		Email To: jspeer@trcsolutions.com		Analysis / Container / Preservative	
Project Description: REST Spring 2017		City/State Collected: NM		Table #	
Phone: 512-684-3170		Lab Project #		L # 1905307	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		Acctnum: TRCATX	
Collected by (signature): <i>Scott Ude</i>		Rush? (Lab MUST Be Notified) Same Day ☐ 100% Next Day ☐ 100% Two Day ☐ 50% Three Day ☐ 25%		Template:	
Immediately Picked on ice N ☐ Y ☒		Date Results Needed 107027		Prelogin: Chris McCord	
Sample ID:		Email? No ☒ Yes FAX? No ☐ Yes		Cooler:	
Comp/Grab		Date		Shipped Via:	
Matrix *		Time		Item / Contaminant	
Depth		Centrs		Sample # (lab only)	
DUP-REST-01 Grab GW		4/25/17 1200		NO2NO3, TDS	
DUP-REST-02 Grab GW		4/25/17 1550		Anions	
DUP-REST-03 Grab GW		4/25/17 1550		Cations (from "total metals" bottle)	
DUP-REST-04 Grab GW		4/25/17 1550		Short List Metals (Total & Dissolved)	
DUP-REST-05 Grab GW		4/25/17 1550		GRO	
EB-REST-01 Grab GW		4/25/17 1550		DRO	
EB-REST-02 Grab GW		4/25/17 1550		VOC	
EB-REST-03 Grab GW		4/25/17 1550		Cyanide	
EB-REST-04 Grab GW		4/25/17 1550		Long List Metals (Total & Dissolved)	
EB-REST-05 Grab GW		4/25/17 1550		Long List Metals (Total & Dissolved)	

Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature) *Scott Ude*

Relinquished by: (Signature) *Scott Ude*

Relinquished by: (Signature) *Scott Ude*

pH _____ **Temp** _____

Flow _____ **Other** _____

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier

Temp: _____ °C **Bottles Received:** 3/2/13

Date: 4/27/17 **Time:** 900

Hold # _____

Condition: (lab use only)

COC Seal Intact: Y N NA

pH Checked: NCF

33

ESC LAB SCIENCES Cooler Receipt Form

Client: TRCAX	SDG# 1905307
Cooler Received/Opened On: 4/ 27 /17	Temperature: 1.5
Received By: MICHAEL WITHERSPOON	
Signature: <i>[Signature]</i>	
Receipt Check List	
NP	Yes No
COC Seal Present / Intact?	☒ ☐
COC Signed / Accurate?	☐ ☐
Bottles arrive intact?	☐ ☐
Correct bottles used?	☐ ☐
Sufficient volume sent?	☐ ☐
If Applicable	☐ ☐
VOA Zero headspace?	☐ ☐
Preservation Correct / Checked?	☐ ☐

TRC Solutions - Austin, TX

Sample Delivery Group: L905562
Samples Received: 04/28/2017
Project Number: 249545.0000.0000 000
Description: EP Spring 2017
Site: EP NAVAJO-ARTESIA
Report To: Julie Speer
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Entire Report Reviewed By:



Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-76 L905562-01 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:40

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974902	1	04/29/17 12:27	04/30/17 11:17	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:27	05/02/17 13:27	DR
Wet Chemistry by Method 9056A	WG975160	1	05/01/17 14:20	05/01/17 14:20	KCF
Wet Chemistry by Method 9056A	WG975160	100	05/01/17 15:07	05/01/17 15:07	KCF
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:32	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:00	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 15:32	VSS
Metals (ICPMS) by Method 6020	WG975075	2	05/02/17 17:03	05/03/17 15:36	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 02:25	04/29/17 02:25	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	04/30/17 21:48	04/30/17 21:48	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	10	05/01/17 22:59	05/06/17 01:53	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-77 L905562-02 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 17:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974902	1	04/29/17 12:27	04/30/17 11:17	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:28	05/02/17 13:28	DR
Wet Chemistry by Method 9056A	WG975160	1	05/01/17 14:32	05/01/17 14:32	KCF
Wet Chemistry by Method 9056A	WG975160	100	05/01/17 15:18	05/01/17 15:18	KCF
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:36	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:04	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 15:59	VSS
Metals (ICPMS) by Method 6020	WG975075	5	05/02/17 17:03	05/03/17 16:02	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	5	04/29/17 02:48	04/29/17 02:48	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 13:45	05/10/17 13:45	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	20	05/01/17 22:59	05/06/17 02:11	TRF

MW-78 L905562-03 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 18:05

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974902	1	04/29/17 12:27	04/30/17 11:17	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:29	05/02/17 13:29	DR
Wet Chemistry by Method 9056A	WG975160	1	05/01/17 14:43	05/01/17 14:43	KCF
Wet Chemistry by Method 9056A	WG975160	50	05/01/17 15:30	05/01/17 15:30	KCF
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:39	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:07	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:06	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	10	04/29/17 03:10	04/29/17 03:10	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 13:58	05/10/17 13:58	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	10	05/01/17 22:59	05/06/17 01:02	TRF

MW-75 L905562-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 18:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:30	05/02/17 13:30	DR
Wet Chemistry by Method 9056A	WG975160	1	05/01/17 14:55	05/01/17 14:55	KCF
Wet Chemistry by Method 9056A	WG975160	100	05/01/17 15:42	05/01/17 15:42	KCF
Wet Chemistry by Method 9056A	WG975912	100	05/03/17 14:36	05/03/17 14:36	SAM

ACCOUNT:

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-75 L905562-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 18:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:43	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:11	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:09	VSS
Metals (ICPMS) by Method 6020	WG975075	10	05/02/17 17:03	05/03/17 16:13	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 03:32	04/29/17 03:32	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	04/30/17 22:54	04/30/17 22:54	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	10	05/01/17 22:59	05/06/17 01:19	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-83 L905562-05 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 15:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:36	05/02/17 13:36	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 14:36	05/01/17 14:36	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 15:21	05/01/17 15:21	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:46	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:14	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:16	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 03:54	04/29/17 03:54	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 14:11	05/10/17 14:11	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	10	05/01/17 22:59	05/06/17 01:36	TRF

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-3 L905562-06 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:37	05/02/17 13:37	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 14:50	05/01/17 14:50	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 15:38	05/01/17 15:38	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:50	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:18	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:20	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 04:17	04/29/17 04:17	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	04/30/17 23:38	04/30/17 23:38	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 03:41	TRF

MW-88 L905562-07 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:38	05/02/17 13:38	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 16:39	05/01/17 16:39	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 15:52	05/01/17 15:52	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 20:51	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:21	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:23	VSS
Metals (ICPMS) by Method 6020	WG975075	5	05/02/17 17:03	05/03/17 16:26	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 04:39	04/29/17 04:39	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 00:00	05/01/17 00:00	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 04:51	TRF

ACCOUNT:

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SDG:

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DATE/TIME:

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-22A L905562-08 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 11:40

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:39	05/02/17 13:39	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 16:54	05/01/17 16:54	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 17:56	05/01/17 17:56	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:53	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:25	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:30	VSS
Metals (ICPMS) by Method 6020	WG975075	10	05/02/17 17:03	05/03/17 17:10	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 05:01	04/29/17 05:01	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 00:22	05/01/17 00:22	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 05:09	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-22B L905562-09 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:35

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:40	05/02/17 13:40	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 17:25	05/01/17 17:25	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 18:27	05/01/17 18:27	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:57	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:29	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:14	VSS
Metals (ICPMS) by Method 6020	WG975075	5	05/02/17 17:03	05/03/17 17:17	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 05:23	04/29/17 05:23	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 00:43	05/01/17 00:43	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 05:26	TRF

MW-10 L905562-10 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 13:20

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	100	05/02/17 14:51	05/02/17 14:51	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 17:41	05/01/17 17:41	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 18:42	05/01/17 18:42	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:00	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:32	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:21	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 05:45	04/29/17 05:45	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 01:05	05/01/17 01:05	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 05:44	TRF

MW-6A L905562-11 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 18:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:42	05/02/17 13:42	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 19:29	05/01/17 19:29	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 20:46	05/01/17 20:46	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:04	VSS

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

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L905562

DATE/TIME:

05/11/17 15:27

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-6A L905562-11 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 18:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:43	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:24	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 06:07	04/29/17 06:07	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 14:24	05/10/17 14:24	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	5	05/01/17 22:59	05/05/17 15:29	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-6B L905562-12 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 18:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:43	05/02/17 13:43	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 19:44	05/01/17 19:44	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 21:01	05/01/17 21:01	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:23	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:46	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:28	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 06:30	04/29/17 06:30	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 01:49	05/01/17 01:49	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 16:55	TRF

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-120 L905562-13 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 17:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:48	05/02/17 13:48	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 20:00	05/01/17 20:00	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 21:17	05/01/17 21:17	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:26	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:50	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:31	VSS
Metals (ICPMS) by Method 6020	WG975075	10	05/02/17 17:03	05/03/17 17:35	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 06:52	04/29/17 06:52	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 14:37	05/10/17 14:37	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 06:36	TRF

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:40

Received date/time
04/28/17 09:00

MW-121 L905562-14 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:49	05/02/17 13:49	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 20:15	05/01/17 20:15	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 21:32	05/01/17 21:32	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:30	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:54	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:38	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 07:14	04/29/17 07:14	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 02:33	05/01/17 02:33	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 06:53	TRF

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545.0000.0000 000

SDG:

L905562

DATE/TIME:

05/11/17 15:27

PAGE:

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-84 L905562-15 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:15

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:50	05/02/17 13:50	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 20:30	05/01/17 20:30	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 21:47	05/01/17 21:47	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:33	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:57	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:42	VSS
Metals (ICPMS) by Method 6020	WG975075	10	05/02/17 17:03	05/03/17 19:34	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	10	04/29/17 07:36	04/29/17 07:36	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 14:50	05/10/17 14:50	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	20	05/01/17 22:59	05/08/17 16:31	TRF

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

MW-122 L905562-16 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 15:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:51	05/02/17 13:51	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 22:34	05/01/17 22:34	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 23:51	05/01/17 23:51	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:37	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 04:01	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 19:37	VSS
Metals (ICPMS) by Method 6020	WG975075	10	05/02/17 17:03	05/03/17 19:40	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 07:59	04/29/17 07:59	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 15:03	05/10/17 15:03	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 07:11	TRF

MW-81 L905562-17 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 13:30

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:02	05/02/17 15:02	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 22:49	05/01/17 22:49	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 00:06	05/02/17 00:06	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:40	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 04:04	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 19:44	VSS
Metals (ICPMS) by Method 6020	WG975075	5	05/02/17 17:03	05/03/17 19:48	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 08:21	04/29/17 08:21	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 03:40	05/01/17 03:40	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 07:28	TRF

MW-80 L905562-18 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:45

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:03	05/02/17 15:03	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 23:04	05/01/17 23:04	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 00:21	05/02/17 00:21	SAM

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-80 L905562-18 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:45

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:44	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 04:08	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 19:51	VSS
Metals (ICPMS) by Method 6020	WG975075	5	05/02/17 17:03	05/03/17 19:55	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 08:43	04/29/17 08:43	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 04:02	05/01/17 04:02	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 07:45	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-79 L905562-19 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 11:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:04	05/02/17 15:04	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 23:35	05/01/17 23:35	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 00:52	05/02/17 00:52	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:47	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 02:39	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 15:15	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 09:05	04/29/17 09:05	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 15:16	05/10/17 15:16	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 08:03	TRF

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-2A L905562-20 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 15:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:05	05/02/17 15:05	DR
Wet Chemistry by Method 9056A	WG975161	1	05/02/17 01:39	05/02/17 01:39	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 02:56	05/02/17 02:56	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:51	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 04:11	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 19:58	VSS
Metals (ICPMS) by Method 6020	WG975075	20	05/02/17 17:03	05/03/17 20:02	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 09:27	04/29/17 09:27	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 15:29	05/10/17 15:29	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 17:13	TRF

MW-123 L905562-21 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:05

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:06	05/02/17 15:06	DR
Wet Chemistry by Method 9056A	WG975161	1	05/02/17 01:54	05/02/17 01:54	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 03:11	05/02/17 03:11	SAM
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 14:19	RDS
Metals (ICPMS) by Method 6020	WG975080	10	05/02/17 08:59	05/03/17 18:02	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 15:51	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/28/17 22:08	04/28/17 22:08	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 23:28	05/01/17 23:28	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/04/17 21:52	TRF

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-4A L905562-22 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:12	05/02/17 15:12	DR
Wet Chemistry by Method 9056A	WG975161	1	05/02/17 02:40	05/02/17 02:40	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 03:26	05/02/17 03:26	SAM
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 14:34	VSS
Metals (ICPMS) by Method 6020	WG975080	5	05/02/17 08:59	05/03/17 18:06	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 15:54	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/28/17 22:32	04/28/17 22:32	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 23:45	05/01/17 23:45	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/04/17 22:09	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

MW-4B L905562-23 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:13	05/02/17 15:13	DR
Wet Chemistry by Method 9056A	WG975161	1	05/02/17 04:13	05/02/17 04:13	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 04:44	05/02/17 04:44	SAM
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 14:37	VSS
Metals (ICPMS) by Method 6020	WG975080	5	05/02/17 08:59	05/03/17 18:21	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:06	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/28/17 22:56	04/28/17 22:56	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 00:02	05/02/17 00:02	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/04/17 22:27	TRF

⁷ Gl

⁸ Al

⁹ Sc

MW-1R L905562-24 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:15	05/02/17 15:15	DR
Wet Chemistry by Method 9056A	WG975161	1	05/02/17 04:28	05/02/17 04:28	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 04:59	05/02/17 04:59	SAM
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 14:53	RDS
Metals (ICPMS) by Method 6020	WG975080	10	05/02/17 08:59	05/03/17 18:24	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:10	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 00:19	05/02/17 00:19	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 00:12	TRF

MW-15 L905562-25 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:16	05/02/17 15:16	DR
Wet Chemistry by Method 9056A	WG975327	1	04/30/17 22:36	04/30/17 22:36	KCF
Wet Chemistry by Method 9056A	WG975327	50	04/30/17 23:21	04/30/17 23:21	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 14:57	JDG
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:13	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/28/17 23:20	04/28/17 23:20	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 00:36	05/02/17 00:36	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 00:29	TRF

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



OCD-1R L905562-26 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:17	05/02/17 15:17	DR
Wet Chemistry by Method 9056A	WG975327	1	04/30/17 23:06	04/30/17 23:06	KCF
Wet Chemistry by Method 9056A	WG975327	100	04/30/17 23:37	04/30/17 23:37	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:00	RDS
Metals (ICPMS) by Method 6020	WG975080	10	05/02/17 08:59	05/03/17 18:28	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:17	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/28/17 23:44	04/28/17 23:44	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 00:52	05/02/17 00:52	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 00:47	TRF

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

OCD-2A L905562-27 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 13:40

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:19	05/02/17 15:19	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 00:39	05/01/17 00:39	KCF
Wet Chemistry by Method 9056A	WG975327	100	04/30/17 23:52	04/30/17 23:52	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:04	RDS
Metals (ICPMS) by Method 6020	WG975080	5	05/02/17 08:59	05/03/17 18:32	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:21	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 00:08	04/29/17 00:08	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 01:09	05/02/17 01:09	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 01:04	TRF

OCD-3 L905562-28 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:24	05/02/17 15:24	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 00:54	05/01/17 00:54	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 01:56	05/01/17 01:56	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:07	RDS
Metals (ICPMS) by Method 6020	WG975080	10	05/02/17 08:59	05/03/17 18:35	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:24	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 00:32	04/29/17 00:32	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 01:26	05/02/17 01:26	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 01:22	TRF

OCD-4 L905562-29 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:25	05/02/17 15:25	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 01:10	05/01/17 01:10	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 02:11	05/01/17 02:11	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:11	RDS
Metals (ICPMS) by Method 6020	WG975080	20	05/02/17 08:59	05/03/17 18:39	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:28	VSS



OCD-4 L905562-29 GW

Collected by
Scott Ude-HMI TeamCollected date/time
04/26/17 09:50Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 00:56	04/29/17 00:56	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 01:43	05/02/17 01:43	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 01:39	TRF

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

MW-11A L905562-30 GW

Collected by
Scott Ude-HMI TeamCollected date/time
04/26/17 11:20Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:27	05/02/17 15:27	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 01:25	05/01/17 01:25	KCF
Wet Chemistry by Method 9056A	WG975327	500	05/01/17 02:27	05/01/17 02:27	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:14	RDS
Metals (ICPMS) by Method 6020	WG975080	50	05/02/17 08:59	05/03/17 18:43	RDS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:31	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 01:21	04/29/17 01:21	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 02:00	05/02/17 02:00	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 01:56	TRF

MW-11B L905562-31 GW

Collected by
Scott Ude-HMI TeamCollected date/time
04/26/17 12:05Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:28	05/02/17 15:28	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 01:40	05/01/17 01:40	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 02:42	05/01/17 02:42	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:18	RDS
Metals (ICPMS) by Method 6020	WG975080	50	05/02/17 08:59	05/03/17 18:46	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:35	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 01:45	04/29/17 01:45	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 02:16	05/02/17 02:16	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 02:14	TRF

OCD-5 L905562-32 GW

Collected by
Scott Ude-HMI TeamCollected date/time
04/26/17 10:35Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:29	05/02/17 15:29	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 03:28	05/01/17 03:28	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 05:16	05/01/17 05:16	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:22	RDS
Metals (ICPMS) by Method 6020	WG975080	20	05/02/17 08:59	05/03/17 18:50	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:38	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 02:09	04/29/17 02:09	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 02:33	05/02/17 02:33	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 02:31	TRF

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



DUP-EP-02 L905562-33 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:30	05/02/17 15:30	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 03:44	05/01/17 03:44	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 05:32	05/01/17 05:32	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 17:09	RDS
Metals (ICPMS) by Method 6020	WG975080	10	05/02/17 08:59	05/03/17 18:53	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:58	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 02:33	04/29/17 02:33	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 02:50	05/02/17 02:50	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 02:49	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

DUP-EP-03 L905562-34 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:31	05/02/17 15:31	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 06:18	05/01/17 06:18	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 03:59	05/01/17 03:59	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 17:13	RDS
Metals (ICPMS) by Method 6020	WG975080	5	05/02/17 08:59	05/03/17 19:35	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:01	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 02:57	04/29/17 02:57	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 03:07	05/02/17 03:07	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 03:06	TRF

EB-EP-04 L905562-35 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:36	05/02/17 15:36	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 04:14	05/01/17 04:14	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 17:16	JDG
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:05	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 03:21	04/29/17 03:21	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 03:24	05/02/17 03:24	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 12:01	TRF

TRIP BLANK-EP-03 L905562-36 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 00:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 22:04	05/01/17 22:04	JHH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5750		2.82	10.0	1	04/30/2017 11:17	WG974902

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:27	WG974950

Sample Narrative:

353.2 L905562-01 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1380		5.19	100	100	05/01/2017 15:07	WG975160
Fluoride	2.54		0.00990	0.100	1	05/01/2017 14:20	WG975160
Sulfate	2850		7.74	500	100	05/01/2017 15:07	WG975160

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0561		0.000250	0.00200	1	05/03/2017 03:00	WG975075
Arsenic,Dissolved	0.0458		0.000250	0.00200	1	05/03/2017 21:32	WG975066
Barium	0.0120		0.000360	0.00500	1	05/03/2017 03:00	WG975075
Barium,Dissolved	0.0116		0.000360	0.00500	1	05/03/2017 21:32	WG975066
Calcium	485		0.0460	1.00	1	05/03/2017 03:00	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 15:32	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 21:32	WG975066
Iron	4.06		0.0150	0.100	1	05/03/2017 15:32	WG975075
Iron,Dissolved	0.0501	J	0.0150	0.100	1	05/03/2017 21:32	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:00	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:32	WG975066
Manganese	0.780		0.000250	0.00500	1	05/03/2017 03:00	WG975075
Manganese,Dissolved	0.824		0.000250	0.00500	1	05/03/2017 21:32	WG975066
Potassium	25.9		0.0370	1.00	1	05/03/2017 03:00	WG975075
Selenium	0.00327		0.000380	0.00200	1	05/03/2017 03:00	WG975075
Selenium,Dissolved	0.00325		0.000380	0.00200	1	05/03/2017 21:32	WG975066
Sodium	969		0.220	2.00	2	05/03/2017 15:36	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.02		0.0314	0.100	1	04/29/2017 02:25	WG974979
(S) a,a,a-Trifluorotoluene(FID) 99.6				77.0-122		04/29/2017 02:25	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	04/30/2017 21:48	WG975317
Benzene	U		0.000331	0.00100	1	04/30/2017 21:48	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 21:48	WG975317
Bromoform	U		0.000469	0.00100	1	04/30/2017 21:48	WG975317
Bromomethane	U		0.000866	0.00500	1	04/30/2017 21:48	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 21:48	WG975317



Collected date/time: 04/26/17 16:40

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 21:48	WG975317
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 21:48	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 21:48	WG975317
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 21:48	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 21:48	WG975317
Chloroethane	U		0.000453	0.00500	1	04/30/2017 21:48	WG975317
Chloroform	U		0.000324	0.00500	1	04/30/2017 21:48	WG975317
Chloromethane	U		0.000276	0.00250	1	04/30/2017 21:48	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 21:48	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 21:48	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 21:48	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 21:48	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 21:48	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 21:48	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 21:48	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 21:48	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 21:48	WG975317
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 21:48	WG975317
Isopropylbenzene	0.0127		0.000326	0.00100	1	04/30/2017 21:48	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 21:48	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 21:48	WG975317
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 21:48	WG975317
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 21:48	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 21:48	WG975317
Methyl tert-butyl ether	0.0130		0.000367	0.00100	1	04/30/2017 21:48	WG975317
Naphthalene	U		0.00100	0.00500	1	04/30/2017 21:48	WG975317
n-Propylbenzene	0.000438	U	0.000349	0.00100	1	04/30/2017 21:48	WG975317
Styrene	U		0.000307	0.00100	1	04/30/2017 21:48	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 21:48	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 21:48	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 21:48	WG975317
Toluene	U		0.000412	0.00100	1	04/30/2017 21:48	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 21:48	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 21:48	WG975317
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 21:48	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 21:48	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 21:48	WG975317
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 21:48	WG975317
o-Xylene	U		0.000341	0.00100	1	04/30/2017 21:48	WG975317
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 21:48	WG975317
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 21:48	WG975317
(S) Toluene-d8	109			80.0-120		04/30/2017 21:48	WG975317
(S) Dibromofluoromethane	119			76.0-123		04/30/2017 21:48	WG975317
(S) 4-Bromofluorobenzene	95.4			80.0-120		04/30/2017 21:48	WG975317

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	31.1		0.247	1.00	10	05/06/2017 01:53	WG975281
(S) o-Terphenyl	62.1			31.0-160		05/06/2017 01:53	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6950		2.82	10.0	1	04/30/2017 11:17	WG974902

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:28	WG974950

Sample Narrative:

353.2 L905562-02 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	393		5.19	100	100	05/01/2017 15:18	WG975160
Fluoride	2.43		0.00990	0.100	1	05/01/2017 14:32	WG975160
Sulfate	4900		7.74	500	100	05/01/2017 15:18	WG975160

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0466		0.000250	0.00200	1	05/03/2017 03:04	WG975075
Arsenic,Dissolved	0.0336		0.000250	0.00200	1	05/03/2017 21:36	WG975066
Barium	0.0100		0.000360	0.00500	1	05/03/2017 03:04	WG975075
Barium,Dissolved	0.0101		0.000360	0.00500	1	05/03/2017 21:36	WG975066
Calcium	534		0.0460	1.00	1	05/03/2017 03:04	WG975075
Chromium	0.00752		0.000540	0.00200	1	05/03/2017 15:59	WG975075
Chromium,Dissolved	0.00772		0.000540	0.00200	1	05/03/2017 21:36	WG975066
Iron	7.88		0.0150	0.100	1	05/03/2017 15:59	WG975075
Iron,Dissolved	0.158		0.0150	0.100	1	05/03/2017 21:36	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:04	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:36	WG975066
Manganese	0.521		0.000250	0.00500	1	05/03/2017 03:04	WG975075
Manganese,Dissolved	0.563		0.000250	0.00500	1	05/03/2017 21:36	WG975066
Potassium	67.1		0.0370	1.00	1	05/03/2017 03:04	WG975075
Selenium	0.0106		0.000380	0.00200	1	05/03/2017 03:04	WG975075
Selenium,Dissolved	0.0101		0.000380	0.00200	1	05/03/2017 21:36	WG975066
Sodium	1280		0.550	5.00	5	05/03/2017 16:02	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.11		0.157	0.500	5	04/29/2017 02:48	WG974979
(S) a,a,a-Trifluorotoluene(FID) 97.8				77.0-122		04/29/2017 02:48	WG974979

Sample Narrative:

8015D/GRO L905562-02 WG974979: elevated RL due to foamy matrix.

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.100	0.500	10	05/10/2017 13:45	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 13:45	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 13:45	WG975317



Collected date/time: 04/26/17 17:25

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

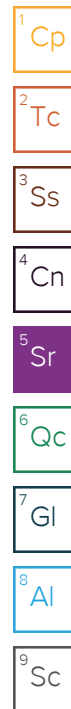
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromoform	U		0.00469	0.0100	10	05/10/2017 13:45	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 13:45	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 13:45	WG975317
sec-Butylbenzene	0.00382	J	0.00365	0.0100	10	05/10/2017 13:45	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 13:45	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 13:45	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 13:45	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 13:45	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 13:45	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 13:45	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 13:45	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 13:45	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 13:45	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 13:45	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 13:45	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 13:45	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 13:45	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 13:45	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 13:45	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 13:45	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 13:45	WG975317
Isopropylbenzene	0.0207		0.00326	0.0100	10	05/10/2017 13:45	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 13:45	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 13:45	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 13:45	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 13:45	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 13:45	WG975317
Methyl tert-butyl ether	0.00452	J	0.00367	0.0100	10	05/10/2017 13:45	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 13:45	WG975317
n-Propylbenzene	0.00565	J	0.00349	0.0100	10	05/10/2017 13:45	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 13:45	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 13:45	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 13:45	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 13:45	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 13:45	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 13:45	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 13:45	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 13:45	WG975317
1,2,4-Trimethylbenzene	0.00384	J	0.00373	0.0100	10	05/10/2017 13:45	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 13:45	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 13:45	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 13:45	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 13:45	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 13:45	WG975317
(S) Toluene-d8	104			80.0-120		05/10/2017 13:45	WG975317
(S) Dibromofluoromethane	103			76.0-123		05/10/2017 13:45	WG975317
(S) 4-Bromofluorobenzene	98.1			80.0-120		05/10/2017 13:45	WG975317

Sample Narrative:

8260B L905562-02 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	57.5		0.494	2.00	20	05/06/2017 02:11	WG975281
(S) o-Terphenyl	34.2	J		31.0-160		05/06/2017 02:11	WG975281





Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4290		2.82	10.0	1	04/30/2017 11:17	WG974902

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.372	J	0.197	1.00	10	05/02/2017 13:29	WG974950

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	98.0		0.0519	1.00	1	05/01/2017 14:43	WG975160
Fluoride	9.91		0.00990	0.100	1	05/01/2017 14:43	WG975160
Sulfate	2640		3.87	250	50	05/01/2017 15:30	WG975160

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00820		0.000250	0.00200	1	05/03/2017 03:07	WG975075
Arsenic,Dissolved	0.00661		0.000250	0.00200	1	05/03/2017 21:39	WG975066
Barium	0.0388		0.000360	0.00500	1	05/03/2017 03:07	WG975075
Barium,Dissolved	0.0411		0.000360	0.00500	1	05/03/2017 21:39	WG975066
Calcium	537		0.0460	1.00	1	05/03/2017 03:07	WG975075
Chromium	0.0422		0.000540	0.00200	1	05/03/2017 16:06	WG975075
Chromium,Dissolved	0.0388		0.000540	0.00200	1	05/03/2017 21:39	WG975066
Iron	0.469		0.0150	0.100	1	05/03/2017 16:06	WG975075
Iron,Dissolved	0.0653	J	0.0150	0.100	1	05/03/2017 21:39	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:07	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:39	WG975066
Manganese	0.435		0.000250	0.00500	1	05/03/2017 03:07	WG975075
Manganese,Dissolved	0.473		0.000250	0.00500	1	05/03/2017 21:39	WG975066
Potassium	17.4		0.0370	1.00	1	05/03/2017 03:07	WG975075
Selenium	0.00957		0.000380	0.00200	1	05/03/2017 03:07	WG975075
Selenium,Dissolved	0.00868		0.000380	0.00200	1	05/03/2017 21:39	WG975066
Sodium	366		0.110	1.00	1	05/03/2017 03:07	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.314	1.00	10	04/29/2017 03:10	WG974979
(S) a,a,a-Trifluorotoluene(FID) 96.2				77.0-122		04/29/2017 03:10	WG974979

Sample Narrative:

8015D/GRO L905562-03 WG974979: elevated RL due to foamy matrix.

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.100	0.500	10	05/10/2017 13:58	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 13:58	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 13:58	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 13:58	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 13:58	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 13:58	WG975317



Collected date/time: 04/26/17 18:05

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 13:58	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 13:58	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 13:58	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 13:58	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 13:58	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 13:58	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 13:58	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 13:58	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 13:58	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 13:58	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 13:58	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 13:58	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 13:58	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 13:58	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 13:58	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 13:58	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 13:58	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 13:58	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 13:58	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 13:58	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 13:58	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 13:58	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 13:58	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 13:58	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 13:58	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 13:58	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 13:58	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 13:58	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 13:58	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 13:58	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 13:58	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 13:58	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 13:58	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 13:58	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 13:58	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 13:58	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 13:58	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 13:58	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 13:58	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 13:58	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 13:58	WG975317
(S) Toluene-d8	104			80.0-120		05/10/2017 13:58	WG975317
(S) Dibromofluoromethane	103			76.0-123		05/10/2017 13:58	WG975317
(S) 4-Bromofluorobenzene	98.3			80.0-120		05/10/2017 13:58	WG975317

Sample Narrative:

8260B L905562-03 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	59.1		0.247	1.00	10	05/06/2017 01:02	WG975281
(S) o-Terphenyl	43.1			31.0-160		05/06/2017 01:02	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6100		2.82	10.0	1	04/29/2017 14:25	WG974907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	3.35		0.197	1.00	10	05/02/2017 13:30	WG974950

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1550		5.19	100	100	05/03/2017 14:36	WG975912
Fluoride	7.16		0.00990	0.100	1	05/01/2017 14:55	WG975160
Sulfate	2520		7.74	500	100	05/01/2017 15:42	WG975160

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.220		0.000250	0.00200	1	05/03/2017 03:11	WG975075
Arsenic,Dissolved	0.114		0.000250	0.00200	1	05/03/2017 21:43	WG975066
Barium	0.0174		0.000360	0.00500	1	05/03/2017 03:11	WG975075
Barium,Dissolved	0.0170		0.000360	0.00500	1	05/03/2017 21:43	WG975066
Calcium	333		0.0460	1.00	1	05/03/2017 03:11	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 16:09	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 21:43	WG975066
Iron	3.39		0.0150	0.100	1	05/03/2017 16:09	WG975075
Iron,Dissolved	0.0351	J	0.0150	0.100	1	05/03/2017 21:43	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:11	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:43	WG975066
Manganese	0.828		0.000250	0.00500	1	05/03/2017 03:11	WG975075
Manganese,Dissolved	0.882		0.000250	0.00500	1	05/03/2017 21:43	WG975066
Potassium	17.5		0.0370	1.00	1	05/03/2017 03:11	WG975075
Selenium	0.00229		0.000380	0.00200	1	05/03/2017 03:11	WG975075
Selenium,Dissolved	0.00182	J	0.000380	0.00200	1	05/03/2017 21:43	WG975066
Sodium	1510		1.10	10.0	10	05/03/2017 16:13	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.46		0.0314	0.100	1	04/29/2017 03:32	WG974979
(S) a,a,a-Trifluorotoluene(FID) 99.7				77.0-122		04/29/2017 03:32	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/30/2017 22:54	WG975317
Benzene	0.00145		0.000331	0.00100	1	04/30/2017 22:54	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 22:54	WG975317
Bromoform	U		0.000469	0.00100	1	04/30/2017 22:54	WG975317
Bromomethane	U		0.000866	0.00500	1	04/30/2017 22:54	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 22:54	WG975317
sec-Butylbenzene	0.000433	J	0.000365	0.00100	1	04/30/2017 22:54	WG975317
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 22:54	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 22:54	WG975317



Collected date/time: 04/26/17 18:50

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 22:54	WG975317	2 Tc
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 22:54	WG975317	3 Ss
Chloroethane	U		0.000453	0.00500	1	04/30/2017 22:54	WG975317	4 Cn
Chloroform	U		0.000324	0.00500	1	04/30/2017 22:54	WG975317	5 Sr
Chloromethane	U		0.000276	0.00250	1	04/30/2017 22:54	WG975317	6 Qc
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 22:54	WG975317	7 Gl
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 22:54	WG975317	8 Al
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 22:54	WG975317	9 Sc
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 22:54	WG975317	
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 22:54	WG975317	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 22:54	WG975317	
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 22:54	WG975317	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 22:54	WG975317	
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 22:54	WG975317	
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 22:54	WG975317	
Isopropylbenzene	0.00303		0.000326	0.00100	1	04/30/2017 22:54	WG975317	
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 22:54	WG975317	
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 22:54	WG975317	
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 22:54	WG975317	
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 22:54	WG975317	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 22:54	WG975317	
Methyl tert-butyl ether	0.00645		0.000367	0.00100	1	04/30/2017 22:54	WG975317	
Naphthalene	U		0.00100	0.00500	1	04/30/2017 22:54	WG975317	
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 22:54	WG975317	
Styrene	U		0.000307	0.00100	1	04/30/2017 22:54	WG975317	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 22:54	WG975317	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 22:54	WG975317	
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 22:54	WG975317	
Toluene	U		0.000412	0.00100	1	04/30/2017 22:54	WG975317	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 22:54	WG975317	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 22:54	WG975317	
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 22:54	WG975317	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 22:54	WG975317	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 22:54	WG975317	
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 22:54	WG975317	
o-Xylene	U		0.000341	0.00100	1	04/30/2017 22:54	WG975317	
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 22:54	WG975317	
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 22:54	WG975317	
(S) Toluene-d8	109			80.0-120		04/30/2017 22:54	WG975317	
(S) Dibromofluoromethane	118			76.0-123		04/30/2017 22:54	WG975317	
(S) 4-Bromofluorobenzene	94.1			80.0-120		04/30/2017 22:54	WG975317	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	16.7		0.247	1.00	10	05/06/2017 01:19	WG975281
(S) o-Terphenyl	64.4			31.0-160		05/06/2017 01:19	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5900		2.82	10.0	1	04/29/2017 14:25	WG974907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:36	WG974950

Sample Narrative:

353.2 L905562-05 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	45.4		0.0519	1.00	1	05/01/2017 14:36	WG975161
Fluoride	4.80		0.00990	0.100	1	05/01/2017 14:36	WG975161
Sulfate	3840		7.74	500	100	05/01/2017 15:21	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0236		0.000250	0.00200	1	05/03/2017 03:14	WG975075
Arsenic,Dissolved	0.0183		0.000250	0.00200	1	05/03/2017 21:46	WG975066
Barium	0.0387		0.000360	0.00500	1	05/03/2017 03:14	WG975075
Barium,Dissolved	0.0357		0.000360	0.00500	1	05/03/2017 21:46	WG975066
Calcium	483		0.0460	1.00	1	05/03/2017 03:14	WG975075
Chromium	0.0224		0.000540	0.00200	1	05/03/2017 16:16	WG975075
Chromium,Dissolved	0.00753		0.000540	0.00200	1	05/03/2017 21:46	WG975066
Iron	8.80		0.0150	0.100	1	05/03/2017 16:16	WG975075
Iron,Dissolved	0.0258	J	0.0150	0.100	1	05/03/2017 21:46	WG975066
Lead	0.00153	J	0.000240	0.00200	1	05/03/2017 03:14	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:46	WG975066
Manganese	0.570		0.000250	0.00500	1	05/03/2017 03:14	WG975075
Manganese,Dissolved	0.606		0.000250	0.00500	1	05/03/2017 21:46	WG975066
Potassium	49.4		0.0370	1.00	1	05/03/2017 03:14	WG975075
Selenium	0.00556		0.000380	0.00200	1	05/03/2017 03:14	WG975075
Selenium,Dissolved	0.00339		0.000380	0.00200	1	05/03/2017 21:46	WG975066
Sodium	256		0.110	1.00	1	05/03/2017 03:14	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.305		0.0314	0.100	1	04/29/2017 03:54	WG974979
(S) a,a,a-Trifluorotoluene(FID) 99.1				77.0-122		04/29/2017 03:54	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.100	0.500	10	05/10/2017 14:11	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 14:11	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 14:11	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 14:11	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 14:11	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 14:11	WG975317



Collected date/time: 04/26/17 15:55

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 14:11	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 14:11	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 14:11	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 14:11	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 14:11	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 14:11	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 14:11	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 14:11	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 14:11	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 14:11	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 14:11	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 14:11	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 14:11	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 14:11	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 14:11	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 14:11	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 14:11	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 14:11	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 14:11	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 14:11	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 14:11	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 14:11	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 14:11	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 14:11	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 14:11	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 14:11	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 14:11	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 14:11	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 14:11	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 14:11	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 14:11	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 14:11	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 14:11	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 14:11	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 14:11	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 14:11	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 14:11	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 14:11	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 14:11	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 14:11	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 14:11	WG975317
(S) Toluene-d8	104			80.0-120		05/10/2017 14:11	WG975317
(S) Dibromofluoromethane	103			76.0-123		05/10/2017 14:11	WG975317
(S) 4-Bromofluorobenzene	98.7			80.0-120		05/10/2017 14:11	WG975317

Sample Narrative:

8260B L905562-05 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	29.8		0.247	1.00	10	05/06/2017 01:36	WG975281
(S) o-Terphenyl	47.1			31.0-160		05/06/2017 01:36	WG975281

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5080		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:37	WG974950

Sample Narrative:

353.2 L905562-06 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1330		5.19	100	100	05/01/2017 15:38	WG975161
Fluoride	1.94		0.00990	0.100	1	05/01/2017 14:50	WG975161
Sulfate	2480		7.74	500	100	05/01/2017 15:38	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0213		0.000250	0.00200	1	05/03/2017 03:18	WG975075
Arsenic,Dissolved	0.0179		0.000250	0.00200	1	05/03/2017 21:50	WG975066
Barium	0.0140		0.000360	0.00500	1	05/03/2017 03:18	WG975075
Barium,Dissolved	0.0138		0.000360	0.00500	1	05/03/2017 21:50	WG975066
Calcium	603		0.0460	1.00	1	05/03/2017 03:18	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 16:20	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 21:50	WG975066
Iron	0.532		0.0150	0.100	1	05/03/2017 16:20	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 21:50	WG975066
Lead	0.000306	J	0.000240	0.00200	1	05/03/2017 03:18	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:50	WG975066
Manganese	0.945		0.000250	0.00500	1	05/03/2017 03:18	WG975075
Manganese,Dissolved	1.08		0.000250	0.00500	1	05/03/2017 21:50	WG975066
Potassium	4.57		0.0370	1.00	1	05/03/2017 03:18	WG975075
Selenium	0.00303		0.000380	0.00200	1	05/03/2017 03:18	WG975075
Selenium,Dissolved	0.00281		0.000380	0.00200	1	05/03/2017 21:50	WG975066
Sodium	944		0.110	1.00	1	05/03/2017 03:18	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.205		0.0314	0.100	1	04/29/2017 04:17	WG974979
(S) a,a,a-Trifluorotoluene(FID) 96.8				77.0-122		04/29/2017 04:17	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	04/30/2017 23:38	WG975317
Benzene	U		0.000331	0.00100	1	04/30/2017 23:38	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 23:38	WG975317
Bromoform	U		0.000469	0.00100	1	04/30/2017 23:38	WG975317
Bromomethane	U		0.000866	0.00500	1	04/30/2017 23:38	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 23:38	WG975317



Collected date/time: 04/26/17 14:55

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 23:38	WG975317
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 23:38	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 23:38	WG975317
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 23:38	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 23:38	WG975317
Chloroethane	U		0.000453	0.00500	1	04/30/2017 23:38	WG975317
Chloroform	U		0.000324	0.00500	1	04/30/2017 23:38	WG975317
Chloromethane	U		0.000276	0.00250	1	04/30/2017 23:38	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 23:38	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 23:38	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 23:38	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 23:38	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 23:38	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 23:38	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 23:38	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 23:38	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 23:38	WG975317
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 23:38	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 23:38	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 23:38	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 23:38	WG975317
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 23:38	WG975317
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 23:38	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 23:38	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 23:38	WG975317
Naphthalene	U		0.00100	0.00500	1	04/30/2017 23:38	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 23:38	WG975317
Styrene	U		0.000307	0.00100	1	04/30/2017 23:38	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 23:38	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 23:38	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 23:38	WG975317
Toluene	U		0.000412	0.00100	1	04/30/2017 23:38	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 23:38	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 23:38	WG975317
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 23:38	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 23:38	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 23:38	WG975317
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 23:38	WG975317
o-Xylene	U		0.000341	0.00100	1	04/30/2017 23:38	WG975317
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 23:38	WG975317
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 23:38	WG975317
(S) Toluene-d8	106			80.0-120		04/30/2017 23:38	WG975317
(S) Dibromofluoromethane	115			76.0-123		04/30/2017 23:38	WG975317
(S) 4-Bromofluorobenzene	95.3			80.0-120		04/30/2017 23:38	WG975317

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8.09		0.0247	0.100	1	05/05/2017 03:41	WG975281
(S) o-Terphenyl	74.0			31.0-160		05/05/2017 03:41	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6300		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:38	WG974950

Sample Narrative:

353.2 L905562-07 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1710		5.19	100	100	05/01/2017 15:52	WG975161
Fluoride	1.04		0.00990	0.100	1	05/01/2017 16:39	WG975161
Sulfate	2410		7.74	500	100	05/01/2017 15:52	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00709		0.000250	0.00200	1	05/03/2017 03:21	WG975075
Arsenic,Dissolved	0.00761		0.000250	0.00200	1	05/03/2017 20:51	WG975066
Barium	0.0101		0.000360	0.00500	1	05/03/2017 03:21	WG975075
Barium,Dissolved	0.0104		0.000360	0.00500	1	05/03/2017 20:51	WG975066
Calcium	406		0.0460	1.00	1	05/03/2017 03:21	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 16:23	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 20:51	WG975066
Iron	U		0.0150	0.100	1	05/03/2017 16:23	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 20:51	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:21	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 20:51	WG975066
Manganese	0.819		0.000250	0.00500	1	05/03/2017 03:21	WG975075
Manganese,Dissolved	0.901	<u>V</u>	0.000250	0.00500	1	05/03/2017 20:51	WG975066
Potassium	3.00		0.0370	1.00	1	05/03/2017 03:21	WG975075
Selenium	U		0.000380	0.00200	1	05/03/2017 03:21	WG975075
Selenium,Dissolved	0.000412	<u>J</u>	0.000380	0.00200	1	05/03/2017 20:51	WG975066
Sodium	1100		0.550	5.00	5	05/03/2017 16:26	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 04:39	WG974979
(S) a,a,a-Trifluorotoluene(FID) 94.7				77.0-122		04/29/2017 04:39	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/01/2017 00:00	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 00:00	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 00:00	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 00:00	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 00:00	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 00:00	WG975317



Collected date/time: 04/26/17 10:55

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 00:00	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 00:00	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 00:00	WG975317
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 00:00	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 00:00	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 00:00	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 00:00	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 00:00	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 00:00	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 00:00	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 00:00	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 00:00	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 00:00	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 00:00	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 00:00	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 00:00	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 00:00	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 00:00	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 00:00	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 00:00	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 00:00	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 00:00	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 00:00	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 00:00	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 00:00	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 00:00	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 00:00	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 00:00	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 00:00	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 00:00	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 00:00	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 00:00	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 00:00	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 00:00	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 00:00	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 00:00	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 00:00	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 00:00	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 00:00	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 00:00	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 00:00	WG975317
(S) Toluene-d8	106			80.0-120		05/01/2017 00:00	WG975317
(S) Dibromofluoromethane	117			76.0-123		05/01/2017 00:00	WG975317
(S) 4-Bromofluorobenzene	94.7			80.0-120		05/01/2017 00:00	WG975317

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.516		0.0247	0.100	1	05/05/2017 04:51	WG975281
(S) o-Terphenyl	68.2			31.0-160		05/05/2017 04:51	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6630		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:39	WG974950

Sample Narrative:

353.2 L905562-08 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2090		5.19	100	100	05/01/2017 17:56	WG975161
Fluoride	0.632		0.00990	0.100	1	05/01/2017 16:54	WG975161
Sulfate	2530		7.74	500	100	05/01/2017 17:56	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0411		0.000250	0.00200	1	05/03/2017 03:25	WG975075
Arsenic,Dissolved	0.0325		0.000250	0.00200	1	05/03/2017 21:53	WG975066
Barium	0.0161		0.000360	0.00500	1	05/03/2017 03:25	WG975075
Barium,Dissolved	0.0145		0.000360	0.00500	1	05/03/2017 21:53	WG975066
Calcium	493		0.0460	1.00	1	05/03/2017 03:25	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 16:30	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 21:53	WG975066
Iron	6.07		0.0150	0.100	1	05/03/2017 16:30	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 21:53	WG975066
Lead	0.000354	J	0.000240	0.00200	1	05/03/2017 03:25	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:53	WG975066
Manganese	5.82		0.000250	0.00500	1	05/03/2017 03:25	WG975075
Manganese,Dissolved	6.25		0.000250	0.00500	1	05/03/2017 21:53	WG975066
Potassium	3.71		0.0370	1.00	1	05/03/2017 03:25	WG975075
Selenium	0.000886	J	0.000380	0.00200	1	05/03/2017 03:25	WG975075
Selenium,Dissolved	0.000797	J	0.000380	0.00200	1	05/03/2017 21:53	WG975066
Sodium	1350		1.10	10.0	10	05/03/2017 17:10	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	3.63		0.0314	0.100	1	04/29/2017 05:01	WG974979
(S) a,a,a-Trifluorotoluene(FID) 97.6				77.0-122		04/29/2017 05:01	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/01/2017 00:22	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 00:22	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 00:22	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 00:22	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 00:22	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 00:22	WG975317



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.000625	J	0.000365	0.00100	1	05/01/2017 00:22	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 00:22	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 00:22	WG975317
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 00:22	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 00:22	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 00:22	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 00:22	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 00:22	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 00:22	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 00:22	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 00:22	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 00:22	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 00:22	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 00:22	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 00:22	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 00:22	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 00:22	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 00:22	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 00:22	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 00:22	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 00:22	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 00:22	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 00:22	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 00:22	WG975317
Methyl tert-butyl ether	0.00774		0.000367	0.00100	1	05/01/2017 00:22	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 00:22	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 00:22	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 00:22	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 00:22	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 00:22	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 00:22	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 00:22	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 00:22	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 00:22	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 00:22	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 00:22	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 00:22	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 00:22	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 00:22	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 00:22	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 00:22	WG975317
(S) Toluene-d8	108			80.0-120		05/01/2017 00:22	WG975317
(S) Dibromofluoromethane	118			76.0-123		05/01/2017 00:22	WG975317
(S) 4-Bromofluorobenzene	95.6			80.0-120		05/01/2017 00:22	WG975317

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.65		0.0247	0.100	1	05/05/2017 05:09	WG975281
(S) o-Terphenyl	71.6			31.0-160		05/05/2017 05:09	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5670		2.82	10.0	1	04/29/2017 14:25	WG974907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.408	J	0.197	1.00	10	05/02/2017 13:40	WG974950

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1400		5.19	100	100	05/01/2017 18:27	WG975161
Fluoride	0.771		0.00990	0.100	1	05/01/2017 17:25	WG975161
Sulfate	2080		7.74	500	100	05/01/2017 18:27	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0255		0.000250	0.00200	1	05/03/2017 03:29	WG975075
Arsenic,Dissolved	0.0242		0.000250	0.00200	1	05/03/2017 21:57	WG975066
Barium	0.0116		0.000360	0.00500	1	05/03/2017 03:29	WG975075
Barium,Dissolved	0.0109		0.000360	0.00500	1	05/03/2017 21:57	WG975066
Calcium	396		0.0460	1.00	1	05/03/2017 03:29	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:14	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 21:57	WG975066
Iron	1.03		0.0150	0.100	1	05/03/2017 17:14	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 21:57	WG975066
Lead	0.000313	J	0.000240	0.00200	1	05/03/2017 03:29	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:57	WG975066
Manganese	3.35		0.000250	0.00500	1	05/03/2017 03:29	WG975075
Manganese,Dissolved	3.53		0.000250	0.00500	1	05/03/2017 21:57	WG975066
Potassium	4.15		0.0370	1.00	1	05/03/2017 03:29	WG975075
Selenium	0.000603	J	0.000380	0.00200	1	05/03/2017 03:29	WG975075
Selenium,Dissolved	0.000555	J	0.000380	0.00200	1	05/03/2017 21:57	WG975066
Sodium	1150		0.550	5.00	5	05/03/2017 17:17	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.76		0.0314	0.100	1	04/29/2017 05:23	WG974979
(S) a,a,a-Trifluorotoluene(FID) 97.0				77.0-122		04/29/2017 05:23	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 00:43	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 00:43	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 00:43	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 00:43	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 00:43	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 00:43	WG975317
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 00:43	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 00:43	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 00:43	WG975317



Collected date/time: 04/26/17 12:35

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 00:43	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 00:43	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 00:43	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 00:43	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 00:43	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 00:43	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 00:43	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 00:43	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 00:43	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 00:43	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 00:43	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 00:43	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 00:43	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 00:43	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 00:43	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 00:43	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 00:43	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 00:43	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 00:43	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 00:43	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 00:43	WG975317
Methyl tert-butyl ether	0.00564		0.000367	0.00100	1	05/01/2017 00:43	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 00:43	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 00:43	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 00:43	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 00:43	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 00:43	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 00:43	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 00:43	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 00:43	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 00:43	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 00:43	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 00:43	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 00:43	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 00:43	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 00:43	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 00:43	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 00:43	WG975317
(S) Toluene-d8	107			80.0-120		05/01/2017 00:43	WG975317
(S) Dibromofluoromethane	116			76.0-123		05/01/2017 00:43	WG975317
(S) 4-Bromofluorobenzene	98.8			80.0-120		05/01/2017 00:43	WG975317

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.25		0.0247	0.100	1	05/05/2017 05:26	WG975281
(S) o-Terphenyl	73.6			31.0-160		05/05/2017 05:26	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4850		2.82	10.0	1	04/29/2017 14:25	WG974907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	593		1.97	10.0	100	05/02/2017 14:51	WG974950

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1460		5.19	100	100	05/01/2017 18:42	WG975161
Fluoride	0.825		0.00990	0.100	1	05/01/2017 17:41	WG975161
Sulfate	2030		7.74	500	100	05/01/2017 18:42	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0156		0.000250	0.00200	1	05/03/2017 03:32	WG975075
Arsenic,Dissolved	0.0154		0.000250	0.00200	1	05/03/2017 22:00	WG975066
Barium	0.0118		0.000360	0.00500	1	05/03/2017 03:32	WG975075
Barium,Dissolved	0.0115		0.000360	0.00500	1	05/03/2017 22:00	WG975066
Calcium	460		0.0460	1.00	1	05/03/2017 03:32	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:21	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:00	WG975066
Iron	0.0992	J	0.0150	0.100	1	05/03/2017 17:21	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:00	WG975066
Lead	0.000290	J	0.000240	0.00200	1	05/03/2017 03:32	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:00	WG975066
Manganese	2.24		0.000250	0.00500	1	05/03/2017 03:32	WG975075
Manganese,Dissolved	2.46		0.000250	0.00500	1	05/03/2017 22:00	WG975066
Potassium	3.41		0.0370	1.00	1	05/03/2017 03:32	WG975075
Selenium	0.000483	J	0.000380	0.00200	1	05/03/2017 03:32	WG975075
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 22:00	WG975066
Sodium	996		0.110	1.00	1	05/03/2017 03:32	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.877		0.0314	0.100	1	04/29/2017 05:45	WG974979
(S) <i>a,a,a</i> -Trifluorotoluene(FID) 97.0				77.0-122		04/29/2017 05:45	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/01/2017 01:05	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 01:05	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 01:05	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 01:05	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 01:05	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 01:05	WG975317
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 01:05	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 01:05	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 01:05	WG975317



Collected date/time: 04/26/17 13:20

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 01:05	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 01:05	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 01:05	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 01:05	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 01:05	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 01:05	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 01:05	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 01:05	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 01:05	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 01:05	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 01:05	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 01:05	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 01:05	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 01:05	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 01:05	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 01:05	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 01:05	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 01:05	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 01:05	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 01:05	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 01:05	WG975317
Methyl tert-butyl ether	0.00195		0.000367	0.00100	1	05/01/2017 01:05	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 01:05	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 01:05	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 01:05	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 01:05	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 01:05	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 01:05	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 01:05	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 01:05	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 01:05	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 01:05	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 01:05	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 01:05	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 01:05	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 01:05	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 01:05	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 01:05	WG975317
(S) Toluene-d8	106			80.0-120		05/01/2017 01:05	WG975317
(S) Dibromofluoromethane	114			76.0-123		05/01/2017 01:05	WG975317
(S) 4-Bromofluorobenzene	95.3			80.0-120		05/01/2017 01:05	WG975317

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.75		0.0247	0.100	1	05/05/2017 05:44	WG975281
(S) o-Terphenyl	67.4			31.0-160		05/05/2017 05:44	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4660		2.82	10.0	1	04/29/2017 14:25	WG974907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:42	WG974950

Sample Narrative:

353.2 L905562-11 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	904		5.19	100	100	05/01/2017 20:46	WG975161
Fluoride	1.62		0.00990	0.100	1	05/01/2017 19:29	WG975161
Sulfate	2080		7.74	500	100	05/01/2017 20:46	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0105		0.000250	0.00200	1	05/03/2017 03:43	WG975075
Arsenic,Dissolved	0.00999		0.000250	0.00200	1	05/03/2017 22:04	WG975066
Barium	0.0135		0.000360	0.00500	1	05/03/2017 03:43	WG975075
Barium,Dissolved	0.0137		0.000360	0.00500	1	05/03/2017 22:04	WG975066
Calcium	353		0.0460	1.00	1	05/03/2017 03:43	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:24	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:04	WG975066
Iron	0.193		0.0150	0.100	1	05/03/2017 17:24	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:04	WG975066
Lead	0.000366	J	0.000240	0.00200	1	05/03/2017 03:43	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:04	WG975066
Manganese	0.385		0.000250	0.00500	1	05/03/2017 03:43	WG975075
Manganese,Dissolved	0.416		0.000250	0.00500	1	05/03/2017 22:04	WG975066
Potassium	1.38		0.0370	1.00	1	05/03/2017 03:43	WG975075
Selenium	0.000910	J	0.000380	0.00200	1	05/03/2017 03:43	WG975075
Selenium,Dissolved	0.000824	J	0.000380	0.00200	1	05/03/2017 22:04	WG975066
Sodium	770		0.110	1.00	1	05/03/2017 17:24	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.335		0.0314	0.100	1	04/29/2017 06:07	WG974979
(S) a,a,a-Trifluorotoluene(FID) 98.0				77.0-122		04/29/2017 06:07	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.100	0.500	10	05/10/2017 14:24	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 14:24	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 14:24	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 14:24	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 14:24	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 14:24	WG975317



Collected date/time: 04/26/17 18:10

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 14:24	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 14:24	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 14:24	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 14:24	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 14:24	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 14:24	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 14:24	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 14:24	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 14:24	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 14:24	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 14:24	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 14:24	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 14:24	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 14:24	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 14:24	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 14:24	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 14:24	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 14:24	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 14:24	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 14:24	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 14:24	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 14:24	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 14:24	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 14:24	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 14:24	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 14:24	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 14:24	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 14:24	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 14:24	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 14:24	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 14:24	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 14:24	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 14:24	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 14:24	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 14:24	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 14:24	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 14:24	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 14:24	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 14:24	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 14:24	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 14:24	WG975317
(S) Toluene-d8	104			80.0-120		05/10/2017 14:24	WG975317
(S) Dibromofluoromethane	103			76.0-123		05/10/2017 14:24	WG975317
(S) 4-Bromofluorobenzene	99.5			80.0-120		05/10/2017 14:24	WG975317

Sample Narrative:

8260B L905562-11 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	14.2		0.124	0.500	5	05/05/2017 15:29	WG975281
(S) o-Terphenyl	67.0			31.0-160		05/05/2017 15:29	WG975281

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4150		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:43	WG974950

Sample Narrative:

353.2 L905562-12 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1250		5.19	100	100	05/01/2017 21:01	WG975161
Fluoride	0.694		0.00990	0.100	1	05/01/2017 19:44	WG975161
Sulfate	1730		7.74	500	100	05/01/2017 21:01	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0115		0.000250	0.00200	1	05/03/2017 03:46	WG975075
Arsenic,Dissolved	0.00863		0.000250	0.00200	1	05/03/2017 22:23	WG975066
Barium	0.0134		0.000360	0.00500	1	05/03/2017 03:46	WG975075
Barium,Dissolved	0.0141		0.000360	0.00500	1	05/03/2017 22:23	WG975066
Calcium	418		0.0460	1.00	1	05/03/2017 03:46	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:28	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:23	WG975066
Iron	0.149		0.0150	0.100	1	05/03/2017 17:28	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:23	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:46	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:23	WG975066
Manganese	0.889		0.000250	0.00500	1	05/03/2017 03:46	WG975075
Manganese,Dissolved	1.01		0.000250	0.00500	1	05/03/2017 22:23	WG975066
Potassium	3.97		0.0370	1.00	1	05/03/2017 03:46	WG975075
Selenium	U		0.000380	0.00200	1	05/03/2017 03:46	WG975075
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 22:23	WG975066
Sodium	738		0.110	1.00	1	05/03/2017 17:28	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 06:30	WG974979
(S) a,a,a-Trifluorotoluene(FID) 95.5				77.0-122		04/29/2017 06:30	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/01/2017 01:49	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 01:49	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 01:49	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 01:49	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 01:49	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 01:49	WG975317



Collected date/time: 04/26/17 18:50

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 01:49	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 01:49	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 01:49	WG975317
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 01:49	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 01:49	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 01:49	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 01:49	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 01:49	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 01:49	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 01:49	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 01:49	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 01:49	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 01:49	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 01:49	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 01:49	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 01:49	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 01:49	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 01:49	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 01:49	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 01:49	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 01:49	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 01:49	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 01:49	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 01:49	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 01:49	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 01:49	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 01:49	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 01:49	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 01:49	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 01:49	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 01:49	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 01:49	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 01:49	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 01:49	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 01:49	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 01:49	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 01:49	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 01:49	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 01:49	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 01:49	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 01:49	WG975317
(S) Toluene-d8	105			80.0-120		05/01/2017 01:49	WG975317
(S) Dibromofluoromethane	112			76.0-123		05/01/2017 01:49	WG975317
(S) 4-Bromofluorobenzene	93.8			80.0-120		05/01/2017 01:49	WG975317

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.276		0.0247	0.100	1	05/05/2017 16:55	WG975281
(S) o-Terphenyl	65.2			31.0-160		05/05/2017 16:55	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	8460		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:48	WG974950

Sample Narrative:

353.2 L905562-13 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	3070		5.19	100	100	05/01/2017 21:17	WG975161
Fluoride	3.15		0.00990	0.100	1	05/01/2017 20:00	WG975161
Sulfate	2730		7.74	500	100	05/01/2017 21:17	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0106		0.000250	0.00200	1	05/03/2017 03:50	WG975075
Arsenic,Dissolved	0.00532		0.000250	0.00200	1	05/03/2017 22:26	WG975066
Barium	0.0144		0.000360	0.00500	1	05/03/2017 03:50	WG975075
Barium,Dissolved	0.0129		0.000360	0.00500	1	05/03/2017 22:26	WG975066
Calcium	728		0.0460	1.00	1	05/03/2017 03:50	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:31	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:26	WG975066
Iron	4.54		0.0150	0.100	1	05/03/2017 17:31	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:26	WG975066
Lead	0.000345	J	0.000240	0.00200	1	05/03/2017 03:50	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:26	WG975066
Manganese	1.48		0.000250	0.00500	1	05/03/2017 03:50	WG975075
Manganese,Dissolved	1.52		0.000250	0.00500	1	05/03/2017 22:26	WG975066
Potassium	3.11		0.0370	1.00	1	05/03/2017 03:50	WG975075
Selenium	0.00251		0.000380	0.00200	1	05/03/2017 03:50	WG975075
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 22:26	WG975066
Sodium	1600		1.10	10.0	10	05/03/2017 17:35	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0584	J	0.0314	0.100	1	04/29/2017 06:52	WG974979
(S) a,a,a-Trifluorotoluene(FID) 97.5				77.0-122		04/29/2017 06:52	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.100	0.500	10	05/10/2017 14:37	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 14:37	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 14:37	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 14:37	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 14:37	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 14:37	WG975317



Collected date/time: 04/26/17 17:25

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 14:37	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 14:37	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 14:37	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 14:37	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 14:37	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 14:37	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 14:37	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 14:37	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 14:37	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 14:37	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 14:37	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 14:37	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 14:37	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 14:37	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 14:37	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 14:37	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 14:37	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 14:37	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 14:37	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 14:37	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 14:37	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 14:37	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 14:37	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 14:37	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 14:37	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 14:37	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 14:37	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 14:37	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 14:37	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 14:37	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 14:37	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 14:37	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 14:37	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 14:37	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 14:37	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 14:37	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 14:37	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 14:37	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 14:37	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 14:37	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 14:37	WG975317
(S) Toluene-d8	103			80.0-120		05/10/2017 14:37	WG975317
(S) Dibromofluoromethane	101			76.0-123		05/10/2017 14:37	WG975317
(S) 4-Bromofluorobenzene	98.8			80.0-120		05/10/2017 14:37	WG975317

Sample Narrative:

8260B L905562-13 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.813		0.0247	0.100	1	05/05/2017 06:36	WG975281
(S) o-Terphenyl	69.3			31.0-160		05/05/2017 06:36	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5100		2.82	10.0	1	04/29/2017 14:56	WG974911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.19		0.197	1.00	10	05/02/2017 13:49	WG974950

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1210		5.19	100	100	05/01/2017 21:32	WG975161
Fluoride	4.69		0.00990	0.100	1	05/01/2017 20:15	WG975161
Sulfate	2840		7.74	500	100	05/01/2017 21:32	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0322		0.000250	0.00200	1	05/03/2017 03:54	WG975075
Arsenic,Dissolved	0.0244		0.000250	0.00200	1	05/03/2017 22:30	WG975066
Barium	0.0128		0.000360	0.00500	1	05/03/2017 03:54	WG975075
Barium,Dissolved	0.0128		0.000360	0.00500	1	05/03/2017 22:30	WG975066
Calcium	597		0.0460	1.00	1	05/03/2017 03:54	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:38	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:30	WG975066
Iron	0.304		0.0150	0.100	1	05/03/2017 17:38	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:30	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:54	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:30	WG975066
Manganese	2.66		0.000250	0.00500	1	05/03/2017 03:54	WG975075
Manganese,Dissolved	2.60		0.000250	0.00500	1	05/03/2017 22:30	WG975066
Potassium	2.87		0.0370	1.00	1	05/03/2017 03:54	WG975075
Selenium	0.00468		0.000380	0.00200	1	05/03/2017 03:54	WG975075
Selenium,Dissolved	0.00560		0.000380	0.00200	1	05/03/2017 22:30	WG975066
Sodium	862		0.110	1.00	1	05/03/2017 17:38	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 07:14	WG974979
(S) a,a,a-Trifluorotoluene(FID) 95.2				77.0-122		04/29/2017 07:14	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 02:33	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 02:33	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 02:33	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 02:33	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 02:33	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 02:33	WG975317
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 02:33	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 02:33	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 02:33	WG975317



Collected date/time: 04/26/17 16:40

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 02:33	WG975317	2 Tc
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 02:33	WG975317	3 Ss
Chloroethane	U		0.000453	0.00500	1	05/01/2017 02:33	WG975317	4 Cn
Chloroform	U		0.000324	0.00500	1	05/01/2017 02:33	WG975317	5 Sr
Chloromethane	U		0.000276	0.00250	1	05/01/2017 02:33	WG975317	6 Qc
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 02:33	WG975317	7 Gl
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 02:33	WG975317	8 Al
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 02:33	WG975317	9 Sc
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 02:33	WG975317	
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 02:33	WG975317	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 02:33	WG975317	
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 02:33	WG975317	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 02:33	WG975317	
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 02:33	WG975317	
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 02:33	WG975317	
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 02:33	WG975317	
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 02:33	WG975317	
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 02:33	WG975317	
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 02:33	WG975317	
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 02:33	WG975317	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 02:33	WG975317	
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 02:33	WG975317	
Naphthalene	U		0.00100	0.00500	1	05/01/2017 02:33	WG975317	
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 02:33	WG975317	
Styrene	U		0.000307	0.00100	1	05/01/2017 02:33	WG975317	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 02:33	WG975317	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 02:33	WG975317	
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 02:33	WG975317	
Toluene	U		0.000412	0.00100	1	05/01/2017 02:33	WG975317	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 02:33	WG975317	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 02:33	WG975317	
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 02:33	WG975317	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 02:33	WG975317	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 02:33	WG975317	
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 02:33	WG975317	
o-Xylene	U		0.000341	0.00100	1	05/01/2017 02:33	WG975317	
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 02:33	WG975317	
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 02:33	WG975317	
(S) Toluene-d8	105			80.0-120		05/01/2017 02:33	WG975317	
(S) Dibromofluoromethane	116			76.0-123		05/01/2017 02:33	WG975317	
(S) 4-Bromofluorobenzene	94.2			80.0-120		05/01/2017 02:33	WG975317	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.428		0.0247	0.100	1	05/05/2017 06:53	WG975281
(S) o-Terphenyl	64.2			31.0-160		05/05/2017 06:53	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9360		2.82	10.0	1	04/29/2017 14:56	WG974911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:50	WG974950

Sample Narrative:

353.2 L905562-15 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1850		5.19	100	100	05/01/2017 21:47	WG975161
Fluoride	5.68		0.00990	0.100	1	05/01/2017 20:30	WG975161
Sulfate	4690		7.74	500	100	05/01/2017 21:47	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0798		0.000250	0.00200	1	05/03/2017 03:57	WG975075
Arsenic,Dissolved	0.0740		0.000250	0.00200	1	05/03/2017 22:33	WG975066
Barium	0.0132		0.000360	0.00500	1	05/03/2017 03:57	WG975075
Barium,Dissolved	0.0130		0.000360	0.00500	1	05/03/2017 22:33	WG975066
Calcium	573		0.0460	1.00	1	05/03/2017 03:57	WG975075
Chromium	0.000849	J	0.000540	0.00200	1	05/03/2017 17:42	WG975075
Chromium,Dissolved	0.00227		0.000540	0.00200	1	05/03/2017 22:33	WG975066
Iron	0.439		0.0150	0.100	1	05/03/2017 17:42	WG975075
Iron,Dissolved	0.0725	J	0.0150	0.100	1	05/03/2017 22:33	WG975066
Lead	0.000346	J	0.000240	0.00200	1	05/03/2017 03:57	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:33	WG975066
Manganese	2.28		0.000250	0.00500	1	05/03/2017 03:57	WG975075
Manganese,Dissolved	2.46		0.000250	0.00500	1	05/03/2017 22:33	WG975066
Potassium	8.06		0.0370	1.00	1	05/03/2017 03:57	WG975075
Selenium	0.00527		0.000380	0.00200	1	05/03/2017 03:57	WG975075
Selenium,Dissolved	0.00472		0.000380	0.00200	1	05/03/2017 22:33	WG975066
Sodium	1430		1.10	10.0	10	05/03/2017 19:34	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.314	1.00	10	04/29/2017 07:36	WG974979
(S) a,a,a-Trifluorotoluene(FID) 98.4				77.0-122		04/29/2017 07:36	WG974979

Sample Narrative:

8015D/GRO L905562-15 WG974979: elevated RL due to foamy matrix.

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.100	0.500	10	05/10/2017 14:50	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 14:50	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 14:50	WG975317



Collected date/time: 04/26/17 14:15

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
Bromoform	U		0.00469	0.0100	10	05/10/2017 14:50	WG975317	¹ Cp
Bromomethane	U		0.00866	0.0500	10	05/10/2017 14:50	WG975317	² Tc
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 14:50	WG975317	³ Ss
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 14:50	WG975317	⁴ Cn
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 14:50	WG975317	⁵ Sr
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 14:50	WG975317	⁶ Qc
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 14:50	WG975317	⁷ Gl
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 14:50	WG975317	⁸ Al
Chloroethane	U		0.00453	0.0500	10	05/10/2017 14:50	WG975317	⁹ Sc
Chloroform	U		0.00324	0.0500	10	05/10/2017 14:50	WG975317	
Chloromethane	U		0.00276	0.0250	10	05/10/2017 14:50	WG975317	
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 14:50	WG975317	
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 14:50	WG975317	
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 14:50	WG975317	
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 14:50	WG975317	
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 14:50	WG975317	
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 14:50	WG975317	
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 14:50	WG975317	
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 14:50	WG975317	
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 14:50	WG975317	
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 14:50	WG975317	
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 14:50	WG975317	
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 14:50	WG975317	
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 14:50	WG975317	
2-Hexanone	U		0.0382	0.100	10	05/10/2017 14:50	WG975317	
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 14:50	WG975317	
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 14:50	WG975317	
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 14:50	WG975317	
Naphthalene	U		0.0100	0.0500	10	05/10/2017 14:50	WG975317	
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 14:50	WG975317	
Styrene	U		0.00307	0.0100	10	05/10/2017 14:50	WG975317	
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 14:50	WG975317	
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 14:50	WG975317	
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 14:50	WG975317	
Toluene	U		0.00412	0.0100	10	05/10/2017 14:50	WG975317	
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 14:50	WG975317	
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 14:50	WG975317	
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 14:50	WG975317	
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 14:50	WG975317	
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 14:50	WG975317	
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 14:50	WG975317	
o-Xylene	U		0.00341	0.0100	10	05/10/2017 14:50	WG975317	
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 14:50	WG975317	
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 14:50	WG975317	
(S) Toluene-d8	103			80.0-120		05/10/2017 14:50	WG975317	
(S) Dibromofluoromethane	102			76.0-123		05/10/2017 14:50	WG975317	
(S) 4-Bromofluorobenzene	99.7			80.0-120		05/10/2017 14:50	WG975317	

Sample Narrative:

8260B L905562-15 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.92		0.494	2.00	20	05/08/2017 16:31	WG975281
(S) o-Terphenyl	2.30	J7		31.0-160		05/08/2017 16:31	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	9060		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:51	WG974950

Sample Narrative:

353.2 L905562-16 WG974950: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2700		5.19	100	100	05/01/2017 23:51	WG975161
Fluoride	3.71		0.00990	0.100	1	05/01/2017 22:34	WG975161
Sulfate	3900		7.74	500	100	05/01/2017 23:51	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00519		0.000250	0.00200	1	05/03/2017 04:01	WG975075
Arsenic,Dissolved	0.00436		0.000250	0.00200	1	05/03/2017 22:37	WG975066
Barium	0.0300		0.000360	0.00500	1	05/03/2017 04:01	WG975075
Barium,Dissolved	0.0292		0.000360	0.00500	1	05/03/2017 22:37	WG975066
Calcium	632		0.0460	1.00	1	05/03/2017 04:01	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 19:37	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:37	WG975066
Iron	2.02		0.0150	0.100	1	05/03/2017 19:37	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:37	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 04:01	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:37	WG975066
Manganese	2.03		0.000250	0.00500	1	05/03/2017 04:01	WG975075
Manganese,Dissolved	2.16		0.000250	0.00500	1	05/03/2017 22:37	WG975066
Potassium	5.19		0.0370	1.00	1	05/03/2017 04:01	WG975075
Selenium	0.000551	J	0.000380	0.00200	1	05/03/2017 04:01	WG975075
Selenium,Dissolved	0.000462	J	0.000380	0.00200	1	05/03/2017 22:37	WG975066
Sodium	1770		1.10	10.0	10	05/03/2017 19:40	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 07:59	WG974979
(S) a,a,a-Trifluorotoluene(FID) 95.2				77.0-122		04/29/2017 07:59	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.100	0.500	10	05/10/2017 15:03	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 15:03	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 15:03	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 15:03	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 15:03	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 15:03	WG975317



Collected date/time: 04/26/17 15:55

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 15:03	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 15:03	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 15:03	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 15:03	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 15:03	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 15:03	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 15:03	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 15:03	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 15:03	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 15:03	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 15:03	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 15:03	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 15:03	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 15:03	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 15:03	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 15:03	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 15:03	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 15:03	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 15:03	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 15:03	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 15:03	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 15:03	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 15:03	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 15:03	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 15:03	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 15:03	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 15:03	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 15:03	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 15:03	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 15:03	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 15:03	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 15:03	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 15:03	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 15:03	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 15:03	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 15:03	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 15:03	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 15:03	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 15:03	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 15:03	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 15:03	WG975317
(S) Toluene-d8	103			80.0-120		05/10/2017 15:03	WG975317
(S) Dibromofluoromethane	104			76.0-123		05/10/2017 15:03	WG975317
(S) 4-Bromofluorobenzene	98.3			80.0-120		05/10/2017 15:03	WG975317

Sample Narrative:

8260B L905562-16 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.850		0.0247	0.100	1	05/05/2017 07:11	WG975281
(S) o-Terphenyl	66.5			31.0-160		05/05/2017 07:11	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6880		2.82	10.0	1	04/29/2017 14:56	WG974911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	80.5		0.197	1.00	10	05/02/2017 15:02	WG975586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1370		5.19	100	100	05/02/2017 00:06	WG975161
Fluoride	7.55		0.00990	0.100	1	05/01/2017 22:49	WG975161
Sulfate	3050		7.74	500	100	05/02/2017 00:06	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0157		0.000250	0.00200	1	05/03/2017 04:04	WG975075
Arsenic,Dissolved	0.0160		0.000250	0.00200	1	05/03/2017 22:40	WG975066
Barium	0.0144		0.000360	0.00500	1	05/03/2017 04:04	WG975075
Barium,Dissolved	0.0144		0.000360	0.00500	1	05/03/2017 22:40	WG975066
Calcium	560		0.0460	1.00	1	05/03/2017 04:04	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 19:44	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:40	WG975066
Iron	U		0.0150	0.100	1	05/03/2017 19:44	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:40	WG975066
Lead	0.000248	J	0.000240	0.00200	1	05/03/2017 04:04	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:40	WG975066
Manganese	0.0117		0.000250	0.00500	1	05/03/2017 04:04	WG975075
Manganese,Dissolved	0.00250	J	0.000250	0.00500	1	05/03/2017 22:40	WG975066
Potassium	9.28		0.0370	1.00	1	05/03/2017 04:04	WG975075
Selenium	0.0182		0.000380	0.00200	1	05/03/2017 04:04	WG975075
Selenium,Dissolved	0.0169		0.000380	0.00200	1	05/03/2017 22:40	WG975066
Sodium	1260		0.550	5.00	5	05/03/2017 19:48	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 08:21	WG974979
(S) a,a,a-Trifluorotoluene(FID) 95.7				77.0-122		04/29/2017 08:21	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 03:40	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 03:40	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 03:40	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 03:40	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 03:40	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 03:40	WG975317
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 03:40	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 03:40	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 03:40	WG975317



Collected date/time: 04/26/17 13:30

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 03:40	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 03:40	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 03:40	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 03:40	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 03:40	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 03:40	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 03:40	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 03:40	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 03:40	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 03:40	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 03:40	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 03:40	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 03:40	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 03:40	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 03:40	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 03:40	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 03:40	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 03:40	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 03:40	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 03:40	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 03:40	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 03:40	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 03:40	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 03:40	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 03:40	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 03:40	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 03:40	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 03:40	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 03:40	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 03:40	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 03:40	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 03:40	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 03:40	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 03:40	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 03:40	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 03:40	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 03:40	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 03:40	WG975317
(S) Toluene-d8	106			80.0-120		05/01/2017 03:40	WG975317
(S) Dibromofluoromethane	113			76.0-123		05/01/2017 03:40	WG975317
(S) 4-Bromofluorobenzene	95.3			80.0-120		05/01/2017 03:40	WG975317

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.84		0.0247	0.100	1	05/05/2017 07:28	WG975281
(S) o-Terphenyl	71.0			31.0-160		05/05/2017 07:28	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	7920		2.82	10.0	1	04/29/2017 14:56	WG974911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.63		0.197	1.00	10	05/02/2017 15:03	WG975586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2530		5.19	100	100	05/02/2017 00:21	WG975161
Fluoride	3.59		0.00990	0.100	1	05/01/2017 23:04	WG975161
Sulfate	2640		7.74	500	100	05/02/2017 00:21	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00643		0.000250	0.00200	1	05/03/2017 04:08	WG975075
Arsenic,Dissolved	0.00597		0.000250	0.00200	1	05/03/2017 22:44	WG975066
Barium	0.0173		0.000360	0.00500	1	05/03/2017 04:08	WG975075
Barium,Dissolved	0.0166		0.000360	0.00500	1	05/03/2017 22:44	WG975066
Calcium	759		0.0460	1.00	1	05/03/2017 04:08	WG975075
Chromium	0.00138	J	0.000540	0.00200	1	05/03/2017 19:51	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:44	WG975066
Iron	0.160		0.0150	0.100	1	05/03/2017 19:51	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:44	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 04:08	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:44	WG975066
Manganese	0.598		0.000250	0.00500	1	05/03/2017 04:08	WG975075
Manganese,Dissolved	0.587		0.000250	0.00500	1	05/03/2017 22:44	WG975066
Potassium	3.53		0.0370	1.00	1	05/03/2017 04:08	WG975075
Selenium	0.00218		0.000380	0.00200	1	05/03/2017 04:08	WG975075
Selenium,Dissolved	0.00205		0.000380	0.00200	1	05/03/2017 22:44	WG975066
Sodium	1230		0.550	5.00	5	05/03/2017 19:55	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 08:43	WG974979
(S) a,a,a-Trifluorotoluene(FID) 95.9				77.0-122		04/29/2017 08:43	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 04:02	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 04:02	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 04:02	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 04:02	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 04:02	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 04:02	WG975317
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 04:02	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 04:02	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 04:02	WG975317



Collected date/time: 04/26/17 12:45

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 04:02	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 04:02	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 04:02	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 04:02	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 04:02	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 04:02	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 04:02	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 04:02	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 04:02	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 04:02	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 04:02	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 04:02	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 04:02	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 04:02	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 04:02	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 04:02	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 04:02	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 04:02	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 04:02	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 04:02	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 04:02	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 04:02	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 04:02	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 04:02	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 04:02	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 04:02	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 04:02	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 04:02	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 04:02	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 04:02	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 04:02	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 04:02	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 04:02	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 04:02	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 04:02	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 04:02	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 04:02	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 04:02	WG975317
(S) Toluene-d8	107			80.0-120		05/01/2017 04:02	WG975317
(S) Dibromofluoromethane	113			76.0-123		05/01/2017 04:02	WG975317
(S) 4-Bromofluorobenzene	95.4			80.0-120		05/01/2017 04:02	WG975317

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.680		0.0247	0.100	1	05/05/2017 07:45	WG975281
(S) o-Terphenyl	67.1			31.0-160		05/05/2017 07:45	WG975281



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5040		2.82	10.0	1	04/29/2017 14:56	WG974911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.26		0.197	1.00	10	05/02/2017 15:04	WG975586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1590		5.19	100	100	05/02/2017 00:52	WG975161
Fluoride	7.33		0.00990	0.100	1	05/01/2017 23:35	WG975161
Sulfate	2330		7.74	500	100	05/02/2017 00:52	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00521		0.000250	0.00200	1	05/03/2017 02:39	WG975075
Arsenic,Dissolved	0.00433		0.000250	0.00200	1	05/03/2017 22:47	WG975066
Barium	0.0166		0.000360	0.00500	1	05/03/2017 02:39	WG975075
Barium,Dissolved	0.0162		0.000360	0.00500	1	05/03/2017 22:47	WG975066
Calcium	527	V	0.0460	1.00	1	05/03/2017 02:39	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 15:15	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:47	WG975066
Iron	0.150		0.0150	0.100	1	05/03/2017 02:39	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:47	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 02:39	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:47	WG975066
Manganese	1.11	V	0.000250	0.00500	1	05/03/2017 02:39	WG975075
Manganese,Dissolved	1.21		0.000250	0.00500	1	05/03/2017 22:47	WG975066
Potassium	7.58		0.0370	1.00	1	05/03/2017 02:39	WG975075
Selenium	0.000569	J	0.000380	0.00200	1	05/03/2017 02:39	WG975075
Selenium,Dissolved	0.000456	J	0.000380	0.00200	1	05/03/2017 22:47	WG975066
Sodium	987		0.110	1.00	1	05/03/2017 15:15	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 09:05	WG974979
(S) a,a,a-Trifluorotoluene(FID) 94.5				77.0-122		04/29/2017 09:05	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.100	0.500	10	05/10/2017 15:16	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 15:16	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 15:16	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 15:16	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 15:16	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 15:16	WG975317
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 15:16	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 15:16	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 15:16	WG975317



Collected date/time: 04/26/17 11:55

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 15:16	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 15:16	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 15:16	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 15:16	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 15:16	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 15:16	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 15:16	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 15:16	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 15:16	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 15:16	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 15:16	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 15:16	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 15:16	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 15:16	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 15:16	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 15:16	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 15:16	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 15:16	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 15:16	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 15:16	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 15:16	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 15:16	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 15:16	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 15:16	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 15:16	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 15:16	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 15:16	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 15:16	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 15:16	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 15:16	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 15:16	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 15:16	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 15:16	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 15:16	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 15:16	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 15:16	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 15:16	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 15:16	WG975317
(S) Toluene-d8	103			80.0-120		05/10/2017 15:16	WG975317
(S) Dibromofluoromethane	101			76.0-123		05/10/2017 15:16	WG975317
(S) 4-Bromofluorobenzene	99.6			80.0-120		05/10/2017 15:16	WG975317

Sample Narrative:

8260B L905562-19 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.498		0.0247	0.100	1	05/05/2017 08:03	WG975281
(S) o-Terphenyl	67.8			31.0-160		05/05/2017 08:03	WG975281

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	19000		2.82	10.0	1	04/29/2017 14:56	WG974911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0220	J	0.0197	0.100	1	05/02/2017 15:05	WG975586

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	6650		5.19	100	100	05/02/2017 02:56	WG975161
Fluoride	2.19		0.00990	0.100	1	05/02/2017 01:39	WG975161
Sulfate	6010		7.74	500	100	05/02/2017 02:56	WG975161

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00923		0.000250	0.00200	1	05/03/2017 04:11	WG975075
Arsenic,Dissolved	0.00354		0.000250	0.00200	1	05/03/2017 22:51	WG975066
Barium	0.0188		0.000360	0.00500	1	05/03/2017 04:11	WG975075
Barium,Dissolved	0.0175		0.000360	0.00500	1	05/03/2017 22:51	WG975066
Calcium	720		0.0460	1.00	1	05/03/2017 04:11	WG975075
Chromium	0.000757	J	0.000540	0.00200	1	05/03/2017 19:58	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:51	WG975066
Iron	3.02		0.0150	0.100	1	05/03/2017 19:58	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:51	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 04:11	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:51	WG975066
Manganese	1.43		0.000250	0.00500	1	05/03/2017 04:11	WG975075
Manganese,Dissolved	1.49		0.000250	0.00500	1	05/03/2017 22:51	WG975066
Potassium	6.21		0.0370	1.00	1	05/03/2017 04:11	WG975075
Selenium	0.00105	J	0.000380	0.00200	1	05/03/2017 04:11	WG975075
Selenium,Dissolved	0.000949	J	0.000380	0.00200	1	05/03/2017 22:51	WG975066
Sodium	4310		2.20	20.0	20	05/03/2017 20:02	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 09:27	WG974979
(S) a,a,a-Trifluorotoluene(FID) 94.1				77.0-122		04/29/2017 09:27	WG974979

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.100	0.500	10	05/10/2017 15:29	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 15:29	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 15:29	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 15:29	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 15:29	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 15:29	WG975317
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 15:29	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 15:29	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 15:29	WG975317



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 15:29	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 15:29	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 15:29	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 15:29	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 15:29	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 15:29	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 15:29	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 15:29	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 15:29	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 15:29	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 15:29	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 15:29	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 15:29	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 15:29	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 15:29	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 15:29	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 15:29	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 15:29	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 15:29	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 15:29	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 15:29	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 15:29	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 15:29	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 15:29	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 15:29	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 15:29	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 15:29	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 15:29	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 15:29	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 15:29	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 15:29	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 15:29	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 15:29	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 15:29	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 15:29	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 15:29	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 15:29	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 15:29	WG975317
(S) Toluene-d8	104			80.0-120		05/10/2017 15:29	WG975317
(S) Dibromofluoromethane	102			76.0-123		05/10/2017 15:29	WG975317
(S) 4-Bromofluorobenzene	98.4			80.0-120		05/10/2017 15:29	WG975317

Sample Narrative:

8260B L905562-20 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.164		0.0247	0.100	1	05/05/2017 17:13	WG975281
(S) o-Terphenyl	62.8			31.0-160		05/05/2017 17:13	WG975281

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6200		2.82	10.0	1	04/29/2017 14:56	WG974911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0540	J P1	0.0197	0.100	1	05/02/2017 15:06	WG975586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1730		5.19	100	100	05/02/2017 03:11	WG975161
Fluoride	1.22		0.00990	0.100	1	05/02/2017 01:54	WG975161
Sulfate	2190		7.74	500	100	05/02/2017 03:11	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0231		0.000250	0.00200	1	05/03/2017 14:19	WG975080
Arsenic,Dissolved	0.0224		0.000250	0.00200	1	05/10/2017 15:51	WG978287
Barium	0.0213	O1	0.000360	0.00500	1	05/03/2017 14:19	WG975080
Barium,Dissolved	0.0206		0.000360	0.00500	1	05/10/2017 15:51	WG978287
Calcium	514	V	0.0460	1.00	1	05/03/2017 14:19	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 14:19	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 15:51	WG978287
Iron	0.0684	B J	0.0150	0.100	1	05/03/2017 14:19	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 15:51	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 14:19	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 15:51	WG978287
Manganese	2.59		0.000250	0.00500	1	05/03/2017 14:19	WG975080
Manganese,Dissolved	1.73		0.000250	0.00500	1	05/10/2017 15:51	WG978287
Potassium	3.72		0.0370	1.00	1	05/03/2017 14:19	WG975080
Selenium	0.000395	J	0.000380	0.00200	1	05/03/2017 14:19	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 15:51	WG978287
Sodium	1240	V	1.10	10.0	10	05/03/2017 18:02	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.96		0.0314	0.100	1	04/28/2017 22:08	WG974980
(S) a,a,a-Trifluorotoluene(FID) 99.4				77.0-122		04/28/2017 22:08	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 23:28	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 23:28	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 23:28	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 23:28	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 23:28	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 23:28	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 23:28	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 23:28	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 23:28	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 23:28	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 23:28	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 23:28	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 23:28	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/01/2017 23:28	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 23:28	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 23:28	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 23:28	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 23:28	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 23:28	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 23:28	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 23:28	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/01/2017 23:28	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 23:28	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 23:28	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 23:28	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 23:28	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 23:28	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/01/2017 23:28	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 23:28	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 23:28	WG975485
Methyl tert-butyl ether	0.00114		0.000367	0.00100	1	05/01/2017 23:28	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/01/2017 23:28	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 23:28	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 23:28	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 23:28	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 23:28	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 23:28	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 23:28	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 23:28	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/01/2017 23:28	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 23:28	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 23:28	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 23:28	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 23:28	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 23:28	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 23:28	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 23:28	WG975485
(S) Toluene-d8	104			80.0-120		05/01/2017 23:28	WG975485
(S) Dibromofluoromethane	103			76.0-123		05/01/2017 23:28	WG975485
(S) 4-Bromofluorobenzene	110			80.0-120		05/01/2017 23:28	WG975485

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.36		0.0247	0.100	1	05/04/2017 21:52	WG975280
(S) o-Terphenyl	70.0			31.0-160		05/04/2017 21:52	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4550		2.82	10.0	1	04/29/2017 14:56	WG974911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/02/2017 15:12	WG975586

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1480		5.19	100	100	05/02/2017 03:26	WG975161
Fluoride	1.93		0.00990	0.100	1	05/02/2017 02:40	WG975161
Sulfate	2070		7.74	500	100	05/02/2017 03:26	WG975161

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.172		0.000250	0.00200	1	05/03/2017 14:34	WG975080
Arsenic,Dissolved	0.147		0.000250	0.00200	1	05/10/2017 15:54	WG978287
Barium	0.0123		0.000360	0.00500	1	05/03/2017 14:34	WG975080
Barium,Dissolved	0.0123		0.000360	0.00500	1	05/10/2017 15:54	WG978287
Calcium	417		0.0460	1.00	1	05/03/2017 14:34	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 14:34	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 15:54	WG978287
Iron	2.34		0.0150	0.100	1	05/03/2017 14:34	WG975080
Iron,Dissolved	0.104		0.0150	0.100	1	05/10/2017 15:54	WG978287
Lead	0.000274	J	0.000240	0.00200	1	05/03/2017 14:34	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 15:54	WG978287
Manganese	1.91		0.000250	0.00500	1	05/03/2017 14:34	WG975080
Manganese,Dissolved	1.94		0.000250	0.00500	1	05/10/2017 15:54	WG978287
Potassium	3.51		0.0370	1.00	1	05/03/2017 14:34	WG975080
Selenium	0.000665	J	0.000380	0.00200	1	05/03/2017 14:34	WG975080
Selenium,Dissolved	0.000498	J	0.000380	0.00200	1	05/10/2017 15:54	WG978287
Sodium	919		0.550	5.00	5	05/03/2017 18:06	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.607		0.0314	0.100	1	04/28/2017 22:32	WG974980
(S) a,a,a-Trifluorotoluene(FID) 97.2				77.0-122		04/28/2017 22:32	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 23:45	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 23:45	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 23:45	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 23:45	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 23:45	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 23:45	WG975485
sec-Butylbenzene	0.000375	J	0.000365	0.00100	1	05/01/2017 23:45	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 23:45	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 23:45	WG975485



Collected date/time: 04/26/17 09:25

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 23:45	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 23:45	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 23:45	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 23:45	WG975485
Chloromethane	U	<u>J4</u>	0.000276	0.00250	1	05/01/2017 23:45	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 23:45	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 23:45	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 23:45	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 23:45	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 23:45	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 23:45	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 23:45	WG975485
cis-1,3-Dichloropropene	U	<u>J4</u>	0.000418	0.00100	1	05/01/2017 23:45	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 23:45	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 23:45	WG975485
Isopropylbenzene	0.00449		0.000326	0.00100	1	05/01/2017 23:45	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 23:45	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 23:45	WG975485
2-Hexanone	U	<u>J3 J4</u>	0.00382	0.0100	1	05/01/2017 23:45	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 23:45	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 23:45	WG975485
Methyl tert-butyl ether	0.000444	<u>J</u>	0.000367	0.00100	1	05/01/2017 23:45	WG975485
Naphthalene	U	<u>J4</u>	0.00100	0.00500	1	05/01/2017 23:45	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 23:45	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 23:45	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 23:45	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 23:45	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 23:45	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 23:45	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 23:45	WG975485
1,1,2-Trichloroethane	U	<u>J4</u>	0.000383	0.00100	1	05/01/2017 23:45	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 23:45	WG975485
1,2,4-Trimethylbenzene	0.000390	<u>J</u>	0.000373	0.00100	1	05/01/2017 23:45	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 23:45	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 23:45	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 23:45	WG975485
m&p-Xylene	0.00105	<u>J</u>	0.000719	0.00200	1	05/01/2017 23:45	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 23:45	WG975485
(S) Toluene-d8	105			80.0-120		05/01/2017 23:45	WG975485
(S) Dibromofluoromethane	103			76.0-123		05/01/2017 23:45	WG975485
(S) 4-Bromofluorobenzene	103			80.0-120		05/01/2017 23:45	WG975485

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8.15		0.0247	0.100	1	05/04/2017 22:09	WG975280
(S) o-Terphenyl	76.4			31.0-160		05/04/2017 22:09	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3690		2.82	10.0	1	04/29/2017 14:56	WG974911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/02/2017 15:13	WG975586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1330		5.19	100	100	05/02/2017 04:44	WG975161
Fluoride	0.985		0.00990	0.100	1	05/02/2017 04:13	WG975161
Sulfate	1410		7.74	500	100	05/02/2017 04:44	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0371		0.000250	0.00200	1	05/03/2017 14:37	WG975080
Arsenic,Dissolved	0.0471		0.000250	0.00200	1	05/10/2017 16:06	WG978287
Barium	0.0182		0.000360	0.00500	1	05/03/2017 14:37	WG975080
Barium,Dissolved	0.0188		0.000360	0.00500	1	05/10/2017 16:06	WG978287
Calcium	360		0.0460	1.00	1	05/03/2017 14:37	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 14:37	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:06	WG978287
Iron	3.42		0.0150	0.100	1	05/03/2017 14:37	WG975080
Iron,Dissolved	0.0449	J	0.0150	0.100	1	05/10/2017 16:06	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 14:37	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:06	WG978287
Manganese	7.35		0.000250	0.00500	1	05/03/2017 14:37	WG975080
Manganese,Dissolved	9.32		0.000250	0.00500	1	05/10/2017 16:06	WG978287
Potassium	2.55		0.0370	1.00	1	05/03/2017 14:37	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 14:37	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:06	WG978287
Sodium	758		0.550	5.00	5	05/03/2017 18:21	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.318		0.0314	0.100	1	04/28/2017 22:56	WG974980
(S) a,a,a-Trifluorotoluene(FID) 99.9				77.0-122		04/28/2017 22:56	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 00:02	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 00:02	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 00:02	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 00:02	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 00:02	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 00:02	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 00:02	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 00:02	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 00:02	WG975485



Collected date/time: 04/26/17 10:10

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 00:02	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 00:02	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 00:02	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 00:02	WG975485
Chloromethane	U	<u>J4</u>	0.000276	0.00250	1	05/02/2017 00:02	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 00:02	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 00:02	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 00:02	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 00:02	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 00:02	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 00:02	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 00:02	WG975485
cis-1,3-Dichloropropene	U	<u>J4</u>	0.000418	0.00100	1	05/02/2017 00:02	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 00:02	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 00:02	WG975485
Isopropylbenzene	0.000727	<u>J</u>	0.000326	0.00100	1	05/02/2017 00:02	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 00:02	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 00:02	WG975485
2-Hexanone	U	<u>J3 J4</u>	0.00382	0.0100	1	05/02/2017 00:02	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 00:02	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 00:02	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 00:02	WG975485
Naphthalene	U	<u>J4</u>	0.00100	0.00500	1	05/02/2017 00:02	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 00:02	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 00:02	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 00:02	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 00:02	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 00:02	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 00:02	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 00:02	WG975485
1,1,2-Trichloroethane	U	<u>J4</u>	0.000383	0.00100	1	05/02/2017 00:02	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 00:02	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 00:02	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 00:02	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 00:02	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 00:02	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 00:02	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 00:02	WG975485
(S) Toluene-d8	104			80.0-120		05/02/2017 00:02	WG975485
(S) Dibromofluoromethane	106			76.0-123		05/02/2017 00:02	WG975485
(S) 4-Bromofluorobenzene	101			80.0-120		05/02/2017 00:02	WG975485

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.21		0.0247	0.100	1	05/04/2017 22:27	WG975280
(S) o-Terphenyl	67.6			31.0-160		05/04/2017 22:27	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9180		2.82	10.0	1	05/01/2017 17:17	WG975257

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.402	J	0.197	1.00	10	05/02/2017 15:15	WG975586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2880		5.19	100	100	05/02/2017 04:59	WG975161
Fluoride	0.736		0.00990	0.100	1	05/02/2017 04:28	WG975161
Sulfate	3010		7.74	500	100	05/02/2017 04:59	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00221		0.000250	0.00200	1	05/03/2017 14:53	WG975080
Arsenic,Dissolved	0.000880	J	0.000250	0.00200	1	05/10/2017 16:10	WG978287
Barium	0.0258		0.000360	0.00500	1	05/03/2017 14:53	WG975080
Barium,Dissolved	0.0254		0.000360	0.00500	1	05/10/2017 16:10	WG978287
Calcium	763		0.0460	1.00	1	05/03/2017 14:53	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 14:53	WG975080
Chromium,Dissolved	0.000638	J	0.000540	0.00200	1	05/10/2017 16:10	WG978287
Iron	4.50		0.0150	0.100	1	05/03/2017 14:53	WG975080
Iron,Dissolved	0.0387	J	0.0150	0.100	1	05/10/2017 16:10	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 14:53	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:10	WG978287
Manganese	2.38		0.000250	0.00500	1	05/03/2017 14:53	WG975080
Manganese,Dissolved	2.34		0.000250	0.00500	1	05/10/2017 16:10	WG978287
Potassium	5.11		0.0370	1.00	1	05/03/2017 14:53	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 14:53	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:10	WG978287
Sodium	1830		1.10	10.0	10	05/03/2017 18:24	WG975080

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 00:19	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 00:19	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 00:19	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 00:19	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 00:19	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 00:19	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 00:19	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 00:19	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 00:19	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 00:19	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 00:19	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 00:19	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 00:19	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 00:19	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 00:19	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 00:19	WG975485



Collected date/time: 04/26/17 16:00

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 00:19	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 00:19	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 00:19	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 00:19	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 00:19	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 00:19	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 00:19	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 00:19	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 00:19	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 00:19	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 00:19	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 00:19	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 00:19	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 00:19	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 00:19	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 00:19	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 00:19	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 00:19	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 00:19	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 00:19	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 00:19	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 00:19	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 00:19	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 00:19	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 00:19	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 00:19	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 00:19	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 00:19	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 00:19	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 00:19	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 00:19	WG975485
(S) Toluene-d8	103			80.0-120		05/02/2017 00:19	WG975485
(S) Dibromofluoromethane	103			76.0-123		05/02/2017 00:19	WG975485
(S) 4-Bromofluorobenzene	104			80.0-120		05/02/2017 00:19	WG975485

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0583	J	0.0247	0.100	1	05/05/2017 00:12	WG975280
(S) o-Terphenyl	63.5			31.0-160		05/05/2017 00:12	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2640		2.82	10.0	1	05/01/2017 17:17	WG975257

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.485	J	0.197	1.00	10	05/02/2017 15:16	WG975586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	612		2.60	50.0	50	04/30/2017 23:21	WG975327
Fluoride	1.58		0.00990	0.100	1	04/30/2017 22:36	WG975327
Sulfate	1100		3.87	250	50	04/30/2017 23:21	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0130		0.000250	0.00200	1	05/03/2017 14:57	WG975080
Arsenic,Dissolved	0.0132		0.000250	0.00200	1	05/10/2017 16:13	WG978287
Barium	0.0180		0.000360	0.00500	1	05/03/2017 14:57	WG975080
Barium,Dissolved	0.0182		0.000360	0.00500	1	05/10/2017 16:13	WG978287
Calcium	285		0.0460	1.00	1	05/03/2017 14:57	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 14:57	WG975080
Chromium,Dissolved	0.000671	J	0.000540	0.00200	1	05/10/2017 16:13	WG978287
Iron	0.0239	B J	0.0150	0.100	1	05/03/2017 14:57	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 16:13	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 14:57	WG975080
Lead,Dissolved	0.000257	J	0.000240	0.00200	1	05/10/2017 16:13	WG978287
Manganese	0.173		0.000250	0.00500	1	05/03/2017 14:57	WG975080
Manganese,Dissolved	0.180		0.000250	0.00500	1	05/10/2017 16:13	WG978287
Potassium	4.31		0.0370	1.00	1	05/03/2017 14:57	WG975080
Selenium	0.000518	J	0.000380	0.00200	1	05/03/2017 14:57	WG975080
Selenium,Dissolved	0.000506	J	0.000380	0.00200	1	05/10/2017 16:13	WG978287
Sodium	447		0.110	1.00	1	05/03/2017 14:57	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0940	J	0.0314	0.100	1	04/28/2017 23:20	WG974980
(S) a,a,a-Trifluorotoluene(FID) 99.4				77.0-122		04/28/2017 23:20	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 00:36	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 00:36	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 00:36	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 00:36	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 00:36	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 00:36	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 00:36	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 00:36	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 00:36	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 00:36	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 00:36	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 00:36	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 00:36	WG975485
Chloromethane	U	<u>J4</u>	0.000276	0.00250	1	05/02/2017 00:36	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 00:36	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 00:36	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 00:36	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 00:36	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 00:36	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 00:36	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 00:36	WG975485
cis-1,3-Dichloropropene	U	<u>J4</u>	0.000418	0.00100	1	05/02/2017 00:36	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 00:36	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 00:36	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 00:36	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 00:36	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 00:36	WG975485
2-Hexanone	U	<u>J3 J4</u>	0.00382	0.0100	1	05/02/2017 00:36	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 00:36	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 00:36	WG975485
Methyl tert-butyl ether	0.000373	<u>J</u>	0.000367	0.00100	1	05/02/2017 00:36	WG975485
Naphthalene	U	<u>J4</u>	0.00100	0.00500	1	05/02/2017 00:36	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 00:36	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 00:36	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 00:36	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 00:36	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 00:36	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 00:36	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 00:36	WG975485
1,1,2-Trichloroethane	U	<u>J4</u>	0.000383	0.00100	1	05/02/2017 00:36	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 00:36	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 00:36	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 00:36	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 00:36	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 00:36	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 00:36	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 00:36	WG975485
(S) Toluene-d8	103			80.0-120		05/02/2017 00:36	WG975485
(S) Dibromofluoromethane	106			76.0-123		05/02/2017 00:36	WG975485
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 00:36	WG975485

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.251		0.0247	0.100	1	05/05/2017 00:29	WG975280
(S) o-Terphenyl	66.6			31.0-160		05/05/2017 00:29	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8460		2.82	10.0	1	05/01/2017 17:17	WG975257

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.213	J	0.197	1.00	10	05/02/2017 15:17	WG975586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2490		5.19	100	100	04/30/2017 23:37	WG975327
Fluoride	3.60		0.00990	0.100	1	04/30/2017 23:06	WG975327
Sulfate	3020		7.74	500	100	04/30/2017 23:37	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00319		0.000250	0.00200	1	05/03/2017 15:00	WG975080
Arsenic,Dissolved	0.00284		0.000250	0.00200	1	05/10/2017 16:17	WG978287
Barium	0.0150		0.000360	0.00500	1	05/03/2017 15:00	WG975080
Barium,Dissolved	0.0174		0.000360	0.00500	1	05/10/2017 16:17	WG978287
Calcium	570		0.0460	1.00	1	05/03/2017 15:00	WG975080
Chromium	0.00119	J	0.000540	0.00200	1	05/03/2017 15:00	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:17	WG978287
Iron	0.275	B	0.0150	0.100	1	05/03/2017 15:00	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 16:17	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:00	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:17	WG978287
Manganese	1.27		0.000250	0.00500	1	05/03/2017 15:00	WG975080
Manganese,Dissolved	1.22		0.000250	0.00500	1	05/10/2017 16:17	WG978287
Potassium	4.22		0.0370	1.00	1	05/03/2017 15:00	WG975080
Selenium	0.000988	J	0.000380	0.00200	1	05/03/2017 15:00	WG975080
Selenium,Dissolved	0.000904	J	0.000380	0.00200	1	05/10/2017 16:17	WG978287
Sodium	1960		1.10	10.0	10	05/03/2017 18:28	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 23:44	WG974980
(S) a,a,a-Trifluorotoluene(FID) 99.2				77.0-122		04/28/2017 23:44	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 00:52	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 00:52	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 00:52	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 00:52	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 00:52	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 00:52	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 00:52	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 00:52	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 00:52	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 00:52	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 00:52	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 00:52	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 00:52	WG975485
Chloromethane	U	<u>J4</u>	0.000276	0.00250	1	05/02/2017 00:52	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 00:52	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 00:52	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 00:52	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 00:52	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 00:52	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 00:52	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 00:52	WG975485
cis-1,3-Dichloropropene	U	<u>J4</u>	0.000418	0.00100	1	05/02/2017 00:52	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 00:52	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 00:52	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 00:52	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 00:52	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 00:52	WG975485
2-Hexanone	U	<u>J3 J4</u>	0.00382	0.0100	1	05/02/2017 00:52	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 00:52	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 00:52	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 00:52	WG975485
Naphthalene	U	<u>J4</u>	0.00100	0.00500	1	05/02/2017 00:52	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 00:52	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 00:52	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 00:52	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 00:52	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 00:52	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 00:52	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 00:52	WG975485
1,1,2-Trichloroethane	U	<u>J4</u>	0.000383	0.00100	1	05/02/2017 00:52	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 00:52	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 00:52	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 00:52	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 00:52	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 00:52	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 00:52	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 00:52	WG975485
(S) Toluene-d8	103			80.0-120		05/02/2017 00:52	WG975485
(S) Dibromofluoromethane	104			76.0-123		05/02/2017 00:52	WG975485
(S) 4-Bromofluorobenzene	98.4			80.0-120		05/02/2017 00:52	WG975485

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.255		0.0247	0.100	1	05/05/2017 00:47	WG975280
(S) o-Terphenyl	65.2			31.0-160		05/05/2017 00:47	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5850		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 15:19	WG975586

Sample Narrative:

353.2 L905562-27 WG975586: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1840		5.19	100	100	04/30/2017 23:52	WG975327
Fluoride	0.800		0.00990	0.100	1	05/01/2017 00:39	WG975327
Sulfate	1860		7.74	500	100	04/30/2017 23:52	WG975327

Metals (ICPMS) by Method 6020

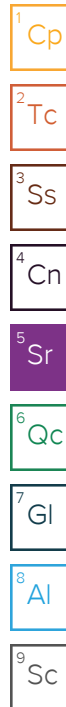
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00591		0.000250	0.00200	1	05/03/2017 15:04	WG975080
Arsenic,Dissolved	0.000769	J	0.000250	0.00200	1	05/10/2017 16:21	WG978287
Barium	0.0213		0.000360	0.00500	1	05/03/2017 15:04	WG975080
Barium,Dissolved	0.0228		0.000360	0.00500	1	05/10/2017 16:21	WG978287
Calcium	655		0.0460	1.00	1	05/03/2017 15:04	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 15:04	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:21	WG978287
Iron	6.76		0.0150	0.100	1	05/03/2017 15:04	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 16:21	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:04	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:21	WG978287
Manganese	1.22		0.000250	0.00500	1	05/03/2017 15:04	WG975080
Manganese,Dissolved	1.21		0.000250	0.00500	1	05/10/2017 16:21	WG978287
Potassium	5.49		0.0370	1.00	1	05/03/2017 15:04	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:04	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:21	WG978287
Sodium	995		0.550	5.00	5	05/03/2017 18:32	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 00:08	WG974980
(S) a,a,a-Trifluorotoluene(FID) 99.2				77.0-122		04/29/2017 00:08	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 01:09	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 01:09	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 01:09	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 01:09	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 01:09	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 01:09	WG975485





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 01:09	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 01:09	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 01:09	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 01:09	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 01:09	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 01:09	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 01:09	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 01:09	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 01:09	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 01:09	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 01:09	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 01:09	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 01:09	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 01:09	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 01:09	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 01:09	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 01:09	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 01:09	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 01:09	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 01:09	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 01:09	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 01:09	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 01:09	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 01:09	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 01:09	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 01:09	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 01:09	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 01:09	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 01:09	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 01:09	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 01:09	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 01:09	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 01:09	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 01:09	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 01:09	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 01:09	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 01:09	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 01:09	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 01:09	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 01:09	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 01:09	WG975485
(S) Toluene-d8	103			80.0-120		05/02/2017 01:09	WG975485
(S) Dibromofluoromethane	105			76.0-123		05/02/2017 01:09	WG975485
(S) 4-Bromofluorobenzene	105			80.0-120		05/02/2017 01:09	WG975485

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0497	J	0.0247	0.100	1	05/05/2017 01:04	WG975280
(S) o-Terphenyl	66.0			31.0-160		05/05/2017 01:04	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6440		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 15:24	WG975586

Sample Narrative:

353.2 L905562-28 WG975586: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2030		5.19	100	100	05/01/2017 01:56	WG975327
Fluoride	0.998		0.00990	0.100	1	05/01/2017 00:54	WG975327
Sulfate	2160		7.74	500	100	05/01/2017 01:56	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00141	J	0.000250	0.00200	1	05/03/2017 15:07	WG975080
Arsenic,Dissolved	0.000537	J	0.000250	0.00200	1	05/10/2017 16:24	WG978287
Barium	0.0207		0.000360	0.00500	1	05/03/2017 15:07	WG975080
Barium,Dissolved	0.0222		0.000360	0.00500	1	05/10/2017 16:24	WG978287
Calcium	733		0.0460	1.00	1	05/03/2017 15:07	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 15:07	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:24	WG978287
Iron	0.681		0.0150	0.100	1	05/03/2017 15:07	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 16:24	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:07	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:24	WG978287
Manganese	0.0337		0.000250	0.00500	1	05/03/2017 15:07	WG975080
Manganese,Dissolved	0.0565		0.000250	0.00500	1	05/10/2017 16:24	WG978287
Potassium	14.4		0.0370	1.00	1	05/03/2017 15:07	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:07	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:24	WG978287
Sodium	1120		1.10	10.0	10	05/03/2017 18:35	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 00:32	WG974980
(S) a,a,a-Trifluorotoluene(FID) 99.1				77.0-122		04/29/2017 00:32	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 01:26	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 01:26	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 01:26	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 01:26	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 01:26	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 01:26	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 01:26	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 01:26	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 01:26	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 01:26	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 01:26	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 01:26	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 01:26	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 01:26	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 01:26	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 01:26	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 01:26	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 01:26	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 01:26	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 01:26	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 01:26	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 01:26	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 01:26	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 01:26	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 01:26	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 01:26	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 01:26	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 01:26	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 01:26	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 01:26	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 01:26	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 01:26	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 01:26	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 01:26	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 01:26	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 01:26	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 01:26	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 01:26	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 01:26	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 01:26	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 01:26	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 01:26	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 01:26	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 01:26	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 01:26	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 01:26	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 01:26	WG975485
(S) Toluene-d8	105			80.0-120		05/02/2017 01:26	WG975485
(S) Dibromofluoromethane	89.2			76.0-123		05/02/2017 01:26	WG975485
(S) 4-Bromofluorobenzene	105			80.0-120		05/02/2017 01:26	WG975485

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/05/2017 01:22	WG975280
(S) o-Terphenyl	63.6			31.0-160		05/05/2017 01:22	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	11000		2.82	10.0	1	05/01/2017 17:17	WG975257

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0390	J P1	0.0197	0.100	1	05/02/2017 15:25	WG975586

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4110		5.19	100	100	05/01/2017 02:11	WG975327
Fluoride	0.908		0.00990	0.100	1	05/01/2017 01:10	WG975327
Sulfate	2850		7.74	500	100	05/01/2017 02:11	WG975327

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00227		0.000250	0.00200	1	05/03/2017 15:11	WG975080
Arsenic,Dissolved	0.000607	J	0.000250	0.00200	1	05/10/2017 16:28	WG978287
Barium	0.0219		0.000360	0.00500	1	05/03/2017 15:11	WG975080
Barium,Dissolved	0.0235		0.000360	0.00500	1	05/10/2017 16:28	WG978287
Calcium	809		0.0460	1.00	1	05/03/2017 15:11	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 15:11	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:28	WG978287
Iron	2.00		0.0150	0.100	1	05/03/2017 15:11	WG975080
Iron,Dissolved	0.419		0.0150	0.100	1	05/10/2017 16:28	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:11	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:28	WG978287
Manganese	0.0669		0.000250	0.00500	1	05/03/2017 15:11	WG975080
Manganese,Dissolved	0.0660		0.000250	0.00500	1	05/10/2017 16:28	WG978287
Potassium	33.7		0.0370	1.00	1	05/03/2017 15:11	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:11	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:28	WG978287
Sodium	2330		2.20	20.0	20	05/03/2017 18:39	WG975080

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 00:56	WG974980
(S) a,a,a-Trifluorotoluene(FID) 99.0				77.0-122		04/29/2017 00:56	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 01:43	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 01:43	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 01:43	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 01:43	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 01:43	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 01:43	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 01:43	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 01:43	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 01:43	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 01:43	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 01:43	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 01:43	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 01:43	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 01:43	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 01:43	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 01:43	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 01:43	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 01:43	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 01:43	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 01:43	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 01:43	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 01:43	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 01:43	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 01:43	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 01:43	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 01:43	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 01:43	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 01:43	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 01:43	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 01:43	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 01:43	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 01:43	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 01:43	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 01:43	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 01:43	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 01:43	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 01:43	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 01:43	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 01:43	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 01:43	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 01:43	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 01:43	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 01:43	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 01:43	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 01:43	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 01:43	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 01:43	WG975485
(S) Toluene-d8	105			80.0-120		05/02/2017 01:43	WG975485
(S) Dibromofluoromethane	103			76.0-123		05/02/2017 01:43	WG975485
(S) 4-Bromofluorobenzene	104			80.0-120		05/02/2017 01:43	WG975485

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/05/2017 01:39	WG975280
(S) o-Terphenyl	63.7			31.0-160		05/05/2017 01:39	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	19500		2.82	10.0	1	05/01/2017 17:17	WG975257

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.305	J	0.197	1.00	10	05/02/2017 15:27	WG975586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10200		26.0	500	500	05/01/2017 02:27	WG975327
Fluoride	0.683		0.00990	0.100	1	05/01/2017 01:25	WG975327
Sulfate	3290		38.7	2500	500	05/01/2017 02:27	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000556	J	0.000250	0.00200	1	05/03/2017 15:14	WG975080
Arsenic,Dissolved	0.000295	J	0.000250	0.00200	1	05/10/2017 16:31	WG978287
Barium	0.0306		0.000360	0.00500	1	05/03/2017 15:14	WG975080
Barium,Dissolved	0.0329		0.000360	0.00500	1	05/10/2017 16:31	WG978287
Calcium	1280		2.30	50.0	50	05/03/2017 18:43	WG975080
Chromium	0.00121	J	0.000540	0.00200	1	05/03/2017 15:14	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:31	WG978287
Iron	0.804		0.0150	0.100	1	05/03/2017 15:14	WG975080
Iron,Dissolved	0.0408	J	0.0150	0.100	1	05/10/2017 16:31	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:14	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:31	WG978287
Manganese	0.758		0.000250	0.00500	1	05/03/2017 15:14	WG975080
Manganese,Dissolved	0.773		0.000250	0.00500	1	05/10/2017 16:31	WG978287
Potassium	20.1		0.0370	1.00	1	05/03/2017 15:14	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:14	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:31	WG978287
Sodium	5130		5.50	50.0	50	05/03/2017 18:43	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 01:21	WG974980
(S) a,a,a-Trifluorotoluene(FID) 98.9				77.0-122		04/29/2017 01:21	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 02:00	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 02:00	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 02:00	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 02:00	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 02:00	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 02:00	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 02:00	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 02:00	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 02:00	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 02:00	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 02:00	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 02:00	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 02:00	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 02:00	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 02:00	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 02:00	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 02:00	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 02:00	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 02:00	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 02:00	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 02:00	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 02:00	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 02:00	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 02:00	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 02:00	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 02:00	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 02:00	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 02:00	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 02:00	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 02:00	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 02:00	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 02:00	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 02:00	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 02:00	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 02:00	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 02:00	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 02:00	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 02:00	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 02:00	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 02:00	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 02:00	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 02:00	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 02:00	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 02:00	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 02:00	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 02:00	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 02:00	WG975485
(S) Toluene-d8	104			80.0-120		05/02/2017 02:00	WG975485
(S) Dibromofluoromethane	103			76.0-123		05/02/2017 02:00	WG975485
(S) 4-Bromofluorobenzene	108			80.0-120		05/02/2017 02:00	WG975485

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/05/2017 01:56	WG975280
(S) o-Terphenyl	62.9			31.0-160		05/05/2017 01:56	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	14000		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 15:28	WG975586

Sample Narrative:

353.2 L905562-31 WG975586: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	6050		5.19	100	100	05/01/2017 02:42	WG975327
Fluoride	0.825		0.00990	0.100	1	05/01/2017 01:40	WG975327
Sulfate	2890		7.74	500	100	05/01/2017 02:42	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00420		0.000250	0.00200	1	05/03/2017 15:18	WG975080
Arsenic,Dissolved	0.00103	J	0.000250	0.00200	1	05/10/2017 16:35	WG978287
Barium	0.0189		0.000360	0.00500	1	05/03/2017 15:18	WG975080
Barium,Dissolved	0.0188		0.000360	0.00500	1	05/10/2017 16:35	WG978287
Calcium	979		0.0460	1.00	1	05/03/2017 15:18	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 15:18	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:35	WG978287
Iron	4.59		0.0150	0.100	1	05/03/2017 15:18	WG975080
Iron,Dissolved	0.0826	J	0.0150	0.100	1	05/10/2017 16:35	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:18	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:35	WG978287
Manganese	0.374		0.000250	0.00500	1	05/03/2017 15:18	WG975080
Manganese,Dissolved	0.370		0.000250	0.00500	1	05/10/2017 16:35	WG978287
Potassium	35.2		0.0370	1.00	1	05/03/2017 15:18	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:18	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:35	WG978287
Sodium	3660		5.50	50.0	50	05/03/2017 18:46	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 01:45	WG974980
(S) a,a,a-Trifluorotoluene(FID) 98.8				77.0-122		04/29/2017 01:45	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 02:16	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 02:16	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 02:16	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 02:16	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 02:16	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 02:16	WG975485



Collected date/time: 04/26/17 12:05

L905562

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 02:16	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 02:16	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 02:16	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 02:16	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 02:16	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 02:16	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 02:16	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 02:16	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 02:16	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 02:16	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 02:16	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 02:16	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 02:16	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 02:16	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 02:16	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 02:16	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 02:16	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 02:16	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 02:16	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 02:16	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 02:16	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 02:16	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 02:16	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 02:16	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 02:16	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 02:16	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 02:16	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 02:16	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 02:16	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 02:16	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 02:16	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 02:16	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 02:16	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 02:16	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 02:16	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 02:16	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 02:16	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 02:16	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 02:16	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 02:16	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 02:16	WG975485
(S) Toluene-d8	103			80.0-120		05/02/2017 02:16	WG975485
(S) Dibromofluoromethane	105			76.0-123		05/02/2017 02:16	WG975485
(S) 4-Bromofluorobenzene	108			80.0-120		05/02/2017 02:16	WG975485

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/05/2017 02:14	WG975280
(S) o-Terphenyl	63.8			31.0-160		05/05/2017 02:14	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	12100		2.82	10.0	1	05/01/2017 17:17	WG975257

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 15:29	WG975586

Sample Narrative:

353.2 L905562-32 WG975586: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	4720		5.19	100	100	05/01/2017 05:16	WG975327
Fluoride	0.872		0.00990	0.100	1	05/01/2017 03:28	WG975327
Sulfate	2990		7.74	500	100	05/01/2017 05:16	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0108		0.000250	0.00200	1	05/03/2017 15:22	WG975080
Arsenic,Dissolved	0.00197	J	0.000250	0.00200	1	05/10/2017 16:38	WG978287
Barium	0.0269		0.000360	0.00500	1	05/03/2017 15:22	WG975080
Barium,Dissolved	0.0245		0.000360	0.00500	1	05/10/2017 16:38	WG978287
Calcium	829		0.0460	1.00	1	05/03/2017 15:22	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 15:22	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:38	WG978287
Iron	17.0		0.0150	0.100	1	05/03/2017 15:22	WG975080
Iron,Dissolved	0.357		0.0150	0.100	1	05/10/2017 16:38	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:22	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:38	WG978287
Manganese	0.343		0.000250	0.00500	1	05/03/2017 15:22	WG975080
Manganese,Dissolved	0.290		0.000250	0.00500	1	05/10/2017 16:38	WG978287
Potassium	40.0		0.0370	1.00	1	05/03/2017 15:22	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:22	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:38	WG978287
Sodium	2780		2.20	20.0	20	05/03/2017 18:50	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0353	J	0.0314	0.100	1	04/29/2017 02:09	WG974980
(S) a,a,a-Trifluorotoluene(FID) 98.9				77.0-122		04/29/2017 02:09	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 02:33	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 02:33	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 02:33	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 02:33	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 02:33	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 02:33	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 02:33	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 02:33	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 02:33	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 02:33	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 02:33	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 02:33	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 02:33	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 02:33	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 02:33	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 02:33	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 02:33	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 02:33	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 02:33	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 02:33	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 02:33	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 02:33	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 02:33	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 02:33	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 02:33	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 02:33	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 02:33	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 02:33	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 02:33	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 02:33	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 02:33	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 02:33	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 02:33	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 02:33	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 02:33	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 02:33	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 02:33	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 02:33	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 02:33	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 02:33	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 02:33	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 02:33	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 02:33	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 02:33	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 02:33	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 02:33	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 02:33	WG975485
(S) Toluene-d8	103			80.0-120		05/02/2017 02:33	WG975485
(S) Dibromofluoromethane	104			76.0-123		05/02/2017 02:33	WG975485
(S) 4-Bromofluorobenzene	67.5	J2		80.0-120		05/02/2017 02:33	WG975485

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.102		0.0247	0.100	1	05/05/2017 02:31	WG975280
(S) o-Terphenyl	63.8			31.0-160		05/05/2017 02:31	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4210		2.82	10.0	1	05/02/2017 11:45	WG975502

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/02/2017 15:30	WG975586

⁶ Qc

⁷ Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1860		5.19	100	100	05/01/2017 05:32	WG975327
Fluoride	0.743		0.00990	0.100	1	05/01/2017 03:44	WG975327
Sulfate	2160		7.74	500	100	05/01/2017 05:32	WG975327

⁸ Al

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0412		0.000250	0.00200	1	05/03/2017 17:09	WG975080
Arsenic,Dissolved	0.0314		0.000250	0.00200	1	05/10/2017 16:58	WG978287
Barium	0.0155		0.000360	0.00500	1	05/03/2017 17:09	WG975080
Barium,Dissolved	0.0155		0.000360	0.00500	1	05/10/2017 16:58	WG978287
Calcium	503		0.0460	1.00	1	05/03/2017 17:09	WG975080
Chromium	0.000813	J	0.000540	0.00200	1	05/03/2017 17:09	WG975080
Chromium,Dissolved	0.000775	J	0.000540	0.00200	1	05/10/2017 16:58	WG978287
Iron	6.33		0.0150	0.100	1	05/03/2017 17:09	WG975080
Iron,Dissolved	0.0154	J	0.0150	0.100	1	05/10/2017 16:58	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 17:09	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:58	WG978287
Manganese	6.41		0.000250	0.00500	1	05/03/2017 17:09	WG975080
Manganese,Dissolved	6.70		0.000250	0.00500	1	05/10/2017 16:58	WG978287
Potassium	3.73		0.0370	1.00	1	05/03/2017 17:09	WG975080
Selenium	0.000774	J	0.000380	0.00200	1	05/03/2017 17:09	WG975080
Selenium,Dissolved	0.000846	J	0.000380	0.00200	1	05/10/2017 16:58	WG978287
Sodium	1340		1.10	10.0	10	05/03/2017 18:53	WG975080

⁹ Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	4.22		0.0314	0.100	1	04/29/2017 02:33	WG974980
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		04/29/2017 02:33	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 02:50	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 02:50	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 02:50	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 02:50	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 02:50	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 02:50	WG975485
sec-Butylbenzene	0.000401	J	0.000365	0.00100	1	05/02/2017 02:50	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 02:50	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 02:50	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 02:50	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 02:50	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 02:50	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 02:50	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 02:50	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 02:50	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 02:50	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 02:50	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 02:50	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 02:50	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 02:50	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 02:50	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 02:50	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 02:50	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 02:50	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 02:50	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 02:50	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 02:50	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 02:50	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 02:50	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 02:50	WG975485
Methyl tert-butyl ether	0.00654		0.000367	0.00100	1	05/02/2017 02:50	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 02:50	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 02:50	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 02:50	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 02:50	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 02:50	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 02:50	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 02:50	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 02:50	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 02:50	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 02:50	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 02:50	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 02:50	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 02:50	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 02:50	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 02:50	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 02:50	WG975485
(S) Toluene-d8	106			80.0-120		05/02/2017 02:50	WG975485
(S) Dibromofluoromethane	104			76.0-123		05/02/2017 02:50	WG975485
(S) 4-Bromofluorobenzene	111			80.0-120		05/02/2017 02:50	WG975485

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.63		0.0247	0.100	1	05/05/2017 02:49	WG975280
(S) o-Terphenyl	75.7			31.0-160		05/05/2017 02:49	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5190		2.82	10.0	1	05/02/2017 11:45	WG975502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/02/2017 15:31	WG975586

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1330		5.19	100	100	05/01/2017 03:59	WG975327
Fluoride	1.98		0.00990	0.100	1	05/01/2017 06:18	WG975327
Sulfate	2380		7.74	500	100	05/01/2017 03:59	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0228		0.000250	0.00200	1	05/03/2017 17:13	WG975080
Arsenic,Dissolved	0.0172		0.000250	0.00200	1	05/10/2017 17:01	WG978287
Barium	0.0148		0.000360	0.00500	1	05/03/2017 17:13	WG975080
Barium,Dissolved	0.0152		0.000360	0.00500	1	05/10/2017 17:01	WG978287
Calcium	599		0.0460	1.00	1	05/03/2017 17:13	WG975080
Chromium	0.000571	J	0.000540	0.00200	1	05/03/2017 17:13	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 17:01	WG978287
Iron	0.718		0.0150	0.100	1	05/03/2017 17:13	WG975080
Iron,Dissolved	0.0247	J	0.0150	0.100	1	05/10/2017 17:01	WG978287
Lead	0.000272	J	0.000240	0.00200	1	05/03/2017 17:13	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 17:01	WG978287
Manganese	1.10		0.000250	0.00500	1	05/03/2017 17:13	WG975080
Manganese,Dissolved	1.12		0.000250	0.00500	1	05/10/2017 17:01	WG978287
Potassium	4.57		0.0370	1.00	1	05/03/2017 17:13	WG975080
Selenium	0.00386		0.000380	0.00200	1	05/03/2017 17:13	WG975080
Selenium,Dissolved	0.00293		0.000380	0.00200	1	05/10/2017 17:01	WG978287
Sodium	876		0.550	5.00	5	05/03/2017 19:35	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.263		0.0314	0.100	1	04/29/2017 02:57	WG974980
(S) a,a,a-Trifluorotoluene(FID) 99.2				77.0-122		04/29/2017 02:57	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 03:07	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 03:07	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 03:07	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 03:07	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 03:07	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 03:07	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 03:07	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 03:07	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 03:07	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 03:07	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 03:07	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 03:07	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 03:07	WG975485
Chloromethane	U	<u>J4</u>	0.000276	0.00250	1	05/02/2017 03:07	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 03:07	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 03:07	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 03:07	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 03:07	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 03:07	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 03:07	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 03:07	WG975485
cis-1,3-Dichloropropene	U	<u>J4</u>	0.000418	0.00100	1	05/02/2017 03:07	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 03:07	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 03:07	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 03:07	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 03:07	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 03:07	WG975485
2-Hexanone	U	<u>J3 J4</u>	0.00382	0.0100	1	05/02/2017 03:07	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 03:07	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 03:07	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 03:07	WG975485
Naphthalene	U	<u>J4</u>	0.00100	0.00500	1	05/02/2017 03:07	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 03:07	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 03:07	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 03:07	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 03:07	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 03:07	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 03:07	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 03:07	WG975485
1,1,2-Trichloroethane	U	<u>J4</u>	0.000383	0.00100	1	05/02/2017 03:07	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 03:07	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 03:07	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 03:07	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 03:07	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 03:07	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 03:07	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 03:07	WG975485
(S) Toluene-d8	105			80.0-120		05/02/2017 03:07	WG975485
(S) Dibromofluoromethane	104			76.0-123		05/02/2017 03:07	WG975485
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 03:07	WG975485

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.74		0.0247	0.100	1	05/05/2017 03:06	WG975280
(S) o-Terphenyl	71.8			31.0-160		05/05/2017 03:06	WG975280



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	U		2.82	10.0	1	05/02/2017 11:45	WG975502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/02/2017 15:36	WG975586

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.359	<u>J P1</u>	0.0519	1.00	1	05/01/2017 04:14	WG975327
Fluoride	U		0.00990	0.100	1	05/01/2017 04:14	WG975327
Sulfate	0.143	<u>J P1</u>	0.0774	5.00	1	05/01/2017 04:14	WG975327

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000250	0.00200	1	05/03/2017 17:16	WG975080
Arsenic,Dissolved	U		0.000250	0.00200	1	05/10/2017 17:05	WG978287
Barium	U		0.000360	0.00500	1	05/03/2017 17:16	WG975080
Barium,Dissolved	U		0.000360	0.00500	1	05/10/2017 17:05	WG978287
Calcium	0.267	<u>J</u>	0.0460	1.00	1	05/03/2017 17:16	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 17:16	WG975080
Chromium,Dissolved	0.00246		0.000540	0.00200	1	05/10/2017 17:05	WG978287
Iron	U		0.0150	0.100	1	05/03/2017 17:16	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 17:05	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 17:16	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 17:05	WG978287
Manganese	0.00316	<u>J</u>	0.000250	0.00500	1	05/03/2017 17:16	WG975080
Manganese,Dissolved	0.000926	<u>B J</u>	0.000250	0.00500	1	05/10/2017 17:05	WG978287
Potassium	U		0.0370	1.00	1	05/03/2017 17:16	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 17:16	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 17:05	WG978287
Sodium	0.591	<u>J</u>	0.110	1.00	1	05/03/2017 17:16	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 03:21	WG974980
(S) a,a,a-Trifluorotoluene(FID) 99.3				77.0-122		04/29/2017 03:21	WG974980

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 03:24	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 03:24	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 03:24	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 03:24	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 03:24	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 03:24	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 03:24	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 03:24	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 03:24	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 03:24	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 03:24	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 03:24	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 03:24	WG975485
Chloromethane	U	<u>J4</u>	0.000276	0.00250	1	05/02/2017 03:24	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 03:24	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 03:24	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 03:24	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 03:24	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 03:24	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 03:24	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 03:24	WG975485
cis-1,3-Dichloropropene	U	<u>J4</u>	0.000418	0.00100	1	05/02/2017 03:24	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 03:24	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 03:24	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 03:24	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 03:24	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 03:24	WG975485
2-Hexanone	U	<u>J3 J4</u>	0.00382	0.0100	1	05/02/2017 03:24	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 03:24	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 03:24	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 03:24	WG975485
Naphthalene	U	<u>J4</u>	0.00100	0.00500	1	05/02/2017 03:24	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 03:24	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 03:24	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 03:24	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 03:24	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 03:24	WG975485
Toluene	0.000496	<u>J</u>	0.000412	0.00100	1	05/02/2017 03:24	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 03:24	WG975485
1,1,2-Trichloroethane	U	<u>J4</u>	0.000383	0.00100	1	05/02/2017 03:24	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 03:24	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 03:24	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 03:24	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 03:24	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 03:24	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 03:24	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 03:24	WG975485
(S) Toluene-d8	104			80.0-120		05/02/2017 03:24	WG975485
(S) Dibromofluoromethane	105			76.0-123		05/02/2017 03:24	WG975485
(S) 4-Bromofluorobenzene	94.7			80.0-120		05/02/2017 03:24	WG975485

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/05/2017 12:01	WG975280
(S) o-Terphenyl	62.4			31.0-160		05/05/2017 12:01	WG975280



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 22:04	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 22:04	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 22:04	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 22:04	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 22:04	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 22:04	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 22:04	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 22:04	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 22:04	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 22:04	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 22:04	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 22:04	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 22:04	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/01/2017 22:04	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 22:04	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 22:04	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 22:04	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 22:04	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 22:04	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 22:04	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 22:04	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/01/2017 22:04	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 22:04	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 22:04	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 22:04	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 22:04	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 22:04	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/01/2017 22:04	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 22:04	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 22:04	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 22:04	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/01/2017 22:04	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 22:04	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 22:04	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 22:04	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 22:04	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 22:04	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 22:04	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 22:04	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/01/2017 22:04	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 22:04	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 22:04	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 22:04	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 22:04	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 22:04	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 22:04	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 22:04	WG975485
(S) Toluene-d8	103			80.0-120		05/01/2017 22:04	WG975485
(S) Dibromofluoromethane	103			76.0-123		05/01/2017 22:04	WG975485
(S) 4-Bromofluorobenzene	96.6			80.0-120		05/01/2017 22:04	WG975485

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215024-1 04/30/17 11:17

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905562-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-03 04/30/17 11:17 • (DUP) R3215024-4 04/30/17 11:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4290	4470	1	4.23		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215024-2 04/30/17 11:17 • (LCSD) R3215024-3 04/30/17 11:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8610	8630	97.8	98.1	85.0-115		0.232	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214776-1 04/29/17 14:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	2.82	10.0	

L905562-13 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-13 04/29/17 14:25 • (DUP) R3214776-4 04/29/17 14:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	8460	8440	1	0.237		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214776-2 04/29/17 14:25 • (LCSD) R3214776-3 04/29/17 14:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8700	8750	98.9	99.4	85.0-115		0.573	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214781-1 04/29/17 14:56

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	2.82	10.0	

L905562-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-23 04/29/17 14:56 • (DUP) R3214781-4 04/29/17 14:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Dissolved Solids	3690	3680	1	0.271		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214781-2 04/29/17 14:56 • (LCSD) R3214781-3 04/29/17 14:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Dissolved Solids	8800	8740	8690	99.3	98.8	85.0-115		0.574		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215295-1 05/01/17 17:17

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905562-25 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-25 05/01/17 17:17 • (DUP) R3215295-4 05/01/17 17:17

Analyte	Original Result mg/l	DUP Result mg/l	<u>DUP Qualifier</u>	DUP RPD %	DUP RPD Limits %
Dissolved Solids	2640	2690	1	1.88	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215295-2 05/01/17 17:17 • (LCSD) R3215295-3 05/01/17 17:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Dissolved Solids	8800	8450	8610	96.0	97.8	85.0-115	1.88	1.88	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215801-1 05/02/17 11:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RD L mg/l
Dissolved Solids	U	2.82	10.0	

L905562-33 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-33 05/02/17 11:45 • (DUP) R3215801-4 05/02/17 11:45

Analyte	Original Result mg/l	DUP Result mg/l	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4210	4050	1	3.87	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215801-2 05/02/17 11:45 • (LCSD) R3215801-3 05/02/17 11:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8380	8470	95.2	96.3	85.0-115	1.07		5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215034-1 05/02/17 13:10

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RD L mg/l
Nitrate-Nitrite	U	0.0197	0.100	

L905491-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905491-02 05/02/17 13:17 • (DUP) R3215034-6 05/02/17 13:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Nitrate-Nitrite	0.127	0.0930	1	31	P1	20

L905491-04 Original Sample (OS) • Duplicate (DUP)

(OS) L905491-04 05/02/17 13:25 • (DUP) R3215034-8 05/02/17 13:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Nitrate-Nitrite	0.190	0.155	1	20		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215034-2 05/02/17 13:11 • (LCSD) R3215034-3 05/02/17 13:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	5.17	5.09	103	102	90-110			1	20

L905491-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905491-01 05/02/17 13:13 • (MS) R3215034-4 05/02/17 13:14 • (MSD) R3215034-5 05/02/17 13:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	ND	4.84	4.99	96	99	1	90-110		3		20

L905491-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L905491-03 05/02/17 13:23 • (MS) R3215034-7 05/02/17 13:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Nitrate-Nitrite	5.00	0.269	4.97	94	1	90-110	



Method Blank (MB)

(MB) R3215037-1 05/02/17 14:59

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U	0.0197	0.100	0.100

L905562-21 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-21 05/02/17 15:06 • (DUP) R3215037-4 05/02/17 15:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Nitrate-Nitrite	0.0540	0.0390	1	32	<u>J P1</u>	20

L905562-29 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-29 05/02/17 15:25 • (DUP) R3215037-6 05/02/17 15:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Nitrate-Nitrite	0.0390	0.0230	1	52	<u>J P1</u>	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215037-2 05/02/17 15:00 • (LCSD) R3215037-3 05/02/17 15:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	5.06	5.02	101	100	90-110			1	20

L905562-23 Original Sample (OS) • Matrix Spike (MS)

(OS) L905562-23 05/02/17 15:13 • (MS) R3215037-5 05/02/17 15:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %
Nitrate-Nitrite	5.00	U	4.78	96	1	90-110	

L905562-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-35 05/02/17 15:36 • (MS) R3215037-7 05/02/17 15:38 • (MSD) R3215037-8 05/02/17 15:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	U	4.88	4.91	98	98	1	90-110			1	20



Method Blank (MB)

(MB) R3214772-1 05/01/17 05:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905443-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905443-02 05/01/17 10:38 • (DUP) R3214772-5 05/01/17 10:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	10.0	9.83	1	2		15
Fluoride	0.308	0.302	1	2		15
Sulfate	19.2	19.2	1	0		15

L905443-06 Original Sample (OS) • Duplicate (DUP)

(OS) L905443-06 05/01/17 12:47 • (DUP) R3214772-8 05/01/17 12:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.46	3.45	1	0		15
Fluoride	0.209	0.208	1	0		15
Sulfate	6.56	6.52	1	1		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214772-2 05/01/17 05:55 • (LCSD) R3214772-3 05/01/17 06:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	39.4	39.5	99	99	80-120			0	15
Fluoride	8.00	7.94	7.93	99	99	80-120			0	15
Sulfate	40.0	38.4	38.3	96	96	80-120			0	15

L905003-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L905003-01 05/01/17 09:17 • (MS) R3214772-4 05/01/17 09:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	8.42	59.3	102	1	80-120	
Fluoride	5.00	0.591	5.43	97	1	80-120	

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

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SDG:

L905562

DATE/TIME:

05/11/17 15:27

PAGE:

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L905003-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L905003-01 05/01/17 09:17 • (MS) R3214772-4 05/01/17 09:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50.0	22.8	71.0	96	1	80-120	

L905443-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905443-07 05/01/17 11:48 • (MS) R3214772-6 05/01/17 12:00 • (MSD) R3214772-7 05/01/17 12:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.98	52.2	52.7	101	102	1	80-120			1	15
Fluoride	5.00	ND	5.14	4.92	101	96	1	80-120			4	15
Sulfate	50.0	17.3	66.3	66.4	98	98	1	80-120			0	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3214888-1 05/01/17 12:42

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RD L mg/l
Chloride	U	0.0519	1.00	
Fluoride	U	0.0099	0.100	
Sulfate	U	0.0774	5.00	

L905562-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-08 05/01/17 16:54 • (DUP) R3214888-5 05/01/17 17:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Fluoride	0.632	0.642	1	2		15

L905562-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-08 05/01/17 17:56 • (DUP) R3214888-6 05/01/17 18:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	2090	2050	100	2		15
Sulfate	2530	2460	100	3		15

L905562-18 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-18 05/01/17 23:04 • (DUP) R3214888-7 05/01/17 23:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Fluoride	3.59	3.57	1	0		15

L905562-18 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-18 05/02/17 00:21 • (DUP) R3214888-8 05/02/17 00:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	2530	2540	100	1		15
Sulfate	2640	2700	100	2		15



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214888-2 05/01/17 12:58 • (LCSD) R3214888-3 05/01/17 13:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40.0	39.4	39.4	99	99	80-120			0	15
Fluoride	8.00	7.98	7.96	100	99	80-120			0	15
Sulfate	40.0	40.0	40.0	100	100	80-120			0	15

L905562-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L905562-06 05/01/17 14:50 • (MS) R3214888-4 05/01/17 15:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Fluoride	5.00	1.94	6.33	88	1	80-120	

L905562-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-21 05/02/17 01:54 • (MS) R3214888-9 05/02/17 02:09 • (MSD) R3214888-10 05/02/17 02:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Fluoride	5.00	1.22	5.94	5.92	94	94	1	80-120			0	15



Method Blank (MB)

(MB) R3214715-1 04/30/17 20:23

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905562-35 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-35 05/01/17 04:14 • (DUP) R3214715-5 05/01/17 04:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Chloride	0.359	0.288	1	22	<u>J P1</u>	15
Fluoride	U	0.000	1	0		15
Sulfate	0.143	0.000	1	200	<u>P1</u>	15

L905602-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-10 05/01/17 11:41 • (DUP) R3214715-8 05/01/17 11:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Fluoride	3.97	3.99	1	0		15

L905602-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-10 05/01/17 12:12 • (DUP) R3214715-9 05/01/17 12:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Chloride	394	371	50	6		15
Sulfate	2170	2230	50	3		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214715-2 04/30/17 20:38 • (LCSD) R3214715-3 04/30/17 20:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40.0	39.5	39.5	99	99	80-120			0	15
Fluoride	8.00	7.93	7.92	99	99	80-120			0	15
Sulfate	40.0	39.7	39.7	99	99	80-120			0	15



L905562-25 Original Sample (OS) • Matrix Spike (MS)

(OS) L905562-25 04/30/17 22:36 • (MS) R3214715-4 04/30/17 22:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	1.58	6.42	97	1	80-120	

L905562-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-35 05/01/17 04:14 • (MS) R3214715-6 05/01/17 04:45 • (MSD) R3214715-7 05/01/17 05:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	0.359	51.6	51.3	102	102	1	80-120			1	15
Fluoride	5.00	U	5.24	5.19	105	104	1	80-120			1	15
Sulfate	50.0	0.143	51.8	51.5	103	103	1	80-120			0	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215504-1 05/03/17 12:01

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Chloride	U	0.0519	1.00	

L905668-36 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-36 05/03/17 17:10 • (DUP) R3215504-7 05/03/17 17:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	328	323	50	2		15

L905668-44 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-44 05/04/17 00:46 • (DUP) R3215504-10 05/04/17 01:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	398	387	50	3		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215504-2 05/03/17 12:17 • (LCSD) R3215504-3 05/03/17 12:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Chloride	40.0	38.8	40.3	97	101	80-120		4		15

L905345-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905345-06 05/03/17 13:49 • (MS) R3215504-4 05/03/17 14:05 • (MSD) R3215504-5 05/03/17 14:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD %	RPD Limits %
Chloride	50.0	56.4	106	106	99	99	1	80-120	<u>E</u>	<u>E</u>	0	15



Method Blank (MB)

(MB) R3215417-1 05/03/17 20:41

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215417-2 05/03/17 20:44 • (LCSD) R3215417-3 05/03/17 20:48

Analyte	Spike Amount mg/l		LCS Result mg/l		LCSD Result mg/l		LCS Rec. %		LCSD Rec. %		Rec. Limits %		<u>LCS Qualifier</u>		<u>LCSD Qualifier</u>		RPD		RPD Limits %	
Arsenic,Dissolved	0.0500		0.0474		0.0478		95		96		80-120						1		20	
Barium,Dissolved	0.0500		0.0482		0.0473		96		95		80-120						2		20	
Chromium,Dissolved	0.0500		0.0472		0.0483		94		97		80-120						2		20	
Iron,Dissolved	5.00		4.74		4.75		95		95		80-120						0		20	
Lead,Dissolved	0.0500		0.0485		0.0473		97		95		80-120						3		20	
Manganese,Dissolved	0.0500		0.0461		0.0470		92		94		80-120						2		20	
Selenium,Dissolved	0.0500		0.0475		0.0456		95		91		80-120						4		20	

L905562-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-07 05/03/17 20:51 • (MS) R3215417-5 05/03/17 20:58 • (MSD) R3215417-6 05/03/17 21:02

Analyte	Spike Amount mg/l		Original Result mg/l		MS Result mg/l		MSD Result mg/l		MS Rec. %		MSD Rec. %		Dilution	Rec. Limits %		<u>MS Qualifier</u>		RPD		RPD Limits %	
Arsenic,Dissolved	0.0500		0.00761		0.0552		0.0541		95		93		1	75-125				2		20	
Barium,Dissolved	0.0500		0.0104		0.0592		0.0570		98		93		1	75-125				4		20	
Chromium,Dissolved	0.0500		U		0.0472		0.0459		94		92		1	75-125				3		20	
Iron,Dissolved	5.00		U		4.70		4.66		94		93		1	75-125				1		20	
Lead,Dissolved	0.0500		U		0.0489		0.0487		98		97		1	75-125				0		20	
Manganese,Dissolved	0.0500		0.901		0.931		0.926		60		49		1	75-125		<u>V</u>		1		20	
Selenium,Dissolved	0.0500		0.000412		0.0516		0.0506		102		100		1	75-125				2		20	



Method Blank (MB)

(MB) R3215155-1 05/03/17 02:28

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	0.000372	J	0.00036	0.00500
Calcium	U		0.046	1.00
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

Method Blank (MB)

(MB) R3215355-1 05/03/17 15:03

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Chromium	U		0.00054	0.00200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215155-2 05/03/17 02:32 • (LCSD) R3215155-3 05/03/17 02:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	0.0492	0.0485	98	97	80-120			2	20
Barium	0.0500	0.0515	0.0510	103	102	80-120			1	20
Calcium	5.00	4.92	4.81	98	96	80-120			2	20
Iron	5.00	4.81	4.76	96	95	80-120			1	20
Lead	0.0500	0.0512	0.0504	102	101	80-120			1	20
Manganese	0.0500	0.0480	0.0471	96	94	80-120			2	20
Potassium	5.00	4.99	4.90	100	98	80-120			2	20
Selenium	0.0500	0.0463	0.0458	93	92	80-120			1	20
Sodium	5.00	5.16	5.03	103	101	80-120			2	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215355-2 05/03/17 15:07 • (LCSD) R3215355-3 05/03/17 15:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chromium	0.0500	0.0502	0.0483	100	97	80-120			4	20



L905562-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-19 05/03/17 02:39 • (MS) R3215155-5 05/03/17 02:46 • (MSD) R3215155-6 05/03/17 02:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00521	0.0531	0.0541	96	98	1	75-125			2	20
Barium	0.0500	0.0166	0.0662	0.0677	99	102	1	75-125			2	20
Calcium	5.00	527	527	517	0	0	1	75-125	<u>V</u>	<u>V</u>	2	20
Potassium	5.00	7.58	12.3	12.2	94	92	1	75-125			1	20
Iron	5.00	0.150	4.57	4.66	88	90	1	75-125			2	20
Lead	0.0500	U	0.0503	0.0523	101	105	1	75-125			4	20
Manganese	0.0500	1.11	1.15	1.14	67	45	1	75-125	<u>V</u>	<u>V</u>	1	20
Selenium	0.0500	0.000569	0.0495	0.0501	98	99	1	75-125			1	20

L905562-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-19 05/03/17 15:15 • (MS) R3215355-5 05/03/17 15:22 • (MSD) R3215355-6 05/03/17 15:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	0.0500	U	0.0451	0.0449	90	90	1	75-125			0	20
Sodium	5.00	987	1010	1010	382	411	1	75-125	<u>E.V</u>	<u>E.V</u>	0	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215401-7 05/03/17 14:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	0.0648	J	0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215401-8 05/03/17 14:12 • (LCSD) R3215401-9 05/03/17 14:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0487	0.0484	97	97	80-120			1	20
Barium	0.0500	0.0479	0.0479	96	96	80-120			0	20
Calcium	5.00	5.03	5.00	101	100	80-120			1	20
Chromium	0.0500	0.0497	0.0487	99	97	80-120			2	20
Iron	5.00	4.98	4.92	100	98	80-120			1	20
Lead	0.0500	0.0493	0.0489	99	98	80-120			1	20
Manganese	0.0500	0.0488	0.0481	98	96	80-120			1	20
Potassium	5.00	5.10	4.96	102	99	80-120			3	20
Selenium	0.0500	0.0507	0.0492	101	98	80-120			3	20
Sodium	5.00	5.04	4.97	101	99	80-120			1	20

L905562-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-21 05/03/17 14:19 • (MS) R3215401-11 05/03/17 14:26 • (MSD) R3215401-12 05/03/17 14:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0231	0.0704	0.0686	95	91	1	75-125		3	20
Barium	0.0500	0.0213	0.0701	0.0703	98	98	1	75-125		0	20
Calcium	5.00	514	495	509	0	0	1	75-125	V	3	20
Chromium	0.0500	U	0.0476	0.0473	95	95	1	75-125		1	20
Potassium	5.00	3.72	8.13	8.41	88	94	1	75-125		3	20
Iron	5.00	0.0684	4.74	4.76	93	94	1	75-125		0	20
Lead	0.0500	U	0.0476	0.0483	95	97	1	75-125		1	20

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545.0000.0000 000

SDG:

L905562

DATE/TIME:

05/11/17 15:27

PAGE:

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L905562-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-21 05/03/17 14:19 • (MS) R3215401-11 05/03/17 14:26 • (MSD) R3215401-12 05/03/17 14:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Manganese	0.0500	2.59	2.63	2.63	81	89	1	75-125			0	20
Selenium	0.0500	0.000395	0.0495	0.0507	98	101	1	75-125			2	20
Sodium	5.00	1140	1100	1120	0	0	1	75-125	<u>EV</u>	<u>EV</u>	2	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3217063-1 05/10/17 15:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.000347	J	0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3217063-2 05/10/17 15:29 • (LCSD) R3217063-3 05/10/17 15:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0485	0.0493	97	99	80-120			2	20
Barium,Dissolved	0.0500	0.0505	0.0500	101	100	80-120			1	20
Chromium,Dissolved	0.0500	0.0500	0.0498	100	100	80-120			0	20
Iron,Dissolved	5.00	4.95	4.98	99	100	80-120			1	20
Lead,Dissolved	0.0500	0.0498	0.0497	100	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0502	0.0495	100	99	80-120			1	20
Selenium,Dissolved	0.0500	0.0529	0.0510	106	102	80-120			4	20

L906804-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906804-01 05/10/17 15:36 • (MS) R3217063-5 05/10/17 15:43 • (MSD) R3217063-6 05/10/17 15:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	U	0.0467	0.0473	93	95	1	75-125		1	20
Barium,Dissolved	0.0500	0.0145	0.0653	0.0650	102	101	1	75-125		1	20
Chromium,Dissolved	0.0500	U	0.0460	0.0463	92	93	1	75-125		1	20
Iron,Dissolved	5.00	U	4.68	4.67	94	93	1	75-125		0	20
Lead,Dissolved	0.0500	U	0.0485	0.0485	97	97	1	75-125		0	20
Manganese,Dissolved	0.0500	0.000320	0.0462	0.0466	92	93	1	75-125		1	20
Selenium,Dissolved	0.0500	0.00113	0.0527	0.0504	103	99	1	75-125		4	20



Method Blank (MB)

(MB) R3216154-3 04/29/17 01:19

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.100	
(S) <i>α,α,α</i> -Trifluorotoluene(FID)	95.0		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216154-1 04/29/17 00:12 • (LCSD) R3216154-2 04/29/17 00:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.08	4.75	92.3	86.3	71.0-136			6.71	20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)		104		104	104	77.0-122				

L905562-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-01 04/29/17 02:25 • (MS) R3216154-4 04/29/17 01:41 • (MSD) R3216154-5 04/29/17 02:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	1.02	2.70	2.73	30.6	31.1	1	18.0-160		1.06		20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)				97.0	97.0	97.6		77.0-122				



Method Blank (MB)

(MB) R3215633-3 04/28/17 17:49

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.0314	0.100
(S) <i>o,o,a</i> -Trifluorotoluene(FID)	99.0			77.0-122

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215633-1 04/28/17 16:38 • (LCSD) R3215633-2 04/28/17 17:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.13	5.06	93.3	91.9	71.0-136			1.45	20
(S) <i>o,o,a</i> -Trifluorotoluene(FID)				99.7	100	77.0-122				

L905459-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905459-01 04/28/17 19:45 • (MS) R3215633-4 04/28/17 18:33 • (MSD) R3215633-5 04/28/17 18:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	2.48	2.54	45.2	46.2	1	18.0-160		2.21		20
(S) <i>o,o,a</i> -Trifluorotoluene(FID)					99.0	98.5		77.0-122				



Method Blank (MB)

(MB) R3216088-3 04/30/17 19:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3216088-3 04/30/17 19:54

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	106		80.0-120	
(S) Dibromofluoromethane	112		76.0-123	
(S) 4-Bromofluorobenzene	93.0		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216088-1 04/30/17 18:36 • (LCSD) R3216088-2 04/30/17 19:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.155	0.125	124	99.6	10.0-160			21.6	23
Benzene	0.0250	0.0243	0.0243	97.0	97.2	69.0-123			0.210	20
Bromodichloromethane	0.0250	0.0252	0.0243	101	97.0	76.0-120			3.80	20
Bromoform	0.0250	0.0250	0.0234	100	93.6	67.0-132			6.75	20
Bromomethane	0.0250	0.0311	0.0351	124	141	18.0-160			12.4	20
n-Butylbenzene	0.0250	0.0248	0.0232	99.2	92.9	72.0-126			6.56	20
sec-Butylbenzene	0.0250	0.0242	0.0228	96.7	91.4	74.0-121			5.68	20
Carbon disulfide	0.0250	0.0234	0.0240	93.7	96.1	55.0-127			2.50	20
Carbon tetrachloride	0.0250	0.0259	0.0256	103	102	63.0-122			1.02	20
Chlorobenzene	0.0250	0.0224	0.0211	89.4	84.5	79.0-121			5.65	20
Chlorodibromomethane	0.0250	0.0230	0.0216	91.8	86.4	75.0-125			6.08	20
Chloroethane	0.0250	0.0322	0.0330	129	132	47.0-152			2.41	20
Chloroform	0.0250	0.0240	0.0237	95.9	95.0	72.0-121			0.970	20
Chloromethane	0.0250	0.0262	0.0259	105	104	48.0-139			0.970	20
1,2-Dibromoethane	0.0250	0.0227	0.0217	90.9	87.0	77.0-123			4.38	20
1,1-Dichloroethane	0.0250	0.0244	0.0238	97.8	95.3	70.0-126			2.53	20
1,2-Dichloroethane	0.0250	0.0236	0.0227	94.4	90.9	67.0-126			3.79	20
1,1-Dichloroethene	0.0250	0.0233	0.0239	93.1	95.7	64.0-129			2.80	20
cis-1,2-Dichloroethene	0.0250	0.0237	0.0239	94.9	95.4	73.0-120			0.530	20
trans-1,2-Dichloroethene	0.0250	0.0277	0.0235	111	94.0	71.0-121			16.3	20
1,2-Dichloropropane	0.0250	0.0231	0.0228	92.6	91.3	75.0-125			1.36	20
cis-1,3-Dichloropropene	0.0250	0.0237	0.0227	94.9	90.6	79.0-123			4.63	20
trans-1,3-Dichloropropene	0.0250	0.0227	0.0216	90.7	86.6	74.0-127			4.66	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216088-1 04/30/17 18:36 • (LCSD) R3216088-2 04/30/17 19:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
							%		%		%	
Ethylbenzene	0.0250	0.0221	0.0214	88.3	85.4	77.0-120					3.29	
2-Hexanone	0.125	0.114	0.101	91.6	81.2	58.0-147					12.0	
Isopropylbenzene	0.0250	0.0230	0.0220	92.0	88.0	75.0-120					4.39	
p-Isopropyltoluene	0.0250	0.0241	0.0230	96.4	91.9	74.0-126					4.83	
2-Butanone (MEK)	0.125	0.132	0.132	106	105	37.0-158					0.0900	
Methylene Chloride	0.0250	0.0301	0.0274	121	110	66.0-121					9.34	
4-Methyl-2-pentanone (MIBK)	0.125	0.123	0.117	98.0	93.3	59.0-143					4.90	
Methyl tert-butyl ether	0.0250	0.0280	0.0231	112	92.5	64.0-123					18.9	
Naphthalene	0.0250	0.0214	0.0203	85.6	81.2	62.0-128					5.26	
n-Propylbenzene	0.0250	0.0235	0.0226	94.0	90.3	79.0-120					4.03	
Styrene	0.0250	0.0213	0.0202	85.2	80.8	78.0-124					5.24	
1,1,1,2-Tetrachloroethane	0.0250	0.0233	0.0222	93.0	88.8	75.0-122					4.62	
1,1,2,2-Tetrachloroethane	0.0250	0.0242	0.0224	96.7	89.7	71.0-122					7.52	
Tetrachloroethene	0.0250	0.0223	0.0217	89.3	86.7	70.0-127					2.98	
Toluene	0.0250	0.0229	0.0225	91.6	89.8	77.0-120					1.94	
1,1,1-Trichloroethane	0.0250	0.0250	0.0248	100	99.4	68.0-122					0.760	
1,1,2-Trichloroethane	0.0250	0.0225	0.0209	90.2	83.8	78.0-120					7.39	
Trichloroethene	0.0250	0.0238	0.0236	95.0	94.4	78.0-120					0.680	
1,2,4-Trimethylbenzene	0.0250	0.0226	0.0214	90.4	85.6	75.0-120					5.46	
1,3,5-Trimethylbenzene	0.0250	0.0232	0.0220	92.6	88.0	75.0-120					5.11	
Vinyl chloride	0.0250	0.0285	0.0291	114	116	64.0-133					2.03	
Xylenes, Total	0.0750	0.0669	0.0639	89.2	85.2	77.0-120					4.59	
o-Xylene	0.0250	0.0223	0.0213	89.4	85.1	78.0-120					4.83	
m&p-Xylenes	0.0500	0.0446	0.0426	89.3	85.3	77.0-120					4.57	
(S) Toluene-d8				104	104	80.0-120						
(S) Dibromofluoromethane				106	109	76.0-123						
(S) 4-Bromofluorobenzene				96.3	96.3	80.0-120						



Method Blank (MB)

(MB) R3216097-3 05/01/17 21:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Tetrachloroethene	U		0.000372	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
Toluene	U		0.000412	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
Trichloroethene	U		0.000398	0.00100



Method Blank (MB)

(MB) R3216097-3 05/01/17 21:47

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	103		80.0-120	
(S) Dibromofluoromethane	102		76.0-123	
(S) 4-Bromofluorobenzene	98.0		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216097-1 05/01/17 20:43 • (LCSD) R3216097-2 05/01/17 21:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.102	0.107	81.5	85.3	10.0-160			4.61	23
Benzene	0.0250	0.0229	0.0204	91.4	81.5	69.0-123			11.5	20
Bromodichloromethane	0.0250	0.0238	0.0210	95.1	84.2	76.0-120			12.2	20
Bromoform	0.0250	0.0211	0.0190	84.3	76.1	67.0-132			10.3	20
Bromomethane	0.0250	0.0213	0.0222	85.2	89.0	18.0-160			4.29	20
n-Butylbenzene	0.0250	0.0215	0.0197	85.8	78.8	72.0-126			8.54	20
sec-Butylbenzene	0.0250	0.0220	0.0202	87.9	81.0	74.0-121			8.20	20
Carbon disulfide	0.0250	0.0256	0.0224	103	89.8	55.0-127			13.3	20
Carbon tetrachloride	0.0250	0.0193	0.0190	77.2	76.1	63.0-122			1.53	20
Chlorobenzene	0.0250	0.0231	0.0214	92.4	85.6	79.0-121			7.72	20
Chlorodibromomethane	0.0250	0.0209	0.0196	83.6	78.4	75.0-125			6.39	20
Chloroethane	0.0250	0.0204	0.0196	81.6	78.3	47.0-152			4.09	20
Chloroform	0.0250	0.0242	0.0217	96.6	86.7	72.0-121			10.9	20
Chloromethane	0.0250	0.0353	0.0304	141	122	48.0-139	<u>J4</u>		15.0	20
1,2-Dibromoethane	0.0250	0.0222	0.0196	88.8	78.6	77.0-123			12.2	20
1,1-Dichloroethane	0.0250	0.0233	0.0204	93.4	81.6	70.0-126			13.4	20
1,2-Dichloroethane	0.0250	0.0246	0.0218	98.3	87.1	67.0-126			12.1	20
1,1-Dichloroethene	0.0250	0.0255	0.0209	102	83.8	64.0-129			19.5	20
cis-1,2-Dichloroethene	0.0250	0.0235	0.0199	94.1	79.5	73.0-120			16.8	20
trans-1,2-Dichloroethene	0.0250	0.0229	0.0207	91.6	82.8	71.0-121			10.1	20
1,2-Dichloropropane	0.0250	0.0233	0.0207	93.1	82.7	75.0-125			11.8	20
cis-1,3-Dichloropropene	0.0250	0.0218	0.0194	87.1	77.7	79.0-123	<u>J4</u>		11.5	20
trans-1,3-Dichloropropene	0.0250	0.0213	0.0190	85.4	76.0	74.0-127			11.6	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216097-1 05/01/17 20:43 • (LCSD) R3216097-2 05/01/17 21:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
							%		%		%	
Ethylbenzene	0.0250	0.0234	0.0208	93.6	83.1	77.0-120					11.9	
2-Hexanone	0.125	0.0982	ND	78.6	0.000	58.0-147			<u>J3 J4</u>		200	
Isopropylbenzene	0.0250	0.0233	0.0214	93.1	85.5	75.0-120					8.54	
p-Isopropyltoluene	0.0250	0.0217	0.0204	86.9	81.4	74.0-126					6.43	
2-Butanone (MEK)	0.125	0.0801	0.0720	64.1	57.6	37.0-158					10.7	
Methylene Chloride	0.0250	0.0224	0.0201	89.8	80.2	66.0-121					11.2	
4-Methyl-2-pentanone (MIBK)	0.125	0.107	0.0880	85.6	70.4	59.0-143					19.5	
Methyl tert-butyl ether	0.0250	0.0215	0.0189	85.8	75.6	64.0-123					12.7	
Naphthalene	0.0250	0.0172	0.0146	68.9	58.4	62.0-128			<u>J4</u>		16.5	
n-Propylbenzene	0.0250	0.0232	0.0210	92.7	84.2	79.0-120					9.64	
Styrene	0.0250	0.0226	0.0201	90.4	80.3	78.0-124					11.8	
1,1,1,2-Tetrachloroethane	0.0250	0.0215	0.0202	86.1	81.0	75.0-122					6.15	
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0190	88.1	75.8	71.0-122					15.0	
Tetrachloroethene	0.0250	0.0263	0.0226	105	90.6	70.0-127					14.8	
Toluene	0.0250	0.0248	0.0214	99.0	85.7	77.0-120					14.4	
1,1,1-Trichloroethane	0.0250	0.0261	0.0222	104	89.0	68.0-122					15.8	
1,1,2-Trichloroethane	0.0250	0.0219	0.0194	87.6	77.6	78.0-120			<u>J4</u>		12.1	
Trichloroethene	0.0250	0.0259	0.0226	104	90.3	78.0-120					13.7	
1,2,4-Trimethylbenzene	0.0250	0.0219	0.0201	87.8	80.6	75.0-120					8.57	
1,3,5-Trimethylbenzene	0.0250	0.0225	0.0204	89.9	81.8	75.0-120					9.40	
Vinyl chloride	0.0250	0.0248	0.0207	99.3	82.7	64.0-133					18.3	
Xylenes, Total	0.0750	0.0680	0.0617	90.7	82.3	77.0-120					9.71	
o-Xylene	0.0250	0.0223	0.0205	89.1	81.9	78.0-120					8.40	
m&p-Xylenes	0.0500	0.0457	0.0412	91.5	82.3	77.0-120					10.6	
(S) Toluene-d8				103	101	80.0-120						
(S) Dibromofluoromethane				98.9	99.3	76.0-123						
(S) 4-Bromofluorobenzene				100	101	80.0-120						



Method Blank (MB)

(MB) R3215343-1 05/02/17 12:32

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U	0.0247	0.100	
(S) o-Terphenyl	62.6		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215343-2 05/02/17 12:50 • (LCSD) R3215343-3 05/02/17 13:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.74	1.69	116	113	50.0-150			2.80	20
(S) o-Terphenyl				68.2	66.4	31.0-160				

L905440-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905440-05 05/03/17 16:50 • (MS) R3215528-1 05/03/17 17:08 • (MSD) R3215528-2 05/03/17 17:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	0.625	2.22	2.23	106	107	1	50.0-150		0.730		20
(S) o-Terphenyl					66.5	65.5		31.0-160				



Method Blank (MB)

(MB) R3215853-1 05/04/17 12:29

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
TPH (GC/FID) High Fraction	U	0.0247	0.100	
(S) o-Terphenyl	64.8		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215853-2 05/04/17 12:46 • (LCSD) R3215853-3 05/04/17 13:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.71	1.68	114	112	50.0-150		152		20
(S) o-Terphenyl				68.4	67.7	31.0-160				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier Description

B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

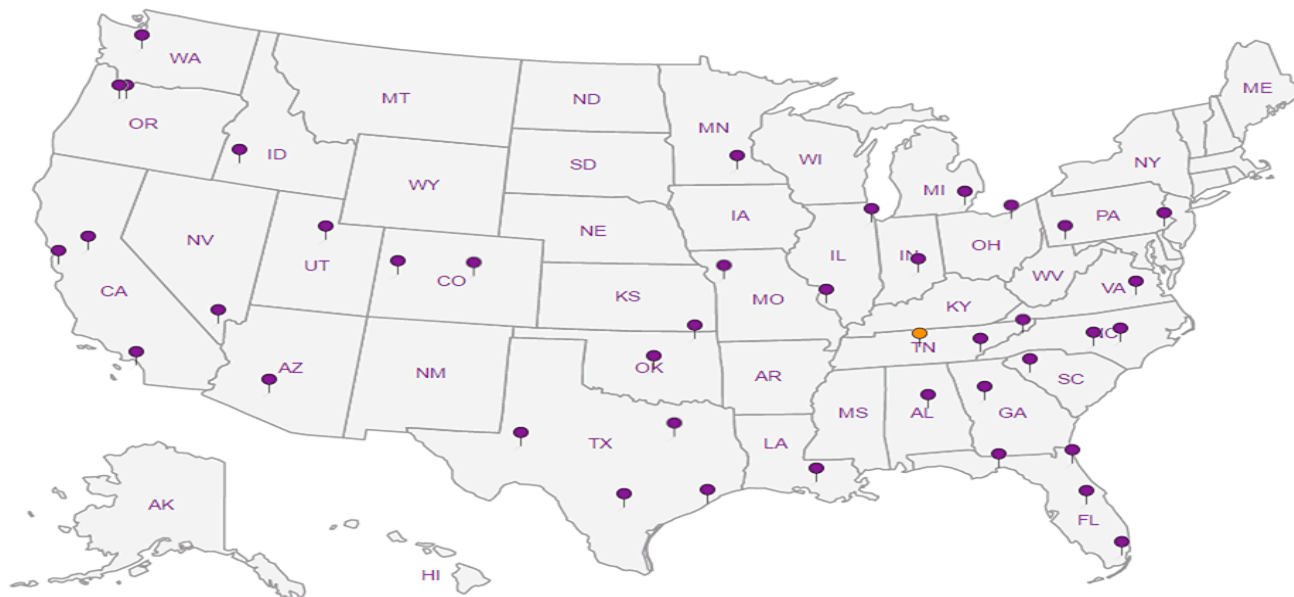
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



ESC
L.A.B. S.C.I.E.N.C.E.S.
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # **L903562**
G169

Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Rem./Contaminant	Sample # (Lab only)
	-01
	02
	03
	04
	05
	06
	07
	08
	09
	10

Analysis / Container / Preservative	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:
Julie Speer
Email To: jspeer@trcsolutions.com

Project Description:
EP Spring 2017

Phone: 512-684-3170
Fax:

Client Project #

Site/Facility ID #
EP (Navajo - Artesia)

Collected by (print):
Scott Ude

Collected by (signature):
Scott Ude

Immediately Packed on Ice N ☒ Y ☐

Rush? (Lab MUST Be Notified)
Same Day 200%
Next Day 100%
Two Day 50%
Three Day 25%

Date Results Needed
P.O. # **107027**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-76	Grab	GW		4/26/17	1640	10
MW-77	Grab	GW		4/26/17	1725	
MW-78	Grab	GW		4/26/17	1805	
MW-75	Grab	GW		4/26/17	1850	
MW-83	Grab	GW		4/26/17	1555	
MW-3	Grab	GW		4/26/17	1455	
MW-88	Grab	GW		4/26/17	1055	
MW-22A	Grab	GW		4/26/17	1140	
MW-22B	Grab	GW		4/26/17	1235	
MW-10	Grab	GW		4/26/17	1320	

Matrix: SS - Soil GW - Groundwater WW - Waste Water DW - Drinking Water OT - Other

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature) *Scott Ude* **Date:** 4/27/17 **Time:** 0800

Relinquished by: (Signature) *[Signature]* **Date:** **Time:**

Relinquished by: (Signature) *[Signature]* **Date:** **Time:**

Relinquished by: (Signature) *[Signature]* **Date:** **Time:**

Received by: (Signature) *[Signature]* **Date:** **Time:**

Received by: (Signature) *[Signature]* **Date:** **Time:**

Received for lab by: (Signature) *[Signature]* **Date:** **Time:**

Temp: 24 °C **Bottles Received:** 358 349 **Time:** 9:00

Date: 4-28-17 **Time:** 9:00

Condition: (lab use only)

COC Seal Intact: Y N NA

pH Checked: 12 **NCF:**



YOUR LAB OF CHOICE
 12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859

L# 1905502
 Table #
 Actnum: TRCATX
 Template:
 Prelogin:
 TSR: **Chris McCord**
 Cooler:
 Shipped Via:

Rem./Contaminant	Sample # (lab only)
	11
	12
	13
	14
	15
	16
	17
	18

Analysis / Container / Preservative

VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X

pH _____ Temp _____
 Flow _____ Other _____
 Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ Bottles Received:
 Temp: 2.6 °C 35.34
 Date: 4-28-17 Time: 900
 COC Seal Intact: ☒ Y ☐ N ☐ NA
 pH Checked: 12 NCF:

Company Name/Address: **TRC Solutions - Austin, TX**
 505 E. Huntland Dr, Ste 250
 Austin, TX 78752

Billing Information:
Accounts Payable
 21 Griffin Road North
 Windsor, CT 06095

Report to: **Julie Speer**
 Email To: jspeer@trcsolutions.com

Project Description: **EP Spring 2017**

Client Project #

City/State Collected: **NM**

Lab Project #

P.O. # 107027

Site/Facility ID # **EP (Navajo - Artesia)**

Rush? (Lab MUST be Notified)
 Same Day 200%
 Next Day 100%
 Two Day 50%
 Three Day 25%

Collected by (print): **Scott Ude/HMI Team**

Collected by (signature): *Scott Ude*

Immediately Packed on Ice ☒ N ☐ Y

Sample ID

Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
Grab	GW		4/26/17	1810	10
Grab	GW		4/26/17	1850	10
Grab	GW				
Grab	GW		4/26/17	1725	10
Grab	GW		4/26/17	1640	
Grab	GW		4/26/17	1415	
Grab	GW		4/26/17	1555	
Grab	GW		4/26/17	1330	
Grab	GW		4/26/17	1245	

* Matrix: **SS - Soil GW - Groundwater DW - Drinking Water OT - Other**
 Remarks: **Dissolved metals field-filtered.** (Field event is continuing)
 Relinquished by: (Signature) *Scott Ude* Date: 4/27/17 Time: 0800
 Relinquished by: (Signature) *Scott Ude* Date: _____ Time: _____
 Relinquished by: (Signature) *Scott Ude* Date: _____ Time: _____
 Relinquished by: (Signature) *Scott Ude* Date: _____ Time: _____

Company Name/Address:
TRC Solutions - Austin, TX
 505 E. Huntland Dr, Ste 250
 Austin, TX 78752

Report to:
Julie Speer
 Project: **EP Spring 2017**
 Description:

Phone: 512-684-3170
 Fax:

Collected by (print):
Scott Ude/HMI Team

Collected by (signature):
Scott Ude

Immediately Packed on Ice N ☒ Y ☒

Site/Facility ID #
EP (Navajo - Artesia)

Rush? (Lab MUST Be Notified)
 Same Day ☒ 200%
 Next Day ☐ 100%
 Two Day ☐ 50%
 Three Day ☐ 25%

Date Results Needed
107027

Email? ☒ No ☒ Yes
 FAX? ☐ No ☐ Yes

City/State Collected: **NM**

Lab Project #

P.O. #

Client Project #

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No. of Cntrs

VOC

DRO

GRO

Short List Metals (Total & Dissolved)

Cations (from "total metals" bottle)

Anions

NO2NO3, TDS

Long List Metals (Total & Dissolved)

Cyanide

Shipped Via:

TSR: **Chris McCord**

Prelogint:

Template:

Acctnum: **TRCATX**

Table #

L# **1905512**

Item/Contaminant

Sample # (lab only)

21

22

23

Chain of Custody

ESC
L.A.B. S-C-I-E-N-C-E-S

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-787-5859
Fax: 615-758-5859

YOUR LAB OF CHOICE

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:
Julie Speer

Email To:
jspeer@trcsolutions.com

Project Description:
EP Spring 2017

Client Project #
512-684-3170

Phone: 512-684-3170

Fax:

Collected by (print):
Scott Ude/HMI Team

Collected by (signature):
Scott Ude

Immediately Packed on Ice N ☐ Y ☒

Site/Facility ID #
EP (Navajo - Artesia)

Rush? (Lab MUST Be Notified)
Same Day 200%
Next Day 100%
Two Day 50%
Three Day 25%

Date Results Needed
107027

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No. of Cntrs

Short List Metals (Total & Dissolved)

Cations (from "total metals" bottle)

Anions

Long List Metals (Total & Dissolved)

Cyanide

VOC

DRO

GRO

Rem./Contaminant

Sample # (lab only)

Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature)
Scott Ude

Relinquished by: (Signature)

Relinquished by: (Signature)

Date: 4/27/17

Time: 0800

Date:

Time:

Date:

Time:

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)
Monte

Date: 4-28-17

Time: 900

Temp: 2.6 °C

Bottles Received: 349

Condition: (lab use only)

Hold #

COC Seal Intact: Y N NA

pH Checked: C2

NCE:

Company Name/Address:

TRC Solutions - Austin, TX

505 E. Huntland Dr, Ste 250

Austin, TX 78752

Billing Information:

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:

Julie Speer

Email To:

jspeer@trcsolutions.com

Project

EP Spring 2017

Description:

Phone: 512-684-3170

Fax:

Client Project #

Collected by (print):

Scott Ude/HMI Team

Site/Facility ID #

EP (Navajo - Artesia)

Collected by (signature):

Scott Ude

Rush? (Lab MUST Be Notified)

Same Day 200%

Next Day 100%

Two Day 50%

Three Day 25%

Packed on Ice: N ☒ Y ☒

Sample ID

DUP-EP-01

DUP-EP-02

DUP-EP-03

EB-EP-01

EB-EP-02

EB-EP-03

EB-EP-04

Trip Blank-EP-01

Trip Blank-EP-02

Trip Blank-EP-03

Comp/Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Date

4/26/17

4/26/17

4/26/17

4/26/17

4/26/17

4/26/17

4/26/17

4/26/17

Time

900

1000

1210

1210

1210

1210

1210

1210

No. of

10

10

10

10

10

10

10

10

Date Results Needed

107027

Email? ☒ No ☒ YesFAX? ☒ No ☒ Yes

City/State

NM

Lab Project #

P.O. #

P.O. #

107027

Date Results Needed

107027

Email? ☒ No ☒ YesFAX? ☒ No ☒ Yes

City/State

NM

Lab Project #

P.O. #

P.O. #

107027

Date Results Needed

107027

Email? ☒ No ☒ YesFAX? ☒ No ☒ Yes

Analysis / Container / Preservative

Chain of Custody

Page 6 of 28



YOUR LAB OF CHOICE

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859



L# 190562

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Item / Contaminant

Sample # (lab only)

33

34

35

36

Analysis / Container / Preservative

Chain of Custody

Page 6 of 28



YOUR LAB OF CHOICE

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859



L# 190562

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Item / Contaminant

Sample # (lab only)

33

34

35

36

Analysis / Container / Preservative

Chain of Custody

Page 6 of 28



YOUR LAB OF CHOICE

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859



L# 190562

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Item / Contaminant

Sample # (lab only)

33

34

35

36

Analysis / Container / Preservative

Chain of Custody

Page 6 of 28



YOUR LAB OF CHOICE

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859



L# 190562

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Item / Contaminant

Sample # (lab only)

33

34

35

36

Analysis / Container / Preservative

Chain of Custody

Page 6 of 28



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L# 190562

Table #

Actnum: TRCATX

Template:

Prelogin:

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Sample # (lab only)

33

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36

Analysis / Container / Preservative

Chain of Custody

Page 6 of 28



YOUR LAB OF CHOICE

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859



L# 190562

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Item / Contaminant

Sample # (lab only)

33

34

35

36

Analysis / Container / Preservative

Chain of Custody

Page 6 of 28



YOUR LAB OF CHOICE

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859



L# 190562

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Item / Contaminant

Sample # (lab only)

33

34

35

36

Analysis / Container / Preservative

Chain of Custody

Page 6 of 28



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Phone: 800-767-5859

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L# 190562

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

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Item / Contaminant

Sample # (lab only)

33

34

35

36

Analysis / Container / Preservative

Chain of Custody

Page 6 of 28



YOUR LAB OF CHOICE

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859



L# 190562

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Item / Contaminant

Sample # (lab only)

33

34

35

36

Analysis / Container / Preservative

Chain of Custody

Page 6 of 28



YOUR LAB OF CHOICE

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859



L# 190562

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Item / Contaminant

Sample # (lab only)

33

34

35

36

ESC LAB SCIENCES Cooler Receipt Form

Client: TRENTX	SDG#	L98562	
Cooler Received/Opened On: 4/ 28 /17	Temperature:	2.6	
Received By: MICHAEL Witherspoon			
Signature: MWT			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?			
COC Signed / Accurate?			
Bottles arrive intact?			
Correct bottles used?			
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

TRC Solutions - Austin, TX

Sample Delivery Group: L905602
Samples Received: 04/28/2017
Project Number: 249545.0000.0000 000
Description: TMD Spring 2017
Site: TMD - NAVAJO-ARTESIA
Report To: Julie Speer
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Entire Report Reviewed By:



Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-25 L905602-01 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 15:10

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:09	05/02/17 14:09	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 06:33	05/01/17 06:33	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 07:35	05/01/17 07:35	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:10	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 17:46	VSS
Metals (ICPMS) by Method 6020	WG975081	10	05/03/17 08:39	05/04/17 19:24	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 22:38	05/01/17 22:38	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/06/17 16:38	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

MW-20 L905602-02 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:20

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:14	05/02/17 14:14	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 06:49	05/01/17 06:49	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 07:50	05/01/17 07:50	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:21	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 18:55	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:12	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 11:37	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 22:54	05/01/17 22:54	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 18:31	DMG

⁷ Gl

⁸ Al

⁹ Sc

MW-8 L905602-03 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 11:50

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:15	05/02/17 14:15	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 07:04	05/01/17 07:04	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 08:06	05/01/17 08:06	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:25	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 18:58	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:16	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 11:41	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	04/30/17 21:14	04/30/17 21:14	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 23:11	05/01/17 23:11	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 18:48	DMG

MW-21 L905602-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 11:05

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:16	05/02/17 14:16	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 07:19	05/01/17 07:19	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 08:21	05/01/17 08:21	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:28	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:02	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:19	LAT

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545.0000.0000 000

SDG:

L905602

DATE/TIME:

05/10/17 11:30

PAGE:

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-21 L905602-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 11:05

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 11:44	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	04/30/17 21:39	04/30/17 21:39	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 20:47	05/02/17 20:47	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 19:05	DMG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

NP-1 L905602-05 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 18:20

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:18	05/02/17 14:18	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 09:07	05/01/17 09:07	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 10:09	05/01/17 10:09	KCF
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:05	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 21:09	05/02/17 21:09	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	10	05/03/17 21:51	05/03/17 21:51	LRL

NP-6 L905602-06 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 17:40

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 21:31	05/02/17 21:31	ACG

MW-71 L905602-07 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 11:05

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	50	05/02/17 14:19	05/02/17 14:19	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 10:55	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 09:23	05/01/17 09:23	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 10:24	05/01/17 10:24	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 15:38	TRB
Mercury by Method 7470A	WG975644	1	05/02/17 11:20	05/03/17 11:42	TRB
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:32	LAT
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 15:11	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 18:00	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 15:44	05/02/17 15:44	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 19:22	DMG

MW-68 L905602-08 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 11:55

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:20	05/02/17 14:20	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 09:38	05/01/17 09:38	KCF
Wet Chemistry by Method 9056A	WG975327	50	05/01/17 10:40	05/01/17 10:40	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:35	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:09	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:22	LAT

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545.0000.0000 000

SDG:

L905602

DATE/TIME:

05/10/17 11:30

PAGE:

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-68 L905602-08 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 11:55

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 11:51	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 15:59	05/02/17 15:59	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 19:39	DMG

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-27 L905602-09 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 15:55

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:21	05/02/17 14:21	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 09:53	05/01/17 09:53	KCF
Wet Chemistry by Method 9056A	WG975327	50	05/01/17 10:55	05/01/17 10:55	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:39	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:12	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:26	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 11:55	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 16:13	05/02/17 16:13	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 19:56	DMG

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-89 L905602-10 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:55

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:22	05/02/17 14:22	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 11:41	05/01/17 11:41	KCF
Wet Chemistry by Method 9056A	WG975327	50	05/01/17 12:12	05/01/17 12:12	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:42	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:16	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:30	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:07	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 16:28	05/02/17 16:28	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 20:13	DMG

MW-16 L905602-11 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:00

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:27	05/02/17 14:27	DR
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 23:02	05/02/17 23:02	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 23:54	05/02/17 23:54	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:46	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:20	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:33	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:10	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 16:43	05/02/17 16:43	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 20:30	DMG

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



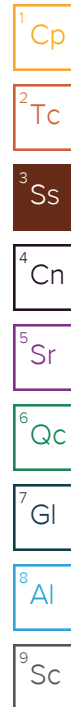
MW-26 L905602-12 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:55

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:28	05/02/17 14:28	DR
Wet Chemistry by Method 9056A	WG975534	1	05/03/17 00:47	05/03/17 00:47	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/03/17 01:04	05/03/17 01:04	KCF
Wet Chemistry by Method 9056A	WG976223	50	05/04/17 11:23	05/04/17 11:23	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:49	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:46	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:37	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:14	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 16:58	05/02/17 16:58	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 22:45	DMG



MW-46R L905602-13 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 11:40

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:29	05/02/17 14:29	DR
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 18:58	05/02/17 18:58	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 19:16	05/02/17 19:16	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 04:16	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:50	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:48	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:17	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 17:12	05/02/17 17:12	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	2	05/02/17 13:40	05/05/17 23:02	DMG

TRIP BLANK-TMD-01 L905602-14 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 00:00

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 11:51	05/02/17 11:51	JHH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6240		2.82	10.0	1	05/02/2017 11:45	WG975502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.152		0.0197	0.100	1	05/02/2017 14:09	WG975587

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	2330		5.19	100	100	05/01/2017 07:35	WG975327
Fluoride	1.17		0.00990	0.100	1	05/01/2017 06:33	WG975327
Sulfate	2800		7.74	500	100	05/01/2017 07:35	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00300		0.000250	0.00200	1	05/04/2017 17:46	WG975081
Arsenic,Dissolved	0.00306		0.000250	0.00200	1	05/02/2017 05:10	WG975070
Barium	0.0121		0.000360	0.00500	1	05/04/2017 17:46	WG975081
Barium,Dissolved	0.0129		0.000360	0.00500	1	05/02/2017 05:10	WG975070
Calcium	484	V	0.0460	1.00	1	05/04/2017 17:46	WG975081
Chromium	0.000842	J	0.000540	0.00200	1	05/04/2017 17:46	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:10	WG975070
Iron	0.0157	J	0.0150	0.100	1	05/04/2017 17:46	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:10	WG975070
Lead	U		0.000240	0.00200	1	05/04/2017 17:46	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:10	WG975070
Manganese	0.507	V	0.000250	0.00500	1	05/04/2017 17:46	WG975081
Manganese,Dissolved	0.290		0.000250	0.00500	1	05/02/2017 05:10	WG975070
Potassium	5.11		0.0370	1.00	1	05/04/2017 17:46	WG975081
Selenium	0.00254		0.000380	0.00200	1	05/04/2017 17:46	WG975081
Selenium,Dissolved	0.00234		0.000380	0.00200	1	05/02/2017 05:10	WG975070
Sodium	1540		1.10	10.0	10	05/04/2017 19:24	WG975081

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 22:38	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 22:38	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 22:38	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 22:38	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 22:38	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 22:38	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 22:38	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 22:38	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 22:38	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 22:38	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 22:38	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 22:38	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 22:38	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/01/2017 22:38	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 22:38	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 22:38	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 22:38	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 22:38	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 22:38	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 22:38	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 22:38	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/01/2017 22:38	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 22:38	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 22:38	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 22:38	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 22:38	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 22:38	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/01/2017 22:38	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 22:38	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 22:38	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 22:38	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/01/2017 22:38	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 22:38	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 22:38	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 22:38	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 22:38	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 22:38	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 22:38	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 22:38	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/01/2017 22:38	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 22:38	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 22:38	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 22:38	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 22:38	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 22:38	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 22:38	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 22:38	WG975485
(S) Toluene-d8	103			80.0-120		05/01/2017 22:38	WG975485
(S) Dibromofluoromethane	101			76.0-123		05/01/2017 22:38	WG975485
(S) 4-Bromofluorobenzene	96.1			80.0-120		05/01/2017 22:38	WG975485

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.107		0.0247	0.100	1	05/06/2017 16:38	WG975556
(S) o-Terphenyl	60.0			31.0-160		05/06/2017 16:38	WG975556



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5650		2.82	10.0	1	05/03/2017 13:18	WG975907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	8.74		0.197	1.00	10	05/02/2017 14:14	WG975587

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	588		5.19	100	100	05/01/2017 07:50	WG975327
Fluoride	2.27		0.00990	0.100	1	05/01/2017 06:49	WG975327
Sulfate	2800		7.74	500	100	05/01/2017 07:50	WG975327

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00575		0.000250	0.00200	1	05/04/2017 18:55	WG975081
Arsenic,Dissolved	0.00614		0.000250	0.00200	1	05/02/2017 05:21	WG975070
Barium	0.00980		0.000360	0.00500	1	05/04/2017 18:55	WG975081
Barium,Dissolved	0.0124		0.000360	0.00500	1	05/02/2017 05:21	WG975070
Calcium	525		0.0460	1.00	1	05/04/2017 18:55	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 18:55	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:21	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 18:55	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:21	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 11:37	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:21	WG975070
Manganese	0.00756		0.000250	0.00500	1	05/04/2017 18:55	WG975081
Manganese,Dissolved	0.00845		0.000250	0.00500	1	05/02/2017 05:21	WG975070
Potassium	0.425	J	0.0370	1.00	1	05/04/2017 18:55	WG975081
Selenium	0.0188		0.000380	0.00200	1	05/05/2017 02:12	WG975081
Selenium,Dissolved	0.0192		0.000380	0.00200	1	05/02/2017 05:21	WG975070
Sodium	274		0.110	1.00	1	05/04/2017 18:55	WG975081

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 22:54	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 22:54	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 22:54	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 22:54	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 22:54	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 22:54	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 22:54	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 22:54	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 22:54	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 22:54	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 22:54	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 22:54	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 22:54	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/01/2017 22:54	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 22:54	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 22:54	WG975485



Collected date/time: 04/27/17 10:20

L905602

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 22:54	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 22:54	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 22:54	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 22:54	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 22:54	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/01/2017 22:54	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 22:54	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 22:54	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 22:54	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 22:54	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 22:54	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/01/2017 22:54	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 22:54	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 22:54	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 22:54	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/01/2017 22:54	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 22:54	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 22:54	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 22:54	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 22:54	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 22:54	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 22:54	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 22:54	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/01/2017 22:54	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 22:54	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 22:54	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 22:54	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 22:54	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 22:54	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 22:54	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 22:54	WG975485
(S) Toluene-d8	104			80.0-120		05/01/2017 22:54	WG975485
(S) Dibromofluoromethane	103			76.0-123		05/01/2017 22:54	WG975485
(S) 4-Bromofluorobenzene	96.8			80.0-120		05/01/2017 22:54	WG975485

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.280		0.0247	0.100	1	05/05/2017 18:31	WG975556
(S) o-Terphenyl	59.4			31.0-160		05/05/2017 18:31	WG975556



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3900		2.82	10.0	1	05/03/2017 13:18	WG975907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.04		0.0197	0.100	1	05/02/2017 14:15	WG975587

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	334		5.19	100	100	05/01/2017 08:06	WG975327
Fluoride	2.20		0.00990	0.100	1	05/01/2017 07:04	WG975327
Sulfate	2100		7.74	500	100	05/01/2017 08:06	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00678		0.000250	0.00200	1	05/04/2017 18:58	WG975081
Arsenic,Dissolved	0.00606		0.000250	0.00200	1	05/02/2017 05:25	WG975070
Barium	0.0102		0.000360	0.00500	1	05/04/2017 18:58	WG975081
Barium,Dissolved	0.0119		0.000360	0.00500	1	05/02/2017 05:25	WG975070
Calcium	346		0.0460	1.00	1	05/04/2017 18:58	WG975081
Chromium	0.0259		0.000540	0.00200	1	05/04/2017 18:58	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:25	WG975070
Iron	0.111		0.0150	0.100	1	05/04/2017 18:58	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:25	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 11:41	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:25	WG975070
Manganese	0.467		0.000250	0.00500	1	05/04/2017 18:58	WG975081
Manganese,Dissolved	0.494		0.000250	0.00500	1	05/02/2017 05:25	WG975070
Potassium	1.44		0.0370	1.00	1	05/04/2017 18:58	WG975081
Selenium	0.00647		0.000380	0.00200	1	05/05/2017 02:16	WG975081
Selenium,Dissolved	0.00637		0.000380	0.00200	1	05/02/2017 05:25	WG975070
Sodium	262		0.110	1.00	1	05/04/2017 18:58	WG975081

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.585		0.0314	0.100	1	04/30/2017 21:14	WG975302
(S) a,a,a-Trifluorotoluene(FID) 99.8				77.0-122		04/30/2017 21:14	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 23:11	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 23:11	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 23:11	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 23:11	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 23:11	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 23:11	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 23:11	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 23:11	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 23:11	WG975485



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 23:11	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 23:11	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 23:11	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 23:11	WG975485
Chloromethane	U	<u>J4</u>	0.000276	0.00250	1	05/01/2017 23:11	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 23:11	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 23:11	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 23:11	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 23:11	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 23:11	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 23:11	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 23:11	WG975485
cis-1,3-Dichloropropene	U	<u>J4</u>	0.000418	0.00100	1	05/01/2017 23:11	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 23:11	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 23:11	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 23:11	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 23:11	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 23:11	WG975485
2-Hexanone	U	<u>J3 J4</u>	0.00382	0.0100	1	05/01/2017 23:11	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 23:11	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 23:11	WG975485
Methyl tert-butyl ether	0.00228		0.000367	0.00100	1	05/01/2017 23:11	WG975485
Naphthalene	U	<u>J4</u>	0.00100	0.00500	1	05/01/2017 23:11	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 23:11	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 23:11	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 23:11	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 23:11	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 23:11	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 23:11	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 23:11	WG975485
1,1,2-Trichloroethane	U	<u>J4</u>	0.000383	0.00100	1	05/01/2017 23:11	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 23:11	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 23:11	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 23:11	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 23:11	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 23:11	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 23:11	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 23:11	WG975485
(S) Toluene-d8	104			80.0-120		05/01/2017 23:11	WG975485
(S) Dibromofluoromethane	104			76.0-123		05/01/2017 23:11	WG975485
(S) 4-Bromofluorobenzene	95.4			80.0-120		05/01/2017 23:11	WG975485

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.238		0.0247	0.100	1	05/05/2017 18:48	WG975556
(S) o-Terphenyl	60.0			31.0-160		05/05/2017 18:48	WG975556



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6630		2.82	10.0	1	05/03/2017 13:18	WG975907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	20.4		0.197	1.00	10	05/02/2017 14:16	WG975587

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	599		5.19	100	100	05/01/2017 08:21	WG975327
Fluoride	1.95		0.00990	0.100	1	05/01/2017 07:19	WG975327
Sulfate	2860		7.74	500	100	05/01/2017 08:21	WG975327

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00530		0.000250	0.00200	1	05/04/2017 19:02	WG975081
Arsenic,Dissolved	0.00536		0.000250	0.00200	1	05/02/2017 05:28	WG975070
Barium	0.00817		0.000360	0.00500	1	05/04/2017 19:02	WG975081
Barium,Dissolved	0.00969		0.000360	0.00500	1	05/02/2017 05:28	WG975070
Calcium	507		0.0460	1.00	1	05/04/2017 19:02	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:02	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:28	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:02	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:28	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 11:44	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:28	WG975070
Manganese	0.204		0.000250	0.00500	1	05/04/2017 19:02	WG975081
Manganese,Dissolved	0.191		0.000250	0.00500	1	05/02/2017 05:28	WG975070
Potassium	1.88		0.0370	1.00	1	05/04/2017 19:02	WG975081
Selenium	0.0258		0.000380	0.00200	1	05/05/2017 02:19	WG975081
Selenium,Dissolved	0.0266		0.000380	0.00200	1	05/02/2017 05:28	WG975070
Sodium	423		0.110	1.00	1	05/04/2017 19:02	WG975081

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0721	J	0.0314	0.100	1	04/30/2017 21:39	WG975302
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		04/30/2017 21:39	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 20:47	WG975945
Benzene	U		0.000331	0.00100	1	05/02/2017 20:47	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 20:47	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 20:47	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 20:47	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 20:47	WG975945
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 20:47	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 20:47	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 20:47	WG975945



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 20:47	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 20:47	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 20:47	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 20:47	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 20:47	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 20:47	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 20:47	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 20:47	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 20:47	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 20:47	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 20:47	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 20:47	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 20:47	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 20:47	WG975945
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 20:47	WG975945
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 20:47	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 20:47	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 20:47	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 20:47	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 20:47	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 20:47	WG975945
Methyl tert-butyl ether	0.0149		0.000367	0.00100	1	05/02/2017 20:47	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 20:47	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 20:47	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 20:47	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 20:47	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 20:47	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 20:47	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 20:47	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 20:47	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 20:47	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 20:47	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 20:47	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 20:47	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 20:47	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 20:47	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 20:47	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 20:47	WG975945
(S) Toluene-d8	107			80.0-120		05/02/2017 20:47	WG975945
(S) Dibromofluoromethane	112			76.0-123		05/02/2017 20:47	WG975945
(S) 4-Bromofluorobenzene	91.0			80.0-120		05/02/2017 20:47	WG975945

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.169		0.0247	0.100	1	05/05/2017 19:05	WG975556
(S) o-Terphenyl	57.2			31.0-160		05/05/2017 19:05	WG975556



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4060		2.82	10.0	1	05/02/2017 11:45	WG975502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	9.95		0.197	1.00	10	05/02/2017 14:18	WG975587

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	422		5.19	100	100	05/01/2017 10:09	WG975327
Fluoride	2.08		0.00990	0.100	1	05/01/2017 09:07	WG975327
Sulfate	2440		7.74	500	100	05/01/2017 10:09	WG975327

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	421		0.0460	1.00	1	05/04/2017 19:05	WG975081
Potassium	2.73		0.0370	1.00	1	05/04/2017 19:05	WG975081
Sodium	340		0.110	1.00	1	05/04/2017 19:05	WG975081

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 21:09	WG975945
Benzene	U		0.000331	0.00100	1	05/02/2017 21:09	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:09	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:09	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:09	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:09	WG975945
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 21:09	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 21:09	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:09	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:09	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:09	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:09	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:09	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:09	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:09	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:09	WG975945
1,2-Dichloroethane	0.000408	J	0.000361	0.00100	1	05/02/2017 21:09	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:09	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:09	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:09	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:09	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:09	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:09	WG975945
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:09	WG975945
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 21:09	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:09	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:09	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:09	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:09	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:09	WG975945



Collected date/time: 04/26/17 18:20

L905602

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.391		0.00367	0.0100	10	05/03/2017 21:51	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:09	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:09	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 21:09	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:09	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:09	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:09	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 21:09	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:09	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:09	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:09	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:09	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:09	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:09	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:09	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:09	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:09	WG975945
(S) Toluene-d8	104			80.0-120		05/03/2017 21:51	WG975945
(S) Toluene-d8	106			80.0-120		05/02/2017 21:09	WG975945
(S) Dibromofluoromethane	101			76.0-123		05/03/2017 21:51	WG975945
(S) Dibromofluoromethane	112			76.0-123		05/02/2017 21:09	WG975945
(S) 4-Bromofluorobenzene	90.6			80.0-120		05/02/2017 21:09	WG975945
(S) 4-Bromofluorobenzene	98.2			80.0-120		05/03/2017 21:51	WG975945

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/26/17 17:40

L905602

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 21:31	WG975945
Benzene	U		0.000331	0.00100	1	05/02/2017 21:31	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:31	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:31	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:31	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:31	WG975945
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 21:31	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 21:31	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:31	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:31	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:31	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:31	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:31	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:31	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:31	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:31	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 21:31	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:31	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:31	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:31	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:31	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:31	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:31	WG975945
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:31	WG975945
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 21:31	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:31	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:31	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:31	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:31	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:31	WG975945
Methyl tert-butyl ether	0.0353		0.000367	0.00100	1	05/02/2017 21:31	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:31	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:31	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 21:31	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:31	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:31	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:31	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 21:31	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:31	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:31	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:31	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:31	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:31	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:31	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:31	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:31	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:31	WG975945
(S) Toluene-d8	108			80.0-120		05/02/2017 21:31	WG975945
(S) Dibromofluoromethane	111			76.0-123		05/02/2017 21:31	WG975945
(S) 4-Bromofluorobenzene	91.8			80.0-120		05/02/2017 21:31	WG975945

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5300		2.82	10.0	1	05/02/2017 11:45	WG975502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	54.0		0.985	5.00	50	05/02/2017 14:19	WG975587

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 10:55	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	848		5.19	100	100	05/01/2017 10:24	WG975327
Fluoride	1.63		0.00990	0.100	1	05/01/2017 09:23	WG975327
Sulfate	2940		7.74	500	100	05/01/2017 10:24	WG975327

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 15:38	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/03/2017 11:42	WG975644

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00387		0.000250	0.00200	1	05/04/2017 18:00	WG975081
Arsenic,Dissolved	0.00408		0.000250	0.00200	1	05/02/2017 05:32	WG975070
Barium	0.00845		0.000360	0.00500	1	05/04/2017 18:00	WG975081
Barium,Dissolved	0.00978		0.000360	0.00500	1	05/02/2017 05:32	WG975070
Boron	0.538		0.00150	0.0200	1	05/04/2017 18:00	WG975081
Boron,Dissolved	0.606		0.00150	0.0200	1	05/02/2017 15:11	WG975070
Cadmium	U		0.000160	0.00100	1	05/04/2017 18:00	WG975081
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 15:11	WG975070
Calcium	601		0.0460	1.00	1	05/04/2017 18:00	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 18:00	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:32	WG975070
Cobalt	U		0.000260	0.00200	1	05/04/2017 18:00	WG975081
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 05:32	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 18:00	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:32	WG975070
Lead	U		0.000240	0.00200	1	05/04/2017 18:00	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:32	WG975070
Manganese	0.000841	U	0.000250	0.00500	1	05/04/2017 18:00	WG975081
Manganese,Dissolved	0.000265	U	0.000250	0.00500	1	05/02/2017 05:32	WG975070
Nickel	0.000916	U	0.000350	0.00200	1	05/04/2017 18:00	WG975081
Nickel,Dissolved	0.000892	U	0.000350	0.00200	1	05/02/2017 05:32	WG975070
Potassium	3.62		0.0370	1.00	1	05/04/2017 18:00	WG975081
Selenium	0.0324		0.000380	0.00200	1	05/04/2017 18:00	WG975081
Selenium,Dissolved	0.0331		0.000380	0.00200	1	05/02/2017 05:32	WG975070
Sodium	491		0.110	1.00	1	05/04/2017 18:00	WG975081



Collected date/time: 04/26/17 11:05

L905602

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0587		0.000330	0.0100	1	05/04/2017 18:00	WG975081
Uranium,Dissolved	0.0617		0.000330	0.0100	1	05/02/2017 05:32	WG975070
Vanadium	0.0248		0.000180	0.00500	1	05/04/2017 18:00	WG975081
Vanadium,Dissolved	0.0260		0.000180	0.00500	1	05/02/2017 05:32	WG975070

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 15:44	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 15:44	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 15:44	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 15:44	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 15:44	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 15:44	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 15:44	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 15:44	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 15:44	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 15:44	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 15:44	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 15:44	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 15:44	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 15:44	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 15:44	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 15:44	WG975500
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 15:44	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 15:44	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 15:44	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 15:44	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 15:44	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 15:44	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 15:44	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 15:44	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 15:44	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 15:44	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 15:44	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 15:44	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 15:44	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 15:44	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 15:44	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 15:44	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 15:44	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 15:44	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 15:44	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 15:44	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 15:44	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 15:44	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 15:44	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 15:44	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 15:44	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 15:44	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 15:44	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 15:44	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 15:44	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 15:44	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 15:44	WG975500
(S) Toluene-d8	92.8			80.0-120		05/02/2017 15:44	WG975500

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Collected date/time: 04/26/17 11:05

L905602

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Dibromofluoromethane	80.8			76.0-123		05/02/2017 15:44	WG975500
(S) 4-Bromofluorobenzene	94.6			80.0-120		05/02/2017 15:44	WG975500

¹Cp

²Tc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0947	J	0.0247	0.100	1	05/05/2017 19:22	WG975556
(S) o-Terphenyl	57.9			31.0-160		05/05/2017 19:22	WG975556

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2890		2.82	10.0	1	05/02/2017 11:45	WG975502

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.381		0.0197	0.100	1	05/02/2017 14:20	WG975587

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	237		2.60	50.0	50	05/01/2017 10:40	WG975327
Fluoride	1.88		0.00990	0.100	1	05/01/2017 09:38	WG975327
Sulfate	1620		3.87	250	50	05/01/2017 10:40	WG975327

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00244		0.000250	0.00200	1	05/04/2017 19:09	WG975081
Arsenic,Dissolved	0.00250		0.000250	0.00200	1	05/02/2017 05:35	WG975070
Barium	0.0107		0.000360	0.00500	1	05/04/2017 19:09	WG975081
Barium,Dissolved	0.0125		0.000360	0.00500	1	05/02/2017 05:35	WG975070
Calcium	381		0.0460	1.00	1	05/04/2017 19:09	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:09	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:35	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:09	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:35	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 11:51	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:35	WG975070
Manganese	0.0824		0.000250	0.00500	1	05/04/2017 19:09	WG975081
Manganese,Dissolved	0.0929		0.000250	0.00500	1	05/02/2017 05:35	WG975070
Potassium	4.60		0.0370	1.00	1	05/04/2017 19:09	WG975081
Selenium	0.00275		0.000380	0.00200	1	05/05/2017 02:22	WG975081
Selenium,Dissolved	0.00331		0.000380	0.00200	1	05/02/2017 05:35	WG975070
Sodium	165		0.110	1.00	1	05/04/2017 19:09	WG975081

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 15:59	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 15:59	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 15:59	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 15:59	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 15:59	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 15:59	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 15:59	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 15:59	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 15:59	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 15:59	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 15:59	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 15:59	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 15:59	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 15:59	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 15:59	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 15:59	WG975500



Collected date/time: 04/26/17 11:55

L905602

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 15:59	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 15:59	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 15:59	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 15:59	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 15:59	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 15:59	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 15:59	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 15:59	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 15:59	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 15:59	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 15:59	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 15:59	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 15:59	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 15:59	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 15:59	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 15:59	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 15:59	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 15:59	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 15:59	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 15:59	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 15:59	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 15:59	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 15:59	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 15:59	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 15:59	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 15:59	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 15:59	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 15:59	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 15:59	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 15:59	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 15:59	WG975500
(S) Toluene-d8	93.9			80.0-120		05/02/2017 15:59	WG975500
(S) Dibromofluoromethane	81.8			76.0-123		05/02/2017 15:59	WG975500
(S) 4-Bromofluorobenzene	93.6			80.0-120		05/02/2017 15:59	WG975500

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.138		0.0247	0.100	1	05/05/2017 19:39	WG975556
(S) o-Terphenyl	58.6			31.0-160		05/05/2017 19:39	WG975556



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2150		2.82	10.0	1	05/02/2017 11:45	WG975502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.22		0.0197	0.100	1	05/02/2017 14:21	WG975587

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	138		2.60	50.0	50	05/01/2017 10:55	WG975327
Fluoride	1.29		0.00990	0.100	1	05/01/2017 09:53	WG975327
Sulfate	1550		3.87	250	50	05/01/2017 10:55	WG975327

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00216		0.000250	0.00200	1	05/04/2017 19:12	WG975081
Arsenic,Dissolved	0.00212		0.000250	0.00200	1	05/02/2017 05:39	WG975070
Barium	0.0153		0.000360	0.00500	1	05/04/2017 19:12	WG975081
Barium,Dissolved	0.0182		0.000360	0.00500	1	05/02/2017 05:39	WG975070
Calcium	410		0.0460	1.00	1	05/04/2017 19:12	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:12	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:39	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:12	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:39	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 11:55	WG975081
Lead,Dissolved	0.000708	J	0.000240	0.00200	1	05/02/2017 05:39	WG975070
Manganese	0.0158		0.000250	0.00500	1	05/04/2017 19:12	WG975081
Manganese,Dissolved	0.0173		0.000250	0.00500	1	05/02/2017 05:39	WG975070
Potassium	8.43		0.0370	1.00	1	05/04/2017 19:12	WG975081
Selenium	0.00706		0.000380	0.00200	1	05/05/2017 02:26	WG975081
Selenium,Dissolved	0.00708		0.000380	0.00200	1	05/02/2017 05:39	WG975070
Sodium	136		0.110	1.00	1	05/04/2017 19:12	WG975081

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 16:13	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 16:13	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 16:13	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 16:13	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 16:13	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 16:13	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 16:13	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 16:13	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 16:13	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 16:13	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 16:13	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 16:13	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 16:13	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 16:13	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 16:13	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 16:13	WG975500



Collected date/time: 04/26/17 15:55

L905602

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 16:13	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 16:13	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 16:13	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 16:13	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 16:13	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 16:13	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 16:13	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 16:13	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 16:13	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 16:13	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 16:13	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 16:13	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 16:13	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 16:13	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 16:13	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 16:13	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 16:13	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 16:13	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 16:13	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 16:13	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 16:13	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 16:13	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 16:13	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 16:13	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 16:13	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 16:13	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 16:13	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 16:13	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 16:13	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 16:13	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 16:13	WG975500
(S) Toluene-d8	93.7			80.0-120		05/02/2017 16:13	WG975500
(S) Dibromofluoromethane	80.1			76.0-123		05/02/2017 16:13	WG975500
(S) 4-Bromofluorobenzene	93.4			80.0-120		05/02/2017 16:13	WG975500

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0992	J	0.0247	0.100	1	05/05/2017 19:56	WG975556
(S) o-Terphenyl	56.6			31.0-160		05/05/2017 19:56	WG975556



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3600		2.82	10.0	1	05/02/2017 11:45	WG975502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	4.77		0.197	1.00	10	05/02/2017 14:22	WG975587

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	394		2.60	50.0	50	05/01/2017 12:12	WG975327
Fluoride	3.97		0.00990	0.100	1	05/01/2017 11:41	WG975327
Sulfate	2170		3.87	250	50	05/01/2017 12:12	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00657		0.000250	0.00200	1	05/04/2017 19:16	WG975081
Arsenic,Dissolved	0.00684		0.000250	0.00200	1	05/02/2017 05:42	WG975070
Barium	0.0145		0.000360	0.00500	1	05/04/2017 19:16	WG975081
Barium,Dissolved	0.0160		0.000360	0.00500	1	05/02/2017 05:42	WG975070
Calcium	550		0.0460	1.00	1	05/04/2017 19:16	WG975081
Chromium	0.00102	J	0.000540	0.00200	1	05/04/2017 19:16	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:42	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:16	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:42	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 12:07	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:42	WG975070
Manganese	0.0420		0.000250	0.00500	1	05/04/2017 19:16	WG975081
Manganese,Dissolved	0.0452		0.000250	0.00500	1	05/02/2017 05:42	WG975070
Potassium	12.2		0.0370	1.00	1	05/04/2017 19:16	WG975081
Selenium	0.0534		0.000380	0.00200	1	05/05/2017 02:30	WG975081
Selenium,Dissolved	0.0559		0.000380	0.00200	1	05/02/2017 05:42	WG975070
Sodium	289		0.110	1.00	1	05/04/2017 19:16	WG975081

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 16:28	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 16:28	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 16:28	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 16:28	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 16:28	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 16:28	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 16:28	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 16:28	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 16:28	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 16:28	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 16:28	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 16:28	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 16:28	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 16:28	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 16:28	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 16:28	WG975500



Collected date/time: 04/26/17 14:55

L905602

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 16:28	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 16:28	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 16:28	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 16:28	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 16:28	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 16:28	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 16:28	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 16:28	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 16:28	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 16:28	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 16:28	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 16:28	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 16:28	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 16:28	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 16:28	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 16:28	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 16:28	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 16:28	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 16:28	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 16:28	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 16:28	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 16:28	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 16:28	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 16:28	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 16:28	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 16:28	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 16:28	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 16:28	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 16:28	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 16:28	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 16:28	WG975500
(S) Toluene-d8	95.1			80.0-120		05/02/2017 16:28	WG975500
(S) Dibromofluoromethane	79.5			76.0-123		05/02/2017 16:28	WG975500
(S) 4-Bromofluorobenzene	95.1			80.0-120		05/02/2017 16:28	WG975500

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.15		0.0247	0.100	1	05/05/2017 20:13	WG975556
(S) o-Terphenyl	63.9			31.0-160		05/05/2017 20:13	WG975556



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4150		2.82	10.0	1	05/02/2017 11:45	WG975502

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	1.75		0.197	1.00	10	05/02/2017 14:27	WG975587

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	936		5.19	100	100	05/02/2017 23:54	WG975534
Fluoride	2.36	J6	0.00990	0.100	1	05/02/2017 23:02	WG975534
Sulfate	2900		7.74	500	100	05/02/2017 23:54	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00498		0.000250	0.00200	1	05/04/2017 19:20	WG975081
Arsenic,Dissolved	0.00513		0.000250	0.00200	1	05/02/2017 05:46	WG975070
Barium	0.0127		0.000360	0.00500	1	05/04/2017 19:20	WG975081
Barium,Dissolved	0.0164		0.000360	0.00500	1	05/02/2017 05:46	WG975070
Calcium	558		0.0460	1.00	1	05/04/2017 19:20	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:20	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:46	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:20	WG975081
Iron,Dissolved	0.0333	J	0.0150	0.100	1	05/02/2017 05:46	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 12:10	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:46	WG975070
Manganese	0.00510		0.000250	0.00500	1	05/04/2017 19:20	WG975081
Manganese,Dissolved	0.00335	J	0.000250	0.00500	1	05/02/2017 05:46	WG975070
Potassium	9.27		0.0370	1.00	1	05/04/2017 19:20	WG975081
Selenium	0.0106		0.000380	0.00200	1	05/05/2017 02:33	WG975081
Selenium,Dissolved	0.0116		0.000380	0.00200	1	05/02/2017 05:46	WG975070
Sodium	689		0.110	1.00	1	05/04/2017 19:20	WG975081

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 16:43	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 16:43	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 16:43	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 16:43	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 16:43	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 16:43	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 16:43	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 16:43	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 16:43	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 16:43	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 16:43	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 16:43	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 16:43	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 16:43	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 16:43	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 16:43	WG975500



Collected date/time: 04/26/17 14:00

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Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 16:43	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 16:43	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 16:43	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 16:43	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 16:43	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 16:43	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 16:43	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 16:43	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 16:43	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 16:43	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 16:43	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 16:43	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 16:43	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 16:43	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 16:43	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 16:43	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 16:43	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 16:43	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 16:43	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 16:43	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 16:43	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 16:43	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 16:43	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 16:43	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 16:43	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 16:43	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 16:43	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 16:43	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 16:43	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 16:43	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 16:43	WG975500
(S) Toluene-d8	94.7			80.0-120		05/02/2017 16:43	WG975500
(S) Dibromofluoromethane	80.6			76.0-123		05/02/2017 16:43	WG975500
(S) 4-Bromofluorobenzene	90.7			80.0-120		05/02/2017 16:43	WG975500

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.275		0.0247	0.100	1	05/05/2017 20:30	WG975556
(S) o-Terphenyl	62.0			31.0-160		05/05/2017 20:30	WG975556



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	8730		2.82	10.0	1	05/03/2017 12:09	WG975503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.580		0.0197	0.100	1	05/02/2017 14:28	WG975587

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1580		2.60	50.0	50	05/04/2017 11:23	WG976223
Fluoride	1.75		0.00990	0.100	1	05/03/2017 00:47	WG975534
Sulfate	5120		7.74	500	100	05/03/2017 01:04	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00335		0.000250	0.00200	1	05/04/2017 19:46	WG975081
Arsenic,Dissolved	0.00330		0.000250	0.00200	1	05/02/2017 05:49	WG975070
Barium	0.00916		0.000360	0.00500	1	05/04/2017 19:46	WG975081
Barium,Dissolved	0.00987		0.000360	0.00500	1	05/02/2017 05:49	WG975070
Calcium	707		0.0460	1.00	1	05/04/2017 19:46	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:46	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:49	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:46	WG975081
Iron,Dissolved	0.0359	J	0.0150	0.100	1	05/02/2017 05:49	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 12:14	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:49	WG975070
Manganese	0.560		0.000250	0.00500	1	05/04/2017 19:46	WG975081
Manganese,Dissolved	0.635		0.000250	0.00500	1	05/02/2017 05:49	WG975070
Potassium	5.90		0.0370	1.00	1	05/04/2017 19:46	WG975081
Selenium	0.0232		0.000380	0.00200	1	05/05/2017 02:37	WG975081
Selenium,Dissolved	0.0251		0.000380	0.00200	1	05/02/2017 05:49	WG975070
Sodium	760		0.110	1.00	1	05/04/2017 19:46	WG975081

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 16:58	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 16:58	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 16:58	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 16:58	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 16:58	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 16:58	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 16:58	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 16:58	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 16:58	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 16:58	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 16:58	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 16:58	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 16:58	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 16:58	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 16:58	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 16:58	WG975500



Collected date/time: 04/26/17 12:55

L905602

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 16:58	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 16:58	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 16:58	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 16:58	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 16:58	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 16:58	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 16:58	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 16:58	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 16:58	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 16:58	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 16:58	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 16:58	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 16:58	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 16:58	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 16:58	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 16:58	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 16:58	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 16:58	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 16:58	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 16:58	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 16:58	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 16:58	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 16:58	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 16:58	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 16:58	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 16:58	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 16:58	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 16:58	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 16:58	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 16:58	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 16:58	WG975500
(S) Toluene-d8	93.6			80.0-120		05/02/2017 16:58	WG975500
(S) Dibromofluoromethane	80.5			76.0-123		05/02/2017 16:58	WG975500
(S) 4-Bromofluorobenzene	92.5			80.0-120		05/02/2017 16:58	WG975500

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0773	J	0.0247	0.100	1	05/05/2017 22:45	WG975556
(S) o-Terphenyl	56.3			31.0-160		05/05/2017 22:45	WG975556



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3930		2.82	10.0	1	05/03/2017 13:18	WG975907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.206		0.0197	0.100	1	05/02/2017 14:29	WG975587

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	315		5.19	100	100	05/02/2017 19:16	WG975534
Fluoride	1.70		0.00990	0.100	1	05/02/2017 18:58	WG975534
Sulfate	2420		7.74	500	100	05/02/2017 19:16	WG975534

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00266		0.000250	0.00200	1	05/04/2017 19:50	WG975081
Arsenic,Dissolved	0.00247		0.000250	0.00200	1	05/02/2017 04:16	WG975070
Barium	0.0134		0.000360	0.00500	1	05/04/2017 19:50	WG975081
Barium,Dissolved	0.0124		0.000360	0.00500	1	05/02/2017 04:16	WG975070
Calcium	588		0.0460	1.00	1	05/04/2017 19:50	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:50	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 04:16	WG975070
Iron	0.167		0.0150	0.100	1	05/04/2017 19:50	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 04:16	WG975070
Lead	0.000538	J	0.000240	0.00200	1	05/05/2017 12:17	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 04:16	WG975070
Manganese	0.162		0.000250	0.00500	1	05/04/2017 19:50	WG975081
Manganese,Dissolved	0.131		0.000250	0.00500	1	05/02/2017 04:16	WG975070
Potassium	1.30		0.0370	1.00	1	05/04/2017 19:50	WG975081
Selenium	0.00199	J	0.000380	0.00200	1	05/05/2017 02:48	WG975081
Selenium,Dissolved	0.00193	J	0.000380	0.00200	1	05/02/2017 04:16	WG975070
Sodium	182		0.110	1.00	1	05/04/2017 19:50	WG975081

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 17:12	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 17:12	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 17:12	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 17:12	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 17:12	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 17:12	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 17:12	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 17:12	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 17:12	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 17:12	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 17:12	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 17:12	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 17:12	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 17:12	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 17:12	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 17:12	WG975500



Collected date/time: 04/27/17 11:40

L905602

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 17:12	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 17:12	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 17:12	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 17:12	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 17:12	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 17:12	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 17:12	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 17:12	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 17:12	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 17:12	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 17:12	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 17:12	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 17:12	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 17:12	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 17:12	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 17:12	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 17:12	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 17:12	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 17:12	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 17:12	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 17:12	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 17:12	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 17:12	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 17:12	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 17:12	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 17:12	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 17:12	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 17:12	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 17:12	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 17:12	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 17:12	WG975500
(S) Toluene-d8	93.6			80.0-120		05/02/2017 17:12	WG975500
(S) Dibromofluoromethane	82.7			76.0-123		05/02/2017 17:12	WG975500
(S) 4-Bromofluorobenzene	93.6			80.0-120		05/02/2017 17:12	WG975500

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0889	J	0.0494	0.200	2	05/05/2017 23:02	WG975556
(S) o-Terphenyl	111			31.0-160		05/05/2017 23:02	WG975556

Sample Narrative:

3511/8015 L905602-13 WG975556: Cannot run at lower dilution due to viscosity of extract



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 11:51	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 11:51	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 11:51	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 11:51	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 11:51	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 11:51	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 11:51	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 11:51	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 11:51	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 11:51	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 11:51	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 11:51	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 11:51	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 11:51	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 11:51	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 11:51	WG975500
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 11:51	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 11:51	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 11:51	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 11:51	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 11:51	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 11:51	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 11:51	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 11:51	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 11:51	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 11:51	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 11:51	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 11:51	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 11:51	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 11:51	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 11:51	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 11:51	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 11:51	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 11:51	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 11:51	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 11:51	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 11:51	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 11:51	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 11:51	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 11:51	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 11:51	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 11:51	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 11:51	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 11:51	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 11:51	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 11:51	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 11:51	WG975500
(S) Toluene-d8	92.8			80.0-120		05/02/2017 11:51	WG975500
(S) Dibromofluoromethane	84.1			76.0-123		05/02/2017 11:51	WG975500
(S) 4-Bromofluorobenzene	95.5			80.0-120		05/02/2017 11:51	WG975500

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215801-1 05/02/17 11:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905562-33 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-33 05/02/17 11:45 • (DUP) R3215801-4 05/02/17 11:45

Analyte	Original Result mg/l	DUP Result mg/l	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4210	4050	1	3.87	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215801-2 05/02/17 11:45 • (LCSD) R3215801-3 05/02/17 11:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8380	8470	95.2	96.3	85.0-115	1.07	1.07	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215908-1 05/03/17 12:09

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	2.82	10.0	

L905602-12 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-12 05/03/17 12:09 • (DUP) R3215908-4 05/03/17 12:09

Analyte	Original Result mg/l	DUP Result mg/l	<u>DUP Qualifier</u>	DUP RPD %	DUP RPD Limits %
Dissolved Solids	8730	8810	1	0.912	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215908-2 05/03/17 12:09 • (LCSD) R3215908-3 05/03/17 12:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8590	98.5	97.6	85.0-115	0.927	0.927	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215860-1 05/03/17 13:18

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905645-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-02 05/03/17 13:18 • (DUP) R3215860-4 05/03/17 13:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	1980	2080	1	4.94		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215860-2 05/03/17 13:18 • (LCSD) R3215860-3 05/03/17 13:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Dissolved Solids	8800	8640	8600	98.2	97.7	85.0-115		0.464	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215036-1 05/02/17 14:02				
Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
Nitrate-Nitrite	U	0.0197	0.100	

L905563-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905563-01 05/02/17 14:05 • (DUP) R3215036-4 05/02/17 14:06				
Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %
Nitrate-Nitrite	1.87	1.86	1	0
				20

L905616-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905616-02 05/02/17 14:31 • (DUP) R3215036-6 05/02/17 14:32				
Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %
Nitrate-Nitrite	0.348	0.500	1	36
			<u>J3</u>	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215036-2 05/02/17 14:03 • (LCSD) R3215036-3 05/02/17 14:04				
Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %
Nitrate-Nitrite	5.00	5.17	5.10	103
				90-110
				102
				90-110
				1
				20

L905563-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L905563-01 05/02/17 14:05 • (MS) R3215036-5 05/02/17 14:07				
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %
Nitrate-Nitrite	5.00	1.87	6.68	96
				90-110
			1	90-110

L905624-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905624-01 05/02/17 14:33 • (MS) R3215036-7 05/02/17 14:34 • (MSD) R3215036-8 05/02/17 14:40				
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l
Nitrate-Nitrite	5.00	1.02	5.76	5.81
				95
				96
			1	90-110
				1
				20



Method Blank (MB)

(MB) R3214912-1 05/02/17 10:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.0018	0.00500

L905561-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905561-02 05/02/17 10:51 • (DUP) R3214912-6 05/02/17 10:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	0.000	1	0		20

L905668-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-23 05/02/17 11:03 • (DUP) R3214912-7 05/02/17 11:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0.000	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214912-2 05/02/17 10:39 • (LCSD) R3214912-3 05/02/17 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.105	0.0907	105	91	85-115			15	20

L905437-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905437-02 05/02/17 10:44 • (MS) R3214912-4 05/02/17 10:45 • (MSD) R3214912-5 05/02/17 10:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.101	0.0997	101	100	1	75-125			1	20



Method Blank (MB)

(MB) R3214715-1 04/30/17 20:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905562-35 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-35 05/01/17 04:14 • (DUP) R3214715-5 05/01/17 04:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.359	0.288	1	22	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.143	0.000	1	200	P1	15

L905602-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-10 05/01/17 11:41 • (DUP) R3214715-8 05/01/17 11:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	3.97	3.99	1	0		15

L905602-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-10 05/01/17 12:12 • (DUP) R3214715-9 05/01/17 12:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	394	371	50	6		15
Sulfate	2170	2230	50	3		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214715-2 04/30/17 20:38 • (LCSD) R3214715-3 04/30/17 20:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	39.5	39.5	99	99	80-120			0	15
Fluoride	8.00	7.93	7.92	99	99	80-120			0	15
Sulfate	40.0	39.7	39.7	99	99	80-120			0	15



L905562-25 Original Sample (OS) • Matrix Spike (MS)

(OS) L905562-25 04/30/17 22:36 • (MS) R3214715-4 04/30/17 22:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	1.58	6.42	97	1	80-120	

L905562-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-35 05/01/17 04:14 • (MS) R3214715-6 05/01/17 04:45 • (MSD) R3214715-7 05/01/17 05:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	0.359	51.6	51.3	102	102	1	80-120			1	15
Fluoride	5.00	U	5.24	5.19	105	104	1	80-120			1	15
Sulfate	50.0	0.143	51.8	51.5	103	103	1	80-120			0	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215194-1 05/02/17 07:05

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Chloride	U	0.0519	1.00	
Fluoride	U	0.0099	0.100	
Sulfate	U	0.0774	5.00	

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/02/17 15:29 • (DUP) R3215194-4 05/02/17 15:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Chloride	78.9	78.8	1	0	15	15
Fluoride	1.59	1.59	1	0	15	15
Sulfate	U	0.000	1	0	15	15

L905645-04 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-04 05/02/17 21:52 • (DUP) R3215194-6 05/02/17 22:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Fluoride	2.73	2.75	1	1	15	15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215194-2 05/02/17 07:22 • (LCSD) R3215194-3 05/02/17 07:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40.0	40.5	40.4	101	101	80-120		0	0	15
Fluoride	8.00	8.21	8.18	103	102	80-120		0	0	15
Sulfate	40.0	40.9	40.7	102	102	80-120		1	1	15

L905307-32 Original Sample (OS) • Matrix Spike (MS)

(OS) L905307-32 05/02/17 17:49 • (MS) R3215194-5 05/02/17 18:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	0.269	48.8	97	1	80-120	
Fluoride	5.00	U	4.97	99	1	80-120	
Sulfate	50.0	U	49.0	98	1	80-120	



L905602-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-11 05/02/17 23:02 • (MS) R3215194-8 05/03/17 00:12 • (MSD) R3215194-9 05/03/17 00:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Fluoride	5.00	2.36	6.24	6.30	78	79	1	80-120	J6	J6	1	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215820-1 05/04/17 06:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U	0.0519	1.00	

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/04/17 12:33 • (DUP) R3215820-4 05/04/17 13:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	74.0	81.0	10	9		15

L905831-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905831-01 05/04/17 21:33 • (DUP) R3215820-8 05/04/17 21:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.27	3.13	1	4		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215820-2 05/04/17 06:33 • (LCSD) R3215820-3 05/04/17 06:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.3	40.1	101	100	80-120		0		15

L905847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905847-01 05/04/17 15:44 • (MS) R3215820-6 05/04/17 16:37 • (MSD) R3215820-7 05/04/17 16:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.49	52.4	52.7	102	102	1	80-120		1		15



Method Blank (MB)

(MB) R3215049-1 05/02/17 15:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215049-2 05/02/17 15:27 • (LCSD) R3215049-3 05/02/17 15:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00287	0.00282	96	94	80-120			2	20

L905668-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-17 05/02/17 15:31 • (MS) R3215049-4 05/02/17 15:34 • (MSD) R3215049-5 05/02/17 15:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00270	0.00268	90	89	1	75-125		1	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215266-1 05/03/17 11:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000049	0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215266-2 05/03/17 11:31 • (LCSD) R3215266-3 05/03/17 11:33

Analyte	Spike Amount mg/l		LCSD Result mg/l		LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300		0.00302	0.00300	101	100	80-120			1	20

L905940-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905940-17 05/03/17 11:35 • (MS) R3215266-4 05/03/17 11:38 • (MSD) R3215266-5 05/03/17 11:40

Analyte	Spike Amount mg/l		Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300		ND	0.00309	0.00307	103	102	1	75-125		1	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3214900-1 05/02/17 04:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Arsenic,Dissolved	U	0.00025	0.00025	0.00200
Barium,Dissolved	U	0.00036	0.00036	0.00500
Cadmium,Dissolved	U	0.00016	0.00016	0.00100
Chromium,Dissolved	U	0.00054	0.00054	0.00200
Cobalt,Dissolved	U	0.00026	0.00026	0.00200
Iron,Dissolved	U	0.015	0.015	0.100
Lead,Dissolved	U	0.00024	0.00024	0.00200
Manganese,Dissolved	U	0.00025	0.00025	0.00500
Nickel,Dissolved	U	0.00035	0.00035	0.00200
Selenium,Dissolved	U	0.00038	0.00038	0.00200
Uranium,Dissolved	U	0.00033	0.00033	0.0100
Vanadium,Dissolved	U	0.00018	0.00018	0.00500

Method Blank (MB)

(MB) R3215029-1 05/02/17 14:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Boron,Dissolved	U	0.0015	0.0015	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214900-2 05/02/17 04:09 • (LCSD) R3214900-3 05/02/17 04:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0489	0.0477	98	95	80-120	2	2	2	20
Barium,Dissolved	0.0500	0.0498	0.0462	100	92	80-120	8	8	8	20
Cadmium,Dissolved	0.0500	0.0519	0.0502	104	100	80-120	3	3	3	20
Chromium,Dissolved	0.0500	0.0501	0.0475	100	95	80-120	5	5	5	20
Cobalt,Dissolved	0.0500	0.0518	0.0494	104	99	80-120	5	5	5	20
Iron,Dissolved	5.00	5.02	4.78	100	96	80-120	5	5	5	20
Lead,Dissolved	0.0500	0.0502	0.0491	100	98	80-120	2	2	2	20
Manganese,Dissolved	0.0500	0.0522	0.0462	104	92	80-120	12	12	12	20
Nickel,Dissolved	0.0500	0.0507	0.0488	101	98	80-120	4	4	4	20
Selenium,Dissolved	0.0500	0.0483	0.0488	97	98	80-120	1	1	1	20
Uranium,Dissolved	0.0500	0.0497	0.0484	99	97	80-120	3	3	3	20
Vanadium,Dissolved	0.0500	0.0498	0.0477	100	95	80-120	4	4	4	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215029-2 05/02/17 14:49 • (LCSD) R3215029-3 05/02/17 14:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Boron,Dissolved	0.0500	0.0443	0.0448	89	90	80-120			1	20

L905602-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-13 05/02/17 04:16 • (MS) R3214900-5 05/02/17 04:23 • (MSD) R3214900-6 05/02/17 04:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00247	0.0515	0.0505	98	96	1	75-125			2	20
Barium,Dissolved	0.0500	0.0124	0.0638	0.0628	103	101	1	75-125			1	20
Cadmium,Dissolved	0.0500	U	0.0511	0.0514	102	103	1	75-125			0	20
Chromium,Dissolved	0.0500	U	0.0489	0.0493	98	99	1	75-125			1	20
Cobalt,Dissolved	0.0500	0.00539	0.0551	0.0544	99	98	1	75-125			1	20
Iron,Dissolved	5.00	U	4.93	4.92	99	98	1	75-125			0	20
Lead,Dissolved	0.0500	U	0.0491	0.0505	98	101	1	75-125			3	20
Manganese,Dissolved	0.0500	0.131	0.182	0.182	102	102	1	75-125			0	20
Nickel,Dissolved	0.0500	0.00730	0.0558	0.0562	97	98	1	75-125			1	20
Selenium,Dissolved	0.0500	0.00193	0.0511	0.0518	98	100	1	75-125			1	20
Uranium,Dissolved	0.0500	0.0294	0.0820	0.0837	105	109	1	75-125			2	20
Vanadium,Dissolved	0.0500	0.0300	0.0800	0.0801	100	100	1	75-125			0	20



Method Blank (MB)

(MB) R3215702-1 05/04/17 17:34

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.0025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	0.314	J	0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215702-2 05/04/17 17:38 • (LCSD) R3215702-3 05/04/17 17:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	0.0489	0.0489	98	98	80-120			0	20
Barium	0.0500	0.0451	0.0452	90	90	80-120			0	20
Boron	0.0500	0.0450	0.0451	90	90	80-120			0	20
Cadmium	0.0500	0.0530	0.0533	106	107	80-120			1	20
Calcium	5.00	4.87	4.76	97	95	80-120			2	20
Chromium	0.0500	0.0520	0.0514	104	103	80-120			1	20
Cobalt	0.0500	0.0537	0.0534	107	107	80-120			1	20
Iron	5.00	5.15	5.06	103	101	80-120			2	20
Lead	0.0500	0.0492	0.0495	98	99	80-120			1	20
Manganese	0.0500	0.0480	0.0474	96	95	80-120			1	20
Nickel	0.0500	0.0532	0.0534	106	107	80-120			0	20
Potassium	5.00	4.99	4.88	100	98	80-120			2	20
Selenium	0.0500	0.0505	0.0525	101	105	80-120			4	20
Sodium	5.00	5.42	5.36	108	107	80-120			1	20
Uranium	0.0500	0.0498	0.0494	100	99	80-120			1	20
Vanadium	0.0500	0.0504	0.0503	101	101	80-120			0	20



L905602-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-01 05/04/17 17:46 • (MS) R3215702-5 05/04/17 17:53 • (MSD) R3215702-6 05/04/17 17:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00300	0.0516	0.0512	97	96	1	75-125			1	20
Barium	0.0500	0.0121	0.0615	0.0606	99	97	1	75-125			2	20
Boron	0.0500	0.216	0.260	0.258	89	85	1	75-125			1	20
Cadmium	0.0500	U	0.0497	0.0500	99	100	1	75-125			0	20
Calcium	5.00	484	494	484	193	0	1	75-125	<u>V</u>	<u>V</u>	2	20
Chromium	0.0500	0.000842	0.0493	0.0485	97	95	1	75-125			2	20
Cobalt	0.0500	0.00185	0.0513	0.0503	99	97	1	75-125			2	20
Potassium	5.00	5.11	9.87	9.75	95	93	1	75-125			1	20
Iron	5.00	0.0157	4.84	4.73	96	94	1	75-125			2	20
Lead	0.0500	U	0.0489	0.0489	98	98	1	75-125			0	20
Manganese	0.0500	0.507	0.573	0.558	131	102	1	75-125	<u>V</u>		3	20
Nickel	0.0500	0.00272	0.0500	0.0492	95	93	1	75-125			2	20
Selenium	0.0500	0.00254	0.0545	0.0548	104	105	1	75-125			0	20
Sodium	5.00	1480	1460	1450	0	0	1	75-125	<u>EV</u>	<u>EV</u>	0	20
Uranium	0.0500	0.00903	0.0617	0.0617	105	105	1	75-125			0	20
Vanadium	0.0500	0.0101	0.0598	0.0589	99	98	1	75-125			1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215819-3 04/30/17 19:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLCSD Qualifier
TPH (GC/FID) Low Fraction	U	0.0314	0.100	
(S) <i>α,α,α</i> -Trifluorotoluene(FID)	99.9		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215819-1 04/30/17 18:25 • (LCSD) R3215819-2 04/30/17 18:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.42	5.17	98.5	93.9	71.0-136			4.75	20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)				103	103	77.0-122				

L905602-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-03 04/30/17 21:14 • (MS) R3215819-4 04/30/17 20:02 • (MSD) R3215819-5 04/30/17 20:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.585	2.84	2.81	41.0	40.4	1	18.0-160		1.24	20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)					97.3	97.9		77.0-122			



Method Blank (MB)

(MB) R3216097-3 05/01/17 21:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Tetrachloroethene	U		0.000372	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
Toluene	U		0.000412	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
Trichloroethene	U		0.000398	0.00100



Method Blank (MB)

(MB) R3216097-3 05/01/17 21:47

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	103		80.0-120	
(S) Dibromofluoromethane	102		76.0-123	
(S) 4-Bromofluorobenzene	98.0		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216097-1 05/01/17 20:43 • (LCSD) R3216097-2 05/01/17 21:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.102	0.107	81.5	85.3	10.0-160			4.61	23
Benzene	0.0250	0.0229	0.0204	91.4	81.5	69.0-123			11.5	20
Bromodichloromethane	0.0250	0.0238	0.0210	95.1	84.2	76.0-120			12.2	20
Bromoform	0.0250	0.0211	0.0190	84.3	76.1	67.0-132			10.3	20
Bromomethane	0.0250	0.0213	0.0222	85.2	89.0	18.0-160			4.29	20
n-Butylbenzene	0.0250	0.0215	0.0197	85.8	78.8	72.0-126			8.54	20
sec-Butylbenzene	0.0250	0.0220	0.0202	87.9	81.0	74.0-121			8.20	20
Carbon disulfide	0.0250	0.0256	0.0224	103	89.8	55.0-127			13.3	20
Carbon tetrachloride	0.0250	0.0193	0.0190	77.2	76.1	63.0-122			1.53	20
Chlorobenzene	0.0250	0.0231	0.0214	92.4	85.6	79.0-121			7.72	20
Chlorodibromomethane	0.0250	0.0209	0.0196	83.6	78.4	75.0-125			6.39	20
Chloroethane	0.0250	0.0204	0.0196	81.6	78.3	47.0-152			4.09	20
Chloroform	0.0250	0.0242	0.0217	96.6	86.7	72.0-121			10.9	20
Chloromethane	0.0250	0.0353	0.0304	141	122	48.0-139	J4		15.0	20
1,2-Dibromoethane	0.0250	0.0222	0.0196	88.8	78.6	77.0-123			12.2	20
1,1-Dichloroethane	0.0250	0.0233	0.0204	93.4	81.6	70.0-126			13.4	20
1,2-Dichloroethane	0.0250	0.0246	0.0218	98.3	87.1	67.0-126			12.1	20
1,1-Dichloroethene	0.0250	0.0255	0.0209	102	83.8	64.0-129			19.5	20
cis-1,2-Dichloroethene	0.0250	0.0235	0.0199	94.1	79.5	73.0-120			16.8	20
trans-1,2-Dichloroethene	0.0250	0.0229	0.0207	91.6	82.8	71.0-121			10.1	20
1,2-Dichloropropane	0.0250	0.0233	0.0207	93.1	82.7	75.0-125			11.8	20
cis-1,3-Dichloropropene	0.0250	0.0218	0.0194	87.1	77.7	79.0-123	J4		11.5	20
trans-1,3-Dichloropropene	0.0250	0.0213	0.0190	85.4	76.0	74.0-127			11.6	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216097-1 05/01/17 20:43 • (LCSD) R3216097-2 05/01/17 21:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
							%		%		%	
Ethylbenzene	0.0250	0.0234	0.0208	93.6	83.1	77.0-120					11.9	
2-Hexanone	0.125	0.0982	ND	78.6	0.000	58.0-147			<u>J3 J4</u>		200	
Isopropylbenzene	0.0250	0.0233	0.0214	93.1	85.5	75.0-120					8.54	
p-Isopropyltoluene	0.0250	0.0217	0.0204	86.9	81.4	74.0-126					6.43	
2-Butanone (MEK)	0.125	0.0801	0.0720	64.1	57.6	37.0-158					10.7	
Methylene Chloride	0.0250	0.0224	0.0201	89.8	80.2	66.0-121					11.2	
4-Methyl-2-pentanone (MIBK)	0.125	0.107	0.0880	85.6	70.4	59.0-143					19.5	
Methyl tert-butyl ether	0.0250	0.0215	0.0189	85.8	75.6	64.0-123					12.7	
Naphthalene	0.0250	0.0172	0.0146	68.9	58.4	62.0-128			<u>J4</u>		16.5	
n-Propylbenzene	0.0250	0.0232	0.0210	92.7	84.2	79.0-120					9.64	
Styrene	0.0250	0.0226	0.0201	90.4	80.3	78.0-124					11.8	
1,1,1,2-Tetrachloroethane	0.0250	0.0215	0.0202	86.1	81.0	75.0-122					6.15	
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0190	88.1	75.8	71.0-122					15.0	
Tetrachloroethene	0.0250	0.0263	0.0226	105	90.6	70.0-127					14.8	
Toluene	0.0250	0.0248	0.0214	99.0	85.7	77.0-120					14.4	
1,1,1-Trichloroethane	0.0250	0.0261	0.0222	104	89.0	68.0-122					15.8	
1,1,2-Trichloroethane	0.0250	0.0219	0.0194	87.6	77.6	78.0-120			<u>J4</u>		12.1	
Trichloroethene	0.0250	0.0259	0.0226	104	90.3	78.0-120					13.7	
1,2,4-Trimethylbenzene	0.0250	0.0219	0.0201	87.8	80.6	75.0-120					8.57	
1,3,5-Trimethylbenzene	0.0250	0.0225	0.0204	89.9	81.8	75.0-120					9.40	
Vinyl chloride	0.0250	0.0248	0.0207	99.3	82.7	64.0-133					18.3	
Xylenes, Total	0.0750	0.0680	0.0617	90.7	82.3	77.0-120					9.71	
o-Xylene	0.0250	0.0223	0.0205	89.1	81.9	78.0-120					8.40	
m&p-Xylenes	0.0500	0.0457	0.0412	91.5	82.3	77.0-120					10.6	
(S) Toluene-d8				103	101	80.0-120						
(S) Dibromofluoromethane				98.9	99.3	76.0-123						
(S) 4-Bromofluorobenzene				100	101	80.0-120						



Method Blank (MB)

(MB) R3216547-3 05/02/17 11:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3216547-3 05/02/17 11:07

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	93.4		80.0-120	
(S) Dibromofluoromethane	80.5		76.0-123	
(S) 4-Bromofluorobenzene	96.9		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216547-1 05/02/17 09:39 • (LCSD) R3216547-2 05/02/17 09:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.108	0.103	86.1	82.7	10.0-160			4.04	23
Benzene	0.0250	0.0216	0.0211	86.2	84.2	69.0-123			2.34	20
Bromodichloromethane	0.0250	0.0242	0.0242	96.6	96.8	76.0-120			0.190	20
Bromoform	0.0250	0.0251	0.0264	100	106	67.0-132			5.19	20
Bromomethane	0.0250	0.0215	0.0202	86.2	80.8	18.0-160			6.45	20
n-Butylbenzene	0.0250	0.0247	0.0249	98.9	99.4	72.0-126			0.470	20
sec-Butylbenzene	0.0250	0.0242	0.0237	97.0	94.9	74.0-121			2.16	20
Carbon disulfide	0.0250	0.0215	0.0202	86.1	81.0	55.0-127			6.15	20
Carbon tetrachloride	0.0250	0.0224	0.0212	89.7	84.9	63.0-122			5.48	20
Chlorobenzene	0.0250	0.0246	0.0255	98.6	102	79.0-121			3.56	20
Chlorodibromomethane	0.0250	0.0246	0.0256	98.2	103	75.0-125			4.27	20
Chloroethane	0.0250	0.0222	0.0207	88.9	82.7	47.0-152			7.23	20
Chloroform	0.0250	0.0219	0.0209	87.7	83.6	72.0-121			4.82	20
Chloromethane	0.0250	0.0238	0.0221	95.1	88.2	48.0-139			7.53	20
1,2-Dibromoethane	0.0250	0.0240	0.0260	96.1	104	77.0-123			7.82	20
1,1-Dichloroethane	0.0250	0.0216	0.0205	86.3	81.9	70.0-126			5.18	20
1,2-Dichloroethane	0.0250	0.0221	0.0218	88.2	87.1	67.0-126			1.33	20
1,1-Dichloroethene	0.0250	0.0221	0.0209	88.4	83.6	64.0-129			5.60	20
cis-1,2-Dichloroethene	0.0250	0.0217	0.0205	86.9	82.0	73.0-120			5.84	20
trans-1,2-Dichloroethene	0.0250	0.0219	0.0204	87.5	81.6	71.0-121			7.02	20
1,2-Dichloropropane	0.0250	0.0239	0.0242	95.5	96.8	75.0-125			1.29	20
cis-1,3-Dichloropropene	0.0250	0.0249	0.0263	99.6	105	79.0-123			5.48	20
trans-1,3-Dichloropropene	0.0250	0.0242	0.0267	96.8	107	74.0-127			9.89	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216547-1 05/02/17 09:39 • (LCSD) R3216547-2 05/02/17 09:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>		<u>LCSD Qualifier</u>		RPD Limits	
							%		%		%	
Ethylbenzene	0.0250	0.0250	0.0253	100	101	77.0-120					20	
2-Hexanone	0.125	0.103	0.114	82.2	91.4	58.0-147					20	
Isopropylbenzene	0.0250	0.0256	0.0250	102	100	75.0-120					20	
p-Isopropyltoluene	0.0250	0.0243	0.0238	97.1	95.3	74.0-126					20	
2-Butanone (MEK)	0.125	0.129	0.133	103	106	37.0-158					20	
Methylene Chloride	0.0250	0.0220	0.0206	88.0	82.2	66.0-121					20	
4-Methyl-2-pentanone (MIBK)	0.125	0.117	0.123	93.4	98.4	59.0-143					20	
Methyl tert-butyl ether	0.0250	0.0224	0.0212	89.6	84.8	64.0-123					20	
Naphthalene	0.0250	0.0240	0.0243	96.1	97.3	62.0-128					20	
n-Propylbenzene	0.0250	0.0248	0.0250	99.0	99.8	79.0-120					20	
Styrene	0.0250	0.0256	0.0268	103	107	78.0-124					20	
1,1,1,2-Tetrachloroethane	0.0250	0.0248	0.0240	99.3	95.9	75.0-122					20	
1,1,2,2-Tetrachloroethane	0.0250	0.0235	0.0240	94.0	96.1	71.0-122					20	
Tetrachloroethene	0.0250	0.0255	0.0259	102	104	70.0-127					20	
Toluene	0.0250	0.0245	0.0250	97.8	100	77.0-120					20	
1,1,1-Trichloroethane	0.0250	0.0221	0.0209	88.4	83.7	68.0-122					20	
1,1,2-Trichloroethane	0.0250	0.0236	0.0251	94.2	100	78.0-120					20	
Trichloroethene	0.0250	0.0251	0.0246	100	98.4	78.0-120					20	
1,2,4-Trimethylbenzene	0.0250	0.0247	0.0243	98.7	97.2	75.0-120					20	
1,3,5-Trimethylbenzene	0.0250	0.0250	0.0245	99.9	98.0	75.0-120					20	
Vinyl chloride	0.0250	0.0248	0.0231	99.1	92.3	64.0-133					20	
Xylenes, Total	0.0750	0.0749	0.0755	99.9	101	77.0-120					20	
o-Xylene	0.0250	0.0250	0.0247	100	99.0	78.0-120					20	
m&p-Xylenes	0.0500	0.0499	0.0508	99.8	102	77.0-120					20	
(S) Toluene-d8				92.7	93.5	80.0-120						
(S) Dibromofluoromethane				84.0	80.1	76.0-123						
(S) 4-Bromofluorobenzene				87.8	92.6	80.0-120						



Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	105		80.0-120	
(S) Dibromofluoromethane	108		76.0-123	
(S) 4-Bromofluorobenzene	92.1		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.171	0.171	137	137	10.0-160			0.310	23
Benzene	0.0250	0.0236	0.0236	94.6	94.5	69.0-123			0.0300	20
Bromodichloromethane	0.0250	0.0237	0.0239	94.7	95.6	76.0-120			0.930	20
Bromoform	0.0250	0.0228	0.0231	91.3	92.5	67.0-132			1.24	20
Bromomethane	0.0250	0.0366	0.0359	147	144	18.0-160			2.00	20
n-Butylbenzene	0.0250	0.0244	0.0246	97.7	98.5	72.0-126			0.810	20
sec-Butylbenzene	0.0250	0.0248	0.0251	99.2	100	74.0-121			1.07	20
Carbon disulfide	0.0250	0.0215	0.0218	86.0	87.3	55.0-127			1.47	20
Carbon tetrachloride	0.0250	0.0245	0.0250	98.0	99.9	63.0-122			1.89	20
Chlorobenzene	0.0250	0.0221	0.0224	88.3	89.5	79.0-121			1.42	20
Chlorodibromomethane	0.0250	0.0219	0.0222	87.4	88.7	75.0-125			1.47	20
Chloroethane	0.0250	0.0307	0.0323	123	129	47.0-152			5.13	20
Chloroform	0.0250	0.0235	0.0233	93.8	93.3	72.0-121			0.530	20
Chloromethane	0.0250	0.0238	0.0242	95.4	96.9	48.0-139			1.56	20
1,2-Dibromoethane	0.0250	0.0217	0.0221	86.9	88.3	77.0-123			1.53	20
1,1-Dichloroethane	0.0250	0.0235	0.0237	93.9	94.9	70.0-126			1.11	20
1,2-Dichloroethane	0.0250	0.0220	0.0220	88.0	87.9	67.0-126			0.170	20
1,1-Dichloroethene	0.0250	0.0223	0.0228	89.1	91.0	64.0-129			2.17	20
cis-1,2-Dichloroethene	0.0250	0.0229	0.0230	91.6	92.0	73.0-120			0.420	20
trans-1,2-Dichloroethene	0.0250	0.0266	0.0272	106	109	71.0-121			2.38	20
1,2-Dichloropropane	0.0250	0.0224	0.0225	89.4	90.0	75.0-125			0.620	20
cis-1,3-Dichloropropene	0.0250	0.0216	0.0215	86.3	86.0	79.0-123			0.350	20
trans-1,3-Dichloropropene	0.0250	0.0203	0.0203	81.3	81.0	74.0-127			0.350	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
							%		%		%	
Ethylbenzene	0.0250	0.0223	0.0225	89.1	90.1	77.0-120					1.18	
2-Hexanone	0.125	0.121	0.120	97.1	95.7	58.0-147					1.48	
Isopropylbenzene	0.0250	0.0232	0.0235	92.9	94.2	75.0-120					1.40	
p-Isopropyltoluene	0.0250	0.0246	0.0251	98.5	100	74.0-126					1.74	
2-Butanone (MEK)	0.125	0.120	0.120	95.7	96.1	37.0-158					0.360	
Methylene Chloride	0.0250	0.0290	0.0291	116	116	66.0-121					0.220	
4-Methyl-2-pentanone (MIBK)	0.125	0.113	0.112	90.2	89.4	59.0-143					0.890	
Methyl tert-butyl ether	0.0250	0.0258	0.0269	103	107	64.0-123					4.12	
Naphthalene	0.0250	0.0205	0.0208	81.9	83.2	62.0-128					1.56	
n-Propylbenzene	0.0250	0.0237	0.0241	94.8	96.2	79.0-120					1.48	
Styrene	0.0250	0.0213	0.0216	85.2	86.2	78.0-124					1.11	
1,1,1,2-Tetrachloroethane	0.0250	0.0241	0.0242	96.3	96.7	75.0-122					0.450	
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0227	88.1	90.9	71.0-122					3.06	
Tetrachloroethene	0.0250	0.0224	0.0228	89.8	91.4	70.0-127					1.77	
Toluene	0.0250	0.0226	0.0224	90.4	89.7	77.0-120					0.770	
1,1,1-Trichloroethane	0.0250	0.0244	0.0240	97.4	95.9	68.0-122					1.56	
1,1,2-Trichloroethane	0.0250	0.0221	0.0218	88.4	87.2	78.0-120					1.35	
Trichloroethene	0.0250	0.0246	0.0243	98.5	97.2	78.0-120					1.40	
1,2,4-Trimethylbenzene	0.0250	0.0228	0.0230	91.1	92.1	75.0-120					1.06	
1,3,5-Trimethylbenzene	0.0250	0.0235	0.0239	94.0	95.7	75.0-120					1.75	
Vinyl chloride	0.0250	0.0268	0.0278	107	111	64.0-133					3.68	
Xylenes, Total	0.0750	0.0667	0.0680	88.9	90.7	77.0-120					1.93	
o-Xylene	0.0250	0.0223	0.0228	89.3	91.1	78.0-120					1.93	
m&p-Xylenes	0.0500	0.0444	0.0452	88.9	90.5	77.0-120					1.77	
(S) Toluene-d8				103	102	80.0-120						
(S) Dibromofluoromethane				105	106	76.0-123						
(S) 4-Bromofluorobenzene				95.8	96.7	80.0-120						



Method Blank (MB)

(MB) R3215970-1 05/05/17 13:02

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
TPH (GC/FID) High Fraction	U	0.0247	0.100	
(S) o-Terphenyl	61.1		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215970-2 05/05/17 13:18 • (LCSD) R3215970-3 05/05/17 13:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.57	1.62	105	108	50.0-150		3.23	20	
(S) o-Terphenyl				68.1	69.5	31.0-160				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

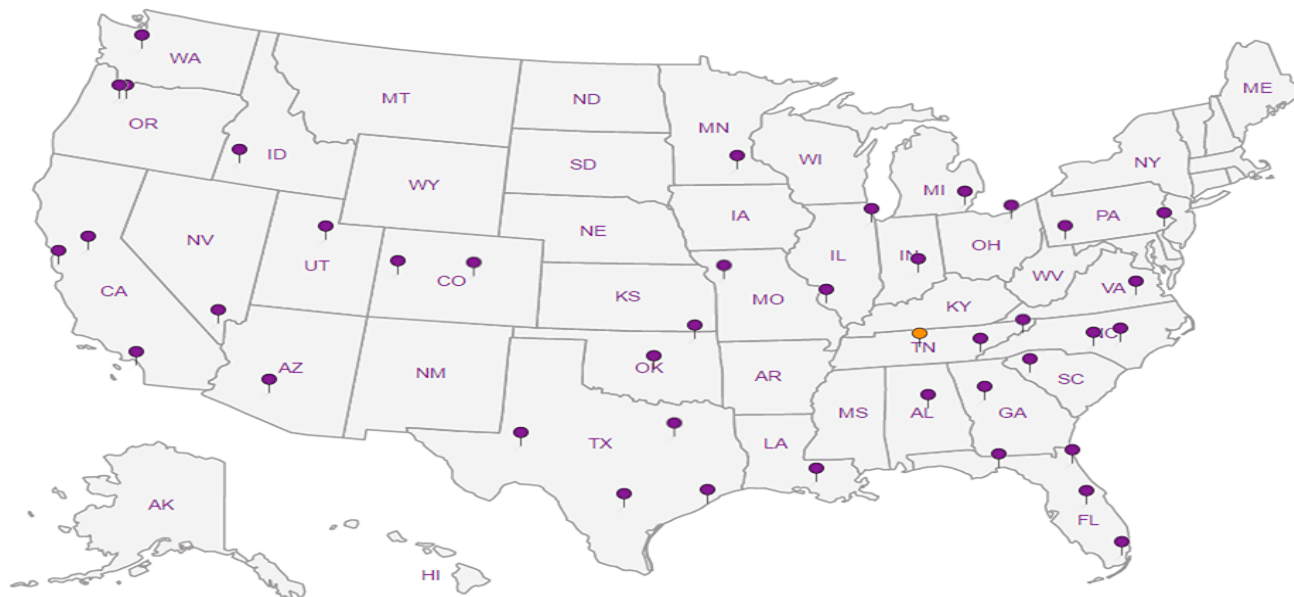
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Chain of Custody

Analysis / Container / Preservative

Billing Information:

Company Name/Address:

TRC Solutions - Austin, TX

505 E. Huntland Dr, Ste 250

Austin, TX 78752

Accounts Payable

21 Griffin Road North

Windsor, CT 06095

Email To:

jspeer@trcsolutions.com

City/State NM

Lab Project #

P.O. #

Date Results Needed

Email? No ☒ Yes

FAX? No ☐ Yes

No. of

Cnts

Sample ID

Comp/Grab

Matrix *

Depth

Site/Facility ID #

TMD (Navajo - Artesia)

Rush? (Lab MUST Be Notified)

Same Day 200%

Next Day 100%

Two Day 50%

Three Day 25%

Collected by (print):

Scott Ude/HMI Team

Collected by (signature):

Scott Ude

Immediately

Packed on Ice N ☐ Y ☒

Phone: 512-684-3170

Fax:

Client Project #

City/State NM

Lab Project #

P.O. #

Date Results Needed

Email? No ☒ Yes

FAX? No ☐ Yes

No. of

Cnts

Sample ID

Comp/Grab

Matrix *

Depth

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P.O. #

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FAX? No ☐ Yes

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Depth

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FAX? No ☐ Yes

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Depth

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Same Day 200%

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P.O. #

Date Results Needed

Email? No ☒ Yes

FAX? No ☐ Yes

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Cnts

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Comp/Grab

Matrix *

Depth

Site/Facility ID #

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Immediately

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Fax:

Client Project #

City/State NM

Lab Project #

P.O. #

Date Results Needed

Email? No ☒ Yes

FAX? No ☐ Yes

No. of

Cnts

Sample ID

Comp/Grab

Matrix *

Depth

Site/Facility ID #

TMD (Navajo - Artesia)

Rush? (Lab MUST Be Notified)

Same Day 200%

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Phone: 512-684-3170

Fax:

Client Project #

City/State NM

Lab Project #

P.O. #

Date Results Needed

Email? No ☒ Yes

FAX? No ☐ Yes

No. of

Cnts

Sample ID

Comp/Grab

Matrix *

Depth

Site/Facility ID #

TMD (Navajo - Artesia)

Rush? (Lab MUST Be Notified)

Same Day 200%

Next Day 100%

Two Day 50%

Three Day 25%

Collected by (print):

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Collected by (signature):

Scott Ude

Immediately

Packed on Ice N ☐ Y ☒

Phone: 512-684-3170

Fax:

Client Project #

City/State NM

Lab Project #

P.O. #

Date Results Needed

Email? No ☒ Yes

FAX? No ☐ Yes

No. of

Cnts

Sample ID

Comp/Grab

Matrix *

Depth

Site/Facility ID #

TMD (Navajo - Artesia)

Rush? (Lab MUST Be Notified)

Same Day 200%

Next Day 100%

Two Day 50%

Three Day 25%

Collected by (print):

Scott Ude/HMI Team

Collected by (signature):

Scott Ude

Immediately

Packed on Ice N ☐ Y ☒

Phone: 512-684-3170

Fax:

Client Project #

City/State NM

Lab Project #

P.O. #

Date Results Needed

Email? No ☒ Yes

FAX? No ☐ Yes

No. of

Cnts

Sample ID

Comp/Grab

Matrix *

Depth

Site/Facility ID #

TMD (Navajo - Artesia)

Rush? (Lab MUST Be Notified)

[illegible]

[illegible]

TRC Solutions - Austin, TX

505 E. Huntland Dr, Ste 250
Austin, TX 78752Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:

Julie Speer

Email To:

jspeer@trcsolutions.com

Project

TMD Spring 2017

Description:

Phone: 512-684-3170

Fax:

Client Project #

City/State
Collected:

NM

Lab Project #

+

Collected by (print):

Scott Ude/HMI Team

Site/Facility ID #

TMD (Navajo - Artesia)

Collected by (signature):

Scott Ude

Rush? (Lab MUST Be Notified)

Same Day 200%

Next Day 100%

Two Day 50%

Three Day 25%

Date Results Needed

P.O. # 107027

Email? No ☒ YesFAX? No ☐ Yes

No.

of

Cntrs

Date

Time

VOC

X

DRO

X

GRO

X

Short List Metals (Total & Dissolved)

X

Cations (from "total metals" bottle)

X

Anions

X

NO2NO3, TDS

X

Long List Metals (Total & Dissolved)

X

Cyanide

X

Shipped Via:

Sample # (lab only)

12

TSR: Chris McCord

Cooler:

Template:

Accnum: TRCATX

Table #

L# 1905602

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859

YOUR LAB OF CHOICE

L-A-B S-C-I-E-N-C-E-S

ESC

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

L-A-B S-C-I-E-N-C-E-S

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature)

Scott Ude

Date:

4/27/17

Time:

0800

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received for lab by: (Signature)

Date:

Date:

Time:

Time:

Temp: 26

Temp: 26

°C

°C

Bottles Received:

Bottles Received:

Condition:

Condition:

Hold #

Hold #

COC Seal Intact:

COC Seal Intact:

pH Checked:

pH Checked:

NCF:

NCF:



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Fax: 615-758-5859

L# 1905602

Table #

Account: TRCATX

Template:

Prelogin: **Chris McCord**

Shipped Via:

Rem / Contaminant

Sample # (lab only) 13

Billing Information:

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Email To: speer@trcwsolutions.com

City/State Collected: **NM**

Lab Project #

P.O. # 107027

Date Results Needed

Email? No Yes FAX? No Yes

No. of Cntrs

Date

Time

Depth

Matrix *

Comp/Grab

Sample ID

MW-46R

Grab

Grab

Grab

Grab

Grab

Grab

Company Name/Address:

TRC Solutions - Austin, TX

505 E. Huntland Dr, Ste 250

Austin, TX 78752

Report to:

Julie Speer

Project

TMD Spring 2017

Phone: 512-684-3170

Fax:

Client Project #

Site/Facility ID #

Collected by (print):

Scott Ude/HMI Team

Collected by (signature):

Scott Ude

Immediately Packed on Ice N Y ✓

Same Day 200%

Next Day 100%

Two Day 50%

Three Day 25%

Rush? (Lab MUST Be Notified)

Long List Metals (Total & Dissolved)

Cyanide

Short List Metals (Total & Dissolved)

Cations (from "total metals" bottle)

Anions

NO2NO3, TDS

GRO

DRO

VOC

X

X

X

X

X

pH

Temp

Flow

Other

Samples returned via: ☐ UPS

☒ FedEx ☐ Courier

Temp: 26 °C Bottles Received:

Date: 4-28-17 Time: 845

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Hold #

Condition:

(lab use only)

COC Seal Intact: Y N NA

pH Checked: NCF:

Matrix: **SS - Soil GW - Groundwater** **WW - WasteWater** **DW - Drinking Water** **OT - Other**

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date: 4/27/17 Time: 1500

Date: 4/27/17 Time: 1500

Date: 4/27/17 Time: 1500

Company Name/Address:

TRC Solutions - Austin, TX

505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:

Julie Speer

Email To:

jspeer@trcsolutions.com

Project

TMD Spring 2017

Description:

City/State
Collected: NM

Phone: 512-684-3170

Fax:

Client Project #

Collected by (print):

Scott Ude/HMI Team

Collected by (signature):

Scott Ude

Immediately

Packed on Ice N ☒ Y ☐

Site/Facility ID #

TMD (Navajo - Artesia)

Date Results Needed

107027

Rush? (Lab MUST Be Notified)

Same Day200%
Next Day100%
Two Day50%
Three Day25%

Email? ☒ No ☐ Yes

FAX? ☐ No ☐ Yes

Sample ID

Trip Blank-TMD-01

Comp/Grab

Grab

Matrix *

GW

Depth

4/24/17

Date

Time

No. of

Conrs

VOC

X

DRO

GRO

Short List Metals (Total & Dissolved)

Cations (from "total metals" bottle)

Anions

NO2NO3, TDS

Long List Metals (Total & Dissolved)

Cyanide

Shipped Via:

Rein./Contaminant

Sample # (lab only)

14

Table #

Accnum:TRCATX

Template:

Prelogn:

TSR: Chris McCord

Cooler:

Analysis / Container / Preservative

Chain of Custody

Page 28 of 28



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 1905602

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by : (Signature)

Scott Ude

Date:

4/27/17

Received by: (Signature)

Scott Ude

Time:

0800

Relinquished by : (Signature)

Date:

Received by: (Signature)

Time:

Relinquished by : (Signature)

Date:

Received for lab by: (Signature)

Scott Ude

Time:

pH Temp

Flow Other

Samples returned via: ☐ UPS

☒ FedEx ☐ Courier ☐

Temp: 2.4 °C Bottles Received:

97

Date: 4-28-17

Time: 845

Hold #

Condition:

(lab use only)

COC Seal Intact:

Y N NA

pH Checked:

NCF:

ESC LAB SCIENCES Cooler Receipt Form

Client: <u>ISCCATY</u>	SDG# <u>1905602</u>		
Cooler Received/Opened On: <u>4/ 28 /17</u>	Temperature: <u>2.6</u>		
Received By: MICHAEL Witherspoon			
Signature: <u>MWT</u>			
Receipt Check List			
	NP	Yes	No
COC Seal Present / Intact?			
COC Signed / Accurate?			
Bottles arrive intact?			
Correct bottles used?			
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

TRC Solutions - Austin, TX

Sample Delivery Group: L905645
Samples Received: 04/28/2017
Project Number: 249545.0000.0000 000
Description: TEL Spring 2017
Site: TEL - NAVAJO-ARTESIA
Report To: Julie Speer
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Entire Report Reviewed By:



Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



TEL-4 L905645-01 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:55

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:41	05/02/17 14:41	DR
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 19:33	05/02/17 19:33	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 19:51	05/02/17 19:51	KCF
Wet Chemistry by Method 9056A	WG976223	50	05/04/17 11:41	05/04/17 11:41	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:01	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:53	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:51	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:21	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/05/17 11:18	05/05/17 11:18	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975531	10	05/02/17 09:20	05/02/17 09:20	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	1	05/03/17 00:21	05/05/17 03:42	TRF

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

TEL-3 L905645-02 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 11:50

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:42	05/02/17 14:42	DR
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 20:43	05/02/17 20:43	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 21:00	05/02/17 21:00	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:22	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:57	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:54	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:24	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/05/17 11:40	05/05/17 11:40	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975531	1	05/02/17 09:43	05/02/17 09:43	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	1	05/03/17 00:21	05/05/17 03:59	TRF

TEL-2 L905645-03 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:45

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:43	05/02/17 14:43	DR
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 21:18	05/02/17 21:18	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 21:35	05/02/17 21:35	KCF
Wet Chemistry by Method 9056A	WG976223	10	05/04/17 11:58	05/04/17 11:58	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:25	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 20:00	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:58	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:39	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/05/17 12:02	05/05/17 12:02	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975531	10	05/02/17 10:07	05/02/17 10:07	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	5	05/03/17 00:21	05/05/17 15:29	DMG

TEL-1 L905645-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 08:55

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 15:00	05/03/17 15:00	DR

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



TEL-1 L905645-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 08:55

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 21:52	05/02/17 21:52	KCF
Wet Chemistry by Method 9056A	WG976223	50	05/04/17 12:15	05/04/17 12:15	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:29	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 20:04	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 03:02	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:42	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	04/30/17 23:40	04/30/17 23:40	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975531	1	05/02/17 10:30	05/02/17 10:30	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	2	05/03/17 00:21	05/05/17 15:13	DMG

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

DUP-TEL-01 L905645-05 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 11:00

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 15:01	05/03/17 15:01	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 12:24	05/04/17 12:24	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 12:39	05/04/17 12:39	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:32	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 20:07	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 03:05	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:45	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/05/17 12:24	05/05/17 12:24	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/08/17 02:56	05/08/17 02:56	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	1	05/03/17 00:21	05/05/17 04:49	TRF

EB-TEL-01 L905645-06 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 12:05

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 15:02	05/03/17 15:02	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 12:55	05/04/17 12:55	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:36	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 20:11	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 03:09	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:49	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 00:29	05/01/17 00:29	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 18:55	05/02/17 18:55	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	1	05/03/17 00:21	05/05/17 05:06	TRF

TRIP BLANK-TEL-01 L905645-07 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 00:00

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 18:41	05/02/17 18:41	JHH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-49 L905645-08 GW

Collected by
Scott Ude-HMI TeamCollected date/time
04/27/17 10:30Received date/time
04/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 15:03	05/03/17 15:03	DR
Wet Chemistry by Method 4500CN E-2011	WG975885	50	05/03/17 09:09	05/03/17 13:40	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 13:26	05/04/17 13:26	SAM
Wet Chemistry by Method 9056A	WG976555	10	05/04/17 13:41	05/04/17 13:41	SAM
Mercury by Method 7470A	WG975644	1	05/02/17 11:20	05/03/17 11:45	TRB
Mercury by Method 7470A	WG975835	1	05/02/17 14:13	05/03/17 10:45	TRB
Metals (ICPMS) by Method 6020	WG975340	1	05/02/17 14:58	05/02/17 18:39	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:09	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 21:40	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975393	1	05/01/17 13:58	05/01/17 13:58	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	10	05/02/17 22:15	05/02/17 22:15	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	1	05/03/17 00:21	05/05/17 05:23	TRF

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545.0000.0000 000

SDG:

L905645

DATE/TIME:

05/11/17 14:55

PAGE:

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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	6520		2.82	10.0	1	05/03/2017 13:18	WG975907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.404	J	0.197	1.00	10	05/02/2017 14:41	WG975587

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	442		2.60	50.0	50	05/04/2017 11:41	WG976223
Fluoride	1.36		0.00990	0.100	1	05/02/2017 19:33	WG975534
Sulfate	2680		7.74	500	100	05/02/2017 19:51	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00723		0.000250	0.00200	1	05/04/2017 19:53	WG975081
Arsenic,Dissolved	0.00660		0.000250	0.00200	1	05/05/2017 02:01	WG975071
Barium	0.0185		0.000360	0.00500	1	05/04/2017 19:53	WG975081
Barium,Dissolved	0.0188		0.000360	0.00500	1	05/05/2017 02:01	WG975071
Calcium	432		0.0460	1.00	1	05/04/2017 19:53	WG975081
Chromium	0.790		0.000540	0.00200	1	05/04/2017 19:53	WG975081
Chromium,Dissolved	0.0114		0.000540	0.00200	1	05/05/2017 02:01	WG975071
Iron	1.45		0.0150	0.100	1	05/04/2017 19:53	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:01	WG975071
Lead	0.00173	J	0.000240	0.00200	1	05/05/2017 12:21	WG975081
Lead,Dissolved	0.000416	J	0.000240	0.00200	1	05/05/2017 02:01	WG975071
Manganese	0.973		0.000250	0.00500	1	05/04/2017 19:53	WG975081
Manganese,Dissolved	1.04		0.000250	0.00500	1	05/05/2017 02:01	WG975071
Potassium	0.587	J	0.0370	1.00	1	05/04/2017 19:53	WG975081
Selenium	0.000535	J	0.000380	0.00200	1	05/05/2017 02:51	WG975081
Selenium,Dissolved	0.000623	J	0.000380	0.00200	1	05/05/2017 02:01	WG975071
Sodium	542		0.110	1.00	1	05/04/2017 19:53	WG975081

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.25		0.0314	0.100	1	05/05/2017 11:18	WG975302
(S) a,a,a-Trifluorotoluene(FID) 96.5				77.0-122		05/05/2017 11:18	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.100	0.500	10	05/02/2017 09:20	WG975531
Benzene	0.0595		0.00331	0.0100	10	05/02/2017 09:20	WG975531
Bromodichloromethane	U		0.00380	0.0100	10	05/02/2017 09:20	WG975531
Bromoform	U		0.00469	0.0100	10	05/02/2017 09:20	WG975531
Bromomethane	U		0.00866	0.0500	10	05/02/2017 09:20	WG975531
n-Butylbenzene	U		0.00361	0.0100	10	05/02/2017 09:20	WG975531
sec-Butylbenzene	0.00766	J	0.00365	0.0100	10	05/02/2017 09:20	WG975531
Carbon disulfide	U		0.00275	0.0100	10	05/02/2017 09:20	WG975531
Carbon tetrachloride	U		0.00379	0.0100	10	05/02/2017 09:20	WG975531



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.00348	0.0100	10	05/02/2017 09:20	WG975531
Chlorodibromomethane	U		0.00327	0.0100	10	05/02/2017 09:20	WG975531
Chloroethane	U		0.00453	0.0500	10	05/02/2017 09:20	WG975531
Chloroform	U		0.00324	0.0500	10	05/02/2017 09:20	WG975531
Chloromethane	U		0.00276	0.0250	10	05/02/2017 09:20	WG975531
1,2-Dibromoethane	U		0.00381	0.0100	10	05/02/2017 09:20	WG975531
1,1-Dichloroethane	U		0.00259	0.0100	10	05/02/2017 09:20	WG975531
1,2-Dichloroethane	U		0.00361	0.0100	10	05/02/2017 09:20	WG975531
1,1-Dichloroethene	U		0.00398	0.0100	10	05/02/2017 09:20	WG975531
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/02/2017 09:20	WG975531
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/02/2017 09:20	WG975531
1,2-Dichloropropane	U		0.00306	0.0100	10	05/02/2017 09:20	WG975531
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/02/2017 09:20	WG975531
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/02/2017 09:20	WG975531
Ethylbenzene	U		0.00384	0.0100	10	05/02/2017 09:20	WG975531
Isopropylbenzene	0.0344		0.00326	0.0100	10	05/02/2017 09:20	WG975531
p-Isopropyltoluene	U		0.00350	0.0100	10	05/02/2017 09:20	WG975531
2-Butanone (MEK)	U		0.0393	0.100	10	05/02/2017 09:20	WG975531
2-Hexanone	U		0.0382	0.100	10	05/02/2017 09:20	WG975531
Methylene Chloride	U		0.0100	0.0500	10	05/02/2017 09:20	WG975531
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/02/2017 09:20	WG975531
Methyl tert-butyl ether	0.0522		0.00367	0.0100	10	05/02/2017 09:20	WG975531
Naphthalene	U		0.0100	0.0500	10	05/02/2017 09:20	WG975531
n-Propylbenzene	0.0423		0.00349	0.0100	10	05/02/2017 09:20	WG975531
Styrene	U		0.00307	0.0100	10	05/02/2017 09:20	WG975531
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/02/2017 09:20	WG975531
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/02/2017 09:20	WG975531
Tetrachloroethene	U		0.00372	0.0100	10	05/02/2017 09:20	WG975531
Toluene	U		0.00412	0.0100	10	05/02/2017 09:20	WG975531
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/02/2017 09:20	WG975531
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/02/2017 09:20	WG975531
Trichloroethene	U		0.00398	0.0100	10	05/02/2017 09:20	WG975531
1,2,4-Trimethylbenzene	0.0287		0.00373	0.0100	10	05/02/2017 09:20	WG975531
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/02/2017 09:20	WG975531
Vinyl chloride	U		0.00259	0.0100	10	05/02/2017 09:20	WG975531
o-Xylene	U		0.00341	0.0100	10	05/02/2017 09:20	WG975531
m&p-Xylene	0.0243		0.00719	0.0200	10	05/02/2017 09:20	WG975531
Xylenes, Total	0.0243	J	0.0106	0.0300	10	05/02/2017 09:20	WG975531
(S) Toluene-d8	104			80.0-120		05/02/2017 09:20	WG975531
(S) Dibromofluoromethane	103			76.0-123		05/02/2017 09:20	WG975531
(S) 4-Bromofluorobenzene	99.6			80.0-120		05/02/2017 09:20	WG975531

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8.44		0.0247	0.100	1	05/05/2017 03:42	WG975930
(S) o-Terphenyl	71.9			31.0-160		05/05/2017 03:42	WG975930



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1980		2.82	10.0	1	05/03/2017 13:18	WG975907

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.269	J	0.197	1.00	10	05/02/2017 14:42	WG975587

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	55.1		0.0519	1.00	1	05/02/2017 20:43	WG975534
Fluoride	3.04		0.00990	0.100	1	05/02/2017 20:43	WG975534
Sulfate	1070		7.74	500	100	05/02/2017 21:00	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00204		0.000250	0.00200	1	05/04/2017 19:57	WG975081
Arsenic,Dissolved	0.00225		0.000250	0.00200	1	05/05/2017 02:22	WG975071
Barium	0.0161		0.000360	0.00500	1	05/04/2017 19:57	WG975081
Barium,Dissolved	0.0173		0.000360	0.00500	1	05/05/2017 02:22	WG975071
Calcium	463		0.0460	1.00	1	05/04/2017 19:57	WG975081
Chromium	0.156		0.000540	0.00200	1	05/04/2017 19:57	WG975081
Chromium,Dissolved	0.00158	B J	0.000540	0.00200	1	05/05/2017 02:22	WG975071
Iron	0.473		0.0150	0.100	1	05/04/2017 19:57	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:22	WG975071
Lead	0.000250	J	0.000240	0.00200	1	05/05/2017 12:24	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:22	WG975071
Manganese	0.0121		0.000250	0.00500	1	05/04/2017 19:57	WG975081
Manganese,Dissolved	0.0115		0.000250	0.00500	1	05/05/2017 02:22	WG975071
Potassium	5.21		0.0370	1.00	1	05/04/2017 19:57	WG975081
Selenium	U		0.000380	0.00200	1	05/05/2017 02:54	WG975081
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 02:22	WG975071
Sodium	39.8		0.110	1.00	1	05/04/2017 19:57	WG975081

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.716		0.0314	0.100	1	05/05/2017 11:40	WG975302
(S) a,a,a-Trifluorotoluene(FID) 95.1				77.0-122		05/05/2017 11:40	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J3	0.0100	0.0500	1	05/02/2017 09:43	WG975531
Benzene	0.0799		0.000331	0.00100	1	05/02/2017 09:43	WG975531
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:43	WG975531
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:43	WG975531
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:43	WG975531
n-Butylbenzene	0.00121		0.000361	0.00100	1	05/02/2017 09:43	WG975531
sec-Butylbenzene	0.00806		0.000365	0.00100	1	05/02/2017 09:43	WG975531
Carbon disulfide	0.000918	J	0.000275	0.00100	1	05/02/2017 09:43	WG975531
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:43	WG975531



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:43	WG975531
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:43	WG975531
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:43	WG975531
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:43	WG975531
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:43	WG975531
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:43	WG975531
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:43	WG975531
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:43	WG975531
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:43	WG975531
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:43	WG975531
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:43	WG975531
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:43	WG975531
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:43	WG975531
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:43	WG975531
Ethylbenzene	0.000764	L	0.000384	0.00100	1	05/02/2017 09:43	WG975531
Isopropylbenzene	0.0465		0.000326	0.00100	1	05/02/2017 09:43	WG975531
p-Isopropyltoluene	0.000657	L	0.000350	0.00100	1	05/02/2017 09:43	WG975531
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:43	WG975531
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:43	WG975531
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:43	WG975531
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:43	WG975531
Methyl tert-butyl ether	0.00327		0.000367	0.00100	1	05/02/2017 09:43	WG975531
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:43	WG975531
n-Propylbenzene	0.00869		0.000349	0.00100	1	05/02/2017 09:43	WG975531
Styrene	U		0.000307	0.00100	1	05/02/2017 09:43	WG975531
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:43	WG975531
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:43	WG975531
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:43	WG975531
Toluene	0.00219		0.000412	0.00100	1	05/02/2017 09:43	WG975531
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:43	WG975531
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:43	WG975531
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:43	WG975531
1,2,4-Trimethylbenzene	0.0163		0.000373	0.00100	1	05/02/2017 09:43	WG975531
1,3,5-Trimethylbenzene	0.000748	L	0.000387	0.00100	1	05/02/2017 09:43	WG975531
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:43	WG975531
o-Xylene	0.00192		0.000341	0.00100	1	05/02/2017 09:43	WG975531
m&p-Xylene	0.00827		0.000719	0.00200	1	05/02/2017 09:43	WG975531
Xylenes, Total	0.0102		0.00106	0.00300	1	05/02/2017 09:43	WG975531
(S) Toluene-d8	104			80.0-120		05/02/2017 09:43	WG975531
(S) Dibromofluoromethane	103			76.0-123		05/02/2017 09:43	WG975531
(S) 4-Bromofluorobenzene	99.4			80.0-120		05/02/2017 09:43	WG975531

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.32		0.0247	0.100	1	05/05/2017 03:59	WG975930
(S) o-Terphenyl	102			31.0-160		05/05/2017 03:59	WG975930



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2730		2.82	10.0	1	05/03/2017 14:04	WG975909

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 14:43	WG975587

Sample Narrative:

353.2 L905645-03 WG975587: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	302		0.519	10.0	10	05/04/2017 11:58	WG976223
Fluoride	1.11		0.00990	0.100	1	05/02/2017 21:18	WG975534
Sulfate	865		7.74	500	100	05/02/2017 21:35	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0123		0.000250	0.00200	1	05/04/2017 20:00	WG975081
Arsenic,Dissolved	0.0124		0.000250	0.00200	1	05/05/2017 02:25	WG975071
Barium	0.162		0.000360	0.00500	1	05/04/2017 20:00	WG975081
Barium,Dissolved	0.0717		0.000360	0.00500	1	05/05/2017 02:25	WG975071
Calcium	224		0.0460	1.00	1	05/04/2017 20:00	WG975081
Chromium	0.00307		0.000540	0.00200	1	05/04/2017 20:00	WG975081
Chromium,Dissolved	0.00100	<u>B J</u>	0.000540	0.00200	1	05/05/2017 02:25	WG975071
Iron	0.0749	<u>J</u>	0.0150	0.100	1	05/04/2017 20:00	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:25	WG975071
Lead	0.00143	<u>J</u>	0.000240	0.00200	1	05/05/2017 12:39	WG975081
Lead,Dissolved	0.00148	<u>J</u>	0.000240	0.00200	1	05/05/2017 02:25	WG975071
Manganese	0.0149		0.000250	0.00500	1	05/04/2017 20:00	WG975081
Manganese,Dissolved	0.0150		0.000250	0.00500	1	05/05/2017 02:25	WG975071
Potassium	1.04		0.0370	1.00	1	05/04/2017 20:00	WG975081
Selenium	0.000558	<u>J</u>	0.000380	0.00200	1	05/05/2017 02:58	WG975081
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 02:25	WG975071
Sodium	411		0.110	1.00	1	05/04/2017 20:00	WG975081

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	3.02		0.0314	0.100	1	05/05/2017 12:02	WG975302
(S) a,a,a-Trifluorotoluene(FID) 95.7				77.0-122		05/05/2017 12:02	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	<u>J3</u>	0.100	0.500	10	05/02/2017 10:07	WG975531
Benzene	0.556		0.00331	0.0100	10	05/02/2017 10:07	WG975531
Bromodichloromethane	U		0.00380	0.0100	10	05/02/2017 10:07	WG975531
Bromoform	U		0.00469	0.0100	10	05/02/2017 10:07	WG975531
Bromomethane	U		0.00866	0.0500	10	05/02/2017 10:07	WG975531
n-Butylbenzene	U		0.00361	0.0100	10	05/02/2017 10:07	WG975531



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00400	U	0.00365	0.0100	10	05/02/2017 10:07	WG975531
Carbon disulfide	0.00376	U	0.00275	0.0100	10	05/02/2017 10:07	WG975531
Carbon tetrachloride	U		0.00379	0.0100	10	05/02/2017 10:07	WG975531
Chlorobenzene	U		0.00348	0.0100	10	05/02/2017 10:07	WG975531
Chlorodibromomethane	U		0.00327	0.0100	10	05/02/2017 10:07	WG975531
Chloroethane	U		0.00453	0.0500	10	05/02/2017 10:07	WG975531
Chloroform	U		0.00324	0.0500	10	05/02/2017 10:07	WG975531
Chloromethane	U		0.00276	0.0250	10	05/02/2017 10:07	WG975531
1,2-Dibromoethane	U		0.00381	0.0100	10	05/02/2017 10:07	WG975531
1,1-Dichloroethane	U		0.00259	0.0100	10	05/02/2017 10:07	WG975531
1,2-Dichloroethane	U		0.00361	0.0100	10	05/02/2017 10:07	WG975531
1,1-Dichloroethene	U		0.00398	0.0100	10	05/02/2017 10:07	WG975531
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/02/2017 10:07	WG975531
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/02/2017 10:07	WG975531
1,2-Dichloropropane	U		0.00306	0.0100	10	05/02/2017 10:07	WG975531
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/02/2017 10:07	WG975531
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/02/2017 10:07	WG975531
Ethylbenzene	U		0.00384	0.0100	10	05/02/2017 10:07	WG975531
Isopropylbenzene	0.0230		0.00326	0.0100	10	05/02/2017 10:07	WG975531
p-Isopropyltoluene	U		0.00350	0.0100	10	05/02/2017 10:07	WG975531
2-Butanone (MEK)	U		0.0393	0.100	10	05/02/2017 10:07	WG975531
2-Hexanone	U		0.0382	0.100	10	05/02/2017 10:07	WG975531
Methylene Chloride	U		0.0100	0.0500	10	05/02/2017 10:07	WG975531
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/02/2017 10:07	WG975531
Methyl tert-butyl ether	0.0104		0.00367	0.0100	10	05/02/2017 10:07	WG975531
Naphthalene	U		0.0100	0.0500	10	05/02/2017 10:07	WG975531
n-Propylbenzene	0.0270		0.00349	0.0100	10	05/02/2017 10:07	WG975531
Styrene	U		0.00307	0.0100	10	05/02/2017 10:07	WG975531
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/02/2017 10:07	WG975531
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/02/2017 10:07	WG975531
Tetrachloroethene	U		0.00372	0.0100	10	05/02/2017 10:07	WG975531
Toluene	0.00914	U	0.00412	0.0100	10	05/02/2017 10:07	WG975531
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/02/2017 10:07	WG975531
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/02/2017 10:07	WG975531
Trichloroethene	U		0.00398	0.0100	10	05/02/2017 10:07	WG975531
1,2,4-Trimethylbenzene	0.0706		0.00373	0.0100	10	05/02/2017 10:07	WG975531
1,3,5-Trimethylbenzene	0.00599	U	0.00387	0.0100	10	05/02/2017 10:07	WG975531
Vinyl chloride	U		0.00259	0.0100	10	05/02/2017 10:07	WG975531
o-Xylene	0.00370	U	0.00341	0.0100	10	05/02/2017 10:07	WG975531
m&p-Xylene	0.0837		0.00719	0.0200	10	05/02/2017 10:07	WG975531
Xylenes, Total	0.0874		0.0106	0.0300	10	05/02/2017 10:07	WG975531
(S) Toluene-d8	103			80.0-120		05/02/2017 10:07	WG975531
(S) Dibromofluoromethane	104			76.0-123		05/02/2017 10:07	WG975531
(S) 4-Bromofluorobenzene	97.9			80.0-120		05/02/2017 10:07	WG975531

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	14.8		0.124	0.500	5	05/05/2017 15:29	WG975930
(S) o-Terphenyl	76.5			31.0-160		05/05/2017 15:29	WG975930



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2940		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:00	WG975894

Sample Narrative:

353.2 L905645-04 WG975894: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	195		2.60	50.0	50	05/04/2017 12:15	WG976223
Fluoride	2.73		0.00990	0.100	1	05/02/2017 21:52	WG975534
Sulfate	1320		3.87	250	50	05/04/2017 12:15	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00520		0.000250	0.00200	1	05/04/2017 20:04	WG975081
Arsenic,Dissolved	0.00533		0.000250	0.00200	1	05/05/2017 02:29	WG975071
Barium	0.0116		0.000360	0.00500	1	05/04/2017 20:04	WG975081
Barium,Dissolved	0.0130		0.000360	0.00500	1	05/05/2017 02:29	WG975071
Calcium	284		0.0460	1.00	1	05/04/2017 20:04	WG975081
Chromium	0.0260		0.000540	0.00200	1	05/04/2017 20:04	WG975081
Chromium,Dissolved	0.00782		0.000540	0.00200	1	05/05/2017 02:29	WG975071
Iron	0.382		0.0150	0.100	1	05/04/2017 20:04	WG975081
Iron,Dissolved	0.0488	J	0.0150	0.100	1	05/05/2017 02:29	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 12:42	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:29	WG975071
Manganese	0.117		0.000250	0.00500	1	05/04/2017 20:04	WG975081
Manganese,Dissolved	0.125		0.000250	0.00500	1	05/05/2017 02:29	WG975071
Potassium	1.32		0.0370	1.00	1	05/04/2017 20:04	WG975081
Selenium	U		0.000380	0.00200	1	05/05/2017 03:02	WG975081
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 02:29	WG975071
Sodium	370		0.110	1.00	1	05/04/2017 20:04	WG975081

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.285		0.0314	0.100	1	04/30/2017 23:40	WG975302
(S) a,a,a-Trifluorotoluene(FID) 98.2				77.0-122		04/30/2017 23:40	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	0.0125	J J3	0.0100	0.0500	1	05/02/2017 10:30	WG975531
Benzene	0.000647	J	0.000331	0.00100	1	05/02/2017 10:30	WG975531
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 10:30	WG975531
Bromoform	U		0.000469	0.00100	1	05/02/2017 10:30	WG975531
Bromomethane	U		0.000866	0.00500	1	05/02/2017 10:30	WG975531
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 10:30	WG975531



Collected date/time: 04/27/17 08:55

L905645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 10:30	WG975531
Carbon disulfide	0.000420	U	0.000275	0.00100	1	05/02/2017 10:30	WG975531
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 10:30	WG975531
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 10:30	WG975531
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 10:30	WG975531
Chloroethane	U		0.000453	0.00500	1	05/02/2017 10:30	WG975531
Chloroform	U		0.000324	0.00500	1	05/02/2017 10:30	WG975531
Chloromethane	U		0.000276	0.00250	1	05/02/2017 10:30	WG975531
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 10:30	WG975531
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 10:30	WG975531
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 10:30	WG975531
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 10:30	WG975531
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 10:30	WG975531
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 10:30	WG975531
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 10:30	WG975531
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 10:30	WG975531
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 10:30	WG975531
Ethylbenzene	0.000506	U	0.000384	0.00100	1	05/02/2017 10:30	WG975531
Isopropylbenzene	0.000391	U	0.000326	0.00100	1	05/02/2017 10:30	WG975531
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 10:30	WG975531
2-Butanone (MEK)	0.00602	U	0.00393	0.0100	1	05/02/2017 10:30	WG975531
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 10:30	WG975531
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 10:30	WG975531
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 10:30	WG975531
Methyl tert-butyl ether	0.00231		0.000367	0.00100	1	05/02/2017 10:30	WG975531
Naphthalene	U		0.00100	0.00500	1	05/02/2017 10:30	WG975531
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 10:30	WG975531
Styrene	U		0.000307	0.00100	1	05/02/2017 10:30	WG975531
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 10:30	WG975531
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 10:30	WG975531
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 10:30	WG975531
Toluene	0.000539	U	0.000412	0.00100	1	05/02/2017 10:30	WG975531
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 10:30	WG975531
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 10:30	WG975531
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 10:30	WG975531
1,2,4-Trimethylbenzene	0.000500	U	0.000373	0.00100	1	05/02/2017 10:30	WG975531
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 10:30	WG975531
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 10:30	WG975531
o-Xylene	0.000572	U	0.000341	0.00100	1	05/02/2017 10:30	WG975531
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 10:30	WG975531
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 10:30	WG975531
(S) Toluene-d8	104			80.0-120		05/02/2017 10:30	WG975531
(S) Dibromofluoromethane	104			76.0-123		05/02/2017 10:30	WG975531
(S) 4-Bromofluorobenzene	100			80.0-120		05/02/2017 10:30	WG975531

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.45		0.0494	0.200	2	05/05/2017 15:13	WG975930
(S) o-Terphenyl	87.6			31.0-160		05/05/2017 15:13	WG975930



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5570		2.82	10.0	1	05/03/2017 14:04	WG975909

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:01	WG975894

Sample Narrative:

353.2 L905645-05 WG975894: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	436		2.60	50.0	50	05/04/2017 12:39	WG976555
Fluoride	1.22		0.00990	0.100	1	05/04/2017 12:24	WG976555
Sulfate	2630		3.87	250	50	05/04/2017 12:39	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00707		0.000250	0.00200	1	05/04/2017 20:07	WG975081
Arsenic,Dissolved	0.00692		0.000250	0.00200	1	05/05/2017 02:32	WG975071
Barium	0.0180		0.000360	0.00500	1	05/04/2017 20:07	WG975081
Barium,Dissolved	0.0199		0.000360	0.00500	1	05/05/2017 02:32	WG975071
Calcium	427		0.0460	1.00	1	05/04/2017 20:07	WG975081
Chromium	0.443		0.000540	0.00200	1	05/04/2017 20:07	WG975081
Chromium,Dissolved	0.0101		0.000540	0.00200	1	05/05/2017 02:32	WG975071
Iron	0.105		0.0150	0.100	1	05/04/2017 20:07	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:32	WG975071
Lead	0.00110	J	0.000240	0.00200	1	05/05/2017 12:45	WG975081
Lead,Dissolved	0.000510	J	0.000240	0.00200	1	05/05/2017 02:32	WG975071
Manganese	0.963		0.000250	0.00500	1	05/04/2017 20:07	WG975081
Manganese,Dissolved	1.07		0.000250	0.00500	1	05/05/2017 02:32	WG975071
Potassium	0.588	J	0.0370	1.00	1	05/04/2017 20:07	WG975081
Selenium	U		0.000380	0.00200	1	05/05/2017 03:05	WG975081
Selenium,Dissolved	0.000522	J	0.000380	0.00200	1	05/05/2017 02:32	WG975071
Sodium	546		0.110	1.00	1	05/04/2017 20:07	WG975081

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.29		0.0314	0.100	1	05/05/2017 12:24	WG975302
(S) a,a,a-Trifluorotoluene(FID) 97.4				77.0-122		05/05/2017 12:24	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/08/2017 02:56	WG975535
Benzene	0.0583		0.000331	0.00100	1	05/08/2017 02:56	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/08/2017 02:56	WG975535
Bromoform	U		0.000469	0.00100	1	05/08/2017 02:56	WG975535
Bromomethane	U		0.000866	0.00500	1	05/08/2017 02:56	WG975535
n-Butylbenzene	0.00430		0.000361	0.00100	1	05/08/2017 02:56	WG975535



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.0108		0.000365	0.00100	1	05/08/2017 02:56	WG975535
Carbon disulfide	0.000882	L	0.000275	0.00100	1	05/08/2017 02:56	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/08/2017 02:56	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/08/2017 02:56	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/08/2017 02:56	WG975535
Chloroethane	U		0.000453	0.00500	1	05/08/2017 02:56	WG975535
Chloroform	U		0.000324	0.00500	1	05/08/2017 02:56	WG975535
Chloromethane	U		0.000276	0.00250	1	05/08/2017 02:56	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/08/2017 02:56	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/08/2017 02:56	WG975535
1,2-Dichloroethane	U		0.000361	0.00100	1	05/08/2017 02:56	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/08/2017 02:56	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/08/2017 02:56	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/08/2017 02:56	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/08/2017 02:56	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/08/2017 02:56	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/08/2017 02:56	WG975535
Ethylbenzene	0.000616	L	0.000384	0.00100	1	05/08/2017 02:56	WG975535
Isopropylbenzene	0.0442		0.000326	0.00100	1	05/08/2017 02:56	WG975535
p-Isopropyltoluene	0.000555	L	0.000350	0.00100	1	05/08/2017 02:56	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/08/2017 02:56	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/08/2017 02:56	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/08/2017 02:56	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/08/2017 02:56	WG975535
Methyl tert-butyl ether	0.0492		0.000367	0.00100	1	05/08/2017 02:56	WG975535
Naphthalene	U		0.00100	0.00500	1	05/08/2017 02:56	WG975535
n-Propylbenzene	0.0522		0.000349	0.00100	1	05/08/2017 02:56	WG975535
Styrene	U		0.000307	0.00100	1	05/08/2017 02:56	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/08/2017 02:56	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/08/2017 02:56	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/08/2017 02:56	WG975535
Toluene	0.00218		0.000412	0.00100	1	05/08/2017 02:56	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/08/2017 02:56	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/08/2017 02:56	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/08/2017 02:56	WG975535
1,2,4-Trimethylbenzene	0.0352		0.000373	0.00100	1	05/08/2017 02:56	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/08/2017 02:56	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/08/2017 02:56	WG975535
o-Xylene	0.000606	L	0.000341	0.00100	1	05/08/2017 02:56	WG975535
m&p-Xylene	0.0281		0.000719	0.00200	1	05/08/2017 02:56	WG975535
Xylenes, Total	0.0287		0.00106	0.00300	1	05/08/2017 02:56	WG975535
(S) Toluene-d8	106			80.0-120		05/08/2017 02:56	WG975535
(S) Dibromofluoromethane	100			76.0-123		05/08/2017 02:56	WG975535
(S) 4-Bromofluorobenzene	95.1			80.0-120		05/08/2017 02:56	WG975535

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8.00		0.0247	0.100	1	05/05/2017 04:49	WG975930
(S) o-Terphenyl	84.1			31.0-160		05/05/2017 04:49	WG975930



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3.00	J	2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:02	WG975894

Sample Narrative:

353.2 L905645-06 WG975894: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.472	J	0.0519	1.00	1	05/04/2017 12:55	WG976555
Fluoride	U		0.00990	0.100	1	05/04/2017 12:55	WG976555
Sulfate	U		0.0774	5.00	1	05/04/2017 12:55	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/04/2017 20:11	WG975081
Arsenic,Dissolved	U		0.000250	0.00200	1	05/05/2017 02:36	WG975071
Barium	U		0.000360	0.00500	1	05/04/2017 20:11	WG975081
Barium,Dissolved	U		0.000360	0.00500	1	05/05/2017 02:36	WG975071
Calcium	U		0.0460	1.00	1	05/04/2017 20:11	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 20:11	WG975081
Chromium,Dissolved	0.000979	B J	0.000540	0.00200	1	05/05/2017 02:36	WG975071
Iron	0.0321	J	0.0150	0.100	1	05/04/2017 20:11	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:36	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 12:49	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:36	WG975071
Manganese	U		0.000250	0.00500	1	05/04/2017 20:11	WG975081
Manganese,Dissolved	0.000362	J	0.000250	0.00500	1	05/05/2017 02:36	WG975071
Potassium	U		0.0370	1.00	1	05/04/2017 20:11	WG975081
Selenium	U		0.000380	0.00200	1	05/05/2017 03:09	WG975081
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 02:36	WG975071
Sodium	0.258	J	0.110	1.00	1	05/04/2017 20:11	WG975081

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 00:29	WG975302
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		05/01/2017 00:29	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 18:55	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 18:55	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:55	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:55	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:55	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:55	WG975535



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 18:55	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 18:55	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:55	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:55	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:55	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:55	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:55	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:55	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:55	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:55	WG975535
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:55	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:55	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:55	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:55	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:55	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:55	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:55	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 18:55	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 18:55	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:55	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:55	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:55	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:55	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:55	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 18:55	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:55	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 18:55	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 18:55	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:55	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:55	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:55	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 18:55	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:55	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:55	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:55	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:55	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:55	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:55	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:55	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 18:55	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 18:55	WG975535
(S) Toluene-d8	96.5			80.0-120		05/02/2017 18:55	WG975535
(S) Dibromofluoromethane	80.4			76.0-123		05/02/2017 18:55	WG975535
(S) 4-Bromofluorobenzene	91.3			80.0-120		05/02/2017 18:55	WG975535

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0844	J	0.0247	0.100	1	05/05/2017 05:06	WG975930
(S) o-Terphenyl	74.5			31.0-160		05/05/2017 05:06	WG975930



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 18:41	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 18:41	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:41	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:41	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:41	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:41	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 18:41	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 18:41	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:41	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:41	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:41	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:41	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:41	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:41	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:41	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:41	WG975535
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:41	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:41	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:41	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:41	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:41	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:41	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:41	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 18:41	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 18:41	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:41	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:41	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:41	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:41	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:41	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 18:41	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:41	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 18:41	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 18:41	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:41	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:41	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:41	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 18:41	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:41	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:41	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:41	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:41	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:41	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:41	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:41	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 18:41	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 18:41	WG975535
(S) Toluene-d8	94.6			80.0-120		05/02/2017 18:41	WG975535
(S) Dibromofluoromethane	79.6			76.0-123		05/02/2017 18:41	WG975535
(S) 4-Bromofluorobenzene	94.2			80.0-120		05/02/2017 18:41	WG975535

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2390		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:03	WG975894

Sample Narrative:

353.2 L905645-08 WG975894: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.0900	0.250	50	05/03/2017 13:40	WG975885

Wet Chemistry by Method 9056A

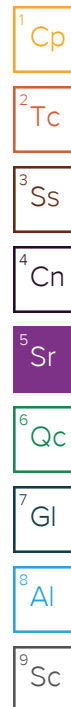
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	373		0.519	10.0	10	05/04/2017 13:41	WG976555
Fluoride	1.35		0.00990	0.100	1	05/04/2017 13:26	WG976555
Sulfate	531		0.774	50.0	10	05/04/2017 13:41	WG976555

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/03/2017 10:45	WG975835
Mercury,Dissolved	U		0.0000490	0.000200	1	05/03/2017 11:45	WG975644

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00426		0.000250	0.00200	1	05/02/2017 18:39	WG975340
Arsenic,Dissolved	0.00441		0.000250	0.00200	1	05/10/2017 17:09	WG978287
Barium	0.0461		0.000360	0.00500	1	05/02/2017 18:39	WG975340
Barium,Dissolved	0.0471		0.000360	0.00500	1	05/10/2017 17:09	WG978287
Boron	0.733		0.00150	0.0200	1	05/02/2017 18:39	WG975340
Boron,Dissolved	0.591		0.00150	0.0200	1	05/10/2017 21:40	WG978287
Cadmium	U		0.000160	0.00100	1	05/02/2017 18:39	WG975340
Cadmium,Dissolved	U		0.000160	0.00100	1	05/10/2017 17:09	WG978287
Calcium	194		0.0460	1.00	1	05/02/2017 18:39	WG975340
Chromium	U		0.000540	0.00200	1	05/02/2017 18:39	WG975340
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 17:09	WG978287
Cobalt	U		0.000260	0.00200	1	05/02/2017 18:39	WG975340
Cobalt,Dissolved	U		0.000260	0.00200	1	05/10/2017 17:09	WG978287
Iron	0.100		0.0150	0.100	1	05/02/2017 18:39	WG975340
Iron,Dissolved	0.0602	J	0.0150	0.100	1	05/10/2017 17:09	WG978287
Lead	0.000499	J	0.000240	0.00200	1	05/02/2017 18:39	WG975340
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 17:09	WG978287
Manganese	0.250		0.000250	0.00500	1	05/02/2017 18:39	WG975340
Manganese,Dissolved	0.248		0.000250	0.00500	1	05/10/2017 17:09	WG978287
Nickel	0.00809		0.000350	0.00200	1	05/02/2017 18:39	WG975340
Nickel,Dissolved	0.00535		0.000350	0.00200	1	05/10/2017 17:09	WG978287
Potassium	2.19		0.0370	1.00	1	05/02/2017 18:39	WG975340





Collected date/time: 04/27/17 10:30

L905645

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	U		0.000380	0.00200	1	05/02/2017 18:39	WG975340
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 17:09	WG978287
Sodium	328		0.110	1.00	1	05/02/2017 18:39	WG975340
Uranium	U		0.000330	0.0100	1	05/02/2017 18:39	WG975340
Uranium,Dissolved	U		0.000330	0.0100	1	05/10/2017 17:09	WG978287
Vanadium	0.000515	U	0.000180	0.00500	1	05/02/2017 18:39	WG975340
Vanadium,Dissolved	0.000883	U	0.000180	0.00500	1	05/10/2017 17:09	WG978287

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.65		0.0314	0.100	1	05/01/2017 13:58	WG975393
(S) a,a,a-Trifluorotoluene(FID)	90.5			77.0-122		05/01/2017 13:58	WG975393

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	0.137	U	0.100	0.500	10	05/02/2017 22:15	WG975945
Benzene	0.227		0.00331	0.0100	10	05/02/2017 22:15	WG975945
Bromodichloromethane	U		0.00380	0.0100	10	05/02/2017 22:15	WG975945
Bromoform	U		0.00469	0.0100	10	05/02/2017 22:15	WG975945
Bromomethane	U		0.00866	0.0500	10	05/02/2017 22:15	WG975945
n-Butylbenzene	U		0.00361	0.0100	10	05/02/2017 22:15	WG975945
sec-Butylbenzene	0.00406	U	0.00365	0.0100	10	05/02/2017 22:15	WG975945
Carbon disulfide	U		0.00275	0.0100	10	05/02/2017 22:15	WG975945
Carbon tetrachloride	U		0.00379	0.0100	10	05/02/2017 22:15	WG975945
Chlorobenzene	U		0.00348	0.0100	10	05/02/2017 22:15	WG975945
Chlorodibromomethane	U		0.00327	0.0100	10	05/02/2017 22:15	WG975945
Chloroethane	U		0.00453	0.0500	10	05/02/2017 22:15	WG975945
Chloroform	0.0119	U	0.00324	0.0500	10	05/02/2017 22:15	WG975945
Chloromethane	U		0.00276	0.0250	10	05/02/2017 22:15	WG975945
1,2-Dibromoethane	U		0.00381	0.0100	10	05/02/2017 22:15	WG975945
1,1-Dichloroethane	U		0.00259	0.0100	10	05/02/2017 22:15	WG975945
1,2-Dichloroethane	U		0.00361	0.0100	10	05/02/2017 22:15	WG975945
1,1-Dichloroethene	U		0.00398	0.0100	10	05/02/2017 22:15	WG975945
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/02/2017 22:15	WG975945
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/02/2017 22:15	WG975945
1,2-Dichloropropane	U		0.00306	0.0100	10	05/02/2017 22:15	WG975945
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/02/2017 22:15	WG975945
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/02/2017 22:15	WG975945
Ethylbenzene	0.00427	U	0.00384	0.0100	10	05/02/2017 22:15	WG975945
Isopropylbenzene	0.0218		0.00326	0.0100	10	05/02/2017 22:15	WG975945
p-Isopropyltoluene	U		0.00350	0.0100	10	05/02/2017 22:15	WG975945
2-Butanone (MEK)	U		0.0393	0.100	10	05/02/2017 22:15	WG975945
2-Hexanone	U		0.0382	0.100	10	05/02/2017 22:15	WG975945
Methylene Chloride	U		0.0100	0.0500	10	05/02/2017 22:15	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/02/2017 22:15	WG975945
Methyl tert-butyl ether	0.0811		0.00367	0.0100	10	05/02/2017 22:15	WG975945
Naphthalene	U		0.0100	0.0500	10	05/02/2017 22:15	WG975945
n-Propylbenzene	0.0266		0.00349	0.0100	10	05/02/2017 22:15	WG975945
Styrene	U		0.00307	0.0100	10	05/02/2017 22:15	WG975945
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/02/2017 22:15	WG975945
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/02/2017 22:15	WG975945
Tetrachloroethene	U		0.00372	0.0100	10	05/02/2017 22:15	WG975945
Toluene	U		0.00412	0.0100	10	05/02/2017 22:15	WG975945



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/02/2017 22:15	WG975945
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/02/2017 22:15	WG975945
Trichloroethene	U		0.00398	0.0100	10	05/02/2017 22:15	WG975945
1,2,4-Trimethylbenzene	0.0409		0.00373	0.0100	10	05/02/2017 22:15	WG975945
1,3,5-Trimethylbenzene	0.00628	J	0.00387	0.0100	10	05/02/2017 22:15	WG975945
Vinyl chloride	U		0.00259	0.0100	10	05/02/2017 22:15	WG975945
o-Xylene	U		0.00341	0.0100	10	05/02/2017 22:15	WG975945
m&p-Xylene	0.0564		0.00719	0.0200	10	05/02/2017 22:15	WG975945
Xylenes, Total	0.0564		0.0106	0.0300	10	05/02/2017 22:15	WG975945
(S) Toluene-d8	105			80.0-120		05/02/2017 22:15	WG975945
(S) Dibromofluoromethane	107			76.0-123		05/02/2017 22:15	WG975945
(S) 4-Bromofluorobenzene	92.1			80.0-120		05/02/2017 22:15	WG975945

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.62		0.0247	0.100	1	05/05/2017 05:23	WG975930
(S) o-Terphenyl	76.1			31.0-160		05/05/2017 05:23	WG975930

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215860-1 05/03/17 13:18

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905645-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-02 05/03/17 13:18 • (DUP) R3215860-4 05/03/17 13:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	1980	2080	1	4.94		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215860-2 05/03/17 13:18 • (LCSD) R3215860-3 05/03/17 13:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Dissolved Solids	8800	8640	8600	98.2	97.7	85.0-115		0.464		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215924-1 05/03/17 14:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905645-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-03 05/03/17 14:04 • (DUP) R3215924-4 05/03/17 14:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2730	2730	1	0.000		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215924-2 05/03/17 14:04 • (LCSD) R3215924-3 05/03/17 14:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8700	98.5	98.9	85.0-115		0.345		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215036-1 05/02/17 14:02

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U	0.0197	0.100	0.100

L905563-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905563-01 05/02/17 14:05 • (DUP) R3215036-4 05/02/17 14:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Nitrate-Nitrite	1.87	1.86	1	0		20

L905616-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905616-02 05/02/17 14:31 • (DUP) R3215036-6 05/02/17 14:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Nitrate-Nitrite	0.348	0.500	1	36	<u>J3</u>	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215036-2 05/02/17 14:03 • (LCSD) R3215036-3 05/02/17 14:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	5.17	5.10	103	102	90-110			1	20

L905563-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L905563-01 05/02/17 14:05 • (MS) R3215036-5 05/02/17 14:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %
Nitrate-Nitrite	5.00	1.87	6.68	96	1	90-110	

L905624-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905624-01 05/02/17 14:33 • (MS) R3215036-7 05/02/17 14:34 • (MSD) R3215036-8 05/02/17 14:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	1.02	5.76	5.81	95	96	1	90-110		1		20



Method Blank (MB)

(MB) R3215384-1 05/03/17 14:35				
MB Result		MB Qualifier		MB RDL
mg/l		mg/l		mg/l
Analyte				
Nitrate-Nitrite	U	0.0197		0.100

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/03/17 14:38 • (DUP) R3215384-4 05/03/17 14:39				
Original Result		DUP Result	Dilution	DUP RPD
mg/l		mg/l		%
Analyte				
Nitrate-Nitrite	16.3	16.7	10	2
				20

L905307-24 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-24 05/03/17 14:50 • (DUP) R3215384-5 05/03/17 14:51				
Original Result		DUP Result	Dilution	DUP RPD
mg/l		mg/l		%
Analyte				
Nitrate-Nitrite	U	0.000	10	0
				20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215384-2 05/03/17 14:36 • (LCSD) R3215384-3 05/03/17 14:37				
Spike Amount		LCS Result	LCSD Result	LCS Rec.
mg/l		mg/l	mg/l	%
Analyte				
Nitrate-Nitrite	5.00	5.32	4.93	106
				99
				90-110
				8
				20

L905371-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L905371-15 05/03/17 14:54 • (MS) R3215384-6 05/03/17 14:55				
Spike Amount		Original Result	MS Result	MS Rec.
mg/l		mg/l	mg/l	%
Analyte				
Nitrate-Nitrite	5.00	ND	4.56	91
				1
				90-110

L905651-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-04 05/03/17 15:07 • (MS) R3215384-7 05/03/17 15:13 • (MSD) R3215384-8 05/03/17 15:14				
Spike Amount		Original Result	MS Result	MSD Result
mg/l		mg/l	mg/l	mg/l
Analyte				
Nitrate-Nitrite	5.00	0.0570	0.323	0.310
				5
				5
				90-110
				4
				20



Method Blank (MB)

(MB) R3215308-1 05/03/17 13:34

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RD L mg/l
Cyanide	U	0.0018	0.00500	

L906177-02 Original Sample (OS) • Duplicate (DUP)

(OS) L906177-02 05/03/17 13:47 • (DUP) R3215308-4 05/03/17 13:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Cyanide	ND	0.00207	1	0		20

L906265-12 Original Sample (OS) • Duplicate (DUP)

(OS) L906265-12 05/03/17 13:58 • (DUP) R3215308-5 05/03/17 13:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Cyanide	ND	0.000	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215308-2 05/03/17 13:35 • (LCSD) R3215308-3 05/03/17 13:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Cyanide	0.100	0.103	0.103	103	103	85-115			0	20

L906265-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906265-13 05/03/17 14:00 • (MS) R3215308-6 05/03/17 14:01 • (MSD) R3215308-7 05/03/17 14:03

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0679	0.0471	68	47	1	75-125	J6	J3 J6	36	20



Method Blank (MB)

(MB) R3215194-1 05/02/17 07:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/02/17 15:29 • (DUP) R3215194-4 05/02/17 15:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	78.9	78.8	1	0		15
Fluoride	1.59	1.59	1	0		15
Sulfate	U	0.000	1	0		15

L905645-04 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-04 05/02/17 21:52 • (DUP) R3215194-6 05/02/17 22:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	2.73	2.75	1	1		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215194-2 05/02/17 07:22 • (LCSD) R3215194-3 05/02/17 07:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.5	40.4	101	101	80-120			0	15
Fluoride	8.00	8.21	8.18	103	102	80-120			0	15
Sulfate	40.0	40.9	40.7	102	102	80-120			1	15

L905307-32 Original Sample (OS) • Matrix Spike (MS)

(OS) L905307-32 05/02/17 17:49 • (MS) R3215194-5 05/02/17 18:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.269	48.8	97	1	80-120	
Fluoride	5.00	U	4.97	99	1	80-120	
Sulfate	50.0	U	49.0	98	1	80-120	



L905602-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-11 05/02/17 23:02 • (MS) R3215194-8 05/03/17 00:12 • (MSD) R3215194-9 05/03/17 00:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Fluoride	5.00	2.36	6.24	6.30	78	79	1	80-120	J6	J6	1	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215820-1 05/04/17 06:15

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Chloride	U	0.0519	1.00	
Sulfate	U	0.0774	5.00	

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/04/17 12:33 • (DUP) R3215820-4 05/04/17 13:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	74.0	81.0	10	9		15
Sulfate	717	730	10	2		15

L905831-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905831-01 05/04/17 21:33 • (DUP) R3215820-8 05/04/17 21:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	3.27	3.13	1	4		15
Sulfate	16.4	16.4	1	0		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215820-2 05/04/17 06:33 • (LCSD) R3215820-3 05/04/17 06:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Chloride	40.0	40.3	40.1	101	100	80-120			0	15
Sulfate	40.0	40.5	40.3	101	101	80-120			0	15

L905668-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-20 05/04/17 13:42 • (MS) R3215820-5 05/04/17 14:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %
Sulfate	50.0	11.3	59.9	97	1	80-120	



L905847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905847-01 05/04/17 15:44 • (MS) R3215820-6 05/04/17 16:37 • (MSD) R3215820-7 05/04/17 16:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.49	52.4	52.7	102	102	1	80-120			1	15
Sulfate	50.0	1.18	52.1	52.1	102	102	1	80-120			0	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215800-1 05/04/17 06:09

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RD L mg/l
Chloride	U	0.0519	1.00	
Fluoride	U	0.0099	0.100	
Sulfate	U	0.0774	5.00	

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/05/17 00:48 • (DUP) R3215800-10 05/05/17 01:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	80.4	76.9	1	4		15
Fluoride	1.90	2.18	1	14		15

L905651-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-10 05/05/17 09:57 • (DUP) R3215800-12 05/05/17 10:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	0.289	0.126	1	79	J P1	15
Fluoride	0.0207	0.000	1	200	P1	15
Sulfate	0.238	0.000	1	200	P1	15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215800-2 05/04/17 06:25 • (LCSD) R3215800-3 05/04/17 06:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Chloride	40.0	40.2	40.2	100	100	80-120			0	15
Fluoride	8.00	8.07	8.06	101	101	80-120			0	15
Sulfate	40.0	40.4	40.4	101	101	80-120			0	15

L905645-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L905645-06 05/04/17 12:55 • (MS) R3215800-6 05/04/17 13:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %
Chloride	50.0	0.472	50.9	101	1	80-120	
Fluoride	5.00	U	5.06	101	1	80-120	
Sulfate	50.0	U	51.3	103	1	80-120	



L905668-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-08 05/04/17 23:46 • (MS) R3215800-8 05/05/17 00:17 • (MSD) R3215800-9 05/05/17 00:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Fluoride	5.00	0.668	5.39	5.41	94	95	1	80-120		0		15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215266-1 05/03/17 11:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000049	0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215266-2 05/03/17 11:31 • (LCSD) R3215266-3 05/03/17 11:33

Analyte	Spike Amount mg/l		LCSD Result mg/l		LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300		0.00300	0.00302	101	100	80-120			1	20

L905940-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905940-17 05/03/17 11:35 • (MS) R3215266-4 05/03/17 11:38 • (MSD) R3215266-5 05/03/17 11:40

Analyte	Spike Amount mg/l		Original Result mg/l		MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300		ND		0.00309	0.00307	103	102	1	75-125		1		20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215220-5 05/03/17 10:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215220-6 05/03/17 10:33 • (LCSD) R3215220-7 05/03/17 10:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00302	0.00290	101	97	80-120			4	20

L905760-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905760-07 05/03/17 10:38 • (MS) R3215220-8 05/03/17 10:40 • (MSD) R3215220-9 05/03/17 10:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00184	0.00498	0.00502	105	106	1	75-125		1		20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215762-1 05/05/17 01:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	0.000556	J	0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215762-2 05/05/17 01:53 • (LCSD) R3215762-3 05/05/17 01:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0489	0.0484	98	97	80-120			1	20
Barium,Dissolved	0.0500	0.0537	0.0541	107	108	80-120			1	20
Chromium,Dissolved	0.0500	0.0514	0.0507	103	101	80-120			1	20
Iron,Dissolved	5.00	5.02	5.02	100	100	80-120			0	20
Lead,Dissolved	0.0500	0.0496	0.0499	99	100	80-120			1	20
Manganese,Dissolved	0.0500	0.0498	0.0500	100	100	80-120			0	20
Selenium,Dissolved	0.0500	0.0484		97		80-120				

L905645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905645-01 05/05/17 02:01 • (MS) R3215762-5 05/05/17 02:08 • (MSD) R3215762-6 05/05/17 02:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00660	0.0555	0.0537	98	94	1	75-125		3	20
Barium,Dissolved	0.0500	0.0188	0.0730	0.0739	108	110	1	75-125		1	20
Chromium,Dissolved	0.0500	0.0114	0.0618	0.0600	101	97	1	75-125		3	20
Iron,Dissolved	5.00	U	4.90	4.80	98	96	1	75-125		2	20
Lead,Dissolved	0.0500	0.000416	0.0509	0.0500	101	99	1	75-125		2	20
Manganese,Dissolved	0.0500	1.04	1.10	1.09	120	104	1	75-125		1	20
Selenium,Dissolved	0.0500	0.000623	0.0487	0.0472	96	93	1	75-125		3	20



Method Blank (MB)

(MB) R3215702-1 05/04/17 17:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	0.314	J	0.046	1.00
Chromium	U		0.00054	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215702-2 05/04/17 17:38 • (LCSD) R3215702-3 05/04/17 17:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0489	0.0489	98	98	80-120			0	20
Barium	0.0500	0.0451	0.0452	90	90	80-120			0	20
Calcium	5.00	4.87	4.76	97	95	80-120			2	20
Chromium	0.0500	0.0520	0.0514	104	103	80-120			1	20
Iron	5.00	5.15	5.06	103	101	80-120			2	20
Lead	0.0500	0.0492	0.0495	98	99	80-120			1	20
Manganese	0.0500	0.0480	0.0474	96	95	80-120			1	20
Potassium	5.00	4.99	4.88	100	98	80-120			2	20
Selenium	0.0500	0.0505	0.0525	101	105	80-120			4	20
Sodium	5.00	5.42	5.36	108	107	80-120			1	20

L905602-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-01 05/04/17 17:46 • (MS) R3215702-5 05/04/17 17:53 • (MSD) R3215702-6 05/04/17 17:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00300	0.0516	0.0512	97	96	1	75-125			1	20
Barium	0.0500	0.0121	0.0615	0.0606	99	97	1	75-125			2	20
Calcium	5.00	484	494	484	193	0	1	75-125	V	V	2	20
Chromium	0.0500	0.000842	0.0493	0.0485	97	95	1	75-125			2	20
Potassium	5.00	5.11	9.87	9.75	95	93	1	75-125			1	20
Iron	5.00	0.0157	4.84	4.73	96	94	1	75-125			2	20
Lead	0.0500	U	0.0489	0.0489	98	98	1	75-125			0	20

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545,0000,0000 000

SDG:

L905645

DATE/TIME:

05/11/17 14:55

PAGE:

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L905602-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-01 05/04/17 17:46 • (MS) R3215702-5 05/04/17 17:53 • (MSD) R3215702-6 05/04/17 17:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Manganese	0.0500	0.507	0.573	0.558	131	102	1	75-125	V		3	20
Selenium	0.0500	0.00254	0.0545	0.0548	104	105	1	75-125			0	20
Sodium	5.00	1480	1460	1450	0	0	1	75-125	EV	EV	0	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215O93-1 05/02/17 18:14

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.0025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	0.0382	J	0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215O93-2 05/02/17 18:18 • (LCSD) R3215O93-3 05/02/17 18:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	0.0528	0.0519	106	104	80-120			2	20
Barium	0.0500	0.0521	0.0504	104	101	80-120			3	20
Boron	0.0500	0.0500	0.0511	100	102	80-120			2	20
Cadmium	0.0500	0.0505	0.0511	101	102	80-120			1	20
Calcium	5.00	5.26	5.04	105	101	80-120			4	20
Chromium	0.0500	0.0540	0.0532	108	106	80-120			1	20
Cobalt	0.0500	0.0553	0.0552	111	110	80-120			0	20
Iron	5.00	5.44	5.40	109	108	80-120			1	20
Lead	0.0500	0.0515	0.0507	103	101	80-120			2	20
Manganese	0.0500	0.0539	0.0531	108	106	80-120			2	20
Nickel	0.0500	0.0544	0.0543	109	109	80-120			0	20
Potassium	5.00	5.22	5.06	104	101	80-120			3	20
Selenium	0.0500	0.0511	0.0516	102	103	80-120			1	20
Sodium	5.00	5.19	5.03	104	101	80-120			3	20
Uranium	0.0500	0.0493	0.0489	99	98	80-120			1	20
Vanadium	0.0500	0.0525	0.0526	105	105	80-120			0	20



L905855-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905855-04 05/02/17 18:25 • (MS) R3215093-5 05/02/17 18:32 • (MSD) R3215093-6 05/02/17 18:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.000648	0.0507	0.0490	100	97	1	75-125			3	20
Barium	0.0500	0.221	0.271	0.271	99	98	1	75-125			0	20
Boron	0.0500	0.229	0.291	0.298	124	138	1	75-125		V	2	20
Cadmium	0.0500	U	0.0499	0.0492	100	98	1	75-125			1	20
Calcium	5.00	126	133	133	148	136	1	75-125	V	V	0	20
Chromium	0.0500	U	0.0517	0.0501	103	100	1	75-125			3	20
Cobalt	0.0500	U	0.0515	0.0497	103	99	1	75-125			3	20
Potassium	5.00	3.67	8.95	8.81	106	103	1	75-125			2	20
Iron	5.00	U	5.13	4.97	103	99	1	75-125			3	20
Lead	0.0500	0.000538	0.0516	0.0501	102	99	1	75-125			3	20
Manganese	0.0500	0.000568	0.0515	0.0491	102	97	1	75-125			5	20
Nickel	0.0500	0.000997	0.0511	0.0501	100	98	1	75-125			2	20
Selenium	0.0500	0.000675	0.0529	0.0508	104	100	1	75-125			4	20
Sodium	5.00	76.3	83.4	82.5	143	124	1	75-125	V		1	20
Uranium	0.0500	0.00391	0.0552	0.0533	103	99	1	75-125			4	20
Vanadium	0.0500	0.00109	0.0518	0.0505	101	99	1	75-125			3	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3217063-1 05/10/17 15:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC	MB RDLC
Arsenic,Dissolved	U		0.00025	0.00200	
Barium,Dissolved	U		0.00036	0.00500	
Cadmium,Dissolved	U		0.00016	0.00100	
Chromium,Dissolved	U		0.00054	0.00200	
Cobalt,Dissolved	U		0.00026	0.00200	
Iron,Dissolved	U		0.015	0.100	
Lead,Dissolved	U		0.00024	0.00200	
Manganese,Dissolved	0.000347	J	0.00025	0.00500	
Nickel,Dissolved	0.000529	J	0.00035	0.00200	
Selenium,Dissolved	U		0.00038	0.00200	
Uranium,Dissolved	U		0.00033	0.0100	
Vanadium,Dissolved	U		0.00018	0.00500	

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC	MB RDLC
Boron,Dissolved	0.00388	J	0.0015	0.0200	

Method Blank (MB)

(MB) R3217164-1 05/10/17 21:16

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3217063-2 05/10/17 15:29 • (LCSD) R3217063-3 05/10/17 15:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0485	0.0493	97	99	80-120			2	20
Barium,Dissolved	0.0500	0.0505	0.0500	101	100	80-120			1	20
Cadmium,Dissolved	0.0500	0.0519	0.0518	104	104	80-120			0	20
Chromium,Dissolved	0.0500	0.0500	0.0498	100	100	80-120			0	20
Cobalt,Dissolved	0.0500	0.0513	0.0514	103	103	80-120			0	20
Iron,Dissolved	5.00	4.95	4.98	99	100	80-120			1	20
Lead,Dissolved	0.0500	0.0498	0.0497	100	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0502	0.0495	100	99	80-120			1	20
Nickel,Dissolved	0.0500	0.0517	0.0524	103	105	80-120			1	20
Selenium,Dissolved	0.0500	0.0529	0.0510	106	102	80-120			4	20
Uranium,Dissolved	0.0500	0.0459	0.0463	92	93	80-120			1	20
Vanadium,Dissolved	0.0500	0.0492	0.0491	98	98	80-120			0	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3217164-2 05/10/17 21:19 • (LCSD) R3217164-3 05/10/17 21:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Boron,Dissolved	0.0500	0.0502	0.0489	100	98	80-120			3	20

L906804-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906804-01 05/10/17 15:36 • (MS) R3217063-5 05/10/17 15:43 • (MSD) R3217063-6 05/10/17 15:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	U	0.0467	0.0473	93	95	1	75-125			1	20
Barium,Dissolved	0.0500	0.0145	0.0653	0.0650	102	101	1	75-125			1	20
Cadmium,Dissolved	0.0500	U	0.0506	0.0513	101	103	1	75-125			1	20
Chromium,Dissolved	0.0500	U	0.0460	0.0463	92	93	1	75-125			1	20
Cobalt,Dissolved	0.0500	U	0.0485	0.0487	97	97	1	75-125			0	20
Iron,Dissolved	5.00	U	4.68	4.67	94	93	1	75-125			0	20
Lead,Dissolved	0.0500	U	0.0485	0.0485	97	97	1	75-125			0	20
Manganese,Dissolved	0.0500	0.000320	0.0462	0.0466	92	93	1	75-125			1	20
Nickel,Dissolved	0.0500	0.00195	0.0499	0.0502	96	97	1	75-125			1	20
Selenium,Dissolved	0.0500	0.00113	0.0527	0.0504	103	99	1	75-125			4	20
Uranium,Dissolved	0.0500	0.00526	0.0510	0.0527	91	95	1	75-125			3	20
Vanadium,Dissolved	0.0500	0.000326	0.0472	0.0473	94	94	1	75-125			0	20



Method Blank (MB)

(MB) R3215819-3 04/30/17 19:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLCSD Qualifier
TPH (GC/FID) Low Fraction	U	0.0314	0.100	
(S) <i>α,α,α</i> -Trifluorotoluene(FID)	99.9		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215819-1 04/30/17 18:25 • (LCSD) R3215819-2 04/30/17 18:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	Rec. Limits %	LCSD Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.42	5.17	98.5	71.0-136			4.75	20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)				103	77.0-122				

L905602-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-03 04/30/17 21:14 • (MS) R3215819-4 04/30/17 20:02 • (MSD) R3215819-5 04/30/17 20:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.585	2.84	2.81	41.0	40.4	1	18.0-160		1.24		20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)					97.3	97.9		77.0-122				



Method Blank (MB)

(MB) R3216370-5 05/01/17 11:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.0314	0.100
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)	103		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216370-3 05/01/17 10:28 • (LCSD) R3216370-4 05/01/17 10:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.44	5.67	98.8	71.0-136			4.16	20
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)		106	107	106	77.0-122				

L905669-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905669-02 05/01/17 11:52 • (MS) R3216370-8 05/01/17 12:55 • (MSD) R3216370-9 05/01/17 13:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	U	4.99	5.12	90.8	93.0	1	18.0-160		2.42	20
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)					104	104		77.0-122			



Method Blank (MB)

(MB) R3215016-4 05/02/17 00:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215O16-4 05/02/17 00:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	104		80.0-120	
(S) Dibromofluoromethane	103		76.0-123	
(S) 4-Bromofluorobenzene	96.8		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215O16-1 05/01/17 22:35 • (LCSD) R3215O16-3 05/01/17 23:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0904	0.119	72.3	95.4	10.0-160		J3	27.6	23
Benzene	0.0250	0.0255	0.0251	102	101	69.0-123			1.21	20
Bromodichloromethane	0.0250	0.0215	0.0218	85.8	87.2	76.0-120			1.55	20
Bromoform	0.0250	0.0217	0.0226	86.7	90.6	67.0-132			4.37	20
Bromomethane	0.0250	0.0183	0.0204	73.3	81.6	18.0-160			10.8	20
n-Butylbenzene	0.0250	0.0209	0.0205	83.4	82.1	72.0-126			1.64	20
sec-Butylbenzene	0.0250	0.0201	0.0200	80.2	80.1	74.0-121			0.170	20
Carbon disulfide	0.0250	0.0244	0.0239	97.6	95.6	55.0-127			2.08	20
Carbon tetrachloride	0.0250	0.0202	0.0191	80.7	76.4	63.0-122			5.57	20
Chlorobenzene	0.0250	0.0236	0.0235	94.3	94.1	79.0-121			0.260	20
Chlorodibromomethane	0.0250	0.0217	0.0219	86.6	87.7	75.0-125			1.23	20
Chloroethane	0.0250	0.0249	0.0256	99.6	103	47.0-152			2.87	20
Chloroform	0.0250	0.0229	0.0227	91.5	91.0	72.0-121			0.610	20
Chloromethane	0.0250	0.0275	0.0270	110	108	48.0-139			1.82	20
1,2-Dibromoethane	0.0250	0.0228	0.0233	91.4	93.3	77.0-123			2.05	20
1,1-Dichloroethane	0.0250	0.0241	0.0236	96.6	94.5	70.0-126			2.21	20
1,2-Dichloroethane	0.0250	0.0200	0.0200	80.0	80.0	67.0-126			0.110	20
1,1-Dichloroethene	0.0250	0.0236	0.0229	94.3	91.7	64.0-129			2.85	20
cis-1,2-Dichloroethene	0.0250	0.0244	0.0239	97.7	95.4	73.0-120			2.40	20
trans-1,2-Dichloroethene	0.0250	0.0238	0.0237	95.0	94.9	71.0-121			0.160	20
1,2-Dichloropropane	0.0250	0.0250	0.0252	99.9	101	75.0-125			1.05	20
cis-1,3-Dichloropropene	0.0250	0.0216	0.0214	86.4	85.6	79.0-123			1.01	20
trans-1,3-Dichloropropene	0.0250	0.0206	0.0210	82.4	83.9	74.0-127			1.81	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215016-1 05/01/17 22:35 • (LCSD) R3215016-3 05/01/17 23:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
							%		%		%	
Ethylbenzene	0.0250	0.0233	0.0233	93.2	93.0	77.0-120					0.180	
2-Hexanone	0.125	0.128	0.138	102	111	58.0-147					7.83	
Isopropylbenzene	0.0250	0.0218	0.0217	87.1	87.0	75.0-120					0.170	
p-Isopropyltoluene	0.0250	0.0204	0.0204	81.4	81.6	74.0-126					0.180	
2-Butanone (MEK)	0.125	0.122	0.135	97.9	108	37.0-158					9.58	
Methylene Chloride	0.0250	0.0236	0.0232	94.3	92.8	66.0-121					1.63	
4-Methyl-2-pentanone (MIBK)	0.125	0.135	0.137	108	109	59.0-143					1.14	
Methyl tert-butyl ether	0.0250	0.0237	0.0237	94.6	94.7	64.0-123					0.120	
Naphthalene	0.0250	0.0221	0.0219	88.5	87.5	62.0-128					1.13	
n-Propylbenzene	0.0250	0.0222	0.0221	89.0	88.5	79.0-120					0.470	
Styrene	0.0250	0.0231	0.0233	92.3	93.3	78.0-124					1.09	
1,1,1,2-Tetrachloroethane	0.0250	0.0222	0.0220	88.6	87.9	75.0-122					0.810	
1,1,2,2-Tetrachloroethane	0.0250	0.0229	0.0232	91.8	92.7	71.0-122					1.03	
Tetrachloroethene	0.0250	0.0227	0.0223	91.0	89.2	70.0-127					1.97	
Toluene	0.0250	0.0231	0.0230	92.6	92.0	77.0-120					0.600	
1,1,1-Trichloroethane	0.0250	0.0214	0.0205	85.6	82.1	68.0-122					4.12	
1,1,2-Trichloroethane	0.0250	0.0243	0.0246	97.3	98.3	78.0-120					0.970	
Trichloroethene	0.0250	0.0237	0.0234	94.8	93.5	78.0-120					1.36	
1,2,4-Trimethylbenzene	0.0250	0.0214	0.0211	85.6	84.6	75.0-120					1.26	
1,3,5-Trimethylbenzene	0.0250	0.0210	0.0211	84.1	84.6	75.0-120					0.500	
Vinyl chloride	0.0250	0.0285	0.0279	114	112	64.0-133					2.12	
Xylenes, Total	0.0750	0.0694	0.0697	92.5	92.9	77.0-120					0.430	
o-Xylene	0.0250	0.0232	0.0233	92.7	93.2	78.0-120					0.560	
m&p-Xylenes	0.0500	0.0462	0.0464	92.5	92.8	77.0-120					0.340	
(S) Toluene-d8				104	104	80.0-120						
(S) Dibromofluoromethane				104	102	76.0-123						
(S) 4-Bromofluorobenzene				98.4	99.3	80.0-120						



Method Blank (MB)

(MB) R3216109.3 05/02/17 18:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3216109-3 05/02/17 18:26

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDLC
Trichloroethene	U	0.000398	0.00100	
1,2,4-Trimethylbenzene	U	0.000373	0.00100	
1,3,5-Trimethylbenzene	U	0.000387	0.00100	
Vinyl chloride	U	0.000259	0.00100	
Xylenes, Total	U	0.00106	0.00300	
o-Xylene	U	0.000341	0.00100	
m&p-Xylenes	U	0.000719	0.00200	
(S) Toluene-d8	96.3		80.0-120	
(S) Dibromofluoromethane	82.9		76.0-123	
(S) 4-Bromofluorobenzene	96.4		80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216109-1 05/02/17 17:42 • (LCSD) R3216109-2 05/02/17 17:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.175	0.186	140	148	10.0-160			5.74	23
Benzene	0.0250	0.0216	0.0225	86.2	90.0	69.0-123			4.29	20
Bromodichloromethane	0.0250	0.0241	0.0249	96.3	99.7	76.0-120			3.50	20
Bromoform	0.0250	0.0250	0.0259	99.9	103	67.0-132			3.50	20
Bromomethane	0.0250	0.0191	0.0210	76.3	83.9	18.0-160			9.55	20
n-Butylbenzene	0.0250	0.0240	0.0257	96.1	103	72.0-126			6.88	20
sec-Butylbenzene	0.0250	0.0230	0.0249	92.0	99.7	74.0-121			8.00	20
Carbon disulfide	0.0250	0.0204	0.0217	81.5	86.6	55.0-127			6.04	20
Carbon tetrachloride	0.0250	0.0209	0.0222	83.7	88.7	63.0-122			5.81	20
Chlorobenzene	0.0250	0.0248	0.0258	99.0	103	79.0-121			4.15	20
Chlorodibromomethane	0.0250	0.0249	0.0257	99.5	103	75.0-125			3.33	20
Chloroethane	0.0250	0.0216	0.0234	86.3	93.7	47.0-152			8.26	20
Chloroform	0.0250	0.0212	0.0221	84.9	88.6	72.0-121			4.29	20
Chloromethane	0.0250	0.0229	0.0247	91.8	98.8	48.0-139			7.39	20
1,2-Dibromoethane	0.0250	0.0255	0.0262	102	105	77.0-123			2.86	20
1,1-Dichloroethane	0.0250	0.0213	0.0223	85.3	89.1	70.0-126			4.34	20
1,2-Dichloroethane	0.0250	0.0226	0.0233	90.2	93.1	67.0-126			3.12	20
1,1-Dichloroethene	0.0250	0.0211	0.0222	84.3	88.8	64.0-129			5.20	20
cis-1,2-Dichloroethene	0.0250	0.0209	0.0217	83.7	86.9	73.0-120			3.75	20
trans-1,2-Dichloroethene	0.0250	0.0206	0.0214	82.4	85.5	71.0-121			3.65	20
1,2-Dichloropropane	0.0250	0.0245	0.0255	98.1	102	75.0-125			3.75	20
cis-1,3-Dichloropropene	0.0250	0.0258	0.0265	103	106	79.0-123			2.86	20
trans-1,3-Dichloropropene	0.0250	0.0262	0.0268	105	107	74.0-127			2.42	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216109-1 05/02/17 17:42 • (LCSD) R3216109-2 05/02/17 17:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0243	0.0256	97.3	102	77.0-120			5.18	20
2-Hexanone	0.125	0.154	0.160	123	128	58.0-147			4.08	20
Isopropylbenzene	0.0250	0.0239	0.0256	95.6	102	75.0-120			6.75	20
p-Isopropyltoluene	0.0250	0.0230	0.0240	92.0	96.1	74.0-126			4.38	20
2-Butanone (MEK)	0.125	0.139	0.144	111	116	37.0-158			4.04	20
Methylene Chloride	0.0250	0.0213	0.0223	85.3	89.1	66.0-121			4.30	20
4-Methyl-2-pentanone (MIBK)	0.125	0.132	0.135	105	108	59.0-143			2.64	20
Methyl tert-butyl ether	0.0250	0.0223	0.0230	89.2	92.2	64.0-123			3.35	20
Naphthalene	0.0250	0.0231	0.0251	92.2	100	62.0-128			8.53	20
n-Propylbenzene	0.0250	0.0242	0.0256	96.6	102	79.0-120			5.67	20
Styrene	0.0250	0.0258	0.0269	103	108	78.0-124			4.45	20
1,1,1,2-Tetrachloroethane	0.0250	0.0231	0.0242	92.3	96.8	75.0-122			4.84	20
1,1,2,2-Tetrachloroethane	0.0250	0.0233	0.0240	93.3	95.9	71.0-122			2.79	20
Tetrachloroethene	0.0250	0.0241	0.0253	96.4	101	70.0-127			4.87	20
Toluene	0.0250	0.0246	0.0258	98.5	103	77.0-120			4.76	20
1,1,1-Trichloroethane	0.0250	0.0210	0.0222	84.2	88.7	68.0-122			5.23	20
1,1,2-Trichloroethane	0.0250	0.0246	0.0254	98.6	102	78.0-120			3.10	20
Trichloroethene	0.0250	0.0238	0.0251	95.3	100	78.0-120			5.03	20
1,2,4-Trimethylbenzene	0.0250	0.0234	0.0248	93.7	99.3	75.0-120			5.85	20
1,3,5-Trimethylbenzene	0.0250	0.0237	0.0251	94.7	101	75.0-120			6.03	20
Vinyl chloride	0.0250	0.0238	0.0254	95.4	102	64.0-133			6.42	20
Xylenes, Total	0.0750	0.0727	0.0766	96.9	102	77.0-120			5.22	20
o-Xylene	0.0250	0.0238	0.0252	95.1	101	78.0-120			5.77	20
m&p-Xylenes	0.0500	0.0489	0.0514	97.8	103	77.0-120			5.01	20
(S) Toluene-d8				95.2	96.0	80.0-120				
(S) Dibromofluoromethane				82.8	81.7	76.0-123				
(S) 4-Bromofluorobenzene				90.7	90.8	80.0-120				



Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	105		80.0-120	
(S) Dibromofluoromethane	108		76.0-123	
(S) 4-Bromofluorobenzene	92.1		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.171	0.171	137	137	10.0-160			0.310	23
Benzene	0.0250	0.0236	0.0236	94.6	94.5	69.0-123			0.0300	20
Bromodichloromethane	0.0250	0.0237	0.0239	94.7	95.6	76.0-120			0.930	20
Bromoform	0.0250	0.0228	0.0231	91.3	92.5	67.0-132			1.24	20
Bromomethane	0.0250	0.0366	0.0359	147	144	18.0-160			2.00	20
n-Butylbenzene	0.0250	0.0244	0.0246	97.7	98.5	72.0-126			0.810	20
sec-Butylbenzene	0.0250	0.0248	0.0251	99.2	100	74.0-121			1.07	20
Carbon disulfide	0.0250	0.0215	0.0218	86.0	87.3	55.0-127			1.47	20
Carbon tetrachloride	0.0250	0.0245	0.0250	98.0	99.9	63.0-122			1.89	20
Chlorobenzene	0.0250	0.0221	0.0224	88.3	89.5	79.0-121			1.42	20
Chlorodibromomethane	0.0250	0.0219	0.0222	87.4	88.7	75.0-125			1.47	20
Chloroethane	0.0250	0.0307	0.0323	123	129	47.0-152			5.13	20
Chloroform	0.0250	0.0235	0.0233	93.8	93.3	72.0-121			0.530	20
Chloromethane	0.0250	0.0238	0.0242	95.4	96.9	48.0-139			1.56	20
1,2-Dibromoethane	0.0250	0.0217	0.0221	86.9	88.3	77.0-123			1.53	20
1,1-Dichloroethane	0.0250	0.0235	0.0237	93.9	94.9	70.0-126			1.11	20
1,2-Dichloroethane	0.0250	0.0220	0.0220	88.0	87.9	67.0-126			0.170	20
1,1-Dichloroethene	0.0250	0.0223	0.0228	89.1	91.0	64.0-129			2.17	20
cis-1,2-Dichloroethene	0.0250	0.0229	0.0230	91.6	92.0	73.0-120			0.420	20
trans-1,2-Dichloroethene	0.0250	0.0266	0.0272	106	109	71.0-121			2.38	20
1,2-Dichloropropane	0.0250	0.0224	0.0225	89.4	90.0	75.0-125			0.620	20
cis-1,3-Dichloropropene	0.0250	0.0216	0.0215	86.3	86.0	79.0-123			0.350	20
trans-1,3-Dichloropropene	0.0250	0.0203	0.0203	81.3	81.0	74.0-127			0.350	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
							%		%		%	
Ethylbenzene	0.0250	0.0223	0.0225	89.1	90.1	77.0-120					1.18	
2-Hexanone	0.125	0.121	0.120	97.1	95.7	58.0-147					1.48	
Isopropylbenzene	0.0250	0.0232	0.0235	92.9	94.2	75.0-120					1.40	
p-Isopropyltoluene	0.0250	0.0246	0.0251	98.5	100	74.0-126					1.74	
2-Butanone (MEK)	0.125	0.120	0.120	95.7	96.1	37.0-158					0.360	
Methylene Chloride	0.0250	0.0290	0.0291	116	116	66.0-121					0.220	
4-Methyl-2-pentanone (MIBK)	0.125	0.113	0.112	90.2	89.4	59.0-143					0.890	
Methyl tert-butyl ether	0.0250	0.0258	0.0269	103	107	64.0-123					4.12	
Naphthalene	0.0250	0.0205	0.0208	81.9	83.2	62.0-128					1.56	
n-Propylbenzene	0.0250	0.0237	0.0241	94.8	96.2	79.0-120					1.48	
Styrene	0.0250	0.0213	0.0216	85.2	86.2	78.0-124					1.11	
1,1,1,2-Tetrachloroethane	0.0250	0.0241	0.0242	96.3	96.7	75.0-122					0.450	
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0227	88.1	90.9	71.0-122					3.06	
Tetrachloroethene	0.0250	0.0224	0.0228	89.8	91.4	70.0-127					1.77	
Toluene	0.0250	0.0226	0.0224	90.4	89.7	77.0-120					0.770	
1,1,1-Trichloroethane	0.0250	0.0244	0.0240	97.4	95.9	68.0-122					1.56	
1,1,2-Trichloroethane	0.0250	0.0221	0.0218	88.4	87.2	78.0-120					1.35	
Trichloroethene	0.0250	0.0246	0.0243	98.5	97.2	78.0-120					1.40	
1,2,4-Trimethylbenzene	0.0250	0.0228	0.0230	91.1	92.1	75.0-120					1.06	
1,3,5-Trimethylbenzene	0.0250	0.0235	0.0239	94.0	95.7	75.0-120					1.75	
Vinyl chloride	0.0250	0.0268	0.0278	107	111	64.0-133					3.68	
Xylenes, Total	0.0750	0.0667	0.0680	88.9	90.7	77.0-120					1.93	
o-Xylene	0.0250	0.0223	0.0228	89.3	91.1	78.0-120					1.93	
m&p-Xylenes	0.0500	0.0444	0.0452	88.9	90.5	77.0-120					1.77	
(S) Toluene-d8				103	102	80.0-120						
(S) Dibromofluoromethane				105	106	76.0-123						
(S) 4-Bromofluorobenzene				95.8	96.7	80.0-120						



Method Blank (MB)

(MB) R3215650-1 05/03/17 17:13

Analyte	MB Result		MB Qualifier		MB MDL		MB RDL	
	mg/l		mg/l		mg/l		mg/l	
TPH (GC/FID) High Fraction	U		0.0247		0.100			
(S) o-Terphenyl	73.1				31.0-160			

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215650-2 05/03/17 17:31 • (LCSD) R3215650-3 05/03/17 17:49

Analyte	Spike Amount		LCS Result		LCSD Result		LCS Rec.		LCSD Rec.		Rec. Limits		LCS Qualifier		LCSD Qualifier		RPD		RPD Limits	
	mg/l		mg/l		mg/l		%		%		%		%		%	%		%	%	
TPH (GC/FID) High Fraction	1.50		1.78		2.18		119		145		50.0-150						19.9		20	
(S) o-Terphenyl							73.2		81.9		31.0-160									

L905796-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905796-07 05/05/17 07:55 • (MS) R3215847-1 05/05/17 08:12 • (MSD) R3215847-2 05/05/17 08:57

Analyte	Spike Amount		Original Result		MS Result		MSD Result		MS Rec.		MSD Rec.		Dilution	Rec. Limits	MS Qualifier		MSD Qualifier		RPD	RPD Limits
	mg/l		mg/l		mg/l		mg/l		%		%				%		%	%		
TPH (GC/FID) High Fraction	1.50		1.89		3.89		3.65		133		118		1	50.0-150			6.33		20	
(S) o-Terphenyl							81.1		81.1		77.6			31.0-160						



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier Description

B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

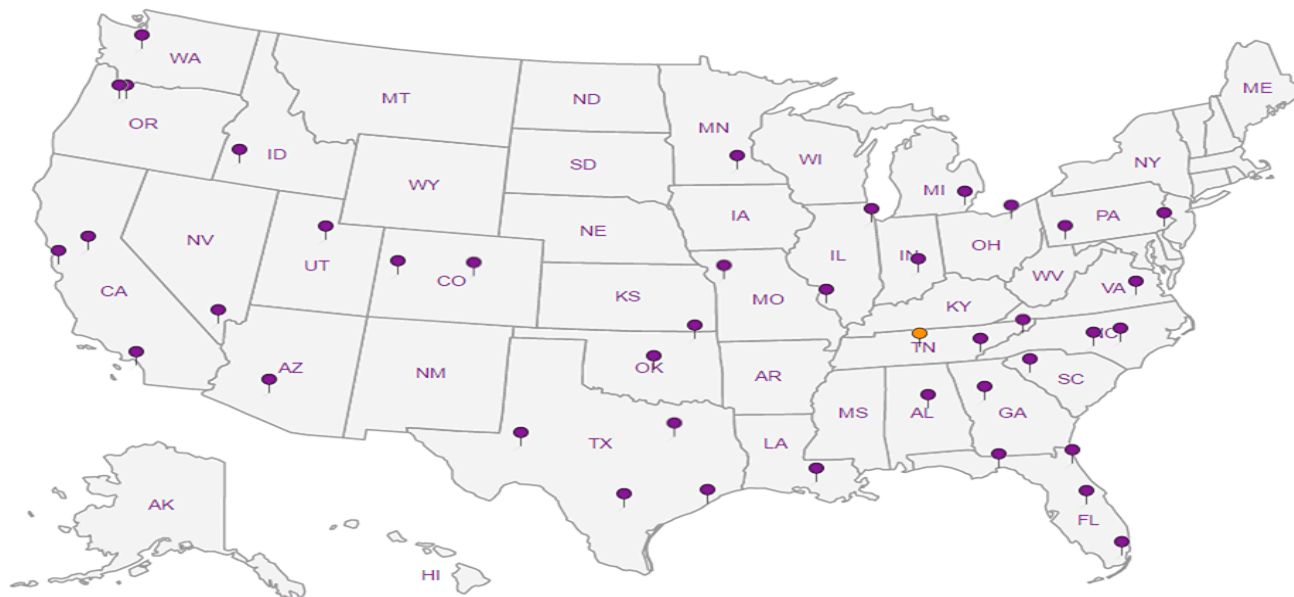
⁹ Sc

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	IN00003		

Our Locations



Company Name/Address:

TRC Solutions - Austin, TX

505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:

Julie Speer

Email To:

jspeer@trcsolutions.com

Project

TEL Spring 2017

Description:

Phone: 512-684-3170

Fax:

Collected by (print):

Scott Ude/HMI Team

Collected by (signature):

Scott Ude

Immediately

Packed on ice N ☒ Y ☒

Client Project #

Site/Facility ID #

TEL (Navajo - Artesia)

Rush? (Lab MUST Be Notified)

Same Day 200%

Next Day 100%

Two Day 50%

Three Day 25%

Sample ID

DUP-TEL-01

EB-TEL-01

Trip Blank-TEL-01

Comp/Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Depth

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

Date

4/27/17

4/27/17

4/27/17

Time

1100

1205

—

Email? ☒ No ☒ YesFAX? ☐ No ☐ Yes

Date Results Needed

P.O. #

107027

No. of

Cntrs

10

10

1

Analysis / Container / Preservative

Short List Metals (Total & Dissolved)

Cations (from "total metals" bottle)

Anions

Long List Metals (Total & Dissolved)

Chain of Custody

Page 1 of 34

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1905645

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Rem / Contaminant

Sample # (lab only)

05

06

07

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: ☒ UPS ☐ FedEx ☐ Courier

Temp: 24 °C Bottles Received:

Date: 4-28-17

Time: 8:45

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Date:

Date:

Date:

Time:

Time:

Time:

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Date:

Date:

Date:

Time:

Time:

Time:

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Condition:

(lab use only)

Hold #

Condition:

COC Seal Intact: ☒ Y ☐ N ☐ NA

pH Checked:

NCF:

ESC LAB SCIENCES Cooler Receipt Form

Client: RCATX	SDG#	19056VH
Cooler Received/Opened On: 4/ 28 /17	Temperature:	2.6
Received By: MICHAEL Witherspoon		
Signature: MW		
Receipt Check List	NP	Yes No
COC Seal Present / Intact?		
COC Signed / Accurate?		
Bottles arrive intact?		
Correct bottles used?		
Sufficient volume sent?		
If Applicable		
VOA Zero headspace?		
Preservation Correct / Checked?		

May 10, 2017

TRC Solutions - Austin, TX

Sample Delivery Group: L905651
Samples Received: 04/28/2017
Project Number: 249545.0000.0000 000
Description: NCL Spring 2017
Site: NCL - NAVAJO-ARTESIA
Report To: Julie Speer
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Entire Report Reviewed By:



Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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MW-18 L905651-03	12
NCL-34A L905651-04	15
NCL-33 L905651-05	17
NCL-44 L905651-06	19
NCL-32 L905651-07	21
MW-108 L905651-08	23
NCL-31 L905651-09	25
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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-56 L905651-01 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:25

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975894	1	05/03/17 15:04	05/03/17 15:04	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 14:27	05/04/17 14:27	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 14:43	05/04/17 14:43	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:39	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 03:34	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 20:55	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 20:23	05/02/17 20:23	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 03:59	TH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

MW-55 L905651-02 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:00

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	1	05/03/17 15:05	05/03/17 15:05	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 10:56	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 14:58	05/04/17 14:58	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 15:13	05/04/17 15:13	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 15:52	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:30	TRB
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:43	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 03:55	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:09	VSS
Metals (ICPMS) by Method 6020	WG976972	1	05/05/17 13:15	05/10/17 11:36	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 00:53	05/01/17 00:53	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 20:38	05/02/17 20:38	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 04:16	TH

⁷ Gl

⁸ Al

⁹ Sc

MW-18 L905651-03 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 09:15

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	20	05/03/17 15:06	05/03/17 15:06	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 10:57	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 15:29	05/04/17 15:29	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 15:44	05/04/17 15:44	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 15:54	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:32	TRB
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:46	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 03:58	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:12	VSS
Metals (ICPMS) by Method 6020	WG976972	1	05/05/17 13:15	05/10/17 11:49	JPD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 20:53	05/02/17 20:53	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 04:33	TH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



NCL-34A L905651-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:50

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975894	1	05/03/17 15:07	05/03/17 15:07	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 16:00	05/04/17 16:00	SAM
Wet Chemistry by Method 9056A	WG976555	10	05/04/17 16:15	05/04/17 16:15	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:50	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:02	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:27	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	50	05/02/17 22:50	05/02/17 22:50	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	5	05/01/17 23:00	05/06/17 00:27	DMG

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

NCL-33 L905651-05 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:10

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975894	1	05/03/17 15:15	05/03/17 15:15	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 16:30	05/04/17 16:30	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 16:46	05/04/17 16:46	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:53	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:06	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:31	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 21:07	05/02/17 21:07	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 04:50	TH

NCL-44 L905651-06 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 11:25

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975894	1	05/03/17 15:16	05/03/17 15:16	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 17:36	05/04/17 17:36	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 17:51	05/04/17 17:51	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:04	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:09	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:34	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 21:22	05/02/17 21:22	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	5	05/01/17 23:00	05/06/17 00:44	DMG

NCL-32 L905651-07 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:35

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975895	1	05/05/17 10:04	05/05/17 10:04	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 18:07	05/04/17 18:07	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 18:22	05/04/17 18:22	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:07	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:13	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:38	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 21:37	05/02/17 21:37	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 08:47	TH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-108 L905651-08 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:05

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975895	1	05/05/17 10:06	05/05/17 10:06	DR
Wet Chemistry by Method 9056A	WG976223	10	05/04/17 12:33	05/04/17 12:33	KCF
Wet Chemistry by Method 9056A	WG976555	1	05/05/17 00:48	05/05/17 00:48	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:11	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:16	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:41	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	25	05/02/17 23:05	05/02/17 23:05	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	5	05/01/17 23:00	05/06/17 00:10	DMG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

NCL-31 L905651-09 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:50

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975895	1	05/05/17 10:13	05/05/17 10:13	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 18:38	05/04/17 18:38	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 18:53	05/04/17 18:53	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:14	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:20	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:44	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 21:51	05/02/17 21:51	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/05/17 23:53	DMG

EB-NCL-01 L905651-10 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:45

Received date/time
04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975895	1	05/05/17 10:15	05/05/17 10:15	DR
Wet Chemistry by Method 9056A	WG976555	1	05/05/17 09:57	05/05/17 09:57	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:18	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:23	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:48	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 22:06	05/02/17 22:06	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 05:07	TH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4100		2.82	10.0	1	05/03/2017 12:09	WG975503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	3.93		0.0197	0.100	1	05/03/2017 15:04	WG975894

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	453		2.60	50.0	50	05/04/2017 14:43	WG976555
Fluoride	1.00		0.00990	0.100	1	05/04/2017 14:27	WG976555
Sulfate	2070		3.87	250	50	05/04/2017 14:43	WG976555

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00642		0.000250	0.00200	1	05/05/2017 03:34	WG975082
Arsenic,Dissolved	0.00665		0.000250	0.00200	1	05/05/2017 02:39	WG975071
Barium	0.0157		0.000360	0.00500	1	05/05/2017 03:34	WG975082
Barium,Dissolved	0.0174		0.000360	0.00500	1	05/05/2017 02:39	WG975071
Calcium	501	V	0.0460	1.00	1	05/05/2017 03:34	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 03:34	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 02:39	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 03:34	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:39	WG975071
Lead	0.000467	J	0.000240	0.00200	1	05/05/2017 20:55	WG975082
Lead,Dissolved	0.000369	J	0.000240	0.00200	1	05/05/2017 02:39	WG975071
Manganese	0.320		0.000250	0.00500	1	05/05/2017 03:34	WG975082
Manganese,Dissolved	0.339		0.000250	0.00500	1	05/05/2017 02:39	WG975071
Potassium	2.10		0.0370	1.00	1	05/05/2017 03:34	WG975082
Selenium	0.00325		0.000380	0.00200	1	05/05/2017 03:34	WG975082
Selenium,Dissolved	0.00306		0.000380	0.00200	1	05/05/2017 02:39	WG975071
Sodium	338	V	0.110	1.00	1	05/05/2017 03:34	WG975082

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 20:23	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 20:23	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 20:23	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 20:23	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 20:23	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 20:23	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 20:23	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 20:23	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 20:23	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 20:23	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 20:23	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 20:23	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 20:23	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 20:23	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 20:23	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 20:23	WG975535



Collected date/time: 04/26/17 14:25

L905651

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 20:23	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 20:23	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 20:23	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 20:23	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 20:23	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 20:23	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 20:23	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 20:23	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 20:23	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 20:23	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 20:23	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 20:23	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 20:23	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 20:23	WG975535
Methyl tert-butyl ether	0.0222		0.000367	0.00100	1	05/02/2017 20:23	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 20:23	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 20:23	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 20:23	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 20:23	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 20:23	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 20:23	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 20:23	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 20:23	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 20:23	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 20:23	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 20:23	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 20:23	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 20:23	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 20:23	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 20:23	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 20:23	WG975535
(S) Toluene-d8	96.4			80.0-120		05/02/2017 20:23	WG975535
(S) Dibromofluoromethane	82.7			76.0-123		05/02/2017 20:23	WG975535
(S) 4-Bromofluorobenzene	94.1			80.0-120		05/02/2017 20:23	WG975535

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.15		0.0247	0.100	1	05/03/2017 03:59	WG975555
(S) o-Terphenyl	74.2			31.0-160		05/03/2017 03:59	WG975555



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3580		2.82	10.0	1	05/03/2017 14:04	WG975909

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	3.14		0.0197	0.100	1	05/03/2017 15:05	WG975894

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 10:56	WG975005

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	446		2.60	50.0	50	05/04/2017 15:13	WG976555
Fluoride	1.44		0.00990	0.100	1	05/04/2017 14:58	WG976555
Sulfate	1550		3.87	250	50	05/04/2017 15:13	WG976555

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 15:52	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:30	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00565		0.000250	0.00200	1	05/05/2017 03:55	WG975082
Arsenic,Dissolved	0.00560		0.000250	0.00200	1	05/05/2017 02:43	WG975071
Barium	0.0128		0.000360	0.00500	1	05/05/2017 03:55	WG975082
Barium,Dissolved	0.0136		0.000360	0.00500	1	05/05/2017 02:43	WG975071
Boron	0.829		0.00150	0.0200	1	05/05/2017 03:55	WG975082
Boron,Dissolved	0.756		0.00150	0.0200	1	05/10/2017 11:36	WG976972
Cadmium	U		0.000160	0.00100	1	05/05/2017 03:55	WG975082
Cadmium,Dissolved	U		0.000160	0.00100	1	05/05/2017 02:43	WG975071
Calcium	378		0.0460	1.00	1	05/05/2017 03:55	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 03:55	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 02:43	WG975071
Cobalt	0.000407	J	0.000260	0.00200	1	05/05/2017 03:55	WG975082
Cobalt,Dissolved	U		0.000260	0.00200	1	05/05/2017 02:43	WG975071
Iron	0.0222	J	0.0150	0.100	1	05/05/2017 03:55	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:43	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 21:09	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:43	WG975071
Manganese	0.0682		0.000250	0.00500	1	05/05/2017 03:55	WG975082
Manganese,Dissolved	0.0235		0.000250	0.00500	1	05/05/2017 02:43	WG975071
Nickel	0.00552		0.000350	0.00200	1	05/05/2017 03:55	WG975082
Nickel,Dissolved	0.00540		0.000350	0.00200	1	05/05/2017 02:43	WG975071
Potassium	0.745	J	0.0370	1.00	1	05/05/2017 03:55	WG975082
Selenium	0.00436		0.000380	0.00200	1	05/05/2017 03:55	WG975082
Selenium,Dissolved	0.00494		0.000380	0.00200	1	05/05/2017 02:43	WG975071
Sodium	206		0.110	1.00	1	05/05/2017 03:55	WG975082



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0406		0.000330	0.0100	1	05/05/2017 21:09	WG975082
Uranium,Dissolved	0.0395		0.000330	0.0100	1	05/05/2017 02:43	WG975071
Vanadium	0.0192		0.000180	0.00500	1	05/05/2017 03:55	WG975082
Vanadium,Dissolved	0.0190		0.000180	0.00500	1	05/05/2017 02:43	WG975071

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 00:53	WG975302
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		05/01/2017 00:53	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 20:38	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 20:38	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 20:38	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 20:38	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 20:38	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 20:38	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 20:38	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 20:38	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 20:38	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 20:38	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 20:38	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 20:38	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 20:38	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 20:38	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 20:38	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 20:38	WG975535
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 20:38	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 20:38	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 20:38	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 20:38	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 20:38	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 20:38	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 20:38	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 20:38	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 20:38	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 20:38	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 20:38	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 20:38	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 20:38	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 20:38	WG975535
Methyl tert-butyl ether	0.0535		0.000367	0.00100	1	05/02/2017 20:38	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 20:38	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 20:38	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 20:38	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 20:38	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 20:38	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 20:38	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 20:38	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 20:38	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 20:38	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 20:38	WG975535

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/27/17 10:00

L905651

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 20:38	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 20:38	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 20:38	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 20:38	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 20:38	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 20:38	WG975535
(S) Toluene-d8	96.1			80.0-120		05/02/2017 20:38	WG975535
(S) Dibromofluoromethane	82.2			76.0-123		05/02/2017 20:38	WG975535
(S) 4-Bromofluorobenzene	91.3			80.0-120		05/02/2017 20:38	WG975535

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.08		0.0247	0.100	1	05/03/2017 04:16	WG975555
(S) o-Terphenyl	77.5			31.0-160		05/03/2017 04:16	WG975555

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3420		2.82	10.0	1	05/03/2017 14:04	WG975909

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	51.0		0.394	2.00	20	05/03/2017 15:06	WG975894

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 10:57	WG975005

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	77.5		0.0519	1.00	1	05/04/2017 15:29	WG976555
Fluoride	3.44		0.00990	0.100	1	05/04/2017 15:29	WG976555
Sulfate	1970		3.87	250	50	05/04/2017 15:44	WG976555

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 15:54	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:32	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00365		0.000250	0.00200	1	05/05/2017 03:58	WG975082
Arsenic,Dissolved	0.00373		0.000250	0.00200	1	05/05/2017 02:46	WG975071
Barium	0.0183		0.000360	0.00500	1	05/05/2017 03:58	WG975082
Barium,Dissolved	0.0211		0.000360	0.00500	1	05/05/2017 02:46	WG975071
Boron	1.71		0.00150	0.0200	1	05/05/2017 03:58	WG975082
Boron,Dissolved	1.50		0.00150	0.0200	1	05/10/2017 11:49	WG976972
Cadmium	U		0.000160	0.00100	1	05/05/2017 03:58	WG975082
Cadmium,Dissolved	U		0.000160	0.00100	1	05/05/2017 02:46	WG975071
Calcium	486		0.0460	1.00	1	05/05/2017 03:58	WG975082
Chromium	0.00222		0.000540	0.00200	1	05/05/2017 03:58	WG975082
Chromium,Dissolved	0.00176	B J	0.000540	0.00200	1	05/05/2017 02:46	WG975071
Cobalt	0.000321	J	0.000260	0.00200	1	05/05/2017 03:58	WG975082
Cobalt,Dissolved	0.000362	J	0.000260	0.00200	1	05/05/2017 02:46	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 03:58	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:46	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 21:12	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:46	WG975071
Manganese	0.00474	B J	0.000250	0.00500	1	05/05/2017 03:58	WG975082
Manganese,Dissolved	0.00248	J	0.000250	0.00500	1	05/05/2017 02:46	WG975071
Nickel	0.00120	J	0.000350	0.00200	1	05/05/2017 03:58	WG975082
Nickel,Dissolved	0.00198	B J	0.000350	0.00200	1	05/05/2017 02:46	WG975071
Potassium	13.9		0.0370	1.00	1	05/05/2017 03:58	WG975082
Selenium	0.0151		0.000380	0.00200	1	05/05/2017 03:58	WG975082
Selenium,Dissolved	0.0155		0.000380	0.00200	1	05/05/2017 02:46	WG975071
Sodium	65.0		0.110	1.00	1	05/05/2017 03:58	WG975082

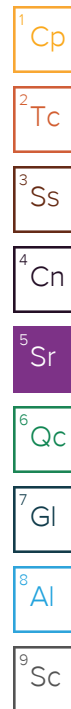


Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0250		0.000330	0.0100	1	05/05/2017 21:12	WG975082
Uranium,Dissolved	0.0242		0.000330	0.0100	1	05/05/2017 02:46	WG975071
Vanadium	0.0195		0.000180	0.00500	1	05/05/2017 03:58	WG975082
Vanadium,Dissolved	0.0198		0.000180	0.00500	1	05/05/2017 02:46	WG975071

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 20:53	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 20:53	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 20:53	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 20:53	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 20:53	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 20:53	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 20:53	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 20:53	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 20:53	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 20:53	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 20:53	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 20:53	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 20:53	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 20:53	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 20:53	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 20:53	WG975535
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 20:53	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 20:53	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 20:53	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 20:53	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 20:53	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 20:53	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 20:53	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 20:53	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 20:53	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 20:53	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 20:53	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 20:53	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 20:53	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 20:53	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 20:53	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 20:53	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 20:53	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 20:53	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 20:53	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 20:53	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 20:53	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 20:53	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 20:53	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 20:53	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 20:53	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 20:53	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 20:53	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 20:53	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 20:53	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 20:53	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 20:53	WG975535
(S) Toluene-d8	94.4			80.0-120		05/02/2017 20:53	WG975535



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Dibromofluoromethane	80.8			76.0-123		05/02/2017 20:53	WG975535
(S) 4-Bromofluorobenzene	92.5			80.0-120		05/02/2017 20:53	WG975535

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.960		0.0247	0.100	1	05/03/2017 04:33	WG975555
(S) o-Terphenyl	76.8			31.0-160		05/03/2017 04:33	WG975555

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1440		2.82	10.0	1	05/03/2017 12:09	WG975503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0570	J J6	0.0197	0.100	1	05/03/2017 15:07	WG975894

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	313		0.519	10.0	10	05/04/2017 16:15	WG976555
Fluoride	1.27		0.00990	0.100	1	05/04/2017 16:00	WG976555
Sulfate	76.1		0.0774	5.00	1	05/04/2017 16:00	WG976555

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000829	J	0.000250	0.00200	1	05/05/2017 04:02	WG975082
Arsenic,Dissolved	0.000865	J	0.000250	0.00200	1	05/05/2017 02:50	WG975071
Barium	0.458		0.000360	0.00500	1	05/05/2017 04:02	WG975082
Barium,Dissolved	0.493		0.000360	0.00500	1	05/05/2017 02:50	WG975071
Calcium	270		0.0460	1.00	1	05/05/2017 04:02	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:02	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 02:50	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 04:02	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:50	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 21:27	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:50	WG975071
Manganese	0.0146		0.000250	0.00500	1	05/05/2017 04:02	WG975082
Manganese,Dissolved	0.0171		0.000250	0.00500	1	05/05/2017 02:50	WG975071
Potassium	1.36		0.0370	1.00	1	05/05/2017 04:02	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:02	WG975082
Selenium,Dissolved	0.000444	J	0.000380	0.00200	1	05/05/2017 02:50	WG975071
Sodium	108		0.110	1.00	1	05/05/2017 04:02	WG975082

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.500	2.50	50	05/02/2017 22:50	WG975535
Benzene	1.78		0.0166	0.0500	50	05/02/2017 22:50	WG975535
Bromodichloromethane	U		0.0190	0.0500	50	05/02/2017 22:50	WG975535
Bromoform	U		0.0234	0.0500	50	05/02/2017 22:50	WG975535
Bromomethane	U		0.0433	0.250	50	05/02/2017 22:50	WG975535
n-Butylbenzene	U		0.0180	0.0500	50	05/02/2017 22:50	WG975535
sec-Butylbenzene	0.0184	J	0.0182	0.0500	50	05/02/2017 22:50	WG975535
Carbon disulfide	U		0.0138	0.0500	50	05/02/2017 22:50	WG975535
Carbon tetrachloride	U		0.0190	0.0500	50	05/02/2017 22:50	WG975535
Chlorobenzene	U		0.0174	0.0500	50	05/02/2017 22:50	WG975535
Chlorodibromomethane	U		0.0164	0.0500	50	05/02/2017 22:50	WG975535
Chloroethane	U		0.0226	0.250	50	05/02/2017 22:50	WG975535
Chloroform	U		0.0162	0.250	50	05/02/2017 22:50	WG975535
Chloromethane	U		0.0138	0.125	50	05/02/2017 22:50	WG975535
1,2-Dibromoethane	U		0.0190	0.0500	50	05/02/2017 22:50	WG975535
1,1-Dichloroethane	U		0.0130	0.0500	50	05/02/2017 22:50	WG975535



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0180	0.0500	50	05/02/2017 22:50	WG975535
1,1-Dichloroethene	U		0.0199	0.0500	50	05/02/2017 22:50	WG975535
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/02/2017 22:50	WG975535
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/02/2017 22:50	WG975535
1,2-Dichloropropane	U		0.0153	0.0500	50	05/02/2017 22:50	WG975535
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/02/2017 22:50	WG975535
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/02/2017 22:50	WG975535
Ethylbenzene	U		0.0192	0.0500	50	05/02/2017 22:50	WG975535
Isopropylbenzene	0.0914		0.0163	0.0500	50	05/02/2017 22:50	WG975535
p-Isopropyltoluene	U		0.0175	0.0500	50	05/02/2017 22:50	WG975535
2-Butanone (MEK)	U		0.196	0.500	50	05/02/2017 22:50	WG975535
2-Hexanone	U		0.191	0.500	50	05/02/2017 22:50	WG975535
Methylene Chloride	U		0.0500	0.250	50	05/02/2017 22:50	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/02/2017 22:50	WG975535
Methyl tert-butyl ether	U		0.0184	0.0500	50	05/02/2017 22:50	WG975535
Naphthalene	U		0.0500	0.250	50	05/02/2017 22:50	WG975535
n-Propylbenzene	0.101		0.0174	0.0500	50	05/02/2017 22:50	WG975535
Styrene	U		0.0154	0.0500	50	05/02/2017 22:50	WG975535
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/02/2017 22:50	WG975535
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/02/2017 22:50	WG975535
Tetrachloroethene	U		0.0186	0.0500	50	05/02/2017 22:50	WG975535
Toluene	U		0.0206	0.0500	50	05/02/2017 22:50	WG975535
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/02/2017 22:50	WG975535
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/02/2017 22:50	WG975535
Trichloroethene	U		0.0199	0.0500	50	05/02/2017 22:50	WG975535
1,2,4-Trimethylbenzene	0.0560		0.0186	0.0500	50	05/02/2017 22:50	WG975535
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	05/02/2017 22:50	WG975535
Vinyl chloride	U		0.0130	0.0500	50	05/02/2017 22:50	WG975535
o-Xylene	U		0.0170	0.0500	50	05/02/2017 22:50	WG975535
m&p-Xylene	0.100		0.0360	0.100	50	05/02/2017 22:50	WG975535
Xylenes, Total	0.100	J	0.0530	0.150	50	05/02/2017 22:50	WG975535
(S) Toluene-d8	95.4			80.0-120		05/02/2017 22:50	WG975535
(S) Dibromofluoromethane	82.1			76.0-123		05/02/2017 22:50	WG975535
(S) 4-Bromofluorobenzene	91.2			80.0-120		05/02/2017 22:50	WG975535

Sample Narrative:

8260B L905651-04 WG975535: Target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.4		0.124	0.500	5	05/06/2017 00:27	WG975555
(S) o-Terphenyl	77.0			31.0-160		05/06/2017 00:27	WG975555

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2750		2.82	10.0	1	05/03/2017 12:09	WG975503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0320	J	0.0197	0.100	1	05/03/2017 15:15	WG975894

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	412		2.60	50.0	50	05/04/2017 16:46	WG976555
Fluoride	2.62		0.00990	0.100	1	05/04/2017 16:30	WG976555
Sulfate	1220		3.87	250	50	05/04/2017 16:46	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00302		0.000250	0.00200	1	05/05/2017 04:06	WG975082
Arsenic,Dissolved	0.00153	J	0.000250	0.00200	1	05/05/2017 02:53	WG975071
Barium	0.0194		0.000360	0.00500	1	05/05/2017 04:06	WG975082
Barium,Dissolved	0.0217		0.000360	0.00500	1	05/05/2017 02:53	WG975071
Calcium	514		0.0460	1.00	1	05/05/2017 04:06	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:06	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 02:53	WG975071
Iron	1.12		0.0150	0.100	1	05/05/2017 04:06	WG975082
Iron,Dissolved	0.0173	J	0.0150	0.100	1	05/05/2017 02:53	WG975071
Lead	0.000288	J	0.000240	0.00200	1	05/05/2017 21:31	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:53	WG975071
Manganese	0.135		0.000250	0.00500	1	05/05/2017 04:06	WG975082
Manganese,Dissolved	0.141		0.000250	0.00500	1	05/05/2017 02:53	WG975071
Potassium	5.98		0.0370	1.00	1	05/05/2017 04:06	WG975082
Selenium	0.000546	J	0.000380	0.00200	1	05/05/2017 04:06	WG975082
Selenium,Dissolved	0.000812	J	0.000380	0.00200	1	05/05/2017 02:53	WG975071
Sodium	101		0.110	1.00	1	05/05/2017 04:06	WG975082

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 21:07	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 21:07	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:07	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:07	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:07	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:07	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 21:07	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 21:07	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:07	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:07	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:07	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:07	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:07	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:07	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:07	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:07	WG975535



Collected date/time: 04/26/17 12:10

L905651

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 21:07	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:07	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:07	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:07	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:07	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:07	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:07	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:07	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 21:07	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:07	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:07	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:07	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:07	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:07	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 21:07	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:07	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:07	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 21:07	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:07	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:07	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:07	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 21:07	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:07	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:07	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:07	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:07	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:07	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:07	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:07	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:07	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:07	WG975535
(S) Toluene-d8	96.9			80.0-120		05/02/2017 21:07	WG975535
(S) Dibromofluoromethane	83.8			76.0-123		05/02/2017 21:07	WG975535
(S) 4-Bromofluorobenzene	91.7			80.0-120		05/02/2017 21:07	WG975535

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.80		0.0247	0.100	1	05/03/2017 04:50	WG975555
(S) o-Terphenyl	71.4			31.0-160		05/03/2017 04:50	WG975555



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2390		2.82	10.0	1	05/03/2017 12:09	WG975503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0470	J	0.0197	0.100	1	05/03/2017 15:16	WG975894

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	198		2.60	50.0	50	05/04/2017 17:51	WG976555
Fluoride	1.65		0.00990	0.100	1	05/04/2017 17:36	WG976555
Sulfate	1070		3.87	250	50	05/04/2017 17:51	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0348		0.000250	0.00200	1	05/05/2017 04:09	WG975082
Arsenic,Dissolved	0.0279		0.000250	0.00200	1	05/05/2017 03:04	WG975071
Barium	0.0269		0.000360	0.00500	1	05/05/2017 04:09	WG975082
Barium,Dissolved	0.0281		0.000360	0.00500	1	05/05/2017 03:04	WG975071
Calcium	360		0.0460	1.00	1	05/05/2017 04:09	WG975082
Chromium	0.00235		0.000540	0.00200	1	05/05/2017 04:09	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 03:04	WG975071
Iron	0.953		0.0150	0.100	1	05/05/2017 04:09	WG975082
Iron,Dissolved	0.0169	J	0.0150	0.100	1	05/05/2017 03:04	WG975071
Lead	0.00102	J	0.000240	0.00200	1	05/05/2017 21:34	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:04	WG975071
Manganese	0.860		0.000250	0.00500	1	05/05/2017 04:09	WG975082
Manganese,Dissolved	0.895		0.000250	0.00500	1	05/05/2017 03:04	WG975071
Potassium	2.31		0.0370	1.00	1	05/05/2017 04:09	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:09	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:04	WG975071
Sodium	99.7		0.110	1.00	1	05/05/2017 04:09	WG975082

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 21:22	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 21:22	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:22	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:22	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:22	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:22	WG975535
sec-Butylbenzene	0.000618	J	0.000365	0.00100	1	05/02/2017 21:22	WG975535
Carbon disulfide	0.000300	J	0.000275	0.00100	1	05/02/2017 21:22	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:22	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:22	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:22	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:22	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:22	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:22	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:22	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:22	WG975535



Collected date/time: 04/26/17 11:25

L905651

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 21:22	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:22	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:22	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:22	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:22	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:22	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:22	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:22	WG975535
Isopropylbenzene	0.00130		0.000326	0.00100	1	05/02/2017 21:22	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:22	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:22	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:22	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:22	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:22	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 21:22	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:22	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:22	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 21:22	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:22	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:22	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:22	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 21:22	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:22	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:22	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:22	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:22	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:22	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:22	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:22	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:22	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:22	WG975535
(S) Toluene-d8	97.6			80.0-120		05/02/2017 21:22	WG975535
(S) Dibromofluoromethane	81.9			76.0-123		05/02/2017 21:22	WG975535
(S) 4-Bromofluorobenzene	91.3			80.0-120		05/02/2017 21:22	WG975535

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.97		0.124	0.500	5	05/06/2017 00:44	WG975555
(S) o-Terphenyl	72.0			31.0-160		05/06/2017 00:44	WG975555



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2440		2.82	10.0	1	05/03/2017 12:09	WG975503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	4.90		0.0197	0.100	1	05/05/2017 10:04	WG975895

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	155		2.60	50.0	50	05/04/2017 18:22	WG976555
Fluoride	1.54		0.00990	0.100	1	05/04/2017 18:07	WG976555
Sulfate	1310		3.87	250	50	05/04/2017 18:22	WG976555

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00358		0.000250	0.00200	1	05/05/2017 04:13	WG975082
Arsenic,Dissolved	0.00306		0.000250	0.00200	1	05/05/2017 03:07	WG975071
Barium	0.0195		0.000360	0.00500	1	05/05/2017 04:13	WG975082
Barium,Dissolved	0.0190		0.000360	0.00500	1	05/05/2017 03:07	WG975071
Calcium	387		0.0460	1.00	1	05/05/2017 04:13	WG975082
Chromium	0.00114	J	0.000540	0.00200	1	05/05/2017 04:13	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 03:07	WG975071
Iron	0.116		0.0150	0.100	1	05/05/2017 04:13	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:07	WG975071
Lead	0.00127	J	0.000240	0.00200	1	05/05/2017 21:38	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:07	WG975071
Manganese	0.988		0.000250	0.00500	1	05/05/2017 04:13	WG975082
Manganese,Dissolved	0.994		0.000250	0.00500	1	05/05/2017 03:07	WG975071
Potassium	3.19		0.0370	1.00	1	05/05/2017 04:13	WG975082
Selenium	0.00124	J	0.000380	0.00200	1	05/05/2017 04:13	WG975082
Selenium,Dissolved	0.00116	J	0.000380	0.00200	1	05/05/2017 03:07	WG975071
Sodium	102		0.110	1.00	1	05/05/2017 04:13	WG975082

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 21:37	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 21:37	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:37	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:37	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:37	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:37	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 21:37	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 21:37	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:37	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:37	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:37	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:37	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:37	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:37	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:37	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:37	WG975535



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 21:37	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:37	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:37	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:37	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:37	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:37	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:37	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:37	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 21:37	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:37	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:37	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:37	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:37	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:37	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 21:37	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:37	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:37	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 21:37	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:37	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:37	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:37	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 21:37	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:37	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:37	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:37	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:37	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:37	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:37	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:37	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:37	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:37	WG975535
(S) Toluene-d8	95.5			80.0-120		05/02/2017 21:37	WG975535
(S) Dibromofluoromethane	83.2			76.0-123		05/02/2017 21:37	WG975535
(S) 4-Bromofluorobenzene	89.2			80.0-120		05/02/2017 21:37	WG975535

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.88		0.0247	0.100	1	05/03/2017 08:47	WG975555
(S) o-Terphenyl	70.5			31.0-160		05/03/2017 08:47	WG975555



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1980		2.82	10.0	1	05/03/2017 12:09	WG975503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0310	J J6	0.0197	0.100	1	05/05/2017 10:06	WG975895

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	80.4		0.0519	1.00	1	05/05/2017 00:48	WG976555
Fluoride	1.90		0.00990	0.100	1	05/05/2017 00:48	WG976555
Sulfate	717		0.774	50.0	10	05/04/2017 12:33	WG976223

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00252		0.000250	0.00200	1	05/05/2017 04:16	WG975082
Arsenic,Dissolved	0.00283		0.000250	0.00200	1	05/05/2017 03:11	WG975071
Barium	0.0366		0.000360	0.00500	1	05/05/2017 04:16	WG975082
Barium,Dissolved	0.0428		0.000360	0.00500	1	05/05/2017 03:11	WG975071
Calcium	251		0.0460	1.00	1	05/05/2017 04:16	WG975082
Chromium	0.00124	J	0.000540	0.00200	1	05/05/2017 04:16	WG975082
Chromium,Dissolved	0.000655	B J	0.000540	0.00200	1	05/05/2017 03:11	WG975071
Iron	0.0538	J	0.0150	0.100	1	05/05/2017 04:16	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:11	WG975071
Lead	0.00145	J	0.000240	0.00200	1	05/05/2017 21:41	WG975082
Lead,Dissolved	0.000859	J	0.000240	0.00200	1	05/05/2017 03:11	WG975071
Manganese	0.0412		0.000250	0.00500	1	05/05/2017 04:16	WG975082
Manganese,Dissolved	0.0443		0.000250	0.00500	1	05/05/2017 03:11	WG975071
Potassium	0.893	J	0.0370	1.00	1	05/05/2017 04:16	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:16	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:11	WG975071
Sodium	81.7		0.110	1.00	1	05/05/2017 04:16	WG975082

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.250	1.25	25	05/02/2017 23:05	WG975535
Benzene	0.382		0.00828	0.0250	25	05/02/2017 23:05	WG975535
Bromodichloromethane	U		0.00950	0.0250	25	05/02/2017 23:05	WG975535
Bromoform	U		0.0117	0.0250	25	05/02/2017 23:05	WG975535
Bromomethane	U		0.0216	0.125	25	05/02/2017 23:05	WG975535
n-Butylbenzene	U		0.00902	0.0250	25	05/02/2017 23:05	WG975535
sec-Butylbenzene	U		0.00912	0.0250	25	05/02/2017 23:05	WG975535
Carbon disulfide	U		0.00688	0.0250	25	05/02/2017 23:05	WG975535
Carbon tetrachloride	U		0.00948	0.0250	25	05/02/2017 23:05	WG975535
Chlorobenzene	U		0.00870	0.0250	25	05/02/2017 23:05	WG975535
Chlorodibromomethane	U		0.00818	0.0250	25	05/02/2017 23:05	WG975535
Chloroethane	U		0.0113	0.125	25	05/02/2017 23:05	WG975535
Chloroform	U		0.00810	0.125	25	05/02/2017 23:05	WG975535
Chloromethane	U		0.00690	0.0625	25	05/02/2017 23:05	WG975535
1,2-Dibromoethane	U		0.00952	0.0250	25	05/02/2017 23:05	WG975535
1,1-Dichloroethane	U		0.00648	0.0250	25	05/02/2017 23:05	WG975535



Collected date/time: 04/26/17 09:05

L905651

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.00902	0.0250	25	05/02/2017 23:05	WG975535
1,1-Dichloroethene	U		0.00995	0.0250	25	05/02/2017 23:05	WG975535
cis-1,2-Dichloroethene	U		0.00650	0.0250	25	05/02/2017 23:05	WG975535
trans-1,2-Dichloroethene	U		0.00990	0.0250	25	05/02/2017 23:05	WG975535
1,2-Dichloropropane	U		0.00765	0.0250	25	05/02/2017 23:05	WG975535
cis-1,3-Dichloropropene	U		0.0104	0.0250	25	05/02/2017 23:05	WG975535
trans-1,3-Dichloropropene	U		0.0105	0.0250	25	05/02/2017 23:05	WG975535
Ethylbenzene	U		0.00960	0.0250	25	05/02/2017 23:05	WG975535
Isopropylbenzene	0.0384		0.00815	0.0250	25	05/02/2017 23:05	WG975535
p-Isopropyltoluene	U		0.00875	0.0250	25	05/02/2017 23:05	WG975535
2-Butanone (MEK)	U		0.0982	0.250	25	05/02/2017 23:05	WG975535
2-Hexanone	U		0.0955	0.250	25	05/02/2017 23:05	WG975535
Methylene Chloride	U		0.0250	0.125	25	05/02/2017 23:05	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.0535	0.250	25	05/02/2017 23:05	WG975535
Methyl tert-butyl ether	U		0.00918	0.0250	25	05/02/2017 23:05	WG975535
Naphthalene	U		0.0250	0.125	25	05/02/2017 23:05	WG975535
n-Propylbenzene	0.0396		0.00872	0.0250	25	05/02/2017 23:05	WG975535
Styrene	U		0.00768	0.0250	25	05/02/2017 23:05	WG975535
1,1,1,2-Tetrachloroethane	U		0.00962	0.0250	25	05/02/2017 23:05	WG975535
1,1,2,2-Tetrachloroethane	U		0.00325	0.0250	25	05/02/2017 23:05	WG975535
Tetrachloroethene	U		0.00930	0.0250	25	05/02/2017 23:05	WG975535
Toluene	U		0.0103	0.0250	25	05/02/2017 23:05	WG975535
1,1,1-Trichloroethane	U		0.00798	0.0250	25	05/02/2017 23:05	WG975535
1,1,2-Trichloroethane	U		0.00958	0.0250	25	05/02/2017 23:05	WG975535
Trichloroethene	U		0.00995	0.0250	25	05/02/2017 23:05	WG975535
1,2,4-Trimethylbenzene	0.0605		0.00932	0.0250	25	05/02/2017 23:05	WG975535
1,3,5-Trimethylbenzene	U		0.00968	0.0250	25	05/02/2017 23:05	WG975535
Vinyl chloride	U		0.00648	0.0250	25	05/02/2017 23:05	WG975535
o-Xylene	U		0.00852	0.0250	25	05/02/2017 23:05	WG975535
m&p-Xylene	0.0815		0.0180	0.0500	25	05/02/2017 23:05	WG975535
Xylenes, Total	0.0815		0.0265	0.0750	25	05/02/2017 23:05	WG975535
(S) Toluene-d8	94.4			80.0-120		05/02/2017 23:05	WG975535
(S) Dibromofluoromethane	81.1			76.0-123		05/02/2017 23:05	WG975535
(S) 4-Bromofluorobenzene	92.1			80.0-120		05/02/2017 23:05	WG975535

Sample Narrative:

8260B L905651-08 WG975535: Target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.80		0.124	0.500	5	05/06/2017 00:10	WG975555
(S) o-Terphenyl	70.5			31.0-160		05/06/2017 00:10	WG975555

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3150		2.82	10.0	1	05/03/2017 12:09	WG975503

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.127	P1	0.0197	0.100	1	05/05/2017 10:13	WG975895

6 Qc

7 Gl

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	65.7		0.0519	1.00	1	05/04/2017 18:38	WG976555
Fluoride	1.19		0.00990	0.100	1	05/04/2017 18:38	WG976555
Sulfate	1890		3.87	250	50	05/04/2017 18:53	WG976555

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00975		0.000250	0.00200	1	05/05/2017 04:20	WG975082
Arsenic,Dissolved	0.00727		0.000250	0.00200	1	05/05/2017 03:14	WG975071
Barium	0.0152		0.000360	0.00500	1	05/05/2017 04:20	WG975082
Barium,Dissolved	0.0170		0.000360	0.00500	1	05/05/2017 03:14	WG975071
Calcium	369		0.0460	1.00	1	05/05/2017 04:20	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:20	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 03:14	WG975071
Iron	0.446		0.0150	0.100	1	05/05/2017 04:20	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:14	WG975071
Lead	0.000330	J	0.000240	0.00200	1	05/05/2017 21:44	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:14	WG975071
Manganese	2.19		0.000250	0.00500	1	05/05/2017 04:20	WG975082
Manganese,Dissolved	2.35		0.000250	0.00500	1	05/05/2017 03:14	WG975071
Potassium	0.434	J	0.0370	1.00	1	05/05/2017 04:20	WG975082
Selenium	0.000525	J	0.000380	0.00200	1	05/05/2017 04:20	WG975082
Selenium,Dissolved	0.000414	J	0.000380	0.00200	1	05/05/2017 03:14	WG975071
Sodium	111		0.110	1.00	1	05/05/2017 04:20	WG975082

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 21:51	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 21:51	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:51	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:51	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:51	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:51	WG975535
sec-Butylbenzene	0.000971	J	0.000365	0.00100	1	05/02/2017 21:51	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 21:51	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:51	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:51	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:51	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:51	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:51	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:51	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:51	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:51	WG975535



Collected date/time: 04/26/17 09:50

L905651

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 21:51	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:51	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:51	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:51	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:51	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:51	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:51	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:51	WG975535
Isopropylbenzene	0.00180		0.000326	0.00100	1	05/02/2017 21:51	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:51	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:51	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:51	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:51	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:51	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 21:51	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:51	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:51	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 21:51	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:51	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:51	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:51	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 21:51	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:51	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:51	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:51	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:51	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:51	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:51	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:51	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:51	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:51	WG975535
(S) Toluene-d8	95.6			80.0-120		05/02/2017 21:51	WG975535
(S) Dibromofluoromethane	82.0			76.0-123		05/02/2017 21:51	WG975535
(S) 4-Bromofluorobenzene	91.7			80.0-120		05/02/2017 21:51	WG975535

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.37		0.0247	0.100	1	05/05/2017 23:53	WG975555
(S) o-Terphenyl	67.9			31.0-160		05/05/2017 23:53	WG975555



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3.00	J	2.82	10.0	1	05/03/2017 12:09	WG975503

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0220	J	0.0197	0.100	1	05/05/2017 10:15	WG975895

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.289	J P1	0.0519	1.00	1	05/05/2017 09:57	WG976555
Fluoride	0.0207	J P1	0.00990	0.100	1	05/05/2017 09:57	WG976555
Sulfate	0.238	J P1	0.0774	5.00	1	05/05/2017 09:57	WG976555

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000250	0.00200	1	05/05/2017 04:23	WG975082
Arsenic,Dissolved	U		0.000250	0.00200	1	05/05/2017 03:18	WG975071
Barium	U		0.000360	0.00500	1	05/05/2017 04:23	WG975082
Barium,Dissolved	U		0.000360	0.00500	1	05/05/2017 03:18	WG975071
Calcium	U		0.0460	1.00	1	05/05/2017 04:23	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:23	WG975082
Chromium,Dissolved	0.000706	B J	0.000540	0.00200	1	05/05/2017 03:18	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 04:23	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:18	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 21:48	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:18	WG975071
Manganese	0.000333	B J	0.000250	0.00500	1	05/05/2017 04:23	WG975082
Manganese,Dissolved	0.000429	J	0.000250	0.00500	1	05/05/2017 03:18	WG975071
Potassium	U		0.0370	1.00	1	05/05/2017 04:23	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:23	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:18	WG975071
Sodium	0.184	J	0.110	1.00	1	05/05/2017 04:23	WG975082

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 22:06	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 22:06	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 22:06	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 22:06	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 22:06	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 22:06	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 22:06	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 22:06	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 22:06	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 22:06	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 22:06	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 22:06	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 22:06	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 22:06	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 22:06	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 22:06	WG975535



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 22:06	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 22:06	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 22:06	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 22:06	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 22:06	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 22:06	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 22:06	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 22:06	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 22:06	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 22:06	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 22:06	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 22:06	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 22:06	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 22:06	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 22:06	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 22:06	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 22:06	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 22:06	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 22:06	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 22:06	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 22:06	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 22:06	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 22:06	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 22:06	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 22:06	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 22:06	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 22:06	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 22:06	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 22:06	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 22:06	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 22:06	WG975535
(S) Toluene-d8	95.0			80.0-120		05/02/2017 22:06	WG975535
(S) Dibromofluoromethane	82.1			76.0-123		05/02/2017 22:06	WG975535
(S) 4-Bromofluorobenzene	90.0			80.0-120		05/02/2017 22:06	WG975535

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0684	J	0.0247	0.100	1	05/03/2017 05:07	WG975555
(S) o-Terphenyl	62.2			31.0-160		05/03/2017 05:07	WG975555



Method Blank (MB)

(MB) R3215908-1 05/03/17 12:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905602-12 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-12 05/03/17 12:09 • (DUP) R3215908-4 05/03/17 12:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	8730	8810	1	0.912		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215908-2 05/03/17 12:09 • (LCSD) R3215908-3 05/03/17 12:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8590	98.5	97.6	85.0-115		0.927		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215924-1 05/03/17 14:04

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905645-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-03 05/03/17 14:04 • (DUP) R3215924-4 05/03/17 14:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	2730	2730	1	0.000		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215924-2 05/03/17 14:04 • (LCSD) R3215924-3 05/03/17 14:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8700	98.5	98.9	85.0-115		0.345		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215384-1 05/03/17 14:35					
MB Result		<u>MB Qualifier</u>		MB MDL	MB RDL
mg/l		mg/l		mg/l	mg/l
Analyte					
Nitrate-Nitrite	U		0.0197		0.100

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/03/17 14:38 • (DUP) R3215384-4 05/03/17 14:39					
Original Result		DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>
mg/l		mg/l		%	%
Analyte					
Nitrate-Nitrite	16.3	16.7	10	2	20

L905307-24 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-24 05/03/17 14:50 • (DUP) R3215384-5 05/03/17 14:51					
Original Result		DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>
mg/l		mg/l		%	%
Analyte					
Nitrate-Nitrite	U	0.000	10	0	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215384-2 05/03/17 14:36 • (LCSD) R3215384-3 05/03/17 14:37					
Spike Amount		LCS Result	LCSD Result	LCS Rec.	Rec. Limits
mg/l		mg/l	mg/l	%	%
Analyte					
Nitrate-Nitrite	5.00	5.32	4.93	106	99
				106	90-110
				8	20

L905371-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L905371-15 05/03/17 14:54 • (MS) R3215384-6 05/03/17 14:55					
Spike Amount		Original Result	MS Result	MS Rec.	<u>MS Qualifier</u>
mg/l		mg/l	mg/l	%	
Analyte					
Nitrate-Nitrite	5.00	ND	4.56	91	1
				91	90-110

L905651-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-04 05/03/17 15:07 • (MS) R3215384-7 05/03/17 15:13 • (MSD) R3215384-8 05/03/17 15:14					
Spike Amount		Original Result	MS Result	MSD Result	MSD Rec.
mg/l		mg/l	mg/l	mg/l	%
Analyte					
Nitrate-Nitrite	5.00	0.0570	0.323	0.310	5
				5	5
				1	90-110
				<u>J6</u>	<u>J6</u>
				4	20



Method Blank (MB)

(MB) R3215842-1 05/05/17 10:01					
MB Result		<u>MB Qualifier</u>		MB MDL	MB RDLC
mg/l		mg/l		mg/l	mg/l
Analyte					
Nitrate-Nitrite	U		0.0197		0.100

L905651-07 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-07 05/05/17 10:04 • (DUP) R3215842-4 05/05/17 10:05					
Original Result		DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u> DUP RPD Limits
mg/l		mg/l		%	%
Analyte					
Nitrate-Nitrite	4.90	4.86	1	1	20

L905651-09 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-09 05/05/17 10:13 • (DUP) R3215842-7 05/05/17 10:14					
Original Result		DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u> DUP RPD Limits
mg/l		mg/l		%	%
Analyte					
Nitrate-Nitrite	0.127	0.0950	1	29	<u>J P1</u> 20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215842-2 05/05/17 10:02 • (LCSD) R3215842-3 05/05/17 10:03					
Spike Amount		LCS Result	LCSD Result	LCS Rec.	Rec. Limits
mg/l		mg/l	mg/l	%	%
Analyte					
Nitrate-Nitrite	5.00	5.16	4.96	103	99 90-110
				<u>LCS Qualifier</u>	<u>LCSD Qualifier</u> RPD RPD Limits
				%	% %
				4	20

L905651-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-08 05/05/17 10:06 • (MS) R3215842-5 05/05/17 10:07 • (MSD) R3215842-6 05/05/17 10:08					
Spike Amount		Original Result	MS Result	MSD Result	MSD Rec.
mg/l		mg/l	mg/l	mg/l	%
Analyte					
Nitrate-Nitrite	5.00	0.0310	0.239	0.220	4 4 4
				<u>Dilution</u>	<u>Rec. Limits</u> <u>MS Qualifier</u> <u>MSD Qualifier</u> RPD RPD Limits
				1 90-110	% % % %
				<u>J6</u>	<u>J6</u> 8 20

L905651-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L905651-10 05/05/17 10:15 • (MS) R3215842-8 05/05/17 10:16					
Spike Amount		Original Result	MS Result	MS Rec.	<u>Dilution</u> <u>Rec. Limits</u> <u>MS Qualifier</u>
mg/l		mg/l	mg/l	%	%
Analyte					
Nitrate-Nitrite	5.00	0.0220	4.69	93	1 90-110



Method Blank (MB)

(MB) R3214912-1 05/02/17 10:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RD L mg/l
Cyanide	U	0.0018	0.0018	0.00500

L905561-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905561-02 05/02/17 10:51 • (DUP) R3214912-6 05/02/17 10:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	0.000	1	0		20

L905668-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-23 05/02/17 11:03 • (DUP) R3214912-7 05/02/17 11:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0.000	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214912-2 05/02/17 10:39 • (LCSD) R3214912-3 05/02/17 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.105	0.0907	105	91	85-115			15	20

L905437-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905437-02 05/02/17 10:44 • (MS) R3214912-4 05/02/17 10:45 • (MSD) R3214912-5 05/02/17 10:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.101	0.0997	101	100	1	75-125			1	20



Method Blank (MB)

(MB) R3215820-1 05/04/17 06:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Sulfate	U	0.0774	5.00	

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/04/17 12:33 • (DUP) R3215820-4 05/04/17 13:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	717	730	10	2		15

L905831-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905831-01 05/04/17 21:33 • (DUP) R3215820-8 05/04/17 21:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	16.4	16.4	1	0		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215820-2 05/04/17 06:33 • (LCSD) R3215820-3 05/04/17 06:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Sulfate	40.0	40.5	40.3	101	101	80-120			0	15

L905668-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-20 05/04/17 13:42 • (MS) R3215820-5 05/04/17 14:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50.0	11.3	59.9	97	1	80-120	

L905847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905847-01 05/04/17 15:44 • (MS) R3215820-6 05/04/17 16:37 • (MSD) R3215820-7 05/04/17 16:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Sulfate	50.0	1.18	52.1	52.1	102	102	1	80-120		0	15



Method Blank (MB)

(MB) R3215800-1 05/04/17 06:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/05/17 00:48 • (DUP) R3215800-10 05/05/17 01:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	80.4	76.9	1	4		15
Fluoride	1.90	2.18	1	14		15

L905651-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-10 05/05/17 09:57 • (DUP) R3215800-12 05/05/17 10:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.289	0.126	1	79	J P1	15
Fluoride	0.0207	0.000	1	200	P1	15
Sulfate	0.238	0.000	1	200	P1	15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215800-2 05/04/17 06:25 • (LCSD) R3215800-3 05/04/17 06:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.2	40.2	100	100	80-120			0	15
Fluoride	8.00	8.07	8.06	101	101	80-120			0	15
Sulfate	40.0	40.4	40.4	101	101	80-120			0	15

L905645-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L905645-06 05/04/17 12:55 • (MS) R3215800-6 05/04/17 13:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.472	50.9	101	1	80-120	
Fluoride	5.00	U	5.06	101	1	80-120	
Sulfate	50.0	U	51.3	103	1	80-120	



L905668-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-08 05/04/17 23:46 • (MS) R3215800-8 05/05/17 00:17 • (MSD) R3215800-9 05/05/17 00:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Fluoride	5.00	0.668	5.39	5.41	94	95	1	80-120			0	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215049-1 05/02/17 15:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLCSD
Mercury	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215049-2 05/02/17 15:27 • (LCSD) R3215049-3 05/02/17 15:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00287	0.00282	96	94	80-120			2	20

L905668-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-17 05/02/17 15:31 • (MS) R3215049-4 05/02/17 15:34 • (MSD) R3215049-5 05/02/17 15:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Mercury	0.00300	U	0.00270	0.00268	90	89	1	75-125		1	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215030-1 05/02/17 13:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury, Dissolved	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215030-2 05/02/17 13:33 • (LCSD) R3215030-3 05/02/17 13:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury, Dissolved	0.00300	0.00280	0.00275	93	92	80-120			2	20

L905670-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905670-11 05/02/17 13:37 • (MS) R3215030-4 05/02/17 13:40 • (MSD) R3215030-5 05/02/17 13:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Mercury, Dissolved	0.00300	ND	0.00289	0.00276	96	92	1	75-125	4		20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215762-1 05/05/17 01:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	0.000556	J	0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	0.00047	J	0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	0.00023	J	0.00018	0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215762-2 05/05/17 01:53 • (LCSD) R3215762-3 05/05/17 01:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0489	0.0484	98	97	80-120			1	20
Barium,Dissolved	0.0500	0.0537	0.0541	107	108	80-120			1	20
Cadmium,Dissolved	0.0500	0.0483	0.0488	97	98	80-120			1	20
Chromium,Dissolved	0.0500	0.0514	0.0507	103	101	80-120			1	20
Cobalt,Dissolved	0.0500	0.0507	0.0514	101	103	80-120			1	20
Iron,Dissolved	5.00	5.02	5.02	100	100	80-120			0	20
Lead,Dissolved	0.0500	0.0496	0.0499	99	100	80-120			1	20
Manganese,Dissolved	0.0500	0.0498	0.0500	100	100	80-120			0	20
Nickel,Dissolved	0.0500	0.0515	0.0516	103	103	80-120			0	20
Selenium,Dissolved	0.0500	0.0484		97		80-120				
Uranium,Dissolved	0.0500	0.0481	0.0484	96	97	80-120			0	20
Vanadium,Dissolved	0.0500	0.0499	0.0505	100	101	80-120			1	20

L905645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905645-01 05/05/17 02:01 • (MS) R3215762-5 05/05/17 02:08 • (MSD) R3215762-6 05/05/17 02:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00660	0.0555	0.0537	98	94	1	75-125		3	20
Barium,Dissolved	0.0500	0.0188	0.0730	0.0739	108	110	1	75-125		1	20
Cadmium,Dissolved	0.0500	U	0.0483	0.0477	97	95	1	75-125		1	20



L905645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905645-01 05/05/17 02:01 • (MS) R3215762-5 05/05/17 02:08 • (MSD) R3215762-6 05/05/17 02:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Chromium,Dissolved	0.0500	0.0114	0.0618	0.0600	101	97	1	75-125		3	3	20
Cobalt,Dissolved	0.0500	U	0.0485	0.0474	97	95	1	75-125		2	2	20
Iron,Dissolved	5.00	U	4.90	4.80	98	96	1	75-125		2	2	20
Lead,Dissolved	0.0500	0.000416	0.0509	0.0500	101	99	1	75-125		2	2	20
Manganese,Dissolved	0.0500	1.04	1.10	1.09	120	104	1	75-125		1	1	20
Nickel,Dissolved	0.0500	0.00727	0.0556	0.0541	97	94	1	75-125		3	3	20
Selenium,Dissolved	0.0500	0.000623	0.0487	0.0472	96	93	1	75-125		3	3	20
Uranium,Dissolved	0.0500	0.00128	0.0520	0.0512	101	100	1	75-125		1	1	20
Vanadium,Dissolved	0.0500	0.000789	0.0510	0.0505	100	99	1	75-125		1	1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215772-1 05/05/17 03:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	0.00774	J	0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Manganese	0.000834	J	0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Vanadium	0.000442	J	0.00018	0.00500

Method Blank (MB)

(MB) R3216099-1 05/05/17 20:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00024	0.00200
Uranium	U		0.00033	0.0100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215772-2 05/05/17 03:27 • (LCSD) R3215772-3 05/05/17 03:30

Analyte	Spike Amount mg/l	LCS Result		LCSD Result		LCS Rec.		LCSD Rec.		Rec. Limits		LCS Qualifier		LCSD Qualifier		RPD		RPD Limits	
		mg/l	%	mg/l	%	mg/l	%	mg/l	%	%	%	%	%	%	%	%	%	%	%
Arsenic	0.0500	0.0463	93	0.0465	93	93	93	93	93	80-120	80-120	1	1	80-120	80-120	1	1	20	20
Barium	0.0500	0.0472	94	0.0484	94	94	94	97	97	80-120	80-120	2	2	80-120	80-120	2	2	20	20
Boron	0.0500	0.0498	100	0.0501	100	100	100	100	100	80-120	80-120	1	1	80-120	80-120	1	1	20	20
Cadmium	0.0500	0.0469	94	0.0484	94	94	94	97	97	80-120	80-120	3	3	80-120	80-120	3	3	20	20
Calcium	5.00	4.75	95	4.82	95	95	95	96	96	80-120	80-120	1	1	80-120	80-120	1	1	20	20
Chromium	0.0500	0.0474	95	0.0476	95	95	95	95	95	80-120	80-120	1	1	80-120	80-120	1	1	20	20
Cobalt	0.0500	0.0489	98	0.0496	98	98	98	99	99	80-120	80-120	1	1	80-120	80-120	1	1	20	20
Iron	5.00	4.81	96	4.87	96	96	96	97	97	80-120	80-120	1	1	80-120	80-120	1	1	20	20
Manganese	0.0500	0.0471	94	0.0476	94	94	94	95	95	80-120	80-120	1	1	80-120	80-120	1	1	20	20
Nickel	0.0500	0.0484	97	0.0489	97	97	97	98	98	80-120	80-120	1	1	80-120	80-120	1	1	20	20
Potassium	5.00	4.68	94	4.76	94	94	94	95	95	80-120	80-120	2	2	80-120	80-120	2	2	20	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215772-2 05/05/17 03:27 • (LCSD) R3215772-3 05/05/17 03:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits %
Selenium	0.0500	0.0457	0.0467	91	93	80-120			2	20
Sodium	5.00	4.84	4.90	97	98	80-120			1	20
Vanadium	0.0500	0.0473	0.0478	95	96	80-120			1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216099-2 05/05/17 20:47 • (LCSD) R3216099-3 05/05/17 20:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits %
Lead	0.0500	0.0490	0.0491	98	98	80-120			0	20
Uranium	0.0500	0.0484	0.0484	97	97	80-120			0	20

L905651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-01 05/05/17 03:34 • (MS) R3215772-5 05/05/17 03:41 • (MSD) R3215772-6 05/05/17 03:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits %
Arsenic	0.0500	0.00642	0.0541	0.0539	95	95	1	75-125			0	20
Barium	0.0500	0.0157	0.0654	0.0656	99	100	1	75-125			0	20
Boron	0.0500	0.535	0.583	0.578	94	85	1	75-125			1	20
Cadmium	0.0500	U	0.0491	0.0481	98	96	1	75-125			2	20
Calcium	5.00	501	507	504	118	55	1	75-125	<u>V</u>		1	20
Chromium	0.0500	U	0.0478	0.0479	96	96	1	75-125			0	20
Cobalt	0.0500	0.00617	0.0544	0.0547	96	97	1	75-125			1	20
Potassium	5.00	2.10	6.71	6.72	94	93	1	75-125			1	20
Iron	5.00	U	4.82	4.82	96	96	1	75-125			0	20
Manganese	0.0500	0.320	0.364	0.365	88	91	1	75-125			0	20
Nickel	0.0500	0.00772	0.0550	0.0551	95	95	1	75-125			0	20
Selenium	0.0500	0.00325	0.0527	0.0515	99	97	1	75-125			2	20
Sodium	5.00	338	338	335	13	0	1	75-125	<u>V</u>		1	20
Vanadium	0.0500	0.0252	0.0741	0.0741	98	98	1	75-125			0	20

L905651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-01 05/05/17 20:55 • (MS) R3216099-5 05/05/17 21:02 • (MSD) R3216099-6 05/05/17 21:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits %
Lead	0.0500	0.000467	0.0508	0.0513	101	102	1	75-125			1	20
Uranium	0.0500	0.0227	0.0743	0.0752	103	105	1	75-125			1	20



Method Blank (MB)

(MB) R3216897-1 05/10/17 11:25

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	0.00918	└	0.0015	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216897-2 05/10/17 11:28 • (LCSD) R3216897-3 05/10/17 11:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Boron,Dissolved	0.0500	0.0548	0.0476	110	95	80-120			14	20

L905651-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-02 05/10/17 11:36 • (MS) R3216897-5 05/10/17 11:43 • (MSD) R3216897-6 05/10/17 11:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Boron,Dissolved	0.0500	0.756	0.816	0.811	121	111	1	75-125		1		20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215819-3 04/30/17 19:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLCSD Qualifier
TPH (GC/FID) Low Fraction	U	0.0314	0.100	
(S) <i>α,α,α</i> -Trifluorotoluene(FID)	99.9		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215819-1 04/30/17 18:25 • (LCSD) R3215819-2 04/30/17 18:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.42	5.17	98.5	93.9	71.0-136			4.75	20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)				103	103	77.0-122				

L905602-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-03 04/30/17 21:14 • (MS) R3215819-4 04/30/17 20:02 • (MSD) R3215819-5 04/30/17 20:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.585	2.84	2.81	41.0	40.4	1	18.0-160		1.24		20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)					97.3	97.9		77.0-122				



Method Blank (MB)

(MB) R3216109-3 05/02/17 18:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3216109-3 05/02/17 18:26

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	96.3		80.0-120	
(S) Dibromofluoromethane	82.9		76.0-123	
(S) 4-Bromofluorobenzene	96.4		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216109-1 05/02/17 17:42 • (LCSD) R3216109-2 05/02/17 17:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.175	0.186	140	148	10.0-160			5.74	23
Benzene	0.0250	0.0216	0.0225	86.2	90.0	69.0-123			4.29	20
Bromodichloromethane	0.0250	0.0241	0.0249	96.3	99.7	76.0-120			3.50	20
Bromoform	0.0250	0.0250	0.0259	99.9	103	67.0-132			3.50	20
Bromomethane	0.0250	0.0191	0.0210	76.3	83.9	18.0-160			9.55	20
n-Butylbenzene	0.0250	0.0240	0.0257	96.1	103	72.0-126			6.88	20
sec-Butylbenzene	0.0250	0.0230	0.0249	92.0	99.7	74.0-121			8.00	20
Carbon disulfide	0.0250	0.0204	0.0217	81.5	86.6	55.0-127			6.04	20
Carbon tetrachloride	0.0250	0.0209	0.0222	83.7	88.7	63.0-122			5.81	20
Chlorobenzene	0.0250	0.0248	0.0258	99.0	103	79.0-121			4.15	20
Chlorodibromomethane	0.0250	0.0249	0.0257	99.5	103	75.0-125			3.33	20
Chloroethane	0.0250	0.0216	0.0234	86.3	93.7	47.0-152			8.26	20
Chloroform	0.0250	0.0212	0.0221	84.9	88.6	72.0-121			4.29	20
Chloromethane	0.0250	0.0229	0.0247	91.8	98.8	48.0-139			7.39	20
1,2-Dibromoethane	0.0250	0.0255	0.0262	102	105	77.0-123			2.86	20
1,1-Dichloroethane	0.0250	0.0213	0.0223	85.3	89.1	70.0-126			4.34	20
1,2-Dichloroethane	0.0250	0.0226	0.0233	90.2	93.1	67.0-126			3.12	20
1,1-Dichloroethene	0.0250	0.0211	0.0222	84.3	88.8	64.0-129			5.20	20
cis-1,2-Dichloroethene	0.0250	0.0209	0.0217	83.7	86.9	73.0-120			3.75	20
trans-1,2-Dichloroethene	0.0250	0.0206	0.0214	82.4	85.5	71.0-121			3.65	20
1,2-Dichloropropane	0.0250	0.0245	0.0255	98.1	102	75.0-125			3.75	20
cis-1,3-Dichloropropene	0.0250	0.0258	0.0265	103	106	79.0-123			2.86	20
trans-1,3-Dichloropropene	0.0250	0.0262	0.0268	105	107	74.0-127			2.42	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216109-1 05/02/17 17:42 • (LCSD) R3216109-2 05/02/17 17:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
							%		%		%	
Ethylbenzene	0.0250	0.0243	0.0256	97.3	102	77.0-120					5.18	
2-Hexanone	0.125	0.154	0.160	123	128	58.0-147					4.08	
Isopropylbenzene	0.0250	0.0239	0.0256	95.6	102	75.0-120					6.75	
p-Isopropyltoluene	0.0250	0.0230	0.0240	92.0	96.1	74.0-126					4.38	
2-Butanone (MEK)	0.125	0.139	0.144	111	116	37.0-158					4.04	
Methylene Chloride	0.0250	0.0213	0.0223	85.3	89.1	66.0-121					4.30	
4-Methyl-2-pentanone (MIBK)	0.125	0.132	0.135	105	108	59.0-143					2.64	
Methyl tert-butyl ether	0.0250	0.0223	0.0230	89.2	92.2	64.0-123					3.35	
Naphthalene	0.0250	0.0231	0.0251	92.2	100	62.0-128					8.53	
n-Propylbenzene	0.0250	0.0242	0.0256	96.6	102	79.0-120					5.67	
Styrene	0.0250	0.0258	0.0269	103	108	78.0-124					4.45	
1,1,1,2-Tetrachloroethane	0.0250	0.0231	0.0242	92.3	96.8	75.0-122					4.84	
1,1,2,2-Tetrachloroethane	0.0250	0.0233	0.0240	93.3	95.9	71.0-122					2.79	
Tetrachloroethene	0.0250	0.0241	0.0253	96.4	101	70.0-127					4.87	
Toluene	0.0250	0.0246	0.0258	98.5	103	77.0-120					4.76	
1,1,1-Trichloroethane	0.0250	0.0210	0.0222	84.2	88.7	68.0-122					5.23	
1,1,2-Trichloroethane	0.0250	0.0246	0.0254	98.6	102	78.0-120					3.10	
Trichloroethene	0.0250	0.0238	0.0251	95.3	100	78.0-120					5.03	
1,2,4-Trimethylbenzene	0.0250	0.0234	0.0248	93.7	99.3	75.0-120					5.85	
1,3,5-Trimethylbenzene	0.0250	0.0237	0.0251	94.7	101	75.0-120					6.03	
Vinyl chloride	0.0250	0.0238	0.0254	95.4	102	64.0-133					6.42	
Xylenes, Total	0.0750	0.0727	0.0766	96.9	102	77.0-120					5.22	
o-Xylene	0.0250	0.0238	0.0252	95.1	101	78.0-120					5.77	
m&p-Xylenes	0.0500	0.0489	0.0514	97.8	103	77.0-120					5.01	
(S) Toluene-d8				95.2	96.0	80.0-120						
(S) Dibromofluoromethane				82.8	81.7	76.0-123						
(S) 4-Bromofluorobenzene				90.7	90.8	80.0-120						



Method Blank (MB)

(MB) R3215177-1 05/02/17 11:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLCSD Qualifier
TPH (GC/FID) High Fraction	U	0.0247	0.100	
(S) o-Terphenyl	58.4		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215177-2 05/02/17 12:06 • (LCSD) R3215177-3 05/02/17 12:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.65	1.69	110	112	50.0-150			2.15	20
(S) o-Terphenyl				69.4	70.8	31.0-160				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
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B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

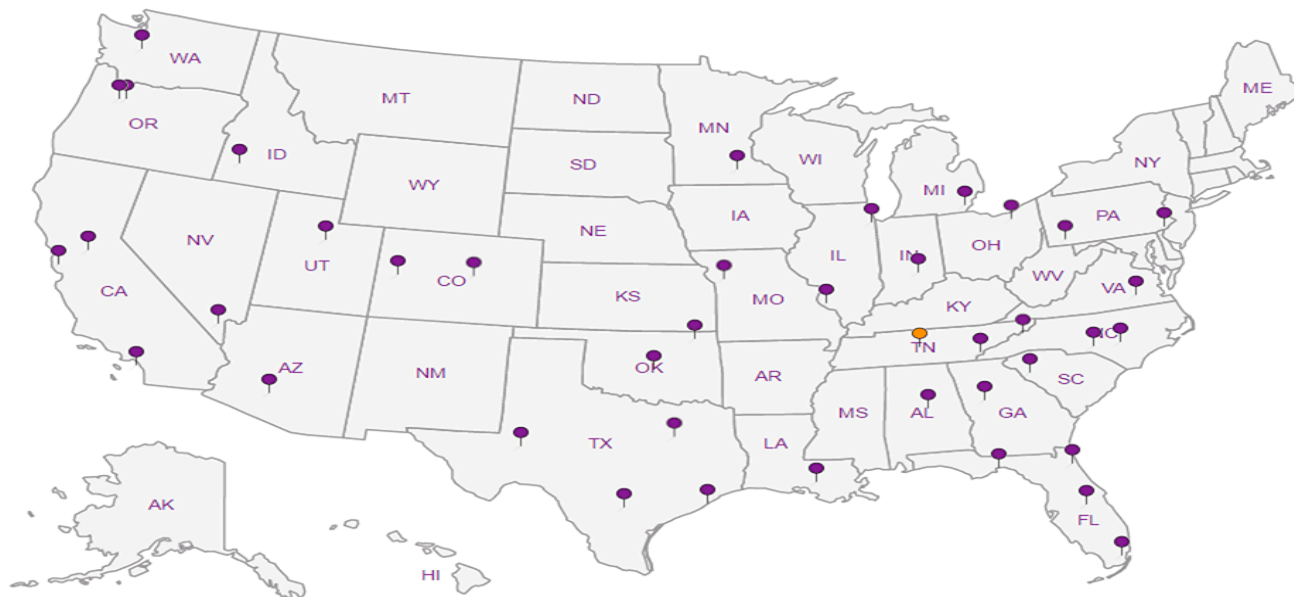
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752			Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095			Chain of Custody Page 9 of 28 L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859		
Report to: Julie Speer Email To: jspeer@trcsolutions.com			Analysis / Container / Preservative			Hold #		
Project: NCL Spring 2017 Description:			City/State: NM Lab Project #			Condition: (lab use only)		
Phone: 512-684-3170 Fax:			P.O. # 107027			COC Seal Intact: ☒ Y ☐ N ☐ NA		
Collected by (print): Scott Ude/HMI Team			Site/Facility ID # NCL (Navajo - Artesia)			pH Checked:		
Collected by (signature): 			Rush? (Lab MUST Be Notified) Same Day 200% Next Day 100% Two Day 50% Three Day 25%			Temp		
Immediately Packed on Ice N ☐ Y ☒			Date Results Needed			Flow		
Sample ID			Date			Samples returned via: ☐ UPS ☒ FedEx ☐ Courier		
Comp/Grab			Matrix *			Temp		
Grab			GW			°C		
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Grab			GW			Received for lab by: (Signature)		
Grab			GW			Time:		
Grab			GW			Date:		
Grab			GW			Received for lab by: (Signature)		
Grab			GW			Time:		
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Grab			GW			Received for lab by: (Signature)		
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Grab			GW			Received for lab by: (Signature)		
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Grab			GW			Received for lab by: (Signature)		
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Grab			GW			Received for lab by: (Signature)		
Grab			GW			Time:		
Grab			GW			Date:		
Grab			GW			Received for lab by: (Signature)		

ESC LAB SCIENCES Cooler Receipt Form

Client: <i>TREATX</i>	SDG#	<i>1905651</i>
Cooler Received/Opened On: <i>4/ 28 /17</i>	Temperature:	<i>2.6</i>
Received By: MICHAEL Witherspoon		
Signature: <i>MW</i>		
Receipt Check List		
	NP	Yes No
COC Seal Present / Intact?		
COC Signed / Accurate?		
Bottles arrive intact?		
Correct bottles used?		
Sufficient volume sent?		
If Applicable		
VOA Zero headspace?		
Preservation Correct / Checked?		

TRC Solutions - Austin, TX

Sample Delivery Group: L905668
Samples Received: 04/28/2017
Project Number: 249545.0000.0000 000
Description: REST Spring 2017
Site: REST - NAVAJO-ARTESIA
Report To: Julie Speer
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Entire Report Reviewed By:



Chris McCord
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



RW-#15C L905668-01 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:17	05/05/17 10:17	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 19:39	05/04/17 19:39	SAM
Wet Chemistry by Method 9056A	WG976555	10	05/04/17 19:55	05/04/17 19:55	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:52	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:02	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	25	05/02/17 03:30	05/02/17 03:30	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	500	05/05/17 18:52	05/05/17 18:52	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	5	05/01/17 22:59	05/05/17 19:14	TRF

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

MW-48 L905668-02 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:15

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:18	05/05/17 10:18	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 20:41	05/04/17 20:41	SAM
Wet Chemistry by Method 9056A	WG976555	20	05/04/17 20:56	05/04/17 20:56	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:55	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:06	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	50	05/01/17 01:17	05/01/17 01:17	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1000	05/08/17 15:45	05/08/17 15:45	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	50	05/02/17 03:51	05/02/17 03:51	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	5	05/01/17 22:59	05/05/17 19:31	TRF

MW-130 L905668-03 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:19	05/05/17 10:19	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 21:12	05/04/17 21:12	SAM
Wet Chemistry by Method 9056A	WG976555	20	05/04/17 21:27	05/04/17 21:27	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:59	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 19:21	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 22:08	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 01:41	05/01/17 01:41	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 04:12	05/02/17 04:12	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 12:26	TRF

KWB-P4 L905668-04 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 08:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 04:33	05/02/17 04:33	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 13:02	TRF

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-134 L905668-05 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 08:45

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:21	05/05/17 10:21	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 21:43	05/04/17 21:43	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 21:58	05/04/17 21:58	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:02	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:09	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 02:05	05/01/17 02:05	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 04:55	05/02/17 04:55	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 13:20	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

RA-4798 L905668-06 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:26	05/05/17 10:26	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 22:13	05/04/17 22:13	SAM
Wet Chemistry by Method 9056A	WG976555	20	05/04/17 22:29	05/04/17 22:29	SAM
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 19:53	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 05:16	05/02/17 05:16	BMB

RA-4196 L905668-07 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:45

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:27	05/05/17 10:27	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 22:44	05/04/17 22:44	SAM
Wet Chemistry by Method 9056A	WG976555	20	05/04/17 23:00	05/04/17 23:00	SAM
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 19:56	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 05:37	05/02/17 05:37	BMB

RA-3156 L905668-08 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:15

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:28	05/05/17 10:28	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 23:46	05/04/17 23:46	SAM
Wet Chemistry by Method 9056A	WG976555	20	05/05/17 00:01	05/05/17 00:01	SAM
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 20:00	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 05:58	05/02/17 05:58	BMB

MW-135 L905668-09 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:29	05/05/17 10:29	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 12:56	05/02/17 12:56	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 13:10	05/02/17 13:10	SAM

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545.0000.0000 000

SDG:

L905668

DATE/TIME:

05/12/17 11:41

PAGE:

6 of 301

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-135 L905668-09 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:06	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:13	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 02:29	05/01/17 02:29	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 06:20	05/02/17 06:20	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 13:38	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-117 L905668-10 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 08:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:30	05/05/17 10:30	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 13:26	05/02/17 13:26	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 13:41	05/02/17 13:41	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:16	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:16	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 02:54	05/01/17 02:54	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 06:41	05/02/17 06:41	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 20:41	TRF

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-118 L905668-11 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:40

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:31	05/05/17 10:31	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 13:57	05/02/17 13:57	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 14:12	05/02/17 14:12	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:20	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:20	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 03:18	05/01/17 03:18	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 07:01	05/02/17 07:01	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 20:58	TRF

MW-119 L905668-12 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:32	05/05/17 10:32	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 14:58	05/02/17 14:58	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 15:14	05/02/17 15:14	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:23	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:23	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 03:42	05/01/17 03:42	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 07:22	05/02/17 07:22	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 13:55	TRF

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



KWB-5 L905668-13 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:40

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:33	05/05/17 10:33	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 15:29	05/02/17 15:29	SAM
Wet Chemistry by Method 9056A	WG975537	20	05/02/17 15:45	05/02/17 15:45	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:27	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:27	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 07:44	05/02/17 07:44	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	200	05/08/17 16:01	05/08/17 16:01	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	50	05/05/17 18:15	05/05/17 18:15	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 21:33	TRF

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

MW-111 L905668-14 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 15:35

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:38	05/05/17 10:38	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 16:00	05/02/17 16:00	SAM
Wet Chemistry by Method 9056A	WG975537	20	05/02/17 16:15	05/02/17 16:15	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:31	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:30	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 04:07	05/01/17 04:07	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 08:05	05/02/17 08:05	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	25	05/05/17 18:02	05/05/17 18:02	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 21:50	TRF

KWB-6 L905668-15 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:35

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:39	05/05/17 10:39	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 17:02	05/02/17 17:02	SAM
Wet Chemistry by Method 9056A	WG975537	20	05/02/17 17:50	05/02/17 17:50	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:34	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:34	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	5	05/02/17 08:26	05/02/17 08:26	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	50	05/08/17 16:18	05/08/17 16:18	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 22:08	TRF

MW-57 L905668-16 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 13:45

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:41	05/05/17 10:41	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 18:36	05/02/17 18:36	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 18:52	05/02/17 18:52	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:38	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:48	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 04:31	05/01/17 04:31	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 08:48	05/02/17 08:48	BMB

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545.0000.0000 000

SDG:

L905668

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05/12/17 11:41

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-57 L905668-16 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 13:45

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/05/17 17:36	05/05/17 17:36	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 14:13	TRF

¹ Cp

² Tc

³ Ss

KWB-12A L905668-17 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:42	05/05/17 10:42	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 10:58	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 19:07	05/02/17 19:07	SAM
Wet Chemistry by Method 9056A	WG975537	50	05/02/17 19:23	05/02/17 19:23	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 15:31	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:37	TRB
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:34	LAT
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 21:31	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 22:22	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/05/17 08:39	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 04:56	05/01/17 04:56	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 09:09	05/02/17 09:09	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 14:31	TRF

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

KWB-12B L905668-18 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:29	05/03/17 15:29	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 10:59	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 19:38	05/02/17 19:38	SAM
Wet Chemistry by Method 9056A	WG975537	50	05/02/17 19:53	05/02/17 19:53	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 15:59	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:39	TRB
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:38	LAT
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 21:34	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 22:25	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/05/17 08:42	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 19:57	04/30/17 19:57	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 09:30	05/02/17 09:30	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 23:00	TRF

KWB-13 L905668-19 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 11:20

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:30	05/03/17 15:30	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 11:02	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 20:55	05/02/17 20:55	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 21:10	05/02/17 21:10	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 16:01	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:41	TRB

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



KWB-13 L905668-19 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 11:20

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:41	LAT
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 21:38	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 22:29	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/05/17 08:46	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 09:51	05/02/17 09:51	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 14:49	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-102 L905668-20 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:31	05/03/17 15:31	DR
Wet Chemistry by Method 9056A	WG976223	1	05/04/17 13:42	05/04/17 13:42	KCF
Wet Chemistry by Method 9056A	WG976223	10	05/04/17 14:17	05/04/17 14:17	KCF
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:41	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:51	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	25	04/30/17 20:20	04/30/17 20:20	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	20	05/02/17 10:12	05/02/17 10:12	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	200	05/05/17 19:05	05/05/17 19:05	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	5	05/01/17 22:59	05/08/17 16:14	TRF

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

RW-4 L905668-21 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 13:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:32	05/03/17 15:32	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 21:57	05/02/17 21:57	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 22:12	05/02/17 22:12	SAM
Wet Chemistry by Method 9056A	WG976223	5	05/04/17 14:35	05/04/17 14:35	KCF
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:13	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:55	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	5	05/01/17 18:58	05/01/17 18:58	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 23:52	TRF

MW-99 L905668-22 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:20

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:33	05/03/17 15:33	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 22:27	05/02/17 22:27	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 22:43	05/02/17 22:43	SAM
Wet Chemistry by Method 9056A	WG976223	5	05/04/17 14:52	05/04/17 14:52	KCF
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:45	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:03	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	5	05/07/17 22:37	05/07/17 22:37	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/01/17 19:20	05/01/17 19:20	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/06/17 00:10	TRF

ACCOUNT:

TRC Solutions - Austin, TX

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SDG:

L905668

DATE/TIME:

05/12/17 11:41

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-66 L905668-23 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 11:15

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	1	05/03/17 15:39	05/03/17 15:39	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 11:03	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 22:58	05/02/17 22:58	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 23:45	05/02/17 23:45	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 16:54	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:48	TRB
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:45	LAT
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 21:41	VSS
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:07	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 13:06	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 21:05	04/30/17 21:05	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/03/17 19:42	05/03/17 19:42	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/06/17 00:27	TRF

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-28 L905668-24 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:41	05/03/17 15:41	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	50	05/01/17 10:39	05/02/17 11:05	DR
Wet Chemistry by Method 9056A	WG975537	1	05/03/17 00:00	05/03/17 00:00	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/03/17 00:15	05/03/17 00:15	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 16:56	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:50	TRB
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:48	LAT
Metals (ICPMS) by Method 6020	WG975067	2	05/02/17 18:58	05/03/17 21:53	VSS
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:10	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 13:10	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/07/17 22:59	05/07/17 22:59	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/01/17 20:04	05/01/17 20:04	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	2	05/01/17 22:59	05/03/17 00:03	TH

MW-107 L905668-25 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 15:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:42	05/03/17 15:42	DR
Wet Chemistry by Method 9056A	WG975537	1	05/03/17 00:31	05/03/17 00:31	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/03/17 00:46	05/03/17 00:46	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 17:43	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:14	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 21:49	04/30/17 21:49	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/03/17 19:55	05/03/17 19:55	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 00:20	TH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-128 L905668-26 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	1	05/03/17 15:43	05/03/17 15:43	DR
Wet Chemistry by Method 9056A	WG975537	1	05/03/17 01:02	05/03/17 01:02	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/03/17 01:17	05/03/17 01:17	SAM
Wet Chemistry by Method 9056A	WG976223	5	05/04/17 22:08	05/04/17 22:08	KCF
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 17:54	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:17	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 22:12	04/30/17 22:12	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/01/17 20:48	05/01/17 20:48	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/03/17 20:08	05/03/17 20:08	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 00:37	TH

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-125 L905668-27 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:45	05/03/17 15:45	DR
Wet Chemistry by Method 9056A	WG975537	1	05/03/17 01:32	05/03/17 01:32	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/03/17 01:48	05/03/17 01:48	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 17:57	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:21	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 22:34	04/30/17 22:34	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/01/17 21:10	05/01/17 21:10	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/03/17 20:21	05/03/17 20:21	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 00:54	TH

MW-116 L905668-28 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:46	05/03/17 15:46	DR
Wet Chemistry by Method 9056A	WG975537	1	05/03/17 02:34	05/03/17 02:34	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/03/17 02:49	05/03/17 02:49	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:01	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:24	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 22:56	04/30/17 22:56	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/01/17 21:32	05/01/17 21:32	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 01:11	TH

MW-105 L905668-29 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 08:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 15:53	05/04/17 15:53	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 19:07	05/03/17 19:07	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:04	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:28	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	10	05/07/17 23:22	05/07/17 23:22	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	100	05/01/17 21:54	05/01/17 21:54	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 17:11	TRF

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



RW-2 L905668-30 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 15:55	05/04/17 15:55	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 15:22	05/03/17 15:22	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 15:37	05/03/17 15:37	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:08	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:31	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	50	04/30/17 23:41	04/30/17 23:41	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/01/17 22:16	05/01/17 22:16	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/06/17 01:17	DMG

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-61 L905668-31 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 09:35

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 15:56	05/04/17 15:56	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 15:53	05/03/17 15:53	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 16:08	05/03/17 16:08	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:11	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:35	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/07/17 23:44	05/07/17 23:44	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	25	05/01/17 22:38	05/01/17 22:38	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 16:20	TRF

MW-62 L905668-32 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 10:20

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:02	05/04/17 16:02	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 16:23	05/03/17 16:23	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 16:39	05/03/17 16:39	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:15	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:45	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/08/17 00:06	05/08/17 00:06	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/01/17 23:00	05/01/17 23:00	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/06/17 01:51	DMG

MW-93 L905668-33 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:15

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:03	05/04/17 16:03	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 19:37	05/03/17 19:37	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 19:53	05/03/17 19:53	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 14:33	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:19	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:49	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/08/17 00:28	05/08/17 00:28	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	25	05/01/17 23:22	05/01/17 23:22	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 17:28	TRF

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-23 L905668-34 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 11:15

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:04	05/04/17 16:04	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 20:08	05/03/17 20:08	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 20:24	05/03/17 20:24	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:03	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:22	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:52	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	5	05/08/17 00:50	05/08/17 00:50	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/01/17 23:44	05/01/17 23:44	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	100	05/03/17 20:34	05/03/17 20:34	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	20	05/01/17 22:59	05/04/17 17:45	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-39 L905668-35 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 19:20

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:05	05/04/17 16:05	DR
Wet Chemistry by Method 9056A	WG975912	1	05/04/17 02:03	05/04/17 02:03	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/04/17 02:18	05/04/17 02:18	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:26	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:56	LAT
Metals (ICPMS) by Method 6020	WG975077	10	05/01/17 21:09	05/02/17 12:14	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/08/17 01:12	05/08/17 01:12	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	10	05/02/17 00:06	05/02/17 00:06	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/06/17 01:01	DMG

MW-41 L905668-36 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 18:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:06	05/04/17 16:06	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 16:54	05/03/17 16:54	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 17:10	05/03/17 17:10	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:10	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:49	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:59	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/08/17 01:34	05/08/17 01:34	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/03/17 20:47	05/03/17 20:47	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/06/17 02:07	DMG

MW-42 L905668-37 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:08	05/04/17 16:08	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 18:36	05/03/17 18:36	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 18:51	05/03/17 18:51	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:14	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:53	LAT

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-42 L905668-37 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 04:03	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/01/17 02:17	05/01/17 02:17	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/02/17 00:49	05/02/17 00:49	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 16:54	TRF

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-29 L905668-38 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 17:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:05	05/04/17 14:05	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 20:39	05/03/17 20:39	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 20:54	05/03/17 20:54	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 17:29	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 02:42	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/01/17 02:39	05/01/17 02:39	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/02/17 01:10	05/02/17 01:10	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 01:27	TH

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

RW-#16B L905668-39 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 15:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:07	05/04/17 14:07	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 21:41	05/03/17 21:41	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 21:56	05/03/17 21:56	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:17	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:56	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 04:06	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/02/17 01:32	05/02/17 01:32	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 01:44	TH

MW-94 L905668-40 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 14:20

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:08	05/04/17 14:08	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 22:11	05/03/17 22:11	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 22:27	05/03/17 22:27	SAM
Wet Chemistry by Method 9056A	WG976618	1	05/05/17 14:16	05/05/17 14:16	KCF
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:21	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 19:00	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 04:09	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/08/17 01:57	05/08/17 01:57	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	25	05/03/17 21:00	05/03/17 21:00	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 16:37	TRF

ACCOUNT:

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-67 L905668-41 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 16:15

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:09	05/04/17 14:09	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	50	05/01/17 10:39	05/02/17 11:06	DR
Wet Chemistry by Method 9056A	WG975912	1	05/04/17 01:32	05/04/17 01:32	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/04/17 01:47	05/04/17 01:47	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 16:58	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:53	TRB
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/03/17 23:46	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 19:03	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 04:13	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 13:14	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/09/17 07:15	05/09/17 07:15	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	5	05/03/17 19:04	05/03/17 19:04	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 16:03	TRF

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW-95 L905668-42 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 17:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:14	05/04/17 14:14	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 22:42	05/03/17 22:42	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 22:58	05/03/17 22:58	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 11:28	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 19:07	LAT
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 10:54	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	04/30/17 22:13	04/30/17 22:13	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 04:49	05/02/17 04:49	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/06/17 02:24	DMG

RW-7 L905668-43 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 13:35

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:15	05/04/17 14:15	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 23:29	05/03/17 23:29	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 23:44	05/03/17 23:44	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:28	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 19:10	LAT
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:08	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	04/30/17 22:35	04/30/17 22:35	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 05:11	05/02/17 05:11	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 02:01	TH

RW-#17A L905668-44 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 17:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:17	05/04/17 14:17	DR
Wet Chemistry by Method 9056A	WG975912	1	05/04/17 00:30	05/04/17 00:30	SAM

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



RW-#17A L905668-44 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 17:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9056A	WG975912	50	05/04/17 00:46	05/04/17 00:46	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:31	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 19:13	LAT
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:12	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	04/30/17 22:57	04/30/17 22:57	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 05:33	05/02/17 05:33	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 12:39	TH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

DUP-REST-03 L905668-45 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 12:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:18	05/04/17 14:18	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 13:17	05/03/17 13:17	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 13:40	05/03/17 13:40	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 21:09	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:30	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	04/30/17 23:20	04/30/17 23:20	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 05:56	05/02/17 05:56	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 16:16	TH

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

DUP-REST-05 L905668-46 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 08:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:19	05/04/17 14:19	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 11:07	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 13:28	05/03/17 13:28	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 13:51	05/03/17 13:51	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:00	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:55	TRB
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:04	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:34	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	04/30/17 23:42	04/30/17 23:42	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 06:18	05/02/17 06:18	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 13:13	TH

EB-REST-03 L905668-47 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 08:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:20	05/04/17 14:20	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 14:03	05/03/17 14:03	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:38	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:37	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 00:04	05/01/17 00:04	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 06:39	05/02/17 06:39	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 13:29	TH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



EB-REST-05 L905668-48 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 13:05

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:27	05/04/17 14:27	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 11:08	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 14:50	05/03/17 14:50	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:03	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:57	TRB
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:07	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:41	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 00:26	05/01/17 00:26	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 07:02	05/02/17 07:02	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 13:46	TH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

TRIP BLANK-REST-02 L905668-49 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/26/17 00:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 04:05	05/02/17 04:05	ACG

MW-52 L905668-50 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 08:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:28	05/04/17 14:28	ADH
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 11:09	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 15:13	05/03/17 15:13	KCF
Wet Chemistry by Method 9056A	WG975914	20	05/03/17 16:00	05/03/17 16:00	KCF
Wet Chemistry by Method 9056A	WG976618	10	05/05/17 13:36	05/05/17 13:36	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:05	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:59	TRB
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:11	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:45	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 00:49	05/01/17 00:49	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 07:24	05/02/17 07:24	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 14:03	TH

MW-109 L905668-51 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 09:40

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:29	05/04/17 14:29	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 15:25	05/03/17 15:25	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 16:11	05/03/17 16:11	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:41	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:48	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/09/17 07:37	05/09/17 07:37	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	10	05/02/17 07:47	05/02/17 07:47	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 14:19	TH

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545.0000.0000 000

SDG:

L905668

DATE/TIME:

05/12/17 11:41

PAGE:

18 of 301

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-110 L905668-52 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:30	05/04/17 14:30	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 15:36	05/03/17 15:36	KCF
Wet Chemistry by Method 9056A	WG975914	20	05/03/17 16:24	05/03/17 16:24	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:45	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:52	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/09/17 08:00	05/09/17 08:00	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	5	05/02/17 08:09	05/02/17 08:09	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 14:36	TH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

RW-12R L905668-53 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 12:30

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:31	05/04/17 14:31	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 15:48	05/03/17 15:48	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 16:35	05/03/17 16:35	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:48	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:55	JPD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	5	05/03/17 19:17	05/03/17 19:17	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 14:53	TH

MW-113 L905668-54 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 09:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:32	05/04/17 14:32	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 17:10	05/03/17 17:10	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 18:08	05/03/17 18:08	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:52	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:58	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 01:56	05/01/17 01:56	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 08:53	05/02/17 08:53	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 15:09	TH

RA-313 L905668-55 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 09:30

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:33	05/04/17 14:33	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 17:22	05/03/17 17:22	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 18:20	05/03/17 18:20	KCF
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:17	JPD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 09:15	05/02/17 09:15	ACG

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-115 L905668-56 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:40

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:34	05/04/17 14:34	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 17:33	05/03/17 17:33	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 18:32	05/03/17 18:32	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:56	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:21	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 02:18	05/01/17 02:18	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 09:37	05/02/17 09:37	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 15:26	TH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-114 L905668-57 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 11:30

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:39	05/04/17 14:39	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 17:45	05/03/17 17:45	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 18:43	05/03/17 18:43	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:59	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:24	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 02:40	05/01/17 02:40	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 09:59	05/02/17 09:59	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 15:42	TH

MW-126A L905668-58 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 09:20

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:43	05/04/17 14:43	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 17:57	05/03/17 17:57	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 18:55	05/03/17 18:55	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:03	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:28	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 03:02	05/01/17 03:02	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 10:20	05/02/17 10:20	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 20:24	TH

MW-126B L905668-59 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:26	05/04/17 11:26	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 19:30	05/03/17 19:30	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 20:52	05/03/17 20:52	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:07	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:31	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 03:24	05/01/17 03:24	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 10:42	05/02/17 10:42	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 20:41	TH

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-127 L905668-60 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:50

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:28	05/04/17 11:28	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 19:42	05/03/17 19:42	KCF
Wet Chemistry by Method 9056A	WG975914	20	05/03/17 21:03	05/03/17 21:03	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:10	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:35	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 03:47	05/01/17 03:47	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 11:04	05/02/17 11:04	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	25	05/03/17 19:30	05/03/17 19:30	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 20:57	TH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-129 L905668-61 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 11:40

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:30	05/04/17 11:30	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 19:53	05/03/17 19:53	KCF
Wet Chemistry by Method 9056A	WG975914	20	05/03/17 21:15	05/03/17 21:15	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:25	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:38	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 04:09	05/01/17 04:09	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	1	05/02/17 17:38	05/02/17 17:38	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	100	05/08/17 00:43	05/08/17 00:43	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 21:14	TH

MW-131 L905668-62 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 11:10

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:36	05/04/17 11:36	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 21:50	05/03/17 21:50	KCF
Wet Chemistry by Method 9056A	WG975914	20	05/03/17 20:28	05/03/17 20:28	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:29	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:42	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 04:31	05/01/17 04:31	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	1	05/02/17 17:59	05/02/17 17:59	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	100	05/08/17 01:06	05/08/17 01:06	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	20	05/03/17 23:07	05/03/17 23:07	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 21:30	TH

MW-59 L905668-63 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 09:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:37	05/04/17 11:37	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 22:13	05/03/17 22:13	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 22:48	05/03/17 22:48	KCF
Wet Chemistry by Method 9056A	WG976618	10	05/05/17 13:46	05/05/17 13:46	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:32	VSS

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-59 L905668-63 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 09:25

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:27	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:52	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 04:53	05/01/17 04:53	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	1	05/02/17 18:20	05/02/17 18:20	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	1	05/03/17 23:24	05/03/17 23:24	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 21:47	TH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-60 L905668-64 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:15

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:38	05/04/17 11:38	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	50	05/01/17 10:39	05/02/17 11:10	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 22:25	05/03/17 22:25	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 23:00	05/03/17 23:00	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:07	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 15:02	TRB
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:14	VSS
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:38	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:55	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/01/17 16:48	05/01/17 16:48	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	1	05/02/17 18:40	05/02/17 18:40	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 23:29	TH

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

RW-10 L905668-65 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 09:55

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:39	05/04/17 11:39	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 22:37	05/03/17 22:37	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 23:12	05/03/17 23:12	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:36	VSS
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:41	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:59	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/09/17 08:22	05/09/17 08:22	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/03/17 22:04	05/03/17 22:04	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 23:46	TH

DUP-REST-01 L905668-66 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:40	05/04/17 11:40	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 16:51	05/03/17 16:51	KCF
Wet Chemistry by Method 9056A	WG975915	50	05/03/17 18:35	05/03/17 18:35	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:39	VSS
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:45	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 22:13	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/01/17 17:36	05/01/17 17:36	BMB

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



DUP-REST-01 L905668-66 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	1	05/03/17 03:11	05/03/17 03:11	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 05:24	TH

¹ Cp

² Tc

³ Ss

DUP-REST-04 L905668-67 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 08:00

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:41	05/04/17 11:41	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	50	05/01/17 10:39	05/02/17 11:13	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 17:08	05/03/17 17:08	KCF
Wet Chemistry by Method 9056A	WG975915	50	05/03/17 18:52	05/03/17 18:52	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:09	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 15:04	TRB
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:21	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:48	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 22:17	VSS
Metals (ICPMS) by Method 6020	WG976972	1	05/05/17 13:15	05/10/17 11:53	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/01/17 18:00	05/01/17 18:00	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	1	05/03/17 03:32	05/03/17 03:32	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 05:40	TH

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

EB-REST-01 L905668-68 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 09:35

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG978963	1	05/11/17 23:07	05/11/17 23:07	ASK
Wet Chemistry by Method 9056A	WG976618	1	05/05/17 13:56	05/05/17 13:56	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:25	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:52	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 22:20	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/01/17 18:24	05/01/17 18:24	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	1	05/03/17 03:53	05/03/17 03:53	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/04/17 22:52	TRF

EB-REST-04 L905668-69 GW

Collected by
Scott Ude-HMI Team

Collected date/time
04/27/17 10:30

Received date/time
04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG978963	1	05/11/17 22:30	05/11/17 22:30	ASK
Wet Chemistry by Method 4500CN E-2011	WG975491	1	05/01/17 21:47	05/02/17 15:06	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 17:43	05/03/17 17:43	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:16	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 15:06	TRB
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:29	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:56	RDS
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 22:24	VSS
Metals (ICPMS) by Method 6020	WG976972	1	05/05/17 13:15	05/10/17 11:56	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/01/17 18:48	05/01/17 18:48	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	1	05/03/17 04:13	05/03/17 04:13	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 06:14	TH

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



TRIP BLANK-REST-04 L905668-70 GW

			Collected by Scott Ude-HMI Team	Collected date/time 04/27/17 00:00	Received date/time 04/28/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 18:13	05/02/17 18:13	JHH

¹ Cp

² Tc

³ Ss

TRIP BLANK-REST-03 L905668-72 GW

			Collected by Scott Ude-HMI Team	Collected date/time 04/27/17 00:00	Received date/time 04/28/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 18:36	05/02/17 18:36	JHH

⁴ Cn

⁵ Sr

RW-8 L905668-73 GW

			Collected by Scott Ude-HMI Team	Collected date/time 04/26/17 15:05	Received date/time 04/28/17 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:50	05/04/17 11:50	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 18:00	05/03/17 18:00	KCF
Wet Chemistry by Method 9056A	WG975915	20	05/03/17 19:10	05/03/17 19:10	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:32	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:59	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 22:28	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	1	05/03/17 04:34	05/03/17 04:34	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	20	05/03/17 21:25	05/03/17 21:25	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	5	05/01/17 23:00	05/06/17 01:34	ADF

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-101 L905668-74 GW

			Collected by Scott Ude-HMI Team	Collected date/time 04/27/17 09:45	Received date/time 04/29/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:51	05/04/17 11:51	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 18:18	05/03/17 18:18	KCF
Wet Chemistry by Method 9056A	WG975915	20	05/03/17 19:27	05/03/17 19:27	KCF
Metals (ICPMS) by Method 6020	WG975340	1	05/02/17 14:58	05/02/17 19:20	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:12	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975393	1	05/01/17 14:19	05/01/17 14:19	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 22:58	05/02/17 22:58	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 08:13	TH

MW-40 L905668-75 GW

			Collected by Scott Ude-HMI Team	Collected date/time 04/27/17 12:10	Received date/time 04/29/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:52	05/04/17 11:52	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 21:47	05/03/17 21:47	KCF
Wet Chemistry by Method 9056A	WG975915	50	05/03/17 22:22	05/03/17 22:22	KCF
Metals (ICPMS) by Method 6020	WG975340	1	05/02/17 14:58	05/02/17 19:23	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:16	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975393	1	05/01/17 14:40	05/01/17 14:40	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/03/17 22:17	05/03/17 22:17	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 08:30	TH

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



RW-9 L905668-76 GW

Collected by
Scott Ude-HMI TeamCollected date/time
04/27/17 11:15Received date/time
04/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	¹ Cp
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF	² Tc
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:53	05/04/17 11:53	DR	³ Ss
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 22:04	05/03/17 22:04	KCF	⁴ Cn
Wet Chemistry by Method 9056A	WG975915	100	05/03/17 22:39	05/03/17 22:39	KCF	⁵ Sr
Metals (ICPMS) by Method 6020	WG975340	1	05/02/17 14:58	05/02/17 19:27	VSS	⁶ Qc
Metals (ICPMS) by Method 6020	WG975340	5	05/02/17 14:58	05/02/17 20:37	VSS	⁷ Gl
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:19	VSS	⁸ Al
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975393	1	05/01/17 15:01	05/01/17 15:01	BMB	⁹ Sc
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/03/17 22:30	05/03/17 22:30	LRL	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	5	05/04/17 13:54	05/04/17 13:54	LRL	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 09:04	TH	



All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Technical Service Representative

Sample Handling and Receiving

VOC pH outside of method requirement.

ESC Sample ID	Project Sample ID	Method
L905668-35	MW-39	8015D/GRO
L905668-40	MW-94	8015D/GRO

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1610		2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.442	J	0.197	1.00	10	05/05/2017 10:17	WG975895

Sample Narrative:

353.2 L905668-01 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

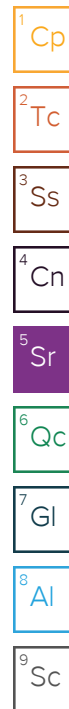
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	409		0.519	10.0	10	05/04/2017 19:55	WG976555
Fluoride	0.774		0.00990	0.100	1	05/04/2017 19:39	WG976555
Sulfate	19.4		0.0774	5.00	1	05/04/2017 19:39	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0274		0.000250	0.00200	1	05/04/2017 23:02	WG975076
Arsenic,Dissolved	0.0306		0.000250	0.00200	1	05/03/2017 01:52	WG975067
Barium	0.885		0.000360	0.00500	1	05/04/2017 23:02	WG975076
Barium,Dissolved	0.896		0.000360	0.00500	1	05/03/2017 01:52	WG975067
Calcium	160		0.0460	1.00	1	05/04/2017 23:02	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:02	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:52	WG975067
Iron	0.316		0.0150	0.100	1	05/04/2017 23:02	WG975076
Iron,Dissolved	0.137		0.0150	0.100	1	05/03/2017 01:52	WG975067
Lead	0.0116		0.000240	0.00200	1	05/04/2017 23:02	WG975076
Lead,Dissolved	0.000501	J	0.000240	0.00200	1	05/03/2017 01:52	WG975067
Manganese	0.358		0.000250	0.00500	1	05/04/2017 23:02	WG975076
Manganese,Dissolved	0.376		0.000250	0.00500	1	05/03/2017 01:52	WG975067
Potassium	1.59		0.0370	1.00	1	05/04/2017 23:02	WG975076
Selenium	0.000461	B J	0.000380	0.00200	1	05/04/2017 23:02	WG975076
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 01:52	WG975067
Sodium	269		0.110	1.00	1	05/04/2017 23:02	WG975076

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.250	1.25	25	05/02/2017 03:30	WG975620
Benzene	19.1		0.166	0.500	500	05/05/2017 18:52	WG975620
Bromodichloromethane	U		0.00950	0.0250	25	05/02/2017 03:30	WG975620
Bromoform	U		0.0117	0.0250	25	05/02/2017 03:30	WG975620
Bromomethane	U		0.0216	0.125	25	05/02/2017 03:30	WG975620
n-Butylbenzene	0.0168	J	0.00902	0.0250	25	05/02/2017 03:30	WG975620
sec-Butylbenzene	0.0194	J	0.00912	0.0250	25	05/02/2017 03:30	WG975620
Carbon disulfide	U		0.00688	0.0250	25	05/02/2017 03:30	WG975620
Carbon tetrachloride	U		0.00948	0.0250	25	05/02/2017 03:30	WG975620
Chlorobenzene	U		0.00870	0.0250	25	05/02/2017 03:30	WG975620
Chlorodibromomethane	U		0.00818	0.0250	25	05/02/2017 03:30	WG975620
Chloroethane	U		0.0113	0.125	25	05/02/2017 03:30	WG975620
Chloroform	U		0.00810	0.125	25	05/02/2017 03:30	WG975620





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.00690	0.0625	25	05/02/2017 03:30	WG975620
1,2-Dibromoethane	U		0.00952	0.0250	25	05/02/2017 03:30	WG975620
1,1-Dichloroethane	U		0.00648	0.0250	25	05/02/2017 03:30	WG975620
1,2-Dichloroethane	U		0.00902	0.0250	25	05/02/2017 03:30	WG975620
1,1-Dichloroethene	U		0.00995	0.0250	25	05/02/2017 03:30	WG975620
cis-1,2-Dichloroethene	U		0.00650	0.0250	25	05/02/2017 03:30	WG975620
trans-1,2-Dichloroethene	U		0.00990	0.0250	25	05/02/2017 03:30	WG975620
1,2-Dichloropropane	U		0.00765	0.0250	25	05/02/2017 03:30	WG975620
cis-1,3-Dichloropropene	U		0.0104	0.0250	25	05/02/2017 03:30	WG975620
trans-1,3-Dichloropropene	U		0.0105	0.0250	25	05/02/2017 03:30	WG975620
Ethylbenzene	4.19		0.00960	0.0250	25	05/02/2017 03:30	WG975620
Isopropylbenzene	0.143		0.00815	0.0250	25	05/02/2017 03:30	WG975620
p-Isopropyltoluene	U		0.00875	0.0250	25	05/02/2017 03:30	WG975620
2-Butanone (MEK)	U		0.0982	0.250	25	05/02/2017 03:30	WG975620
2-Hexanone	U		0.0955	0.250	25	05/02/2017 03:30	WG975620
Methylene Chloride	U		0.0250	0.125	25	05/02/2017 03:30	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.0535	0.250	25	05/02/2017 03:30	WG975620
Methyl tert-butyl ether	4.25		0.00918	0.0250	25	05/02/2017 03:30	WG975620
Naphthalene	0.383		0.0250	0.125	25	05/02/2017 03:30	WG975620
n-Propylbenzene	0.296		0.00872	0.0250	25	05/02/2017 03:30	WG975620
Styrene	U		0.00768	0.0250	25	05/02/2017 03:30	WG975620
1,1,1,2-Tetrachloroethane	U		0.00962	0.0250	25	05/02/2017 03:30	WG975620
1,1,2,2-Tetrachloroethane	U		0.00325	0.0250	25	05/02/2017 03:30	WG975620
Tetrachloroethene	U		0.00930	0.0250	25	05/02/2017 03:30	WG975620
Toluene	0.172		0.0103	0.0250	25	05/02/2017 03:30	WG975620
1,1,1-Trichloroethane	U		0.00798	0.0250	25	05/02/2017 03:30	WG975620
1,1,2-Trichloroethane	U		0.00958	0.0250	25	05/02/2017 03:30	WG975620
Trichloroethene	U		0.00995	0.0250	25	05/02/2017 03:30	WG975620
1,2,4-Trimethylbenzene	1.46		0.00932	0.0250	25	05/02/2017 03:30	WG975620
1,3,5-Trimethylbenzene	0.231		0.00968	0.0250	25	05/02/2017 03:30	WG975620
Vinyl chloride	U		0.00648	0.0250	25	05/02/2017 03:30	WG975620
o-Xylene	0.472		0.00852	0.0250	25	05/02/2017 03:30	WG975620
m&p-Xylene	4.92		0.0180	0.0500	25	05/02/2017 03:30	WG975620
Xylenes, Total	5.39		0.0265	0.0750	25	05/02/2017 03:30	WG975620
(S) Toluene-d8	105			80.0-120		05/02/2017 03:30	WG975620
(S) Toluene-d8	110			80.0-120		05/05/2017 18:52	WG975620
(S) Dibromofluoromethane	106			76.0-123		05/05/2017 18:52	WG975620
(S) Dibromofluoromethane	121			76.0-123		05/02/2017 03:30	WG975620
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 03:30	WG975620
(S) 4-Bromofluorobenzene	133	J1		80.0-120		05/05/2017 18:52	WG975620

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.74		0.124	0.500	5	05/05/2017 19:14	WG975550
(S) o-Terphenyl	78.5			31.0-160		05/05/2017 19:14	WG975550



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2210		2.82	10.0	1	05/02/2017 14:23	WG975504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.202	J	0.197	1.00	10	05/05/2017 10:18	WG975895

Sample Narrative:

353.2 L905668-02 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	909		1.04	20.0	20	05/04/2017 20:56	WG976555
Fluoride	1.47		0.00990	0.100	1	05/04/2017 20:41	WG976555
Sulfate	18.2		0.0774	5.00	1	05/04/2017 20:41	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00786		0.000250	0.00200	1	05/04/2017 23:06	WG975076
Arsenic,Dissolved	0.00737		0.000250	0.00200	1	05/03/2017 01:55	WG975067
Barium	2.54		0.000360	0.00500	1	05/04/2017 23:06	WG975076
Barium,Dissolved	2.54		0.000360	0.00500	1	05/03/2017 01:55	WG975067
Calcium	190		0.0460	1.00	1	05/04/2017 23:06	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:06	WG975076
Chromium,Dissolved	0.000562	J	0.000540	0.00200	1	05/03/2017 01:55	WG975067
Iron	0.0884	J	0.0150	0.100	1	05/04/2017 23:06	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:55	WG975067
Lead	0.00150	J	0.000240	0.00200	1	05/04/2017 23:06	WG975076
Lead,Dissolved	0.000434	J	0.000240	0.00200	1	05/03/2017 01:55	WG975067
Manganese	0.210		0.000250	0.00500	1	05/04/2017 23:06	WG975076
Manganese,Dissolved	0.214		0.000250	0.00500	1	05/03/2017 01:55	WG975067
Potassium	1.13		0.0370	1.00	1	05/04/2017 23:06	WG975076
Selenium	0.000838	B J	0.000380	0.00200	1	05/04/2017 23:06	WG975076
Selenium,Dissolved	0.0553		0.000380	0.00200	1	05/03/2017 01:55	WG975067
Sodium	255		0.110	1.00	1	05/04/2017 23:06	WG975076

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	31.5		1.57	5.00	50	05/01/2017 01:17	WG975302
(S) a,a,a-Trifluorotoluene(FID) 99.8				77.0-122		05/01/2017 01:17	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.500	2.50	50	05/02/2017 03:51	WG975620
Benzene	11.7		0.331	1.00	1000	05/08/2017 15:45	WG975620
Bromodichloromethane	U		0.0190	0.0500	50	05/02/2017 03:51	WG975620
Bromoform	U		0.0234	0.0500	50	05/02/2017 03:51	WG975620
Bromomethane	U		0.0433	0.250	50	05/02/2017 03:51	WG975620
n-Butylbenzene	U		0.0180	0.0500	50	05/02/2017 03:51	WG975620



Collected date/time: 04/26/17 09:15

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.0182	0.0500	50	05/02/2017 03:51	WG975620
Carbon disulfide	U		0.0138	0.0500	50	05/02/2017 03:51	WG975620
Carbon tetrachloride	U		0.0190	0.0500	50	05/02/2017 03:51	WG975620
Chlorobenzene	U		0.0174	0.0500	50	05/02/2017 03:51	WG975620
Chlorodibromomethane	U		0.0164	0.0500	50	05/02/2017 03:51	WG975620
Chloroethane	U		0.0226	0.250	50	05/02/2017 03:51	WG975620
Chloroform	U		0.0162	0.250	50	05/02/2017 03:51	WG975620
Chloromethane	U		0.0138	0.125	50	05/02/2017 03:51	WG975620
1,2-Dibromoethane	U		0.0190	0.0500	50	05/02/2017 03:51	WG975620
1,1-Dichloroethane	U		0.0130	0.0500	50	05/02/2017 03:51	WG975620
1,2-Dichloroethane	U		0.0180	0.0500	50	05/02/2017 03:51	WG975620
1,1-Dichloroethene	U		0.0199	0.0500	50	05/02/2017 03:51	WG975620
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/02/2017 03:51	WG975620
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/02/2017 03:51	WG975620
1,2-Dichloropropane	U		0.0153	0.0500	50	05/02/2017 03:51	WG975620
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/02/2017 03:51	WG975620
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/02/2017 03:51	WG975620
Ethylbenzene	1.27		0.0192	0.0500	50	05/02/2017 03:51	WG975620
Isopropylbenzene	0.0828		0.0163	0.0500	50	05/02/2017 03:51	WG975620
p-Isopropyltoluene	U		0.0175	0.0500	50	05/02/2017 03:51	WG975620
2-Butanone (MEK)	U		0.196	0.500	50	05/02/2017 03:51	WG975620
2-Hexanone	U		0.191	0.500	50	05/02/2017 03:51	WG975620
Methylene Chloride	U		0.0500	0.250	50	05/02/2017 03:51	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/02/2017 03:51	WG975620
Methyl tert-butyl ether	0.214		0.0184	0.0500	50	05/02/2017 03:51	WG975620
Naphthalene	0.224	J	0.0500	0.250	50	05/02/2017 03:51	WG975620
n-Propylbenzene	0.144		0.0174	0.0500	50	05/02/2017 03:51	WG975620
Styrene	U		0.0154	0.0500	50	05/02/2017 03:51	WG975620
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/02/2017 03:51	WG975620
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/02/2017 03:51	WG975620
Tetrachloroethene	U		0.0186	0.0500	50	05/02/2017 03:51	WG975620
Toluene	0.667		0.0206	0.0500	50	05/02/2017 03:51	WG975620
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/02/2017 03:51	WG975620
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/02/2017 03:51	WG975620
Trichloroethene	U		0.0199	0.0500	50	05/02/2017 03:51	WG975620
1,2,4-Trimethylbenzene	0.482		0.0186	0.0500	50	05/02/2017 03:51	WG975620
1,3,5-Trimethylbenzene	0.0577		0.0194	0.0500	50	05/02/2017 03:51	WG975620
Vinyl chloride	U		0.0130	0.0500	50	05/02/2017 03:51	WG975620
o-Xylene	0.115		0.0170	0.0500	50	05/02/2017 03:51	WG975620
m&p-Xylene	1.04		0.0360	0.100	50	05/02/2017 03:51	WG975620
Xylenes, Total	1.16		0.0530	0.150	50	05/02/2017 03:51	WG975620
(S) Toluene-d8	99.2			80.0-120		05/08/2017 15:45	WG975620
(S) Toluene-d8	105			80.0-120		05/02/2017 03:51	WG975620
(S) Dibromofluoromethane	102			76.0-123		05/08/2017 15:45	WG975620
(S) Dibromofluoromethane	106			76.0-123		05/02/2017 03:51	WG975620
(S) 4-Bromofluorobenzene	92.1			80.0-120		05/08/2017 15:45	WG975620
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 03:51	WG975620

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	10.6		0.124	0.500	5	05/05/2017 19:31	WG975550
(S) o-Terphenyl	60.5			31.0-160		05/05/2017 19:31	WG975550



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2510		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	3.26		0.197	1.00	10	05/05/2017 10:19	WG975895

Sample Narrative:

353.2 L905668-03 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	266		1.04	20.0	20	05/04/2017 21:27	WG976555
Fluoride	0.778		0.00990	0.100	1	05/04/2017 21:12	WG976555
Sulfate	1020		1.55	100	20	05/04/2017 21:27	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00391		0.000250	0.00200	1	05/04/2017 19:21	WG975076
Arsenic,Dissolved	0.00386		0.000250	0.00200	1	05/03/2017 01:59	WG975067
Barium	0.0198		0.000360	0.00500	1	05/04/2017 19:21	WG975076
Barium,Dissolved	0.0173		0.000360	0.00500	1	05/03/2017 01:59	WG975067
Calcium	263	V	0.0460	1.00	1	05/04/2017 19:21	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 19:21	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:59	WG975067
Iron	0.0756	J	0.0150	0.100	1	05/04/2017 19:21	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:59	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 22:08	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 01:59	WG975067
Manganese	0.0972		0.000250	0.00500	1	05/04/2017 19:21	WG975076
Manganese,Dissolved	0.0967		0.000250	0.00500	1	05/03/2017 01:59	WG975067
Potassium	0.676	J	0.0370	1.00	1	05/04/2017 19:21	WG975076
Selenium	0.0101		0.000380	0.00200	1	05/04/2017 19:21	WG975076
Selenium,Dissolved	0.0164		0.000380	0.00200	1	05/03/2017 01:59	WG975067
Sodium	290	V	0.110	1.00	1	05/04/2017 19:21	WG975076

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 01:41	WG975302
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		05/01/2017 01:41	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 04:12	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 04:12	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 04:12	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 04:12	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 04:12	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 04:12	WG975620

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 04:12	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 04:12	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 04:12	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 04:12	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 04:12	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 04:12	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 04:12	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 04:12	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 04:12	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 04:12	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 04:12	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 04:12	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 04:12	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 04:12	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 04:12	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 04:12	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 04:12	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 04:12	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 04:12	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 04:12	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 04:12	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 04:12	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 04:12	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 04:12	WG975620
Methyl tert-butyl ether	0.00130		0.000367	0.00100	1	05/02/2017 04:12	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 04:12	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 04:12	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 04:12	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 04:12	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 04:12	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 04:12	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 04:12	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 04:12	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 04:12	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 04:12	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 04:12	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 04:12	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 04:12	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 04:12	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 04:12	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 04:12	WG975620
(S) Toluene-d8	104			80.0-120		05/02/2017 04:12	WG975620
(S) Dibromofluoromethane	102			76.0-123		05/02/2017 04:12	WG975620
(S) 4-Bromofluorobenzene	102			80.0-120		05/02/2017 04:12	WG975620

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

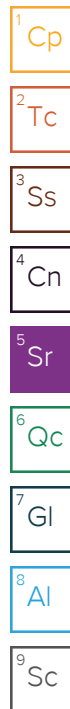
Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.08		0.0247	0.100	1	05/09/2017 12:26	WG977596
(S) o-Terphenyl	63.3			31.0-160		05/09/2017 12:26	WG977596



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 04:33	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 04:33	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 04:33	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 04:33	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 04:33	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 04:33	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 04:33	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 04:33	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 04:33	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 04:33	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 04:33	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 04:33	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 04:33	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 04:33	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 04:33	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 04:33	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 04:33	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 04:33	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 04:33	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 04:33	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 04:33	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 04:33	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 04:33	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 04:33	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 04:33	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 04:33	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 04:33	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 04:33	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 04:33	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 04:33	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 04:33	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 04:33	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 04:33	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 04:33	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 04:33	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 04:33	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 04:33	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 04:33	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 04:33	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 04:33	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 04:33	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 04:33	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 04:33	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 04:33	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 04:33	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 04:33	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 04:33	WG975620
(S) Toluene-d8	104			80.0-120		05/02/2017 04:33	WG975620
(S) Dibromofluoromethane	104			76.0-123		05/02/2017 04:33	WG975620
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 04:33	WG975620



Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0526	J	0.0247	0.100	1	05/09/2017 13:02	WG977596



Collected date/time: 04/26/17 08:55

L905668

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
(S) o-Terphenyl	59.6			31.0-160		05/09/2017 13:02	WG977596

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Sr
- 6Qc
- 7Gl
- 8Al
- 9Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4140		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.37		0.197	1.00	10	05/05/2017 10:21	WG975895

Sample Narrative:

353.2 L905668-05 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	499		2.60	50.0	50	05/04/2017 21:58	WG976555
Fluoride	0.944		0.00990	0.100	1	05/04/2017 21:43	WG976555
Sulfate	2880		3.87	250	50	05/04/2017 21:58	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00453		0.000250	0.00200	1	05/04/2017 23:09	WG975076
Arsenic,Dissolved	0.00441		0.000250	0.00200	1	05/03/2017 02:02	WG975067
Barium	0.00963		0.000360	0.00500	1	05/04/2017 23:09	WG975076
Barium,Dissolved	0.0101		0.000360	0.00500	1	05/03/2017 02:02	WG975067
Calcium	528		0.0460	1.00	1	05/04/2017 23:09	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:09	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:02	WG975067
Iron	U		0.0150	0.100	1	05/04/2017 23:09	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:02	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 23:09	WG975076
Lead,Dissolved	0.000467	J	0.000240	0.00200	1	05/03/2017 02:02	WG975067
Manganese	0.00801		0.000250	0.00500	1	05/04/2017 23:09	WG975076
Manganese,Dissolved	0.00881		0.000250	0.00500	1	05/03/2017 02:02	WG975067
Potassium	1.56		0.0370	1.00	1	05/04/2017 23:09	WG975076
Selenium	0.00537		0.000380	0.00200	1	05/04/2017 23:09	WG975076
Selenium,Dissolved	0.0106		0.000380	0.00200	1	05/03/2017 02:02	WG975067
Sodium	247		0.110	1.00	1	05/04/2017 23:09	WG975076

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 02:05	WG975302
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		05/01/2017 02:05	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 04:55	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 04:55	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 04:55	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 04:55	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 04:55	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 04:55	WG975620



Collected date/time: 04/26/17 08:45

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 04:55	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 04:55	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 04:55	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 04:55	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 04:55	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 04:55	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 04:55	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 04:55	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 04:55	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 04:55	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 04:55	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 04:55	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 04:55	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 04:55	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 04:55	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 04:55	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 04:55	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 04:55	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 04:55	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 04:55	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 04:55	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 04:55	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 04:55	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 04:55	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 04:55	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 04:55	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 04:55	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 04:55	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 04:55	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 04:55	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 04:55	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 04:55	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 04:55	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 04:55	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 04:55	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 04:55	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 04:55	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 04:55	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 04:55	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 04:55	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 04:55	WG975620
(S) Toluene-d8	104			80.0-120		05/02/2017 04:55	WG975620
(S) Dibromofluoromethane	105			76.0-123		05/02/2017 04:55	WG975620
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 04:55	WG975620

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0894	J	0.0247	0.100	1	05/09/2017 13:20	WG977596
(S) o-Terphenyl	62.8			31.0-160		05/09/2017 13:20	WG977596



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1820		2.82	10.0	1	05/02/2017 14:23	WG975504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.55		0.197	1.00	10	05/05/2017 10:26	WG975895

6 Qc

7 Gl

8 Al

Sample Narrative:

353.2 L905668-06 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	95.1		0.0519	1.00	1	05/04/2017 22:13	WG976555
Fluoride	0.359		0.00990	0.100	1	05/04/2017 22:13	WG976555
Sulfate	1010		1.55	100	20	05/04/2017 22:29	WG976555

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	305		0.0460	1.00	1	05/04/2017 19:53	WG975076
Potassium	2.03		0.0370	1.00	1	05/04/2017 19:53	WG975076
Sodium	64.6		0.110	1.00	1	05/04/2017 19:53	WG975076

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 05:16	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 05:16	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:16	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:16	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:16	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:16	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:16	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:16	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:16	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:16	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:16	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:16	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:16	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:16	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:16	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:16	WG975620
1,2-Dichloroethane	0.000793	J	0.000361	0.00100	1	05/02/2017 05:16	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:16	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:16	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:16	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:16	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:16	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:16	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:16	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:16	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:16	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:16	WG975620



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:16	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:16	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:16	WG975620
Methyl tert-butyl ether	0.00360		0.000367	0.00100	1	05/02/2017 05:16	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:16	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:16	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 05:16	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:16	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:16	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:16	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 05:16	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:16	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:16	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:16	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:16	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:16	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:16	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:16	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:16	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:16	WG975620
(S) Toluene-d8	101			80.0-120		05/02/2017 05:16	WG975620
(S) Dibromofluoromethane	105			76.0-123		05/02/2017 05:16	WG975620
(S) 4-Bromofluorobenzene	102			80.0-120		05/02/2017 05:16	WG975620

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2220		2.82	10.0	1	05/02/2017 14:23	WG975504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/05/2017 10:27	WG975895

Sample Narrative:

353.2 L905668-07 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	142		1.04	20.0	20	05/04/2017 23:00	WG976555
Fluoride	0.309		0.00990	0.100	1	05/04/2017 22:44	WG976555
Sulfate	1250		1.55	100	20	05/04/2017 23:00	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	378		0.0460	1.00	1	05/04/2017 19:56	WG975076
Potassium	2.19		0.0370	1.00	1	05/04/2017 19:56	WG975076
Sodium	91.1		0.110	1.00	1	05/04/2017 19:56	WG975076

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 05:37	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 05:37	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:37	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:37	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:37	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:37	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:37	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:37	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:37	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:37	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:37	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:37	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:37	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:37	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:37	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:37	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 05:37	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:37	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:37	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:37	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:37	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:37	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:37	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:37	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:37	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:37	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:37	WG975620



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:37	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:37	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:37	WG975620
Methyl tert-butyl ether	0.00618		0.000367	0.00100	1	05/02/2017 05:37	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:37	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:37	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 05:37	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:37	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:37	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:37	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 05:37	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:37	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:37	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:37	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:37	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:37	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:37	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:37	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:37	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:37	WG975620
(S) Toluene-d8	104			80.0-120		05/02/2017 05:37	WG975620
(S) Dibromofluoromethane	102			76.0-123		05/02/2017 05:37	WG975620
(S) 4-Bromofluorobenzene	100			80.0-120		05/02/2017 05:37	WG975620

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2400		2.82	10.0	1	05/02/2017 14:23	WG975504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.330	J	0.197	1.00	10	05/05/2017 10:28	WG975895

Sample Narrative:

353.2 L905668-08 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	568		1.04	20.0	20	05/05/2017 00:01	WG976555
Fluoride	0.668		0.00990	0.100	1	05/04/2017 23:46	WG976555
Sulfate	1080		1.55	100	20	05/05/2017 00:01	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	337		0.0460	1.00	1	05/04/2017 20:00	WG975076
Potassium	2.41		0.0370	1.00	1	05/04/2017 20:00	WG975076
Sodium	292		0.110	1.00	1	05/04/2017 20:00	WG975076

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 05:58	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 05:58	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:58	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:58	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:58	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:58	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:58	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:58	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:58	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:58	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:58	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:58	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:58	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:58	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:58	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:58	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 05:58	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:58	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:58	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:58	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:58	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:58	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:58	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:58	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:58	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:58	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:58	WG975620



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:58	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:58	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:58	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 05:58	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:58	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:58	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 05:58	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:58	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:58	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:58	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 05:58	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:58	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:58	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:58	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:58	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:58	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:58	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:58	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:58	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:58	WG975620
(S) Toluene-d8	104			80.0-120		05/02/2017 05:58	WG975620
(S) Dibromofluoromethane	105			76.0-123		05/02/2017 05:58	WG975620
(S) 4-Bromofluorobenzene	105			80.0-120		05/02/2017 05:58	WG975620

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5050		2.82	10.0	1	05/02/2017 14:23	WG975504

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	63.3		0.197	1.00	10	05/05/2017 10:29	WG975895

Sample Narrative:

353.2 L905668-09 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	1200		5.19	100	100	05/02/2017 13:10	WG975537
Fluoride	1.23		0.00990	0.100	1	05/02/2017 12:56	WG975537
Sulfate	2900		7.74	500	100	05/02/2017 13:10	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00324		0.000250	0.00200	1	05/04/2017 23:13	WG975076
Arsenic,Dissolved	0.00300		0.000250	0.00200	1	05/03/2017 02:06	WG975067
Barium	0.0221		0.000360	0.00500	1	05/04/2017 23:13	WG975076
Barium,Dissolved	0.00994		0.000360	0.00500	1	05/03/2017 02:06	WG975067
Calcium	608		0.0460	1.00	1	05/04/2017 23:13	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:13	WG975076
Chromium,Dissolved	0.000633	J	0.000540	0.00200	1	05/03/2017 02:06	WG975067
Iron	0.339		0.0150	0.100	1	05/04/2017 23:13	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:06	WG975067
Lead	0.000499	J	0.000240	0.00200	1	05/04/2017 23:13	WG975076
Lead,Dissolved	0.000270	J	0.000240	0.00200	1	05/03/2017 02:06	WG975067
Manganese	0.0187		0.000250	0.00500	1	05/04/2017 23:13	WG975076
Manganese,Dissolved	0.000848	B J	0.000250	0.00500	1	05/03/2017 02:06	WG975067
Potassium	0.979	J	0.0370	1.00	1	05/04/2017 23:13	WG975076
Selenium	0.0361		0.000380	0.00200	1	05/04/2017 23:13	WG975076
Selenium,Dissolved	0.0402		0.000380	0.00200	1	05/03/2017 02:06	WG975067
Sodium	626		0.110	1.00	1	05/04/2017 23:13	WG975076

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 02:29	WG975302
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		05/01/2017 02:29	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 06:20	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 06:20	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 06:20	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 06:20	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 06:20	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 06:20	WG975620



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 06:20	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 06:20	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 06:20	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 06:20	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 06:20	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 06:20	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 06:20	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 06:20	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 06:20	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 06:20	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 06:20	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 06:20	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 06:20	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 06:20	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 06:20	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 06:20	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 06:20	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 06:20	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 06:20	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 06:20	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 06:20	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 06:20	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 06:20	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 06:20	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 06:20	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 06:20	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 06:20	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 06:20	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 06:20	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 06:20	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 06:20	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 06:20	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 06:20	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 06:20	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 06:20	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 06:20	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 06:20	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 06:20	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 06:20	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 06:20	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 06:20	WG975620
(S) Toluene-d8	104			80.0-120		05/02/2017 06:20	WG975620
(S) Dibromofluoromethane	106			76.0-123		05/02/2017 06:20	WG975620
(S) 4-Bromofluorobenzene	102			80.0-120		05/02/2017 06:20	WG975620

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0767	J	0.0247	0.100	1	05/09/2017 13:38	WG977596
(S) o-Terphenyl	62.0			31.0-160		05/09/2017 13:38	WG977596



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3640		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.266	<u>J</u>	0.197	1.00	10	05/05/2017 10:30	WG975895

Sample Narrative:

353.2 L905668-10 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	245		5.19	100	100	05/02/2017 13:41	WG975537
Fluoride	3.33		0.00990	0.100	1	05/02/2017 13:26	WG975537
Sulfate	2090		7.74	500	100	05/02/2017 13:41	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00255		0.000250	0.00200	1	05/04/2017 23:16	WG975076
Arsenic,Dissolved	0.00240		0.000250	0.00200	1	05/03/2017 02:16	WG975067
Barium	0.0197		0.000360	0.00500	1	05/04/2017 23:16	WG975076
Barium,Dissolved	0.00950	<u>B</u>	0.000360	0.00500	1	05/03/2017 02:16	WG975067
Calcium	548		0.0460	1.00	1	05/04/2017 23:16	WG975076
Chromium	0.00209		0.000540	0.00200	1	05/04/2017 23:16	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:16	WG975067
Iron	1.11		0.0150	0.100	1	05/04/2017 23:16	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:16	WG975067
Lead	0.000901	<u>J</u>	0.000240	0.00200	1	05/04/2017 23:16	WG975076
Lead,Dissolved	0.000330	<u>J</u>	0.000240	0.00200	1	05/03/2017 02:16	WG975067
Manganese	0.0147		0.000250	0.00500	1	05/04/2017 23:16	WG975076
Manganese,Dissolved	0.00260	<u>B J</u>	0.000250	0.00500	1	05/03/2017 02:16	WG975067
Potassium	6.50		0.0370	1.00	1	05/04/2017 23:16	WG975076
Selenium	0.00349	<u>B</u>	0.000380	0.00200	1	05/04/2017 23:16	WG975076
Selenium,Dissolved	0.00439		0.000380	0.00200	1	05/03/2017 02:16	WG975067
Sodium	96.7		0.110	1.00	1	05/04/2017 23:16	WG975076

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 02:54	WG975302
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		05/01/2017 02:54	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 06:41	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 06:41	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 06:41	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 06:41	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 06:41	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 06:41	WG975620



Collected date/time: 04/26/17 08:55

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 06:41	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 06:41	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 06:41	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 06:41	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 06:41	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 06:41	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 06:41	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 06:41	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 06:41	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 06:41	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 06:41	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 06:41	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 06:41	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 06:41	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 06:41	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 06:41	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 06:41	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 06:41	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 06:41	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 06:41	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 06:41	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 06:41	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 06:41	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 06:41	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 06:41	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 06:41	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 06:41	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 06:41	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 06:41	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 06:41	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 06:41	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 06:41	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 06:41	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 06:41	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 06:41	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 06:41	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 06:41	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 06:41	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 06:41	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 06:41	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 06:41	WG975620
(S) Toluene-d8	103			80.0-120		05/02/2017 06:41	WG975620
(S) Dibromofluoromethane	104			76.0-123		05/02/2017 06:41	WG975620
(S) 4-Bromofluorobenzene	101			80.0-120		05/02/2017 06:41	WG975620

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/05/2017 20:41	WG975550
(S) o-Terphenyl	60.5			31.0-160		05/05/2017 20:41	WG975550



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3830		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	8.51		0.197	1.00	10	05/05/2017 10:31	WG975895

Sample Narrative:

353.2 L905668-11 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	175		5.19	100	100	05/02/2017 14:12	WG975537
Fluoride	5.98		0.00990	0.100	1	05/02/2017 13:57	WG975537
Sulfate	2630		7.74	500	100	05/02/2017 14:12	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0105		0.000250	0.00200	1	05/04/2017 23:20	WG975076
Arsenic,Dissolved	0.0104		0.000250	0.00200	1	05/03/2017 02:20	WG975067
Barium	0.00910		0.000360	0.00500	1	05/04/2017 23:20	WG975076
Barium,Dissolved	0.00910	B	0.000360	0.00500	1	05/03/2017 02:20	WG975067
Calcium	544		0.0460	1.00	1	05/04/2017 23:20	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:20	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:20	WG975067
Iron	0.0337	J	0.0150	0.100	1	05/04/2017 23:20	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:20	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 23:20	WG975076
Lead,Dissolved	0.000324	J	0.000240	0.00200	1	05/03/2017 02:20	WG975067
Manganese	0.000670	J	0.000250	0.00500	1	05/04/2017 23:20	WG975076
Manganese,Dissolved	U		0.000250	0.00500	1	05/03/2017 02:20	WG975067
Potassium	5.06		0.0370	1.00	1	05/04/2017 23:20	WG975076
Selenium	0.0222		0.000380	0.00200	1	05/04/2017 23:20	WG975076
Selenium,Dissolved	0.0236		0.000380	0.00200	1	05/03/2017 02:20	WG975067
Sodium	139		0.110	1.00	1	05/04/2017 23:20	WG975076

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 03:18	WG975302
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		05/01/2017 03:18	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 07:01	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 07:01	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 07:01	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 07:01	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 07:01	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 07:01	WG975620



Collected date/time: 04/26/17 09:40

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 07:01	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 07:01	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 07:01	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 07:01	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 07:01	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 07:01	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 07:01	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 07:01	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 07:01	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 07:01	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 07:01	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 07:01	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 07:01	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 07:01	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 07:01	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 07:01	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 07:01	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 07:01	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 07:01	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 07:01	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 07:01	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 07:01	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 07:01	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 07:01	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 07:01	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 07:01	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 07:01	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 07:01	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 07:01	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 07:01	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 07:01	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 07:01	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 07:01	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 07:01	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 07:01	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 07:01	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 07:01	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 07:01	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 07:01	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 07:01	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 07:01	WG975620
(S) Toluene-d8	106			80.0-120		05/02/2017 07:01	WG975620
(S) Dibromofluoromethane	106			76.0-123		05/02/2017 07:01	WG975620
(S) 4-Bromofluorobenzene	104			80.0-120		05/02/2017 07:01	WG975620

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/05/2017 20:58	WG975550
(S) o-Terphenyl	60.4			31.0-160		05/05/2017 20:58	WG975550



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3650		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/05/2017 10:32	WG975895

Sample Narrative:

353.2 L905668-12 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	290		5.19	100	100	05/02/2017 15:14	WG975537
Fluoride	2.86		0.00990	0.100	1	05/02/2017 14:58	WG975537
Sulfate	2420		7.74	500	100	05/02/2017 15:14	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00376		0.000250	0.00200	1	05/04/2017 23:23	WG975076
Arsenic,Dissolved	0.00382		0.000250	0.00200	1	05/03/2017 02:23	WG975067
Barium	0.00966		0.000360	0.00500	1	05/04/2017 23:23	WG975076
Barium,Dissolved	0.0103		0.000360	0.00500	1	05/03/2017 02:23	WG975067
Calcium	587		0.0460	1.00	1	05/04/2017 23:23	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:23	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:23	WG975067
Iron	0.0438	J	0.0150	0.100	1	05/04/2017 23:23	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:23	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 23:23	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:23	WG975067
Manganese	0.00331	J	0.000250	0.00500	1	05/04/2017 23:23	WG975076
Manganese,Dissolved	0.00177	B J	0.000250	0.00500	1	05/03/2017 02:23	WG975067
Potassium	0.965	J	0.0370	1.00	1	05/04/2017 23:23	WG975076
Selenium	0.00442		0.000380	0.00200	1	05/04/2017 23:23	WG975076
Selenium,Dissolved	0.00434		0.000380	0.00200	1	05/03/2017 02:23	WG975067
Sodium	123		0.110	1.00	1	05/04/2017 23:23	WG975076

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 03:42	WG975302
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		05/01/2017 03:42	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 07:22	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 07:22	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 07:22	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 07:22	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 07:22	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 07:22	WG975620



Collected date/time: 04/26/17 10:25

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 07:22	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 07:22	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 07:22	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 07:22	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 07:22	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 07:22	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 07:22	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 07:22	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 07:22	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 07:22	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 07:22	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 07:22	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 07:22	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 07:22	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 07:22	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 07:22	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 07:22	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 07:22	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 07:22	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 07:22	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 07:22	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 07:22	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 07:22	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 07:22	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 07:22	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 07:22	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 07:22	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 07:22	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 07:22	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 07:22	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 07:22	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 07:22	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 07:22	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 07:22	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 07:22	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 07:22	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 07:22	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 07:22	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 07:22	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 07:22	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 07:22	WG975620
(S) Toluene-d8	103			80.0-120		05/02/2017 07:22	WG975620
(S) Dibromofluoromethane	105			76.0-123		05/02/2017 07:22	WG975620
(S) 4-Bromofluorobenzene	102			80.0-120		05/02/2017 07:22	WG975620

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0622	J	0.0247	0.100	1	05/09/2017 13:55	WG977596
(S) o-Terphenyl	61.5			31.0-160		05/09/2017 13:55	WG977596



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1580		2.82	10.0	1	05/02/2017 15:55	WG975505

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/05/2017 10:33	WG975895

Sample Narrative:

353.2 L905668-13 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	575		1.04	20.0	20	05/02/2017 15:45	WG975537
Fluoride	0.936		0.00990	0.100	1	05/02/2017 15:29	WG975537
Sulfate	14.8		0.0774	5.00	1	05/02/2017 15:29	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0219		0.000250	0.00200	1	05/04/2017 23:27	WG975076
Arsenic,Dissolved	0.0214		0.000250	0.00200	1	05/03/2017 02:27	WG975067
Barium	3.49		0.000360	0.00500	1	05/04/2017 23:27	WG975076
Barium,Dissolved	3.27		0.000360	0.00500	1	05/03/2017 02:27	WG975067
Calcium	224		0.0460	1.00	1	05/04/2017 23:27	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:27	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:27	WG975067
Iron	4.43		0.0150	0.100	1	05/04/2017 23:27	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:27	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 23:27	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:27	WG975067
Manganese	1.81		0.000250	0.00500	1	05/04/2017 23:27	WG975076
Manganese,Dissolved	1.89		0.000250	0.00500	1	05/03/2017 02:27	WG975067
Potassium	1.48		0.0370	1.00	1	05/04/2017 23:27	WG975076
Selenium	0.000511	B J	0.000380	0.00200	1	05/04/2017 23:27	WG975076
Selenium,Dissolved	0.000873	J	0.000380	0.00200	1	05/03/2017 02:27	WG975067
Sodium	204		0.110	1.00	1	05/04/2017 23:27	WG975076

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 07:44	WG975620
Benzene	0.525		0.0166	0.0500	50	05/05/2017 18:15	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 07:44	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 07:44	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 07:44	WG975620
n-Butylbenzene	0.00176		0.000361	0.00100	1	05/02/2017 07:44	WG975620
sec-Butylbenzene	0.00280		0.000365	0.00100	1	05/02/2017 07:44	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 07:44	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 07:44	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 07:44	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 07:44	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 07:44	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 07:44	WG975620



Collected date/time: 04/26/17 16:40

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.000276	0.00250	1	05/02/2017 07:44	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 07:44	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 07:44	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 07:44	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 07:44	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 07:44	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 07:44	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 07:44	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 07:44	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 07:44	WG975620
Ethylbenzene	0.0103		0.000384	0.00100	1	05/02/2017 07:44	WG975620
Isopropylbenzene	0.0138		0.000326	0.00100	1	05/02/2017 07:44	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 07:44	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 07:44	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 07:44	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 07:44	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 07:44	WG975620
Methyl tert-butyl ether	8.84		0.0734	0.200	200	05/08/2017 16:01	WG975620
Naphthalene	0.0302		0.00100	0.00500	1	05/02/2017 07:44	WG975620
n-Propylbenzene	0.0247		0.000349	0.00100	1	05/02/2017 07:44	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 07:44	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 07:44	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 07:44	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 07:44	WG975620
Toluene	0.00470		0.000412	0.00100	1	05/02/2017 07:44	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 07:44	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 07:44	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 07:44	WG975620
1,2,4-Trimethylbenzene	0.0172		0.000373	0.00100	1	05/02/2017 07:44	WG975620
1,3,5-Trimethylbenzene	0.00179		0.000387	0.00100	1	05/02/2017 07:44	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 07:44	WG975620
o-Xylene	0.00472		0.000341	0.00100	1	05/02/2017 07:44	WG975620
m&p-Xylene	0.0387		0.000719	0.00200	1	05/02/2017 07:44	WG975620
Xylenes, Total	0.0434		0.00106	0.00300	1	05/02/2017 07:44	WG975620
(S) Toluene-d8	101			80.0-120		05/08/2017 16:01	WG975620
(S) Toluene-d8	105			80.0-120		05/05/2017 18:15	WG975620
(S) Toluene-d8	107			80.0-120		05/02/2017 07:44	WG975620
(S) Dibromofluoromethane	99.9			76.0-123		05/08/2017 16:01	WG975620
(S) Dibromofluoromethane	102			76.0-123		05/05/2017 18:15	WG975620
(S) Dibromofluoromethane	105			76.0-123		05/02/2017 07:44	WG975620
(S) 4-Bromofluorobenzene	90.5			80.0-120		05/08/2017 16:01	WG975620
(S) 4-Bromofluorobenzene	96.3			80.0-120		05/05/2017 18:15	WG975620
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 07:44	WG975620

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.98		0.0247	0.100	1	05/05/2017 21:33	WG975550
(S) o-Terphenyl	68.2			31.0-160		05/05/2017 21:33	WG975550



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2250		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.266	J	0.197	1.00	10	05/05/2017 10:38	WG975895

Sample Narrative:

353.2 L905668-14 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	456	J3	1.04	20.0	20	05/02/2017 16:15	WG975537
Fluoride	1.28		0.00990	0.100	1	05/02/2017 16:00	WG975537
Sulfate	366	P1	1.55	100	20	05/02/2017 16:15	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0127		0.000250	0.00200	1	05/04/2017 23:30	WG975076
Arsenic,Dissolved	0.00967		0.000250	0.00200	1	05/03/2017 02:31	WG975067
Barium	0.0697		0.000360	0.00500	1	05/04/2017 23:30	WG975076
Barium,Dissolved	0.0596		0.000360	0.00500	1	05/03/2017 02:31	WG975067
Calcium	232		0.0460	1.00	1	05/04/2017 23:30	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:30	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:31	WG975067
Iron	6.15		0.0150	0.100	1	05/04/2017 23:30	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:31	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 23:30	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:31	WG975067
Manganese	1.57		0.000250	0.00500	1	05/04/2017 23:30	WG975076
Manganese,Dissolved	1.59		0.000250	0.00500	1	05/03/2017 02:31	WG975067
Potassium	0.203	J	0.0370	1.00	1	05/04/2017 23:30	WG975076
Selenium	U		0.000380	0.00200	1	05/04/2017 23:30	WG975076
Selenium,Dissolved	0.000586	J	0.000380	0.00200	1	05/03/2017 02:31	WG975067
Sodium	211		0.110	1.00	1	05/04/2017 23:30	WG975076

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.27		0.0314	0.100	1	05/01/2017 04:07	WG975302
(S) a,a,a-Trifluorotoluene(FID) 99.8				77.0-122		05/01/2017 04:07	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 08:05	WG975620
Benzene	0.0205		0.000331	0.00100	1	05/02/2017 08:05	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 08:05	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 08:05	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 08:05	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 08:05	WG975620



Collected date/time: 04/26/17 15:35

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 08:05	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 08:05	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 08:05	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 08:05	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 08:05	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 08:05	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 08:05	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 08:05	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 08:05	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 08:05	WG975620
1,2-Dichloroethane	0.000698	L	0.000361	0.00100	1	05/02/2017 08:05	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 08:05	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 08:05	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 08:05	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 08:05	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 08:05	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 08:05	WG975620
Ethylbenzene	0.000432	L	0.000384	0.00100	1	05/02/2017 08:05	WG975620
Isopropylbenzene	0.00163		0.000326	0.00100	1	05/02/2017 08:05	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 08:05	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 08:05	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 08:05	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 08:05	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 08:05	WG975620
Methyl tert-butyl ether	0.955		0.00918	0.0250	25	05/05/2017 18:02	WG975620
Naphthalene	0.00310	L	0.00100	0.00500	1	05/02/2017 08:05	WG975620
n-Propylbenzene	0.000769	L	0.000349	0.00100	1	05/02/2017 08:05	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 08:05	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 08:05	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 08:05	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 08:05	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 08:05	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 08:05	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 08:05	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 08:05	WG975620
1,2,4-Trimethylbenzene	0.00219		0.000373	0.00100	1	05/02/2017 08:05	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 08:05	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 08:05	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 08:05	WG975620
m&p-Xylene	0.00237		0.000719	0.00200	1	05/02/2017 08:05	WG975620
Xylenes, Total	0.00237	L	0.00106	0.00300	1	05/02/2017 08:05	WG975620
(S) Toluene-d8	104			80.0-120		05/02/2017 08:05	WG975620
(S) Toluene-d8	105			80.0-120		05/05/2017 18:02	WG975620
(S) Dibromofluoromethane	99.5			76.0-123		05/02/2017 08:05	WG975620
(S) Dibromofluoromethane	105			76.0-123		05/05/2017 18:02	WG975620
(S) 4-Bromofluorobenzene	96.9			80.0-120		05/05/2017 18:02	WG975620
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 08:05	WG975620

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.08		0.0247	0.100	1	05/05/2017 21:50	WG975550
(S) o-Terphenyl	68.4			31.0-160		05/05/2017 21:50	WG975550



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1630		2.82	10.0	1	05/02/2017 15:55	WG975505

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.556	J	0.197	1.00	10	05/05/2017 10:39	WG975895

Sample Narrative:

353.2 L905668-15 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	260		1.04	20.0	20	05/02/2017 17:50	WG975537
Fluoride	0.965		0.00990	0.100	1	05/02/2017 17:02	WG975537
Sulfate	211		1.55	100	20	05/02/2017 17:50	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00406		0.000250	0.00200	1	05/04/2017 23:34	WG975076
Arsenic,Dissolved	0.00449		0.000250	0.00200	1	05/03/2017 02:34	WG975067
Barium	0.152		0.000360	0.00500	1	05/04/2017 23:34	WG975076
Barium,Dissolved	0.140		0.000360	0.00500	1	05/03/2017 02:34	WG975067
Calcium	227		0.0460	1.00	1	05/04/2017 23:34	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:34	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:34	WG975067
Iron	0.152		0.0150	0.100	1	05/04/2017 23:34	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:34	WG975067
Lead	0.000533	J	0.000240	0.00200	1	05/04/2017 23:34	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:34	WG975067
Manganese	1.91		0.000250	0.00500	1	05/04/2017 23:34	WG975076
Manganese,Dissolved	1.98		0.000250	0.00500	1	05/03/2017 02:34	WG975067
Potassium	0.183	J	0.0370	1.00	1	05/04/2017 23:34	WG975076
Selenium	U		0.000380	0.00200	1	05/04/2017 23:34	WG975076
Selenium,Dissolved	0.000450	J	0.000380	0.00200	1	05/03/2017 02:34	WG975067
Sodium	120		0.110	1.00	1	05/04/2017 23:34	WG975076

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0500	0.250	5	05/02/2017 08:26	WG975620
Benzene	4.67		0.0166	0.0500	50	05/08/2017 16:18	WG975620
Bromodichloromethane	U		0.00190	0.00500	5	05/02/2017 08:26	WG975620
Bromoform	U		0.00234	0.00500	5	05/02/2017 08:26	WG975620
Bromomethane	U		0.00433	0.0250	5	05/02/2017 08:26	WG975620
n-Butylbenzene	0.00434	J	0.00180	0.00500	5	05/02/2017 08:26	WG975620
sec-Butylbenzene	0.00695		0.00182	0.00500	5	05/02/2017 08:26	WG975620
Carbon disulfide	U		0.00138	0.00500	5	05/02/2017 08:26	WG975620
Carbon tetrachloride	U		0.00190	0.00500	5	05/02/2017 08:26	WG975620
Chlorobenzene	U		0.00174	0.00500	5	05/02/2017 08:26	WG975620
Chlorodibromomethane	U		0.00164	0.00500	5	05/02/2017 08:26	WG975620
Chloroethane	U		0.00226	0.0250	5	05/02/2017 08:26	WG975620
Chloroform	U		0.00162	0.0250	5	05/02/2017 08:26	WG975620



Collected date/time: 04/26/17 14:35

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.00138	0.0125	5	05/02/2017 08:26	WG975620
1,2-Dibromoethane	U		0.00190	0.00500	5	05/02/2017 08:26	WG975620
1,1-Dichloroethane	U		0.00130	0.00500	5	05/02/2017 08:26	WG975620
1,2-Dichloroethane	0.00451	J	0.00180	0.00500	5	05/02/2017 08:26	WG975620
1,1-Dichloroethene	U		0.00199	0.00500	5	05/02/2017 08:26	WG975620
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	05/02/2017 08:26	WG975620
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	05/02/2017 08:26	WG975620
1,2-Dichloropropane	U		0.00153	0.00500	5	05/02/2017 08:26	WG975620
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	05/02/2017 08:26	WG975620
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	05/02/2017 08:26	WG975620
Ethylbenzene	0.346		0.00192	0.00500	5	05/02/2017 08:26	WG975620
Isopropylbenzene	0.0344		0.00163	0.00500	5	05/02/2017 08:26	WG975620
p-Isopropyltoluene	0.00450	J	0.00175	0.00500	5	05/02/2017 08:26	WG975620
2-Butanone (MEK)	U		0.0196	0.0500	5	05/02/2017 08:26	WG975620
2-Hexanone	U		0.0191	0.0500	5	05/02/2017 08:26	WG975620
Methylene Chloride	U		0.00500	0.0250	5	05/02/2017 08:26	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	05/02/2017 08:26	WG975620
Methyl tert-butyl ether	0.154		0.00184	0.00500	5	05/02/2017 08:26	WG975620
Naphthalene	0.0563		0.00500	0.0250	5	05/02/2017 08:26	WG975620
n-Propylbenzene	0.0737		0.00174	0.00500	5	05/02/2017 08:26	WG975620
Styrene	U		0.00154	0.00500	5	05/02/2017 08:26	WG975620
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	05/02/2017 08:26	WG975620
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	05/02/2017 08:26	WG975620
Tetrachloroethene	U		0.00186	0.00500	5	05/02/2017 08:26	WG975620
Toluene	0.0205		0.00206	0.00500	5	05/02/2017 08:26	WG975620
1,1,1-Trichloroethane	U		0.00160	0.00500	5	05/02/2017 08:26	WG975620
1,1,2-Trichloroethane	U		0.00192	0.00500	5	05/02/2017 08:26	WG975620
Trichloroethene	U		0.00199	0.00500	5	05/02/2017 08:26	WG975620
1,2,4-Trimethylbenzene	0.399		0.00186	0.00500	5	05/02/2017 08:26	WG975620
1,3,5-Trimethylbenzene	0.0517		0.00194	0.00500	5	05/02/2017 08:26	WG975620
Vinyl chloride	U		0.00130	0.00500	5	05/02/2017 08:26	WG975620
o-Xylene	0.0179		0.00170	0.00500	5	05/02/2017 08:26	WG975620
m&p-Xylene	0.373		0.00360	0.0100	5	05/02/2017 08:26	WG975620
Xylenes, Total	0.391		0.00530	0.0150	5	05/02/2017 08:26	WG975620
(S) Toluene-d8	101			80.0-120		05/08/2017 16:18	WG975620
(S) Toluene-d8	103			80.0-120		05/02/2017 08:26	WG975620
(S) Dibromofluoromethane	101			76.0-123		05/08/2017 16:18	WG975620
(S) Dibromofluoromethane	119			76.0-123		05/02/2017 08:26	WG975620
(S) 4-Bromofluorobenzene	92.1			80.0-120		05/08/2017 16:18	WG975620
(S) 4-Bromofluorobenzene	107			80.0-120		05/02/2017 08:26	WG975620

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.04		0.0247	0.100	1	05/05/2017 22:08	WG975550
(S) o-Terphenyl	71.6			31.0-160		05/05/2017 22:08	WG975550



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4530		2.82	10.0	1	05/02/2017 15:55	WG975505

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	13.8		0.197	1.00	10	05/05/2017 10:41	WG975895

Sample Narrative:

353.2 L905668-16 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	336		5.19	100	100	05/02/2017 18:52	WG975537
Fluoride	2.38		0.00990	0.100	1	05/02/2017 18:36	WG975537
Sulfate	2630		7.74	500	100	05/02/2017 18:52	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00502		0.000250	0.00200	1	05/04/2017 23:48	WG975076
Arsenic,Dissolved	0.00348		0.000250	0.00200	1	05/03/2017 02:38	WG975067
Barium	0.0202		0.000360	0.00500	1	05/04/2017 23:48	WG975076
Barium,Dissolved	0.0154		0.000360	0.00500	1	05/03/2017 02:38	WG975067
Calcium	538		0.0460	1.00	1	05/04/2017 23:48	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:48	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:38	WG975067
Iron	0.353		0.0150	0.100	1	05/04/2017 23:48	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:38	WG975067
Lead	0.000515	J	0.000240	0.00200	1	05/04/2017 23:48	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:38	WG975067
Manganese	0.278		0.000250	0.00500	1	05/04/2017 23:48	WG975076
Manganese,Dissolved	0.283		0.000250	0.00500	1	05/03/2017 02:38	WG975067
Potassium	1.62		0.0370	1.00	1	05/04/2017 23:48	WG975076
Selenium	0.0231		0.000380	0.00200	1	05/04/2017 23:48	WG975076
Selenium,Dissolved	0.0231		0.000380	0.00200	1	05/03/2017 02:38	WG975067
Sodium	342		0.110	1.00	1	05/04/2017 23:48	WG975076

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 04:31	WG975302
(S) a,a,a-Trifluorotoluene(FID) 101				77.0-122		05/01/2017 04:31	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 08:48	WG975620
Benzene	U		0.000331	0.00100	1	05/05/2017 17:36	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 08:48	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 08:48	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 08:48	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 08:48	WG975620



Collected date/time: 04/26/17 13:45

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 08:48	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 08:48	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 08:48	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 08:48	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 08:48	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 08:48	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 08:48	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 08:48	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 08:48	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 08:48	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 08:48	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 08:48	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 08:48	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 08:48	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 08:48	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 08:48	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 08:48	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 08:48	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 08:48	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 08:48	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 08:48	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 08:48	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 08:48	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 08:48	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 08:48	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 08:48	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 08:48	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 08:48	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 08:48	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 08:48	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 08:48	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 08:48	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 08:48	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 08:48	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 08:48	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 08:48	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 08:48	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 08:48	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 08:48	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 08:48	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 08:48	WG975620
(S) Toluene-d8	104			80.0-120		05/02/2017 08:48	WG975620
(S) Toluene-d8	104			80.0-120		05/05/2017 17:36	WG975620
(S) Dibromofluoromethane	102			76.0-123		05/02/2017 08:48	WG975620
(S) Dibromofluoromethane	104			76.0-123		05/05/2017 17:36	WG975620
(S) 4-Bromofluorobenzene	96.7			80.0-120		05/05/2017 17:36	WG975620
(S) 4-Bromofluorobenzene	102			80.0-120		05/02/2017 08:48	WG975620

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.195		0.0247	0.100	1	05/09/2017 14:13	WG977596
(S) o-Terphenyl	62.5			31.0-160		05/09/2017 14:13	WG977596



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4260		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	7.12		0.197	1.00	10	05/05/2017 10:42	WG975895

Sample Narrative:

353.2 L905668-17 WG975895: dilution due to sample matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 10:58	WG975005

Wet Chemistry by Method 9056A

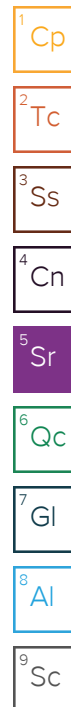
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	136		2.60	50.0	50	05/02/2017 19:23	WG975537
Fluoride	0.446		0.00990	0.100	1	05/02/2017 19:07	WG975537
Sulfate	2280		3.87	250	50	05/02/2017 19:23	WG975537

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 15:31	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:37	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00149	<u>J</u>	0.000250	0.00200	1	05/04/2017 22:22	WG975076
Arsenic,Dissolved	0.00145	<u>J</u>	0.000250	0.00200	1	05/03/2017 01:34	WG975067
Barium	0.0157		0.000360	0.00500	1	05/04/2017 22:22	WG975076
Barium,Dissolved	0.0155		0.000360	0.00500	1	05/03/2017 01:34	WG975067
Boron	0.492		0.00150	0.0200	1	05/05/2017 08:39	WG975076
Boron,Dissolved	0.560		0.00150	0.0200	1	05/03/2017 21:31	WG975067
Cadmium	U		0.000160	0.00100	1	05/04/2017 22:22	WG975076
Cadmium,Dissolved	U		0.000160	0.00100	1	05/03/2017 01:34	WG975067
Calcium	541		0.0460	1.00	1	05/04/2017 22:22	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 22:22	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:34	WG975067
Cobalt	U		0.000260	0.00200	1	05/04/2017 22:22	WG975076
Cobalt,Dissolved	U		0.000260	0.00200	1	05/03/2017 01:34	WG975067
Iron	U		0.0150	0.100	1	05/04/2017 22:22	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:34	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 22:22	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 01:34	WG975067
Manganese	0.00213	<u>J</u>	0.000250	0.00500	1	05/04/2017 22:22	WG975076
Manganese,Dissolved	0.00171	<u>B J</u>	0.000250	0.00500	1	05/03/2017 01:34	WG975067
Nickel	U		0.000350	0.00200	1	05/04/2017 22:22	WG975076
Nickel,Dissolved	0.000403	<u>B J</u>	0.000350	0.00200	1	05/03/2017 01:34	WG975067
Potassium	0.786	<u>J</u>	0.0370	1.00	1	05/04/2017 22:22	WG975076





Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	0.00372	B	0.000380	0.00200	1	05/04/2017 22:22	WG975076
Selenium,Dissolved	0.00361		0.000380	0.00200	1	05/03/2017 01:34	WG975067
Sodium	131		0.110	1.00	1	05/04/2017 22:22	WG975076
Uranium	0.0260		0.000330	0.0100	1	05/04/2017 22:22	WG975076
Uranium,Dissolved	0.0290		0.000330	0.0100	1	05/03/2017 01:34	WG975067
Vanadium	0.0112		0.000180	0.00500	1	05/04/2017 22:22	WG975076
Vanadium,Dissolved	0.0121		0.000180	0.00500	1	05/03/2017 01:34	WG975067

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 04:56	WG975302
(S) a,a,a-Trifluorotoluene(FID) 100				77.0-122		05/01/2017 04:56	WG975302

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 09:09	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 09:09	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:09	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:09	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:09	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:09	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:09	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:09	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:09	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:09	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:09	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:09	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:09	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:09	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:09	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:09	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:09	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:09	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:09	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:09	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:09	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:09	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:09	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:09	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:09	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:09	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:09	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:09	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:09	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:09	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:09	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:09	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:09	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 09:09	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:09	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:09	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:09	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 09:09	WG975620



Collected date/time: 04/26/17 12:10

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:09	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:09	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:09	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:09	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:09	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:09	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:09	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:09	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:09	WG975620
(S) Toluene-d8	103			80.0-120		05/02/2017 09:09	WG975620
(S) Dibromofluoromethane	103			76.0-123		05/02/2017 09:09	WG975620
(S) 4-Bromofluorobenzene	98.2			80.0-120		05/02/2017 09:09	WG975620

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0359	J	0.0247	0.100	1	05/09/2017 14:31	WG977596
(S) o-Terphenyl	61.7			31.0-160		05/09/2017 14:31	WG977596



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3880		2.82	10.0	1	05/02/2017 15:55	WG975505

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	6.87		0.197	1.00	10	05/03/2017 15:29	WG975896

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 10:59	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	144		2.60	50.0	50	05/02/2017 19:53	WG975537
Fluoride	0.419		0.00990	0.100	1	05/02/2017 19:38	WG975537
Sulfate	2410		3.87	250	50	05/02/2017 19:53	WG975537

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 15:59	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:39	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00157	J	0.000250	0.00200	1	05/04/2017 22:25	WG975076
Arsenic,Dissolved	0.00158	J	0.000250	0.00200	1	05/03/2017 01:38	WG975067
Barium	0.00901		0.000360	0.00500	1	05/04/2017 22:25	WG975076
Barium,Dissolved	0.0101		0.000360	0.00500	1	05/03/2017 01:38	WG975067
Boron	0.525		0.00150	0.0200	1	05/05/2017 08:42	WG975076
Boron,Dissolved	0.603		0.00150	0.0200	1	05/03/2017 21:34	WG975067
Cadmium	U		0.000160	0.00100	1	05/04/2017 22:25	WG975076
Cadmium,Dissolved	U		0.000160	0.00100	1	05/03/2017 01:38	WG975067
Calcium	554		0.0460	1.00	1	05/04/2017 22:25	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 22:25	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:38	WG975067
Cobalt	U		0.000260	0.00200	1	05/04/2017 22:25	WG975076
Cobalt,Dissolved	U		0.000260	0.00200	1	05/03/2017 01:38	WG975067
Iron	U		0.0150	0.100	1	05/04/2017 22:25	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:38	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 22:25	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 01:38	WG975067
Manganese	0.00232	J	0.000250	0.00500	1	05/04/2017 22:25	WG975076
Manganese,Dissolved	0.000491	B J	0.000250	0.00500	1	05/03/2017 01:38	WG975067
Nickel	U		0.000350	0.00200	1	05/04/2017 22:25	WG975076
Nickel,Dissolved	0.000610	B J	0.000350	0.00200	1	05/03/2017 01:38	WG975067
Potassium	0.641	J	0.0370	1.00	1	05/04/2017 22:25	WG975076
Selenium	0.00382	B	0.000380	0.00200	1	05/04/2017 22:25	WG975076
Selenium,Dissolved	0.00354		0.000380	0.00200	1	05/03/2017 01:38	WG975067
Sodium	135		0.110	1.00	1	05/04/2017 22:25	WG975076



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0273		0.000330	0.0100	1	05/04/2017 22:25	WG975076
Uranium,Dissolved	0.0307		0.000330	0.0100	1	05/03/2017 01:38	WG975067
Vanadium	0.0122		0.000180	0.00500	1	05/04/2017 22:25	WG975076
Vanadium,Dissolved	0.0120		0.000180	0.00500	1	05/03/2017 01:38	WG975067

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 19:57	WG975303
(S) a,a,a-Trifluorotoluene(FID) 101				77.0-122		04/30/2017 19:57	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 09:30	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 09:30	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:30	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:30	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:30	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:30	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:30	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:30	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:30	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:30	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:30	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:30	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:30	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:30	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:30	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:30	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:30	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:30	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:30	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:30	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:30	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:30	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:30	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:30	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:30	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:30	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:30	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:30	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:30	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:30	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:30	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:30	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:30	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 09:30	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:30	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:30	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:30	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 09:30	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:30	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:30	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:30	WG975620

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:30	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:30	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:30	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:30	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:30	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:30	WG975620
(S) Toluene-d8	102			80.0-120		05/02/2017 09:30	WG975620
(S) Dibromofluoromethane	105			76.0-123		05/02/2017 09:30	WG975620
(S) 4-Bromofluorobenzene	101			80.0-120		05/02/2017 09:30	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/05/2017 23:00	WG975550
(S) o-Terphenyl	62.0			31.0-160		05/05/2017 23:00	WG975550

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3600		2.82	10.0	1	05/02/2017 15:55	WG975505

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	16.1		0.197	1.00	10	05/03/2017 15:30	WG975896

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 11:02	WG975005

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	180		5.19	100	100	05/02/2017 21:10	WG975537
Fluoride	0.803		0.00990	0.100	1	05/02/2017 20:55	WG975537
Sulfate	2390		7.74	500	100	05/02/2017 21:10	WG975537

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 16:01	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:41	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00286		0.000250	0.00200	1	05/04/2017 22:29	WG975076
Arsenic,Dissolved	0.00251		0.000250	0.00200	1	05/03/2017 01:41	WG975067
Barium	0.0229		0.000360	0.00500	1	05/04/2017 22:29	WG975076
Barium,Dissolved	0.0181		0.000360	0.00500	1	05/03/2017 01:41	WG975067
Boron	0.294		0.00150	0.0200	1	05/05/2017 08:46	WG975076
Boron,Dissolved	0.348		0.00150	0.0200	1	05/03/2017 21:38	WG975067
Cadmium	U		0.000160	0.00100	1	05/04/2017 22:29	WG975076
Cadmium,Dissolved	0.000738	J	0.000160	0.00100	1	05/03/2017 01:41	WG975067
Calcium	526		0.0460	1.00	1	05/04/2017 22:29	WG975076
Chromium	0.00148	J	0.000540	0.00200	1	05/04/2017 22:29	WG975076
Chromium,Dissolved	0.000961	J	0.000540	0.00200	1	05/03/2017 01:41	WG975067
Cobalt	0.000487	J	0.000260	0.00200	1	05/04/2017 22:29	WG975076
Cobalt,Dissolved	U		0.000260	0.00200	1	05/03/2017 01:41	WG975067
Iron	1.02		0.0150	0.100	1	05/04/2017 22:29	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:41	WG975067
Lead	0.00107	J	0.000240	0.00200	1	05/04/2017 22:29	WG975076
Lead,Dissolved	0.000617	J	0.000240	0.00200	1	05/03/2017 01:41	WG975067
Manganese	0.0234		0.000250	0.00500	1	05/04/2017 22:29	WG975076
Manganese,Dissolved	0.000700	B J	0.000250	0.00500	1	05/03/2017 01:41	WG975067
Nickel	0.00119	J	0.000350	0.00200	1	05/04/2017 22:29	WG975076
Nickel,Dissolved	0.00154	B J	0.000350	0.00200	1	05/03/2017 01:41	WG975067
Potassium	1.18		0.0370	1.00	1	05/04/2017 22:29	WG975076
Selenium	0.0130		0.000380	0.00200	1	05/04/2017 22:29	WG975076
Selenium,Dissolved	0.0126		0.000380	0.00200	1	05/03/2017 01:41	WG975067
Sodium	200		0.110	1.00	1	05/04/2017 22:29	WG975076



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0227		0.000330	0.0100	1	05/04/2017 22:29	WG975076
Uranium,Dissolved	0.0254		0.000330	0.0100	1	05/03/2017 01:41	WG975067
Vanadium	0.0213		0.000180	0.00500	1	05/04/2017 22:29	WG975076
Vanadium,Dissolved	0.0197		0.000180	0.00500	1	05/03/2017 01:41	WG975067

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 09:51	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 09:51	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:51	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:51	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:51	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:51	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:51	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:51	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:51	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:51	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:51	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:51	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:51	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:51	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:51	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:51	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:51	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:51	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:51	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:51	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:51	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:51	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:51	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:51	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:51	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:51	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:51	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:51	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:51	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:51	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:51	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:51	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:51	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 09:51	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:51	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:51	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:51	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 09:51	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:51	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:51	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:51	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:51	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:51	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:51	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:51	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:51	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:51	WG975620
(S) Toluene-d8	104			80.0-120		05/02/2017 09:51	WG975620

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Dibromofluoromethane	103			76.0-123		05/02/2017 09:51	WG975620
(S) 4-Bromofluorobenzene	101			80.0-120		05/02/2017 09:51	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0370	J	0.0247	0.100	1	05/09/2017 14:49	WG977596
(S) o-Terphenyl	59.7			31.0-160		05/09/2017 14:49	WG977596

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1550		2.82	10.0	1	05/02/2017 15:55	WG975505

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:31	WG975896

Sample Narrative:

353.2 L905668-20 WG975896: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	258		0.519	10.0	10	05/04/2017 14:17	WG976223
Fluoride	1.09		0.00990	0.100	1	05/04/2017 13:42	WG976223
Sulfate	11.3		0.0774	5.00	1	05/04/2017 13:42	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0123		0.000250	0.00200	1	05/04/2017 23:51	WG975076
Arsenic,Dissolved	0.0130		0.000250	0.00200	1	05/03/2017 02:41	WG975067
Barium	5.06		0.000360	0.00500	1	05/04/2017 23:51	WG975076
Barium,Dissolved	5.01		0.000360	0.00500	1	05/03/2017 02:41	WG975067
Calcium	120		0.0460	1.00	1	05/04/2017 23:51	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:51	WG975076
Chromium,Dissolved	0.000792	J	0.000540	0.00200	1	05/03/2017 02:41	WG975067
Iron	0.201		0.0150	0.100	1	05/04/2017 23:51	WG975076
Iron,Dissolved	0.0205	J	0.0150	0.100	1	05/03/2017 02:41	WG975067
Lead	0.00242		0.000240	0.00200	1	05/04/2017 23:51	WG975076
Lead,Dissolved	0.00177	J	0.000240	0.00200	1	05/03/2017 02:41	WG975067
Manganese	0.0231		0.000250	0.00500	1	05/04/2017 23:51	WG975076
Manganese,Dissolved	0.0252		0.000250	0.00500	1	05/03/2017 02:41	WG975067
Potassium	0.504	J	0.0370	1.00	1	05/04/2017 23:51	WG975076
Selenium	0.000673	B J	0.000380	0.00200	1	05/04/2017 23:51	WG975076
Selenium,Dissolved	0.000638	J	0.000380	0.00200	1	05/03/2017 02:41	WG975067
Sodium	379		0.110	1.00	1	05/04/2017 23:51	WG975076

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	26.4		0.785	2.50	25	04/30/2017 20:20	WG975303
(S) a,a,a-Trifluorotoluene(FID) 98.0				77.0-122		04/30/2017 20:20	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.200	1.00	20	05/02/2017 10:12	WG975620
Benzene	8.38		0.0662	0.200	200	05/05/2017 19:05	WG975620
Bromodichloromethane	U		0.00760	0.0200	20	05/02/2017 10:12	WG975620
Bromoform	U		0.00938	0.0200	20	05/02/2017 10:12	WG975620
Bromomethane	U		0.0173	0.100	20	05/02/2017 10:12	WG975620
n-Butylbenzene	0.0125	J	0.00722	0.0200	20	05/02/2017 10:12	WG975620



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.0152	J	0.00730	0.0200	20	05/02/2017 10:12	WG975620
Carbon disulfide	U		0.00550	0.0200	20	05/02/2017 10:12	WG975620
Carbon tetrachloride	U		0.00758	0.0200	20	05/02/2017 10:12	WG975620
Chlorobenzene	U		0.00696	0.0200	20	05/02/2017 10:12	WG975620
Chlorodibromomethane	U		0.00654	0.0200	20	05/02/2017 10:12	WG975620
Chloroethane	U		0.00906	0.100	20	05/02/2017 10:12	WG975620
Chloroform	U		0.00648	0.100	20	05/02/2017 10:12	WG975620
Chloromethane	U		0.00552	0.0500	20	05/02/2017 10:12	WG975620
1,2-Dibromoethane	U		0.00762	0.0200	20	05/02/2017 10:12	WG975620
1,1-Dichloroethane	U		0.00518	0.0200	20	05/02/2017 10:12	WG975620
1,2-Dichloroethane	U		0.00722	0.0200	20	05/02/2017 10:12	WG975620
1,1-Dichloroethene	U		0.00796	0.0200	20	05/02/2017 10:12	WG975620
cis-1,2-Dichloroethene	U		0.00520	0.0200	20	05/02/2017 10:12	WG975620
trans-1,2-Dichloroethene	U		0.00792	0.0200	20	05/02/2017 10:12	WG975620
1,2-Dichloropropane	U		0.00612	0.0200	20	05/02/2017 10:12	WG975620
cis-1,3-Dichloropropene	U		0.00836	0.0200	20	05/02/2017 10:12	WG975620
trans-1,3-Dichloropropene	U		0.00838	0.0200	20	05/02/2017 10:12	WG975620
Ethylbenzene	0.726		0.00768	0.0200	20	05/02/2017 10:12	WG975620
Isopropylbenzene	0.0401		0.00652	0.0200	20	05/02/2017 10:12	WG975620
p-Isopropyltoluene	U		0.00700	0.0200	20	05/02/2017 10:12	WG975620
2-Butanone (MEK)	U		0.0786	0.200	20	05/02/2017 10:12	WG975620
2-Hexanone	U		0.0764	0.200	20	05/02/2017 10:12	WG975620
Methylene Chloride	U		0.0200	0.100	20	05/02/2017 10:12	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.0428	0.200	20	05/02/2017 10:12	WG975620
Methyl tert-butyl ether	1.87		0.00734	0.0200	20	05/02/2017 10:12	WG975620
Naphthalene	0.200		0.0200	0.100	20	05/02/2017 10:12	WG975620
n-Propylbenzene	0.0725		0.00698	0.0200	20	05/02/2017 10:12	WG975620
Styrene	U		0.00614	0.0200	20	05/02/2017 10:12	WG975620
1,1,1,2-Tetrachloroethane	U		0.00770	0.0200	20	05/02/2017 10:12	WG975620
1,1,2,2-Tetrachloroethane	U		0.00260	0.0200	20	05/02/2017 10:12	WG975620
Tetrachloroethene	U		0.00744	0.0200	20	05/02/2017 10:12	WG975620
Toluene	0.243		0.00824	0.0200	20	05/02/2017 10:12	WG975620
1,1,1-Trichloroethane	U		0.00638	0.0200	20	05/02/2017 10:12	WG975620
1,1,2-Trichloroethane	U		0.00766	0.0200	20	05/02/2017 10:12	WG975620
Trichloroethene	U		0.00796	0.0200	20	05/02/2017 10:12	WG975620
1,2,4-Trimethylbenzene	0.291		0.00746	0.0200	20	05/02/2017 10:12	WG975620
1,3,5-Trimethylbenzene	0.0282		0.00774	0.0200	20	05/02/2017 10:12	WG975620
Vinyl chloride	U		0.00518	0.0200	20	05/02/2017 10:12	WG975620
o-Xylene	0.0189	J	0.00682	0.0200	20	05/02/2017 10:12	WG975620
m&p-Xylene	0.372		0.0144	0.0400	20	05/02/2017 10:12	WG975620
Xylenes, Total	0.391		0.0212	0.0600	20	05/02/2017 10:12	WG975620
(S) Toluene-d8	103			80.0-120		05/02/2017 10:12	WG975620
(S) Toluene-d8	105			80.0-120		05/05/2017 19:05	WG975620
(S) Dibromofluoromethane	101			76.0-123		05/05/2017 19:05	WG975620
(S) Dibromofluoromethane	111			76.0-123		05/02/2017 10:12	WG975620
(S) 4-Bromofluorobenzene	98.6			80.0-120		05/05/2017 19:05	WG975620
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 10:12	WG975620

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.9		0.124	0.500	5	05/08/2017 16:14	WG975550
(S) o-Terphenyl	67.5			31.0-160		05/08/2017 16:14	WG975550



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1510		2.82	10.0	1	05/02/2017 15:55	WG975505

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:32	WG975896

Sample Narrative:

353.2 L905668-21 WG975896: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	280		5.19	100	100	05/02/2017 22:12	WG975537
Fluoride	0.977		0.00990	0.100	1	05/02/2017 21:57	WG975537
Sulfate	318		0.387	25.0	5	05/04/2017 14:35	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00340		0.000250	0.00200	1	05/04/2017 23:55	WG975076
Arsenic,Dissolved	0.00381		0.000250	0.00200	1	05/03/2017 01:13	WG975067
Barium	0.0732		0.000360	0.00500	1	05/04/2017 23:55	WG975076
Barium,Dissolved	0.0709		0.000360	0.00500	1	05/03/2017 01:13	WG975067
Calcium	151		0.0460	1.00	1	05/04/2017 23:55	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:55	WG975076
Chromium,Dissolved	0.000690	J	0.000540	0.00200	1	05/03/2017 01:13	WG975067
Iron	0.192		0.0150	0.100	1	05/04/2017 23:55	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:13	WG975067
Lead	0.000419	J	0.000240	0.00200	1	05/04/2017 23:55	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 01:13	WG975067
Manganese	0.0261		0.000250	0.00500	1	05/04/2017 23:55	WG975076
Manganese,Dissolved	0.0245	O1	0.000250	0.00500	1	05/03/2017 01:13	WG975067
Potassium	1.50		0.0370	1.00	1	05/04/2017 23:55	WG975076
Selenium	U		0.000380	0.00200	1	05/04/2017 23:55	WG975076
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 01:13	WG975067
Sodium	177		0.110	1.00	1	05/04/2017 23:55	WG975076

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	0.0509	J	0.0500	0.250	5	05/01/2017 18:58	WG975624
Benzene	0.0294		0.00166	0.00500	5	05/01/2017 18:58	WG975624
Bromodichloromethane	U		0.00190	0.00500	5	05/01/2017 18:58	WG975624
Bromoform	U		0.00234	0.00500	5	05/01/2017 18:58	WG975624
Bromomethane	U	J4	0.00433	0.0250	5	05/01/2017 18:58	WG975624
n-Butylbenzene	U		0.00180	0.00500	5	05/01/2017 18:58	WG975624
sec-Butylbenzene	0.00213	J	0.00182	0.00500	5	05/01/2017 18:58	WG975624
Carbon disulfide	0.00239	J	0.00138	0.00500	5	05/01/2017 18:58	WG975624
Carbon tetrachloride	U		0.00190	0.00500	5	05/01/2017 18:58	WG975624
Chlorobenzene	U		0.00174	0.00500	5	05/01/2017 18:58	WG975624
Chlorodibromomethane	U		0.00164	0.00500	5	05/01/2017 18:58	WG975624
Chloroethane	U		0.00226	0.0250	5	05/01/2017 18:58	WG975624
Chloroform	U		0.00162	0.0250	5	05/01/2017 18:58	WG975624



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.00138	0.0125	5	05/01/2017 18:58	WG975624
1,2-Dibromoethane	U		0.00190	0.00500	5	05/01/2017 18:58	WG975624
1,1-Dichloroethane	U		0.00130	0.00500	5	05/01/2017 18:58	WG975624
1,2-Dichloroethane	U		0.00180	0.00500	5	05/01/2017 18:58	WG975624
1,1-Dichloroethene	U		0.00199	0.00500	5	05/01/2017 18:58	WG975624
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	05/01/2017 18:58	WG975624
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	05/01/2017 18:58	WG975624
1,2-Dichloropropane	U		0.00153	0.00500	5	05/01/2017 18:58	WG975624
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	05/01/2017 18:58	WG975624
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	05/01/2017 18:58	WG975624
Ethylbenzene	U		0.00192	0.00500	5	05/01/2017 18:58	WG975624
Isopropylbenzene	0.00716		0.00163	0.00500	5	05/01/2017 18:58	WG975624
p-Isopropyltoluene	U		0.00175	0.00500	5	05/01/2017 18:58	WG975624
2-Butanone (MEK)	U		0.0196	0.0500	5	05/01/2017 18:58	WG975624
2-Hexanone	U		0.0191	0.0500	5	05/01/2017 18:58	WG975624
Methylene Chloride	U		0.00500	0.0250	5	05/01/2017 18:58	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	05/01/2017 18:58	WG975624
Methyl tert-butyl ether	0.132		0.00184	0.00500	5	05/01/2017 18:58	WG975624
Naphthalene	U		0.00500	0.0250	5	05/01/2017 18:58	WG975624
n-Propylbenzene	0.00532		0.00174	0.00500	5	05/01/2017 18:58	WG975624
Styrene	U		0.00154	0.00500	5	05/01/2017 18:58	WG975624
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	05/01/2017 18:58	WG975624
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	05/01/2017 18:58	WG975624
Tetrachloroethene	U		0.00186	0.00500	5	05/01/2017 18:58	WG975624
Toluene	U		0.00206	0.00500	5	05/01/2017 18:58	WG975624
1,1,1-Trichloroethane	U		0.00160	0.00500	5	05/01/2017 18:58	WG975624
1,1,2-Trichloroethane	U		0.00192	0.00500	5	05/01/2017 18:58	WG975624
Trichloroethene	U		0.00199	0.00500	5	05/01/2017 18:58	WG975624
1,2,4-Trimethylbenzene	U		0.00186	0.00500	5	05/01/2017 18:58	WG975624
1,3,5-Trimethylbenzene	U		0.00194	0.00500	5	05/01/2017 18:58	WG975624
Vinyl chloride	U		0.00130	0.00500	5	05/01/2017 18:58	WG975624
o-Xylene	U		0.00170	0.00500	5	05/01/2017 18:58	WG975624
m&p-Xylene	U		0.00360	0.0100	5	05/01/2017 18:58	WG975624
Xylenes, Total	U		0.00530	0.0150	5	05/01/2017 18:58	WG975624
(S) Toluene-d8	107			80.0-120		05/01/2017 18:58	WG975624
(S) Dibromofluoromethane	108			76.0-123		05/01/2017 18:58	WG975624
(S) 4-Bromofluorobenzene	94.6			80.0-120		05/01/2017 18:58	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.35		0.0247	0.100	1	05/05/2017 23:52	WG975550
(S) o-Terphenyl	68.3			31.0-160		05/05/2017 23:52	WG975550



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1370		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:33	WG975896

Sample Narrative:

353.2 L905668-22 WG975896: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	284		5.19	100	100	05/02/2017 22:43	WG975537
Fluoride	0.758		0.00990	0.100	1	05/02/2017 22:27	WG975537
Sulfate	169		0.387	25.0	5	05/04/2017 14:52	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00772		0.000250	0.00200	1	05/02/2017 03:03	WG975077
Arsenic,Dissolved	0.00811		0.000250	0.00200	1	05/03/2017 02:45	WG975067
Barium	0.297		0.000360	0.00500	1	05/02/2017 03:03	WG975077
Barium,Dissolved	0.339		0.000360	0.00500	1	05/03/2017 02:45	WG975067
Calcium	161		0.0460	1.00	1	05/02/2017 03:03	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:03	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:45	WG975067
Iron	0.204		0.0150	0.100	1	05/02/2017 03:03	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:45	WG975067
Lead	0.00116	J	0.000240	0.00200	1	05/02/2017 03:03	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:45	WG975067
Manganese	0.243		0.000250	0.00500	1	05/02/2017 03:03	WG975077
Manganese,Dissolved	0.262		0.000250	0.00500	1	05/03/2017 02:45	WG975067
Potassium	0.819	J	0.0370	1.00	1	05/02/2017 03:03	WG975077
Selenium	0.0857		0.000380	0.00200	1	05/02/2017 03:03	WG975077
Selenium,Dissolved	0.000416	J	0.000380	0.00200	1	05/03/2017 02:45	WG975067
Sodium	205		0.110	1.00	1	05/02/2017 03:03	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	14.4		0.157	0.500	5	05/07/2017 22:37	WG975303
(S) a,a,a-Trifluorotoluene(FID) 97.6				77.0-122		05/07/2017 22:37	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.500	2.50	50	05/01/2017 19:20	WG975624
Benzene	2.79		0.0166	0.0500	50	05/01/2017 19:20	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/01/2017 19:20	WG975624
Bromoform	U		0.0234	0.0500	50	05/01/2017 19:20	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/01/2017 19:20	WG975624
n-Butylbenzene	U		0.0180	0.0500	50	05/01/2017 19:20	WG975624



Collected date/time: 04/26/17 10:20

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.0182	0.0500	50	05/01/2017 19:20	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/01/2017 19:20	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/01/2017 19:20	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/01/2017 19:20	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/01/2017 19:20	WG975624
Chloroethane	U		0.0226	0.250	50	05/01/2017 19:20	WG975624
Chloroform	U		0.0162	0.250	50	05/01/2017 19:20	WG975624
Chloromethane	U		0.0138	0.125	50	05/01/2017 19:20	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/01/2017 19:20	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/01/2017 19:20	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/01/2017 19:20	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/01/2017 19:20	WG975624
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/01/2017 19:20	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/01/2017 19:20	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/01/2017 19:20	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/01/2017 19:20	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/01/2017 19:20	WG975624
Ethylbenzene	0.402		0.0192	0.0500	50	05/01/2017 19:20	WG975624
Isopropylbenzene	0.0477	L	0.0163	0.0500	50	05/01/2017 19:20	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/01/2017 19:20	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/01/2017 19:20	WG975624
2-Hexanone	U		0.191	0.500	50	05/01/2017 19:20	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/01/2017 19:20	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/01/2017 19:20	WG975624
Methyl tert-butyl ether	4.65		0.0184	0.0500	50	05/01/2017 19:20	WG975624
Naphthalene	U		0.0500	0.250	50	05/01/2017 19:20	WG975624
n-Propylbenzene	0.0667		0.0174	0.0500	50	05/01/2017 19:20	WG975624
Styrene	U		0.0154	0.0500	50	05/01/2017 19:20	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/01/2017 19:20	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/01/2017 19:20	WG975624
Tetrachloroethene	U		0.0186	0.0500	50	05/01/2017 19:20	WG975624
Toluene	0.0860		0.0206	0.0500	50	05/01/2017 19:20	WG975624
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/01/2017 19:20	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/01/2017 19:20	WG975624
Trichloroethene	U		0.0199	0.0500	50	05/01/2017 19:20	WG975624
1,2,4-Trimethylbenzene	0.252		0.0186	0.0500	50	05/01/2017 19:20	WG975624
1,3,5-Trimethylbenzene	0.0196	L	0.0194	0.0500	50	05/01/2017 19:20	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/01/2017 19:20	WG975624
o-Xylene	0.106		0.0170	0.0500	50	05/01/2017 19:20	WG975624
m&p-Xylene	0.416		0.0360	0.100	50	05/01/2017 19:20	WG975624
Xylenes, Total	0.522		0.0530	0.150	50	05/01/2017 19:20	WG975624
(S) Toluene-d8	105			80.0-120		05/01/2017 19:20	WG975624
(S) Dibromofluoromethane	107			76.0-123		05/01/2017 19:20	WG975624
(S) 4-Bromofluorobenzene	95.4			80.0-120		05/01/2017 19:20	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.06		0.0247	0.100	1	05/06/2017 00:10	WG975550
(S) o-Terphenyl	67.3			31.0-160		05/06/2017 00:10	WG975550



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	976		2.82	10.0	1	05/02/2017 16:19	WG975506

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0370	J P1	0.0197	0.100	1	05/03/2017 15:39	WG975896

6 Qc

7 Gl

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 11:03	WG975005

8 Al

9 Sc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	184		5.19	100	100	05/02/2017 23:45	WG975537
Fluoride	1.55		0.00990	0.100	1	05/02/2017 22:58	WG975537
Sulfate	0.360	J	0.0774	5.00	1	05/02/2017 22:58	WG975537

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 16:54	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:48	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00255		0.000250	0.00200	1	05/02/2017 03:07	WG975077
Arsenic,Dissolved	0.00240		0.000250	0.00200	1	05/03/2017 01:45	WG975067
Barium	2.22		0.000360	0.00500	1	05/02/2017 03:07	WG975077
Barium,Dissolved	2.49		0.000360	0.00500	1	05/03/2017 01:45	WG975067
Boron	0.263		0.00150	0.0200	1	05/02/2017 13:06	WG975077
Boron,Dissolved	0.287		0.00150	0.0200	1	05/03/2017 21:41	WG975067
Cadmium	U		0.000160	0.00100	1	05/02/2017 03:07	WG975077
Cadmium,Dissolved	U		0.000160	0.00100	1	05/03/2017 01:45	WG975067
Calcium	115		0.0460	1.00	1	05/02/2017 03:07	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:07	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:45	WG975067
Cobalt	U		0.000260	0.00200	1	05/02/2017 03:07	WG975077
Cobalt,Dissolved	U		0.000260	0.00200	1	05/03/2017 01:45	WG975067
Iron	0.773		0.0150	0.100	1	05/02/2017 03:07	WG975077
Iron,Dissolved	0.117		0.0150	0.100	1	05/03/2017 01:45	WG975067
Lead	0.000592	J	0.000240	0.00200	1	05/02/2017 03:07	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 01:45	WG975067
Manganese	0.193		0.000250	0.00500	1	05/02/2017 03:07	WG975077
Manganese,Dissolved	0.202		0.000250	0.00500	1	05/03/2017 01:45	WG975067
Nickel	0.00829		0.000350	0.00200	1	05/02/2017 03:07	WG975077
Nickel,Dissolved	0.00386		0.000350	0.00200	1	05/03/2017 01:45	WG975067
Potassium	0.830	J	0.0370	1.00	1	05/02/2017 03:07	WG975077
Selenium	0.0134		0.000380	0.00200	1	05/02/2017 03:07	WG975077
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 01:45	WG975067
Sodium	143		0.110	1.00	1	05/02/2017 03:07	WG975077



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	U		0.000330	0.0100	1	05/02/2017 03:07	WG975077
Uranium,Dissolved	U		0.000330	0.0100	1	05/03/2017 01:45	WG975067
Vanadium	0.000535	BJ	0.000180	0.00500	1	05/02/2017 03:07	WG975077
Vanadium,Dissolved	0.000408	J	0.000180	0.00500	1	05/03/2017 01:45	WG975067

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	6.04		0.0314	0.100	1	04/30/2017 21:05	WG975303
(S) a,a,a-Trifluorotoluene(FID)	81.6			77.0-122		04/30/2017 21:05	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.500	2.50	50	05/03/2017 19:42	WG975624
Benzene	1.89		0.0166	0.0500	50	05/03/2017 19:42	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/03/2017 19:42	WG975624
Bromoform	U		0.0234	0.0500	50	05/03/2017 19:42	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/03/2017 19:42	WG975624
n-Butylbenzene	0.0236	J	0.0180	0.0500	50	05/03/2017 19:42	WG975624
sec-Butylbenzene	U		0.0182	0.0500	50	05/03/2017 19:42	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/03/2017 19:42	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/03/2017 19:42	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/03/2017 19:42	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/03/2017 19:42	WG975624
Chloroethane	U		0.0226	0.250	50	05/03/2017 19:42	WG975624
Chloroform	U		0.0162	0.250	50	05/03/2017 19:42	WG975624
Chloromethane	U		0.0138	0.125	50	05/03/2017 19:42	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/03/2017 19:42	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/03/2017 19:42	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/03/2017 19:42	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/03/2017 19:42	WG975624
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/03/2017 19:42	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/03/2017 19:42	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/03/2017 19:42	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/03/2017 19:42	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/03/2017 19:42	WG975624
Ethylbenzene	U		0.0192	0.0500	50	05/03/2017 19:42	WG975624
Isopropylbenzene	0.0311	J	0.0163	0.0500	50	05/03/2017 19:42	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/03/2017 19:42	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/03/2017 19:42	WG975624
2-Hexanone	U		0.191	0.500	50	05/03/2017 19:42	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/03/2017 19:42	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/03/2017 19:42	WG975624
Methyl tert-butyl ether	1.21		0.0184	0.0500	50	05/03/2017 19:42	WG975624
Naphthalene	0.104	J	0.0500	0.250	50	05/03/2017 19:42	WG975624
n-Propylbenzene	0.0525		0.0174	0.0500	50	05/03/2017 19:42	WG975624
Styrene	U		0.0154	0.0500	50	05/03/2017 19:42	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/03/2017 19:42	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/03/2017 19:42	WG975624
Tetrachloroethene	U		0.0186	0.0500	50	05/03/2017 19:42	WG975624
Toluene	U		0.0206	0.0500	50	05/03/2017 19:42	WG975624
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/03/2017 19:42	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/03/2017 19:42	WG975624
Trichloroethene	U		0.0199	0.0500	50	05/03/2017 19:42	WG975624

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.0186	0.0500	50	05/03/2017 19:42	WG975624
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	05/03/2017 19:42	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/03/2017 19:42	WG975624
o-Xylene	U		0.0170	0.0500	50	05/03/2017 19:42	WG975624
m&p-Xylene	U		0.0360	0.100	50	05/03/2017 19:42	WG975624
Xylenes, Total	U		0.0530	0.150	50	05/03/2017 19:42	WG975624
(S) Toluene-d8	101			80.0-120		05/03/2017 19:42	WG975624
(S) Dibromofluoromethane	98.2			76.0-123		05/03/2017 19:42	WG975624
(S) 4-Bromofluorobenzene	99.8			80.0-120		05/03/2017 19:42	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.18		0.0247	0.100	1	05/06/2017 00:27	WG975550
(S) o-Terphenyl	75.8			31.0-160		05/06/2017 00:27	WG975550

1
Cp2
Tc3
Ss4
Cn5
Sr6
Qc7
Gl8
Al9
Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2420		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:41	WG975896

Sample Narrative:

353.2 L905668-24 WG975896: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.0900	0.250	50	05/02/2017 11:05	WG975005

Wet Chemistry by Method 9056A

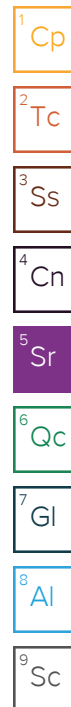
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	190		5.19	100	100	05/03/2017 00:15	WG975537
Fluoride	1.56		0.00990	0.100	1	05/03/2017 00:00	WG975537
Sulfate	1170		7.74	500	100	05/03/2017 00:15	WG975537

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 16:56	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:50	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00674		0.000250	0.00200	1	05/02/2017 03:10	WG975077
Arsenic,Dissolved	0.0137		0.000250	0.00200	1	05/03/2017 01:48	WG975067
Barium	0.0462		0.000360	0.00500	1	05/02/2017 03:10	WG975077
Barium,Dissolved	0.0543		0.000360	0.00500	1	05/03/2017 01:48	WG975067
Boron	1.21		0.00150	0.0200	1	05/02/2017 13:10	WG975077
Boron,Dissolved	1.38		0.00300	0.0400	2	05/03/2017 21:53	WG975067
Cadmium	U		0.000160	0.00100	1	05/02/2017 03:10	WG975077
Cadmium,Dissolved	U		0.000160	0.00100	1	05/03/2017 01:48	WG975067
Calcium	380		0.0460	1.00	1	05/02/2017 03:10	WG975077
Chromium	0.000618	J	0.000540	0.00200	1	05/02/2017 03:10	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:48	WG975067
Cobalt	U		0.000260	0.00200	1	05/02/2017 03:10	WG975077
Cobalt,Dissolved	U		0.000260	0.00200	1	05/03/2017 01:48	WG975067
Iron	0.0779	J	0.0150	0.100	1	05/02/2017 03:10	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:48	WG975067
Lead	0.0130		0.000240	0.00200	1	05/02/2017 03:10	WG975077
Lead,Dissolved	0.00539		0.000240	0.00200	1	05/03/2017 01:48	WG975067
Manganese	0.0624		0.000250	0.00500	1	05/02/2017 03:10	WG975077
Manganese,Dissolved	0.0603		0.000250	0.00500	1	05/03/2017 01:48	WG975067
Nickel	0.0484		0.000350	0.00200	1	05/02/2017 03:10	WG975077
Nickel,Dissolved	0.00259	B	0.000350	0.00200	1	05/03/2017 01:48	WG975067
Potassium	0.778	J	0.0370	1.00	1	05/02/2017 03:10	WG975077





Collected date/time: 04/26/17 12:10

L905668

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	0.0491		0.000380	0.00200	1	05/02/2017 03:10	WG975077
Selenium,Dissolved	0.000569	L	0.000380	0.00200	1	05/03/2017 01:48	WG975067
Sodium	89.9		0.110	1.00	1	05/02/2017 03:10	WG975077
Uranium	0.000382	L	0.000330	0.0100	1	05/02/2017 03:10	WG975077
Uranium,Dissolved	0.000332	L	0.000330	0.0100	1	05/03/2017 01:48	WG975067
Vanadium	0.00329	L	0.000180	0.00500	1	05/02/2017 03:10	WG975077
Vanadium,Dissolved	0.00198	L	0.000180	0.00500	1	05/03/2017 01:48	WG975067

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	9.38		0.0314	0.100	1	05/07/2017 22:59	WG975303
(S) a,a,a-Trifluorotoluene(FID) 104				77.0-122		05/07/2017 22:59	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.500	2.50	50	05/01/2017 20:04	WG975624
Benzene	2.58		0.0166	0.0500	50	05/01/2017 20:04	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/01/2017 20:04	WG975624
Bromoform	U		0.0234	0.0500	50	05/01/2017 20:04	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/01/2017 20:04	WG975624
n-Butylbenzene	U		0.0180	0.0500	50	05/01/2017 20:04	WG975624
sec-Butylbenzene	U		0.0182	0.0500	50	05/01/2017 20:04	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/01/2017 20:04	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/01/2017 20:04	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/01/2017 20:04	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/01/2017 20:04	WG975624
Chloroethane	U		0.0226	0.250	50	05/01/2017 20:04	WG975624
Chloroform	U		0.0162	0.250	50	05/01/2017 20:04	WG975624
Chloromethane	U		0.0138	0.125	50	05/01/2017 20:04	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/01/2017 20:04	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/01/2017 20:04	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/01/2017 20:04	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/01/2017 20:04	WG975624
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/01/2017 20:04	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/01/2017 20:04	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/01/2017 20:04	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/01/2017 20:04	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/01/2017 20:04	WG975624
Ethylbenzene	0.0489	L	0.0192	0.0500	50	05/01/2017 20:04	WG975624
Isopropylbenzene	0.0613		0.0163	0.0500	50	05/01/2017 20:04	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/01/2017 20:04	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/01/2017 20:04	WG975624
2-Hexanone	U		0.191	0.500	50	05/01/2017 20:04	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/01/2017 20:04	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/01/2017 20:04	WG975624
Methyl tert-butyl ether	0.423		0.0184	0.0500	50	05/01/2017 20:04	WG975624
Naphthalene	0.0668	L	0.0500	0.250	50	05/01/2017 20:04	WG975624
n-Propylbenzene	0.0909		0.0174	0.0500	50	05/01/2017 20:04	WG975624
Styrene	U		0.0154	0.0500	50	05/01/2017 20:04	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/01/2017 20:04	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/01/2017 20:04	WG975624
Tetrachloroethene	U		0.0186	0.0500	50	05/01/2017 20:04	WG975624
Toluene	0.0587		0.0206	0.0500	50	05/01/2017 20:04	WG975624



Collected date/time: 04/26/17 12:10

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/01/2017 20:04	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/01/2017 20:04	WG975624
Trichloroethene	U		0.0199	0.0500	50	05/01/2017 20:04	WG975624
1,2,4-Trimethylbenzene	0.168		0.0186	0.0500	50	05/01/2017 20:04	WG975624
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	05/01/2017 20:04	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/01/2017 20:04	WG975624
o-Xylene	U		0.0170	0.0500	50	05/01/2017 20:04	WG975624
m&p-Xylene	0.238		0.0360	0.100	50	05/01/2017 20:04	WG975624
Xylenes, Total	0.238		0.0530	0.150	50	05/01/2017 20:04	WG975624
(S) Toluene-d8	105			80.0-120		05/01/2017 20:04	WG975624
(S) Dibromofluoromethane	105			76.0-123		05/01/2017 20:04	WG975624
(S) 4-Bromofluorobenzene	96.3			80.0-120		05/01/2017 20:04	WG975624

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	14.4		0.0494	0.200	2	05/03/2017 00:03	WG975551
(S) o-Terphenyl	69.6			31.0-160		05/03/2017 00:03	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1260		2.82	10.0	1	05/02/2017 16:19	WG975506

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:42	WG975896

Sample Narrative:

353.2 L905668-25 WG975896: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	313		5.19	100	100	05/03/2017 00:46	WG975537
Fluoride	1.76		0.00990	0.100	1	05/03/2017 00:31	WG975537
Sulfate	U		0.0774	5.00	1	05/03/2017 00:31	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00143	J	0.000250	0.00200	1	05/02/2017 03:14	WG975077
Arsenic,Dissolved	0.00128	J	0.000250	0.00200	1	05/05/2017 17:43	WG975068
Barium	1.99		0.000360	0.00500	1	05/02/2017 03:14	WG975077
Barium,Dissolved	2.01		0.000360	0.00500	1	05/05/2017 17:43	WG975068
Calcium	140		0.0460	1.00	1	05/02/2017 03:14	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:14	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 17:43	WG975068
Iron	5.17		0.0150	0.100	1	05/02/2017 03:14	WG975077
Iron,Dissolved	0.0388	J	0.0150	0.100	1	05/05/2017 17:43	WG975068
Lead	0.000437	J	0.000240	0.00200	1	05/02/2017 03:14	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 17:43	WG975068
Manganese	0.105		0.000250	0.00500	1	05/02/2017 03:14	WG975077
Manganese,Dissolved	0.107		0.000250	0.00500	1	05/05/2017 17:43	WG975068
Potassium	0.655	J	0.0370	1.00	1	05/02/2017 03:14	WG975077
Selenium	0.0145		0.000380	0.00200	1	05/02/2017 03:14	WG975077
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 17:43	WG975068
Sodium	75.4		0.110	1.00	1	05/02/2017 03:14	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	6.67		0.0314	0.100	1	04/30/2017 21:49	WG975303
(S) a,a,a-Trifluorotoluene(FID)	59.0	J2		77.0-122		04/30/2017 21:49	WG975303

Sample Narrative:

8015D/GRO L905668-25 WG975303: Surrogate fails due to sample matrix interference.

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.500	2.50	50	05/03/2017 19:55	WG975624
Benzene	3.37		0.0166	0.0500	50	05/03/2017 19:55	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/03/2017 19:55	WG975624



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromoform	U		0.0234	0.0500	50	05/03/2017 19:55	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/03/2017 19:55	WG975624
n-Butylbenzene	U		0.0180	0.0500	50	05/03/2017 19:55	WG975624
sec-Butylbenzene	U		0.0182	0.0500	50	05/03/2017 19:55	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/03/2017 19:55	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/03/2017 19:55	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/03/2017 19:55	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/03/2017 19:55	WG975624
Chloroethane	U		0.0226	0.250	50	05/03/2017 19:55	WG975624
Chloroform	U		0.0162	0.250	50	05/03/2017 19:55	WG975624
Chloromethane	U		0.0138	0.125	50	05/03/2017 19:55	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/03/2017 19:55	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/03/2017 19:55	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/03/2017 19:55	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/03/2017 19:55	WG975624
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/03/2017 19:55	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/03/2017 19:55	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/03/2017 19:55	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/03/2017 19:55	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/03/2017 19:55	WG975624
Ethylbenzene	U		0.0192	0.0500	50	05/03/2017 19:55	WG975624
Isopropylbenzene	0.0334	IJ	0.0163	0.0500	50	05/03/2017 19:55	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/03/2017 19:55	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/03/2017 19:55	WG975624
2-Hexanone	U		0.191	0.500	50	05/03/2017 19:55	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/03/2017 19:55	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/03/2017 19:55	WG975624
Methyl tert-butyl ether	2.78		0.0184	0.0500	50	05/03/2017 19:55	WG975624
Naphthalene	0.0788	IJ	0.0500	0.250	50	05/03/2017 19:55	WG975624
n-Propylbenzene	0.0528		0.0174	0.0500	50	05/03/2017 19:55	WG975624
Styrene	U		0.0154	0.0500	50	05/03/2017 19:55	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/03/2017 19:55	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/03/2017 19:55	WG975624
Tetrachloroethene	U		0.0186	0.0500	50	05/03/2017 19:55	WG975624
Toluene	U		0.0206	0.0500	50	05/03/2017 19:55	WG975624
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/03/2017 19:55	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/03/2017 19:55	WG975624
Trichloroethene	U		0.0199	0.0500	50	05/03/2017 19:55	WG975624
1,2,4-Trimethylbenzene	U		0.0186	0.0500	50	05/03/2017 19:55	WG975624
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	05/03/2017 19:55	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/03/2017 19:55	WG975624
o-Xylene	U		0.0170	0.0500	50	05/03/2017 19:55	WG975624
m&p-Xylene	U		0.0360	0.100	50	05/03/2017 19:55	WG975624
Xylenes, Total	U		0.0530	0.150	50	05/03/2017 19:55	WG975624
(S) Toluene-d8	102			80.0-120		05/03/2017 19:55	WG975624
(S) Dibromofluoromethane	97.3			76.0-123		05/03/2017 19:55	WG975624
(S) 4-Bromofluorobenzene	98.9			80.0-120		05/03/2017 19:55	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.91		0.0247	0.100	1	05/03/2017 00:20	WG975551
(S) o-Terphenyl	60.6			31.0-160		05/03/2017 00:20	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1580		2.82	10.0	1	05/02/2017 16:19	WG975506

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.0340	J	0.0197	0.100	1	05/03/2017 15:43	WG975896

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	264		5.19	100	100	05/03/2017 01:17	WG975537
Fluoride	1.27		0.00990	0.100	1	05/03/2017 01:02	WG975537
Sulfate	273		0.387	25.0	5	05/04/2017 22:08	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0583		0.000250	0.00200	1	05/02/2017 03:17	WG975077
Arsenic,Dissolved	0.0464		0.000250	0.00200	1	05/05/2017 17:54	WG975068
Barium	0.0621		0.000360	0.00500	1	05/02/2017 03:17	WG975077
Barium,Dissolved	0.0573		0.000360	0.00500	1	05/05/2017 17:54	WG975068
Calcium	182		0.0460	1.00	1	05/02/2017 03:17	WG975077
Chromium	0.000580	J	0.000540	0.00200	1	05/02/2017 03:17	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 17:54	WG975068
Iron	2.98		0.0150	0.100	1	05/02/2017 03:17	WG975077
Iron,Dissolved	0.0239	J	0.0150	0.100	1	05/05/2017 17:54	WG975068
Lead	0.00114	J	0.000240	0.00200	1	05/02/2017 03:17	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 17:54	WG975068
Manganese	2.09		0.000250	0.00500	1	05/02/2017 03:17	WG975077
Manganese,Dissolved	2.16		0.000250	0.00500	1	05/05/2017 17:54	WG975068
Potassium	0.536	J	0.0370	1.00	1	05/02/2017 03:17	WG975077
Selenium	0.00973		0.000380	0.00200	1	05/02/2017 03:17	WG975077
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 17:54	WG975068
Sodium	106		0.110	1.00	1	05/02/2017 03:17	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.09		0.0314	0.100	1	04/30/2017 22:12	WG975303
(S) a,a,a-Trifluorotoluene(FID) 101				77.0-122		04/30/2017 22:12	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 20:48	WG975624
Benzene	0.0563		0.000331	0.00100	1	05/01/2017 20:48	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 20:48	WG975624
Bromoform	U		0.000469	0.00100	1	05/01/2017 20:48	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/01/2017 20:48	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 20:48	WG975624
sec-Butylbenzene	0.000391	J	0.000365	0.00100	1	05/01/2017 20:48	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 20:48	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 20:48	WG975624



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 20:48	WG975624	2 Tc
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 20:48	WG975624	3 Ss
Chloroethane	U		0.000453	0.00500	1	05/01/2017 20:48	WG975624	4 Cn
Chloroform	U		0.000324	0.00500	1	05/01/2017 20:48	WG975624	5 Sr
Chloromethane	U		0.000276	0.00250	1	05/01/2017 20:48	WG975624	6 Qc
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 20:48	WG975624	7 Gl
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 20:48	WG975624	8 Al
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 20:48	WG975624	9 Sc
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 20:48	WG975624	
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 20:48	WG975624	
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 20:48	WG975624	
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 20:48	WG975624	
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 20:48	WG975624	
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 20:48	WG975624	
Ethylbenzene	0.00166		0.000384	0.00100	1	05/01/2017 20:48	WG975624	
Isopropylbenzene	0.00124		0.000326	0.00100	1	05/01/2017 20:48	WG975624	
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 20:48	WG975624	
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 20:48	WG975624	
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 20:48	WG975624	
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 20:48	WG975624	
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 20:48	WG975624	
Methyl tert-butyl ether	0.821		0.0184	0.0500	50	05/03/2017 20:08	WG975624	
Naphthalene	0.00140	L	0.00100	0.00500	1	05/01/2017 20:48	WG975624	
n-Propylbenzene	0.00181		0.000349	0.00100	1	05/01/2017 20:48	WG975624	
Styrene	U		0.000307	0.00100	1	05/01/2017 20:48	WG975624	
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 20:48	WG975624	
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 20:48	WG975624	
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 20:48	WG975624	
Toluene	U		0.000412	0.00100	1	05/01/2017 20:48	WG975624	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 20:48	WG975624	
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 20:48	WG975624	
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 20:48	WG975624	
1,2,4-Trimethylbenzene	0.00276		0.000373	0.00100	1	05/01/2017 20:48	WG975624	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 20:48	WG975624	
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 20:48	WG975624	
o-Xylene	U		0.000341	0.00100	1	05/01/2017 20:48	WG975624	
m&p-Xylene	0.00159	L	0.000719	0.00200	1	05/01/2017 20:48	WG975624	
Xylenes, Total	0.00159	L	0.00106	0.00300	1	05/01/2017 20:48	WG975624	
(S) Toluene-d8	103			80.0-120		05/03/2017 20:08	WG975624	
(S) Toluene-d8	104			80.0-120		05/01/2017 20:48	WG975624	
(S) Dibromofluoromethane	98.9			76.0-123		05/03/2017 20:08	WG975624	
(S) Dibromofluoromethane	103			76.0-123		05/01/2017 20:48	WG975624	
(S) 4-Bromofluorobenzene	97.8			80.0-120		05/01/2017 20:48	WG975624	
(S) 4-Bromofluorobenzene	100			80.0-120		05/03/2017 20:08	WG975624	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.42		0.0247	0.100	1	05/03/2017 00:37	WG975551
(S) o-Terphenyl	77.4			31.0-160		05/03/2017 00:37	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4600		2.82	10.0	1	05/02/2017 16:19	WG975506

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.751	J	0.197	1.00	10	05/03/2017 15:45	WG975896

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	310		5.19	100	100	05/03/2017 01:48	WG975537
Fluoride	1.33		0.00990	0.100	1	05/03/2017 01:32	WG975537
Sulfate	2810		7.74	500	100	05/03/2017 01:48	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00336		0.000250	0.00200	1	05/02/2017 03:21	WG975077
Arsenic,Dissolved	0.00350		0.000250	0.00200	1	05/05/2017 17:57	WG975068
Barium	0.00822		0.000360	0.00500	1	05/02/2017 03:21	WG975077
Barium,Dissolved	0.00884		0.000360	0.00500	1	05/05/2017 17:57	WG975068
Calcium	495		0.0460	1.00	1	05/02/2017 03:21	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:21	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 17:57	WG975068
Iron	U		0.0150	0.100	1	05/02/2017 03:21	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 17:57	WG975068
Lead	U		0.000240	0.00200	1	05/02/2017 03:21	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 17:57	WG975068
Manganese	0.374		0.000250	0.00500	1	05/02/2017 03:21	WG975077
Manganese,Dissolved	0.393		0.000250	0.00500	1	05/05/2017 17:57	WG975068
Potassium	1.27		0.0370	1.00	1	05/02/2017 03:21	WG975077
Selenium	0.00962		0.000380	0.00200	1	05/02/2017 03:21	WG975077
Selenium,Dissolved	0.00331		0.000380	0.00200	1	05/05/2017 17:57	WG975068
Sodium	218		0.110	1.00	1	05/02/2017 03:21	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 22:34	WG975303
(S) a,a,a-Trifluorotoluene(FID) 101				77.0-122		04/30/2017 22:34	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 21:10	WG975624
Benzene	0.000603	J	0.000331	0.00100	1	05/01/2017 21:10	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 21:10	WG975624
Bromoform	U		0.000469	0.00100	1	05/01/2017 21:10	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/01/2017 21:10	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 21:10	WG975624
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 21:10	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 21:10	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 21:10	WG975624



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 21:10	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 21:10	WG975624
Chloroethane	U		0.000453	0.00500	1	05/01/2017 21:10	WG975624
Chloroform	U		0.000324	0.00500	1	05/01/2017 21:10	WG975624
Chloromethane	U		0.000276	0.00250	1	05/01/2017 21:10	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 21:10	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 21:10	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 21:10	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 21:10	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 21:10	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 21:10	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 21:10	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 21:10	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 21:10	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 21:10	WG975624
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 21:10	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 21:10	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 21:10	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 21:10	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 21:10	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 21:10	WG975624
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 20:21	WG975624
Naphthalene	U		0.00100	0.00500	1	05/01/2017 21:10	WG975624
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 21:10	WG975624
Styrene	U		0.000307	0.00100	1	05/01/2017 21:10	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 21:10	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 21:10	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 21:10	WG975624
Toluene	U		0.000412	0.00100	1	05/01/2017 21:10	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 21:10	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 21:10	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 21:10	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 21:10	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 21:10	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 21:10	WG975624
o-Xylene	U		0.000341	0.00100	1	05/01/2017 21:10	WG975624
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 21:10	WG975624
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 21:10	WG975624
(S) Toluene-d8	102			80.0-120		05/03/2017 20:21	WG975624
(S) Toluene-d8	106			80.0-120		05/01/2017 21:10	WG975624
(S) Dibromofluoromethane	100			76.0-123		05/03/2017 20:21	WG975624
(S) Dibromofluoromethane	109			76.0-123		05/01/2017 21:10	WG975624
(S) 4-Bromofluorobenzene	97.4			80.0-120		05/01/2017 21:10	WG975624
(S) 4-Bromofluorobenzene	98.4			80.0-120		05/03/2017 20:21	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0964	J	0.0247	0.100	1	05/03/2017 00:54	WG975551
(S) o-Terphenyl	65.4			31.0-160		05/03/2017 00:54	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3450		2.82	10.0	1	05/02/2017 16:19	WG975506

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.258	J	0.197	1.00	10	05/03/2017 15:46	WG975896

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	270		5.19	100	100	05/03/2017 02:49	WG975537
Fluoride	2.00		0.00990	0.100	1	05/03/2017 02:34	WG975537
Sulfate	2060		7.74	500	100	05/03/2017 02:49	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00357		0.000250	0.00200	1	05/02/2017 03:24	WG975077
Arsenic,Dissolved	0.00347		0.000250	0.00200	1	05/05/2017 18:01	WG975068
Barium	0.0121		0.000360	0.00500	1	05/02/2017 03:24	WG975077
Barium,Dissolved	0.00800	B	0.000360	0.00500	1	05/05/2017 18:01	WG975068
Calcium	501		0.0460	1.00	1	05/02/2017 03:24	WG975077
Chromium	0.000560	J	0.000540	0.00200	1	05/02/2017 03:24	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 18:01	WG975068
Iron	0.224		0.0150	0.100	1	05/02/2017 03:24	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:01	WG975068
Lead	0.000542	J	0.000240	0.00200	1	05/02/2017 03:24	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 18:01	WG975068
Manganese	0.0545		0.000250	0.00500	1	05/02/2017 03:24	WG975077
Manganese,Dissolved	0.0449		0.000250	0.00500	1	05/05/2017 18:01	WG975068
Potassium	2.22		0.0370	1.00	1	05/02/2017 03:24	WG975077
Selenium	0.00488		0.000380	0.00200	1	05/02/2017 03:24	WG975077
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 18:01	WG975068
Sodium	154		0.110	1.00	1	05/02/2017 03:24	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 22:56	WG975303
(S) a,a,a-Trifluorotoluene(FID) 101				77.0-122		04/30/2017 22:56	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/01/2017 21:32	WG975624
Benzene	0.000430	J	0.000331	0.00100	1	05/01/2017 21:32	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 21:32	WG975624
Bromoform	U		0.000469	0.00100	1	05/01/2017 21:32	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/01/2017 21:32	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 21:32	WG975624
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 21:32	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 21:32	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 21:32	WG975624



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 21:32	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 21:32	WG975624
Chloroethane	U		0.000453	0.00500	1	05/01/2017 21:32	WG975624
Chloroform	U		0.000324	0.00500	1	05/01/2017 21:32	WG975624
Chloromethane	U		0.000276	0.00250	1	05/01/2017 21:32	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 21:32	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 21:32	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 21:32	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 21:32	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 21:32	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 21:32	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 21:32	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 21:32	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 21:32	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 21:32	WG975624
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 21:32	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 21:32	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 21:32	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 21:32	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 21:32	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 21:32	WG975624
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 21:32	WG975624
Naphthalene	U		0.00100	0.00500	1	05/01/2017 21:32	WG975624
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 21:32	WG975624
Styrene	U		0.000307	0.00100	1	05/01/2017 21:32	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 21:32	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 21:32	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 21:32	WG975624
Toluene	U		0.000412	0.00100	1	05/01/2017 21:32	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 21:32	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 21:32	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 21:32	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 21:32	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 21:32	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 21:32	WG975624
o-Xylene	U		0.000341	0.00100	1	05/01/2017 21:32	WG975624
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 21:32	WG975624
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 21:32	WG975624
(S) Toluene-d8	107			80.0-120		05/01/2017 21:32	WG975624
(S) Dibromofluoromethane	109			76.0-123		05/01/2017 21:32	WG975624
(S) 4-Bromofluorobenzene	96.9			80.0-120		05/01/2017 21:32	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0549	J	0.0247	0.100	1	05/03/2017 01:11	WG975551
(S) o-Terphenyl	56.8			31.0-160		05/03/2017 01:11	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	982		2.82	10.0	1	05/02/2017 16:19	WG975506

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 15:53	WG976257

Sample Narrative:

353.2 L905668-29 WG976257: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	48.2		0.0519	1.00	1	05/03/2017 19:07	WG975912
Fluoride	1.60		0.00990	0.100	1	05/03/2017 19:07	WG975912
Sulfate	9.54		0.0774	5.00	1	05/03/2017 19:07	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0123		0.000250	0.00200	1	05/02/2017 03:28	WG975077
Arsenic,Dissolved	0.0142		0.000250	0.00200	1	05/05/2017 18:04	WG975068
Barium	2.63		0.000360	0.00500	1	05/02/2017 03:28	WG975077
Barium,Dissolved	2.85		0.000360	0.00500	1	05/05/2017 18:04	WG975068
Calcium	212		0.0460	1.00	1	05/02/2017 03:28	WG975077
Chromium	0.00150	J	0.000540	0.00200	1	05/02/2017 03:28	WG975077
Chromium,Dissolved	0.00138	J	0.000540	0.00200	1	05/05/2017 18:04	WG975068
Iron	0.151		0.0150	0.100	1	05/02/2017 03:28	WG975077
Iron,Dissolved	0.0193	J	0.0150	0.100	1	05/05/2017 18:04	WG975068
Lead	0.00143	J	0.000240	0.00200	1	05/02/2017 03:28	WG975077
Lead,Dissolved	0.000346	J	0.000240	0.00200	1	05/05/2017 18:04	WG975068
Manganese	0.0622		0.000250	0.00500	1	05/02/2017 03:28	WG975077
Manganese,Dissolved	0.0622		0.000250	0.00500	1	05/05/2017 18:04	WG975068
Potassium	4.45		0.0370	1.00	1	05/02/2017 03:28	WG975077
Selenium	0.0357		0.000380	0.00200	1	05/02/2017 03:28	WG975077
Selenium,Dissolved	0.0563		0.000380	0.00200	1	05/05/2017 18:04	WG975068
Sodium	38.3		0.110	1.00	1	05/02/2017 03:28	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	33.9		0.314	1.00	10	05/07/2017 23:22	WG975303
(S) a,a,a-Trifluorotoluene(FID)	94.3			77.0-122		05/07/2017 23:22	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		1.00	5.00	100	05/01/2017 21:54	WG975624
Benzene	13.3		0.0331	0.100	100	05/01/2017 21:54	WG975624
Bromodichloromethane	U		0.0380	0.100	100	05/01/2017 21:54	WG975624
Bromoform	U		0.0469	0.100	100	05/01/2017 21:54	WG975624
Bromomethane	U	J4	0.0866	0.500	100	05/01/2017 21:54	WG975624
n-Butylbenzene	U		0.0361	0.100	100	05/01/2017 21:54	WG975624



Collected date/time: 04/26/17 08:25

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.0365	0.100	100	05/01/2017 21:54	WG975624
Carbon disulfide	U		0.0275	0.100	100	05/01/2017 21:54	WG975624
Carbon tetrachloride	U		0.0379	0.100	100	05/01/2017 21:54	WG975624
Chlorobenzene	U		0.0348	0.100	100	05/01/2017 21:54	WG975624
Chlorodibromomethane	U		0.0327	0.100	100	05/01/2017 21:54	WG975624
Chloroethane	U		0.0453	0.500	100	05/01/2017 21:54	WG975624
Chloroform	U		0.0324	0.500	100	05/01/2017 21:54	WG975624
Chloromethane	U		0.0276	0.250	100	05/01/2017 21:54	WG975624
1,2-Dibromoethane	U		0.0381	0.100	100	05/01/2017 21:54	WG975624
1,1-Dichloroethane	U		0.0259	0.100	100	05/01/2017 21:54	WG975624
1,2-Dichloroethane	U		0.0361	0.100	100	05/01/2017 21:54	WG975624
1,1-Dichloroethene	U		0.0398	0.100	100	05/01/2017 21:54	WG975624
cis-1,2-Dichloroethene	U		0.0260	0.100	100	05/01/2017 21:54	WG975624
trans-1,2-Dichloroethene	U		0.0396	0.100	100	05/01/2017 21:54	WG975624
1,2-Dichloropropane	U		0.0306	0.100	100	05/01/2017 21:54	WG975624
cis-1,3-Dichloropropene	U		0.0418	0.100	100	05/01/2017 21:54	WG975624
trans-1,3-Dichloropropene	U		0.0419	0.100	100	05/01/2017 21:54	WG975624
Ethylbenzene	1.71		0.0384	0.100	100	05/01/2017 21:54	WG975624
Isopropylbenzene	0.0921	L	0.0326	0.100	100	05/01/2017 21:54	WG975624
p-Isopropyltoluene	U		0.0350	0.100	100	05/01/2017 21:54	WG975624
2-Butanone (MEK)	U		0.393	1.00	100	05/01/2017 21:54	WG975624
2-Hexanone	U		0.382	1.00	100	05/01/2017 21:54	WG975624
Methylene Chloride	U		0.100	0.500	100	05/01/2017 21:54	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	05/01/2017 21:54	WG975624
Methyl tert-butyl ether	U		0.0367	0.100	100	05/01/2017 21:54	WG975624
Naphthalene	0.104	L	0.100	0.500	100	05/01/2017 21:54	WG975624
n-Propylbenzene	0.109		0.0349	0.100	100	05/01/2017 21:54	WG975624
Styrene	U		0.0307	0.100	100	05/01/2017 21:54	WG975624
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	05/01/2017 21:54	WG975624
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	05/01/2017 21:54	WG975624
Tetrachloroethene	U		0.0372	0.100	100	05/01/2017 21:54	WG975624
Toluene	U		0.0412	0.100	100	05/01/2017 21:54	WG975624
1,1,1-Trichloroethane	U		0.0319	0.100	100	05/01/2017 21:54	WG975624
1,1,2-Trichloroethane	U		0.0383	0.100	100	05/01/2017 21:54	WG975624
Trichloroethene	U		0.0398	0.100	100	05/01/2017 21:54	WG975624
1,2,4-Trimethylbenzene	0.104		0.0373	0.100	100	05/01/2017 21:54	WG975624
1,3,5-Trimethylbenzene	U		0.0387	0.100	100	05/01/2017 21:54	WG975624
Vinyl chloride	U		0.0259	0.100	100	05/01/2017 21:54	WG975624
o-Xylene	U		0.0341	0.100	100	05/01/2017 21:54	WG975624
m&p-Xylene	0.446		0.0719	0.200	100	05/01/2017 21:54	WG975624
Xylenes, Total	0.446		0.106	0.300	100	05/01/2017 21:54	WG975624
(S) Toluene-d8	103			80.0-120		05/01/2017 21:54	WG975624
(S) Dibromofluoromethane	104			76.0-123		05/01/2017 21:54	WG975624
(S) 4-Bromofluorobenzene	98.2			80.0-120		05/01/2017 21:54	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	13.8		0.124	0.500	5	05/04/2017 17:11	WG975551
(S) o-Terphenyl	89.5			31.0-160		05/04/2017 17:11	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3030		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 15:55	WG976257

Sample Narrative:

353.2 L905668-30 WG976257: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	251		2.60	50.0	50	05/03/2017 15:37	WG975912
Fluoride	2.35		0.00990	0.100	1	05/03/2017 15:22	WG975912
Sulfate	1200		3.87	250	50	05/03/2017 15:37	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00504		0.000250	0.00200	1	05/02/2017 03:31	WG975077
Arsenic,Dissolved	0.00230		0.000250	0.00200	1	05/05/2017 18:08	WG975068
Barium	0.0566		0.000360	0.00500	1	05/02/2017 03:31	WG975077
Barium,Dissolved	0.0530		0.000360	0.00500	1	05/05/2017 18:08	WG975068
Calcium	519		0.0460	1.00	1	05/02/2017 03:31	WG975077
Chromium	0.00173	J	0.000540	0.00200	1	05/02/2017 03:31	WG975077
Chromium,Dissolved	0.00131	J	0.000540	0.00200	1	05/05/2017 18:08	WG975068
Iron	0.264		0.0150	0.100	1	05/02/2017 03:31	WG975077
Iron,Dissolved	0.0200	J	0.0150	0.100	1	05/05/2017 18:08	WG975068
Lead	0.000960	J	0.000240	0.00200	1	05/02/2017 03:31	WG975077
Lead,Dissolved	0.000647	J	0.000240	0.00200	1	05/05/2017 18:08	WG975068
Manganese	0.0161		0.000250	0.00500	1	05/02/2017 03:31	WG975077
Manganese,Dissolved	0.0157		0.000250	0.00500	1	05/05/2017 18:08	WG975068
Potassium	2.86		0.0370	1.00	1	05/02/2017 03:31	WG975077
Selenium	0.0100		0.000380	0.00200	1	05/02/2017 03:31	WG975077
Selenium,Dissolved	0.0364		0.000380	0.00200	1	05/05/2017 18:08	WG975068
Sodium	261		0.110	1.00	1	05/02/2017 03:31	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	17.2		1.57	5.00	50	04/30/2017 23:41	WG975303
(S) a,a,a-Trifluorotoluene(FID) 98.5				77.0-122		04/30/2017 23:41	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.500	2.50	50	05/01/2017 22:16	WG975624
Benzene	7.78		0.0166	0.0500	50	05/01/2017 22:16	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/01/2017 22:16	WG975624
Bromoform	U		0.0234	0.0500	50	05/01/2017 22:16	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/01/2017 22:16	WG975624
n-Butylbenzene	U		0.0180	0.0500	50	05/01/2017 22:16	WG975624



Collected date/time: 04/26/17 14:25

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.0182	0.0500	50	05/01/2017 22:16	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/01/2017 22:16	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/01/2017 22:16	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/01/2017 22:16	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/01/2017 22:16	WG975624
Chloroethane	U		0.0226	0.250	50	05/01/2017 22:16	WG975624
Chloroform	U		0.0162	0.250	50	05/01/2017 22:16	WG975624
Chloromethane	U		0.0138	0.125	50	05/01/2017 22:16	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/01/2017 22:16	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/01/2017 22:16	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/01/2017 22:16	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/01/2017 22:16	WG975624
cis-1,2-Dichloroethene	0.828		0.0130	0.0500	50	05/01/2017 22:16	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/01/2017 22:16	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/01/2017 22:16	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/01/2017 22:16	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/01/2017 22:16	WG975624
Ethylbenzene	0.837		0.0192	0.0500	50	05/01/2017 22:16	WG975624
Isopropylbenzene	0.0533		0.0163	0.0500	50	05/01/2017 22:16	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/01/2017 22:16	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/01/2017 22:16	WG975624
2-Hexanone	U		0.191	0.500	50	05/01/2017 22:16	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/01/2017 22:16	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/01/2017 22:16	WG975624
Methyl tert-butyl ether	U		0.0184	0.0500	50	05/01/2017 22:16	WG975624
Naphthalene	0.145	L	0.0500	0.250	50	05/01/2017 22:16	WG975624
n-Propylbenzene	0.0816		0.0174	0.0500	50	05/01/2017 22:16	WG975624
Styrene	U		0.0154	0.0500	50	05/01/2017 22:16	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/01/2017 22:16	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/01/2017 22:16	WG975624
Tetrachloroethene	0.0218	L	0.0186	0.0500	50	05/01/2017 22:16	WG975624
Toluene	0.0430	L	0.0206	0.0500	50	05/01/2017 22:16	WG975624
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/01/2017 22:16	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/01/2017 22:16	WG975624
Trichloroethene	0.0249	L	0.0199	0.0500	50	05/01/2017 22:16	WG975624
1,2,4-Trimethylbenzene	0.271		0.0186	0.0500	50	05/01/2017 22:16	WG975624
1,3,5-Trimethylbenzene	0.0664		0.0194	0.0500	50	05/01/2017 22:16	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/01/2017 22:16	WG975624
o-Xylene	0.0183	L	0.0170	0.0500	50	05/01/2017 22:16	WG975624
m&p-Xylene	0.413		0.0360	0.100	50	05/01/2017 22:16	WG975624
Xylenes, Total	0.431		0.0530	0.150	50	05/01/2017 22:16	WG975624
(S) Toluene-d8	105			80.0-120		05/01/2017 22:16	WG975624
(S) Dibromofluoromethane	101			76.0-123		05/01/2017 22:16	WG975624
(S) 4-Bromofluorobenzene	97.3			80.0-120		05/01/2017 22:16	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.6		0.124	0.500	5	05/06/2017 01:17	WG975551
(S) o-Terphenyl	79.0			31.0-160		05/06/2017 01:17	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2600		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 15:56	WG976257

Sample Narrative:

353.2 L905668-31 WG976257: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	225		2.60	50.0	50	05/03/2017 16:08	WG975912
Fluoride	2.08		0.00990	0.100	1	05/03/2017 15:53	WG975912
Sulfate	1100		3.87	250	50	05/03/2017 16:08	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.000981	J	0.000250	0.00200	1	05/02/2017 03:35	WG975077
Arsenic,Dissolved	0.000757	J	0.000250	0.00200	1	05/05/2017 18:11	WG975068
Barium	0.0218		0.000360	0.00500	1	05/02/2017 03:35	WG975077
Barium,Dissolved	0.0204		0.000360	0.00500	1	05/05/2017 18:11	WG975068
Calcium	322		0.0460	1.00	1	05/02/2017 03:35	WG975077
Chromium	0.000618	J	0.000540	0.00200	1	05/02/2017 03:35	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 18:11	WG975068
Iron	0.0299	J	0.0150	0.100	1	05/02/2017 03:35	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:11	WG975068
Lead	0.000959	J	0.000240	0.00200	1	05/02/2017 03:35	WG975077
Lead,Dissolved	0.000747	J	0.000240	0.00200	1	05/05/2017 18:11	WG975068
Manganese	0.0352		0.000250	0.00500	1	05/02/2017 03:35	WG975077
Manganese,Dissolved	0.0367		0.000250	0.00500	1	05/05/2017 18:11	WG975068
Potassium	1.85		0.0370	1.00	1	05/02/2017 03:35	WG975077
Selenium	0.00551		0.000380	0.00200	1	05/02/2017 03:35	WG975077
Selenium,Dissolved	0.0188		0.000380	0.00200	1	05/05/2017 18:11	WG975068
Sodium	248		0.110	1.00	1	05/02/2017 03:35	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	6.48		0.0314	0.100	1	05/07/2017 23:44	WG975303
(S) a,a,q-Trifluorotoluene(FID) 90.8				77.0-122		05/07/2017 23:44	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	0.267	J	0.250	1.25	25	05/01/2017 22:38	WG975624
Benzene	0.769		0.00828	0.0250	25	05/01/2017 22:38	WG975624
Bromodichloromethane	U		0.00950	0.0250	25	05/01/2017 22:38	WG975624
Bromoform	U		0.0117	0.0250	25	05/01/2017 22:38	WG975624
Bromomethane	U	J4	0.0216	0.125	25	05/01/2017 22:38	WG975624
n-Butylbenzene	U		0.00902	0.0250	25	05/01/2017 22:38	WG975624



Collected date/time: 04/26/17 09:35

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.0110	U	0.00912	0.0250	25	05/01/2017 22:38	WG975624
Carbon disulfide	U		0.00688	0.0250	25	05/01/2017 22:38	WG975624
Carbon tetrachloride	U		0.00948	0.0250	25	05/01/2017 22:38	WG975624
Chlorobenzene	U		0.00870	0.0250	25	05/01/2017 22:38	WG975624
Chlorodibromomethane	U		0.00818	0.0250	25	05/01/2017 22:38	WG975624
Chloroethane	U		0.0113	0.125	25	05/01/2017 22:38	WG975624
Chloroform	U		0.00810	0.125	25	05/01/2017 22:38	WG975624
Chloromethane	U		0.00690	0.0625	25	05/01/2017 22:38	WG975624
1,2-Dibromoethane	U		0.00952	0.0250	25	05/01/2017 22:38	WG975624
1,1-Dichloroethane	U		0.00648	0.0250	25	05/01/2017 22:38	WG975624
1,2-Dichloroethane	U		0.00902	0.0250	25	05/01/2017 22:38	WG975624
1,1-Dichloroethene	U		0.00995	0.0250	25	05/01/2017 22:38	WG975624
cis-1,2-Dichloroethene	U		0.00650	0.0250	25	05/01/2017 22:38	WG975624
trans-1,2-Dichloroethene	U		0.00990	0.0250	25	05/01/2017 22:38	WG975624
1,2-Dichloropropane	U		0.00765	0.0250	25	05/01/2017 22:38	WG975624
cis-1,3-Dichloropropene	U		0.0104	0.0250	25	05/01/2017 22:38	WG975624
trans-1,3-Dichloropropene	U		0.0105	0.0250	25	05/01/2017 22:38	WG975624
Ethylbenzene	0.0225	U	0.00960	0.0250	25	05/01/2017 22:38	WG975624
Isopropylbenzene	0.0860		0.00815	0.0250	25	05/01/2017 22:38	WG975624
p-Isopropyltoluene	U		0.00875	0.0250	25	05/01/2017 22:38	WG975624
2-Butanone (MEK)	U		0.0982	0.250	25	05/01/2017 22:38	WG975624
2-Hexanone	U		0.0955	0.250	25	05/01/2017 22:38	WG975624
Methylene Chloride	U		0.0250	0.125	25	05/01/2017 22:38	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.0535	0.250	25	05/01/2017 22:38	WG975624
Methyl tert-butyl ether	U		0.00918	0.0250	25	05/01/2017 22:38	WG975624
Naphthalene	0.0307	U	0.0250	0.125	25	05/01/2017 22:38	WG975624
n-Propylbenzene	0.131		0.00872	0.0250	25	05/01/2017 22:38	WG975624
Styrene	U		0.00768	0.0250	25	05/01/2017 22:38	WG975624
1,1,1,2-Tetrachloroethane	U		0.00962	0.0250	25	05/01/2017 22:38	WG975624
1,1,2,2-Tetrachloroethane	U		0.00325	0.0250	25	05/01/2017 22:38	WG975624
Tetrachloroethene	U		0.00930	0.0250	25	05/01/2017 22:38	WG975624
Toluene	0.0312		0.0103	0.0250	25	05/01/2017 22:38	WG975624
1,1,1-Trichloroethane	U		0.00798	0.0250	25	05/01/2017 22:38	WG975624
1,1,2-Trichloroethane	U		0.00958	0.0250	25	05/01/2017 22:38	WG975624
Trichloroethene	U		0.00995	0.0250	25	05/01/2017 22:38	WG975624
1,2,4-Trimethylbenzene	0.118		0.00932	0.0250	25	05/01/2017 22:38	WG975624
1,3,5-Trimethylbenzene	U		0.00968	0.0250	25	05/01/2017 22:38	WG975624
Vinyl chloride	U		0.00648	0.0250	25	05/01/2017 22:38	WG975624
o-Xylene	U		0.00852	0.0250	25	05/01/2017 22:38	WG975624
m&p-Xylene	0.228		0.0180	0.0500	25	05/01/2017 22:38	WG975624
Xylenes, Total	0.228		0.0265	0.0750	25	05/01/2017 22:38	WG975624
(S) Toluene-d8	106			80.0-120		05/01/2017 22:38	WG975624
(S) Dibromofluoromethane	106			76.0-123		05/01/2017 22:38	WG975624
(S) 4-Bromofluorobenzene	97.6			80.0-120		05/01/2017 22:38	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.70		0.124	0.500	5	05/04/2017 16:20	WG975551
(S) o-Terphenyl	76.0			31.0-160		05/04/2017 16:20	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3210		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 16:02	WG976257

Sample Narrative:

353.2 L905668-32 WG976257: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	275		2.60	50.0	50	05/03/2017 16:39	WG975912
Fluoride	1.78		0.00990	0.100	1	05/03/2017 16:23	WG975912
Sulfate	1180		3.87	250	50	05/03/2017 16:39	WG975912

Metals (ICPMS) by Method 6020

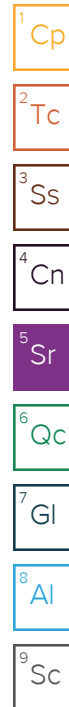
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00450		0.000250	0.00200	1	05/02/2017 03:45	WG975077
Arsenic,Dissolved	0.00302		0.000250	0.00200	1	05/05/2017 18:15	WG975068
Barium	0.0285		0.000360	0.00500	1	05/02/2017 03:45	WG975077
Barium,Dissolved	0.0239		0.000360	0.00500	1	05/05/2017 18:15	WG975068
Calcium	358		0.0460	1.00	1	05/02/2017 03:45	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:45	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 18:15	WG975068
Iron	U		0.0150	0.100	1	05/02/2017 03:45	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:15	WG975068
Lead	0.000317	J	0.000240	0.00200	1	05/02/2017 03:45	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 18:15	WG975068
Manganese	0.00311	J	0.000250	0.00500	1	05/02/2017 03:45	WG975077
Manganese,Dissolved	0.00371	J	0.000250	0.00500	1	05/05/2017 18:15	WG975068
Potassium	1.20		0.0370	1.00	1	05/02/2017 03:45	WG975077
Selenium	0.00328		0.000380	0.00200	1	05/02/2017 03:45	WG975077
Selenium,Dissolved	0.0172		0.000380	0.00200	1	05/05/2017 18:15	WG975068
Sodium	358		0.110	1.00	1	05/02/2017 03:45	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	8.61		0.0314	0.100	1	05/08/2017 00:06	WG975303
(S) a,a,a-Trifluorotoluene(FID) 92.6				77.0-122		05/08/2017 00:06	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.500	2.50	50	05/01/2017 23:00	WG975624
Benzene	1.59		0.0166	0.0500	50	05/01/2017 23:00	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/01/2017 23:00	WG975624
Bromoform	U		0.0234	0.0500	50	05/01/2017 23:00	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/01/2017 23:00	WG975624
n-Butylbenzene	U		0.0180	0.0500	50	05/01/2017 23:00	WG975624





Collected date/time: 04/26/17 10:20

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.0182	0.0500	50	05/01/2017 23:00	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/01/2017 23:00	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/01/2017 23:00	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/01/2017 23:00	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/01/2017 23:00	WG975624
Chloroethane	U		0.0226	0.250	50	05/01/2017 23:00	WG975624
Chloroform	U		0.0162	0.250	50	05/01/2017 23:00	WG975624
Chloromethane	U		0.0138	0.125	50	05/01/2017 23:00	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/01/2017 23:00	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/01/2017 23:00	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/01/2017 23:00	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/01/2017 23:00	WG975624
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/01/2017 23:00	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/01/2017 23:00	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/01/2017 23:00	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/01/2017 23:00	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/01/2017 23:00	WG975624
Ethylbenzene	0.248		0.0192	0.0500	50	05/01/2017 23:00	WG975624
Isopropylbenzene	0.107		0.0163	0.0500	50	05/01/2017 23:00	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/01/2017 23:00	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/01/2017 23:00	WG975624
2-Hexanone	U		0.191	0.500	50	05/01/2017 23:00	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/01/2017 23:00	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/01/2017 23:00	WG975624
Methyl tert-butyl ether	U		0.0184	0.0500	50	05/01/2017 23:00	WG975624
Naphthalene	0.204	L	0.0500	0.250	50	05/01/2017 23:00	WG975624
n-Propylbenzene	0.220		0.0174	0.0500	50	05/01/2017 23:00	WG975624
Styrene	U		0.0154	0.0500	50	05/01/2017 23:00	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/01/2017 23:00	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/01/2017 23:00	WG975624
Tetrachloroethene	U		0.0186	0.0500	50	05/01/2017 23:00	WG975624
Toluene	U		0.0206	0.0500	50	05/01/2017 23:00	WG975624
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/01/2017 23:00	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/01/2017 23:00	WG975624
Trichloroethene	U		0.0199	0.0500	50	05/01/2017 23:00	WG975624
1,2,4-Trimethylbenzene	0.646		0.0186	0.0500	50	05/01/2017 23:00	WG975624
1,3,5-Trimethylbenzene	0.149		0.0194	0.0500	50	05/01/2017 23:00	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/01/2017 23:00	WG975624
o-Xylene	U		0.0170	0.0500	50	05/01/2017 23:00	WG975624
m&p-Xylene	1.13		0.0360	0.100	50	05/01/2017 23:00	WG975624
Xylenes, Total	1.13		0.0530	0.150	50	05/01/2017 23:00	WG975624
(S) Toluene-d8	105			80.0-120		05/01/2017 23:00	WG975624
(S) Dibromofluoromethane	105			76.0-123		05/01/2017 23:00	WG975624
(S) 4-Bromofluorobenzene	96.9			80.0-120		05/01/2017 23:00	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.93		0.124	0.500	5	05/06/2017 01:51	WG975551
(S) o-Terphenyl	82.0			31.0-160		05/06/2017 01:51	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2930		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 16:03	WG976257

Sample Narrative:

353.2 L905668-33 WG976257: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	192		2.60	50.0	50	05/03/2017 19:53	WG975912
Fluoride	2.38		0.00990	0.100	1	05/03/2017 19:37	WG975912
Sulfate	1430		3.87	250	50	05/03/2017 19:53	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00456		0.000250	0.00200	1	05/02/2017 03:49	WG975077
Arsenic,Dissolved	0.00375		0.000250	0.00200	1	05/05/2017 18:19	WG975068
Barium	0.0228		0.000360	0.00500	1	05/02/2017 03:49	WG975077
Barium,Dissolved	0.0210		0.000360	0.00500	1	05/05/2017 18:19	WG975068
Calcium	489		0.0460	1.00	1	05/02/2017 03:49	WG975077
Chromium	0.00367		0.000540	0.00200	1	05/02/2017 03:49	WG975077
Chromium,Dissolved	0.00235		0.000540	0.00200	1	05/05/2017 18:19	WG975068
Iron	0.278		0.0150	0.100	1	05/02/2017 03:49	WG975077
Iron,Dissolved	0.0197	J	0.0150	0.100	1	05/05/2017 18:19	WG975068
Lead	0.00116	J	0.000240	0.00200	1	05/02/2017 03:49	WG975077
Lead,Dissolved	0.000486	J	0.000240	0.00200	1	05/04/2017 14:33	WG975068
Manganese	0.0258		0.000250	0.00500	1	05/02/2017 03:49	WG975077
Manganese,Dissolved	0.0255		0.000250	0.00500	1	05/05/2017 18:19	WG975068
Potassium	2.97		0.0370	1.00	1	05/02/2017 03:49	WG975077
Selenium	0.00683		0.000380	0.00200	1	05/02/2017 03:49	WG975077
Selenium,Dissolved	0.0145		0.000380	0.00200	1	05/05/2017 18:19	WG975068
Sodium	167		0.110	1.00	1	05/02/2017 03:49	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	3.73		0.0314	0.100	1	05/08/2017 00:28	WG975303
(S) a,a,a-Trifluorotoluene(FID) 95.1				77.0-122		05/08/2017 00:28	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.250	1.25	25	05/01/2017 23:22	WG975624
Benzene	0.633		0.00828	0.0250	25	05/01/2017 23:22	WG975624
Bromodichloromethane	U		0.00950	0.0250	25	05/01/2017 23:22	WG975624
Bromoform	U		0.0117	0.0250	25	05/01/2017 23:22	WG975624
Bromomethane	U	J4	0.0216	0.125	25	05/01/2017 23:22	WG975624
n-Butylbenzene	U		0.00902	0.0250	25	05/01/2017 23:22	WG975624



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.00912	0.0250	25	05/01/2017 23:22	WG975624
Carbon disulfide	U		0.00688	0.0250	25	05/01/2017 23:22	WG975624
Carbon tetrachloride	U		0.00948	0.0250	25	05/01/2017 23:22	WG975624
Chlorobenzene	U		0.00870	0.0250	25	05/01/2017 23:22	WG975624
Chlorodibromomethane	U		0.00818	0.0250	25	05/01/2017 23:22	WG975624
Chloroethane	U		0.0113	0.125	25	05/01/2017 23:22	WG975624
Chloroform	U		0.00810	0.125	25	05/01/2017 23:22	WG975624
Chloromethane	U		0.00690	0.0625	25	05/01/2017 23:22	WG975624
1,2-Dibromoethane	U		0.00952	0.0250	25	05/01/2017 23:22	WG975624
1,1-Dichloroethane	U		0.00648	0.0250	25	05/01/2017 23:22	WG975624
1,2-Dichloroethane	U		0.00902	0.0250	25	05/01/2017 23:22	WG975624
1,1-Dichloroethene	U		0.00995	0.0250	25	05/01/2017 23:22	WG975624
cis-1,2-Dichloroethene	U		0.00650	0.0250	25	05/01/2017 23:22	WG975624
trans-1,2-Dichloroethene	U		0.00990	0.0250	25	05/01/2017 23:22	WG975624
1,2-Dichloropropane	U		0.00765	0.0250	25	05/01/2017 23:22	WG975624
cis-1,3-Dichloropropene	U		0.0104	0.0250	25	05/01/2017 23:22	WG975624
trans-1,3-Dichloropropene	U		0.0105	0.0250	25	05/01/2017 23:22	WG975624
Ethylbenzene	U		0.00960	0.0250	25	05/01/2017 23:22	WG975624
Isopropylbenzene	0.0355		0.00815	0.0250	25	05/01/2017 23:22	WG975624
p-Isopropyltoluene	U		0.00875	0.0250	25	05/01/2017 23:22	WG975624
2-Butanone (MEK)	U		0.0982	0.250	25	05/01/2017 23:22	WG975624
2-Hexanone	U		0.0955	0.250	25	05/01/2017 23:22	WG975624
Methylene Chloride	U		0.0250	0.125	25	05/01/2017 23:22	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.0535	0.250	25	05/01/2017 23:22	WG975624
Methyl tert-butyl ether	U		0.00918	0.0250	25	05/01/2017 23:22	WG975624
Naphthalene	0.0422	U	0.0250	0.125	25	05/01/2017 23:22	WG975624
n-Propylbenzene	0.0491		0.00872	0.0250	25	05/01/2017 23:22	WG975624
Styrene	U		0.00768	0.0250	25	05/01/2017 23:22	WG975624
1,1,1,2-Tetrachloroethane	U		0.00962	0.0250	25	05/01/2017 23:22	WG975624
1,1,2,2-Tetrachloroethane	U		0.00325	0.0250	25	05/01/2017 23:22	WG975624
Tetrachloroethene	U		0.00930	0.0250	25	05/01/2017 23:22	WG975624
Toluene	U		0.0103	0.0250	25	05/01/2017 23:22	WG975624
1,1,1-Trichloroethane	U		0.00798	0.0250	25	05/01/2017 23:22	WG975624
1,1,2-Trichloroethane	U		0.00958	0.0250	25	05/01/2017 23:22	WG975624
Trichloroethene	U		0.00995	0.0250	25	05/01/2017 23:22	WG975624
1,2,4-Trimethylbenzene	0.148		0.00932	0.0250	25	05/01/2017 23:22	WG975624
1,3,5-Trimethylbenzene	0.0236	U	0.00968	0.0250	25	05/01/2017 23:22	WG975624
Vinyl chloride	U		0.00648	0.0250	25	05/01/2017 23:22	WG975624
o-Xylene	U		0.00852	0.0250	25	05/01/2017 23:22	WG975624
m&p-Xylene	0.326		0.0180	0.0500	25	05/01/2017 23:22	WG975624
Xylenes, Total	0.326		0.0265	0.0750	25	05/01/2017 23:22	WG975624
(S) Toluene-d8	105			80.0-120		05/01/2017 23:22	WG975624
(S) Dibromofluoromethane	107			76.0-123		05/01/2017 23:22	WG975624
(S) 4-Bromofluorobenzene	95.7			80.0-120		05/01/2017 23:22	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.89		0.124	0.500	5	05/04/2017 17:28	WG975551
(S) o-Terphenyl	104			31.0-160		05/04/2017 17:28	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2040		2.82	10.0	1	05/02/2017 16:52	WG975508

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 16:04	WG976257

Sample Narrative:

353.2 L905668-34 WG976257: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	517		2.60	50.0	50	05/03/2017 20:24	WG975912
Fluoride	1.74		0.00990	0.100	1	05/03/2017 20:08	WG975912
Sulfate	5.27		0.0774	5.00	1	05/03/2017 20:08	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00608		0.000250	0.00200	1	05/02/2017 03:52	WG975077
Arsenic,Dissolved	0.00644		0.000250	0.00200	1	05/05/2017 18:22	WG975068
Barium	9.82		0.000360	0.00500	1	05/02/2017 03:52	WG975077
Barium,Dissolved	9.68		0.000360	0.00500	1	05/05/2017 18:22	WG975068
Calcium	102		0.0460	1.00	1	05/02/2017 03:52	WG975077
Chromium	0.000789	J	0.000540	0.00200	1	05/02/2017 03:52	WG975077
Chromium,Dissolved	0.000654	J	0.000540	0.00200	1	05/05/2017 18:22	WG975068
Iron	0.0552	J	0.0150	0.100	1	05/02/2017 03:52	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:22	WG975068
Lead	0.00296		0.000240	0.00200	1	05/02/2017 03:52	WG975077
Lead,Dissolved	0.000731	J	0.000240	0.00200	1	05/04/2017 01:03	WG975068
Manganese	0.0653		0.000250	0.00500	1	05/02/2017 03:52	WG975077
Manganese,Dissolved	0.0673		0.000250	0.00500	1	05/05/2017 18:22	WG975068
Potassium	1.59		0.0370	1.00	1	05/02/2017 03:52	WG975077
Selenium	0.00287		0.000380	0.00200	1	05/02/2017 03:52	WG975077
Selenium,Dissolved	0.00330		0.000380	0.00200	1	05/05/2017 18:22	WG975068
Sodium	446		0.110	1.00	1	05/02/2017 03:52	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	29.1		0.157	0.500	5	05/08/2017 00:50	WG975303
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-122		05/08/2017 00:50	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/01/2017 23:44	WG975624
Benzene	8.49		0.0331	0.100	100	05/03/2017 20:34	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 23:44	WG975624
Bromoform	U		0.000469	0.00100	1	05/01/2017 23:44	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/01/2017 23:44	WG975624
n-Butylbenzene	0.0169		0.000361	0.00100	1	05/01/2017 23:44	WG975624



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.0190		0.000365	0.00100	1	05/01/2017 23:44	WG975624
Carbon disulfide	0.000448	U	0.000275	0.00100	1	05/01/2017 23:44	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 23:44	WG975624
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 23:44	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 23:44	WG975624
Chloroethane	U		0.000453	0.00500	1	05/01/2017 23:44	WG975624
Chloroform	U		0.000324	0.00500	1	05/01/2017 23:44	WG975624
Chloromethane	U		0.000276	0.00250	1	05/01/2017 23:44	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 23:44	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 23:44	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 23:44	WG975624
1,1-Dichloroethene	0.00103		0.000398	0.00100	1	05/01/2017 23:44	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 23:44	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 23:44	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 23:44	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 23:44	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 23:44	WG975624
Ethylbenzene	0.0958		0.000384	0.00100	1	05/01/2017 23:44	WG975624
Isopropylbenzene	0.144		0.000326	0.00100	1	05/01/2017 23:44	WG975624
p-Isopropyltoluene	0.000602	U	0.000350	0.00100	1	05/01/2017 23:44	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 23:44	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 23:44	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 23:44	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 23:44	WG975624
Methyl tert-butyl ether	0.0270		0.000367	0.00100	1	05/01/2017 23:44	WG975624
Naphthalene	0.190		0.00100	0.00500	1	05/01/2017 23:44	WG975624
n-Propylbenzene	0.137		0.0349	0.100	100	05/03/2017 20:34	WG975624
Styrene	U		0.000307	0.00100	1	05/01/2017 23:44	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 23:44	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 23:44	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 23:44	WG975624
Toluene	0.00243		0.000412	0.00100	1	05/01/2017 23:44	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 23:44	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 23:44	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 23:44	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 23:44	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 23:44	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 23:44	WG975624
o-Xylene	0.00188		0.000341	0.00100	1	05/01/2017 23:44	WG975624
m&p-Xylene	0.00361		0.000719	0.00200	1	05/01/2017 23:44	WG975624
Xylenes, Total	0.00549		0.00106	0.00300	1	05/01/2017 23:44	WG975624
(S) Toluene-d8	98.4			80.0-120		05/01/2017 23:44	WG975624
(S) Toluene-d8	102			80.0-120		05/03/2017 20:34	WG975624
(S) Dibromofluoromethane	92.0			76.0-123		05/01/2017 23:44	WG975624
(S) Dibromofluoromethane	97.3			76.0-123		05/03/2017 20:34	WG975624
(S) 4-Bromofluorobenzene	99.3			80.0-120		05/01/2017 23:44	WG975624
(S) 4-Bromofluorobenzene	99.6			80.0-120		05/03/2017 20:34	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.78		0.494	2.00	20	05/04/2017 17:45	WG975551
(S) o-Terphenyl	99.4	J7		31.0-160		05/04/2017 17:45	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3890		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 16:05	WG976257

Sample Narrative:

353.2 L905668-35 WG976257: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	271		2.60	50.0	50	05/04/2017 02:18	WG975912
Fluoride	2.60		0.00990	0.100	1	05/04/2017 02:03	WG975912
Sulfate	957		3.87	250	50	05/04/2017 02:18	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0135		0.000250	0.00200	1	05/02/2017 03:56	WG975077
Arsenic,Dissolved	0.0134		0.000250	0.00200	1	05/05/2017 18:26	WG975068
Barium	0.0192		0.000360	0.00500	1	05/02/2017 03:56	WG975077
Barium,Dissolved	0.0206		0.000360	0.00500	1	05/05/2017 18:26	WG975068
Calcium	84.0		0.0460	1.00	1	05/02/2017 03:56	WG975077
Chromium	0.00275		0.000540	0.00200	1	05/02/2017 03:56	WG975077
Chromium,Dissolved	0.000959	J	0.000540	0.00200	1	05/05/2017 18:26	WG975068
Iron	0.101		0.0150	0.100	1	05/02/2017 03:56	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:26	WG975068
Lead	0.00157	J	0.000240	0.00200	1	05/02/2017 03:56	WG975077
Lead,Dissolved	0.000354	J	0.000240	0.00200	1	05/05/2017 18:26	WG975068
Manganese	0.0113		0.000250	0.00500	1	05/02/2017 03:56	WG975077
Manganese,Dissolved	0.0120		0.000250	0.00500	1	05/05/2017 18:26	WG975068
Potassium	0.347	J	0.0370	1.00	1	05/02/2017 03:56	WG975077
Selenium	0.00268		0.000380	0.00200	1	05/02/2017 03:56	WG975077
Selenium,Dissolved	0.00316		0.000380	0.00200	1	05/05/2017 18:26	WG975068
Sodium	1260		1.10	10.0	10	05/02/2017 12:14	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	5.20		0.0314	0.100	1	05/08/2017 01:12	WG975303
(S) a,a,a-Trifluorotoluene(FID)	91.0			77.0-122		05/08/2017 01:12	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.100	0.500	10	05/02/2017 00:06	WG975624
Benzene	1.33		0.00331	0.0100	10	05/02/2017 00:06	WG975624
Bromodichloromethane	U		0.00380	0.0100	10	05/02/2017 00:06	WG975624
Bromoform	U		0.00469	0.0100	10	05/02/2017 00:06	WG975624
Bromomethane	U	J4	0.00866	0.0500	10	05/02/2017 00:06	WG975624
n-Butylbenzene	0.00439	J	0.00361	0.0100	10	05/02/2017 00:06	WG975624



Collected date/time: 04/26/17 19:20

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00878	U	0.00365	0.0100	10	05/02/2017 00:06	WG975624
Carbon disulfide	U		0.00275	0.0100	10	05/02/2017 00:06	WG975624
Carbon tetrachloride	U		0.00379	0.0100	10	05/02/2017 00:06	WG975624
Chlorobenzene	U		0.00348	0.0100	10	05/02/2017 00:06	WG975624
Chlorodibromomethane	U		0.00327	0.0100	10	05/02/2017 00:06	WG975624
Chloroethane	U		0.00453	0.0500	10	05/02/2017 00:06	WG975624
Chloroform	U		0.00324	0.0500	10	05/02/2017 00:06	WG975624
Chloromethane	U		0.00276	0.0250	10	05/02/2017 00:06	WG975624
1,2-Dibromoethane	U		0.00381	0.0100	10	05/02/2017 00:06	WG975624
1,1-Dichloroethane	U		0.00259	0.0100	10	05/02/2017 00:06	WG975624
1,2-Dichloroethane	U		0.00361	0.0100	10	05/02/2017 00:06	WG975624
1,1-Dichloroethene	U		0.00398	0.0100	10	05/02/2017 00:06	WG975624
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/02/2017 00:06	WG975624
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/02/2017 00:06	WG975624
1,2-Dichloropropane	U		0.00306	0.0100	10	05/02/2017 00:06	WG975624
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/02/2017 00:06	WG975624
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/02/2017 00:06	WG975624
Ethylbenzene	0.0284		0.00384	0.0100	10	05/02/2017 00:06	WG975624
Isopropylbenzene	0.0449		0.00326	0.0100	10	05/02/2017 00:06	WG975624
p-Isopropyltoluene	U		0.00350	0.0100	10	05/02/2017 00:06	WG975624
2-Butanone (MEK)	U		0.0393	0.100	10	05/02/2017 00:06	WG975624
2-Hexanone	U		0.0382	0.100	10	05/02/2017 00:06	WG975624
Methylene Chloride	U		0.0100	0.0500	10	05/02/2017 00:06	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/02/2017 00:06	WG975624
Methyl tert-butyl ether	0.00429	U	0.00367	0.0100	10	05/02/2017 00:06	WG975624
Naphthalene	0.0158	U	0.0100	0.0500	10	05/02/2017 00:06	WG975624
n-Propylbenzene	0.0579		0.00349	0.0100	10	05/02/2017 00:06	WG975624
Styrene	U		0.00307	0.0100	10	05/02/2017 00:06	WG975624
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/02/2017 00:06	WG975624
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/02/2017 00:06	WG975624
Tetrachloroethene	U		0.00372	0.0100	10	05/02/2017 00:06	WG975624
Toluene	0.0251		0.00412	0.0100	10	05/02/2017 00:06	WG975624
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/02/2017 00:06	WG975624
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/02/2017 00:06	WG975624
Trichloroethene	U		0.00398	0.0100	10	05/02/2017 00:06	WG975624
1,2,4-Trimethylbenzene	0.0710		0.00373	0.0100	10	05/02/2017 00:06	WG975624
1,3,5-Trimethylbenzene	0.00534	U	0.00387	0.0100	10	05/02/2017 00:06	WG975624
Vinyl chloride	U		0.00259	0.0100	10	05/02/2017 00:06	WG975624
o-Xylene	0.0454		0.00341	0.0100	10	05/02/2017 00:06	WG975624
m&p-Xylene	0.141		0.00719	0.0200	10	05/02/2017 00:06	WG975624
Xylenes, Total	0.186		0.0106	0.0300	10	05/02/2017 00:06	WG975624
(S) Toluene-d8	105			80.0-120		05/02/2017 00:06	WG975624
(S) Dibromofluoromethane	100			76.0-123		05/02/2017 00:06	WG975624
(S) 4-Bromofluorobenzene	98.6			80.0-120		05/02/2017 00:06	WG975624

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.81		0.124	0.500	5	05/06/2017 01:01	WG975551
(S) o-Terphenyl	79.0			31.0-160		05/06/2017 01:01	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2890		2.82	10.0	1	05/02/2017 16:52	WG975508

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 16:06	WG976257

Sample Narrative:

353.2 L905668-36 WG976257: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	328		2.60	50.0	50	05/03/2017 17:10	WG975912
Fluoride	0.936		0.00990	0.100	1	05/03/2017 16:54	WG975912
Sulfate	1200		3.87	250	50	05/03/2017 17:10	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00391		0.000250	0.00200	1	05/02/2017 03:59	WG975077
Arsenic,Dissolved	0.00393		0.000250	0.00200	1	05/05/2017 18:49	WG975068
Barium	0.0154		0.000360	0.00500	1	05/02/2017 03:59	WG975077
Barium,Dissolved	0.0145		0.000360	0.00500	1	05/05/2017 18:49	WG975068
Calcium	224		0.0460	1.00	1	05/02/2017 03:59	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:59	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 18:49	WG975068
Iron	0.0429	J	0.0150	0.100	1	05/02/2017 03:59	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:49	WG975068
Lead	0.000578	J	0.000240	0.00200	1	05/02/2017 03:59	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/04/2017 01:10	WG975068
Manganese	0.737		0.000250	0.00500	1	05/02/2017 03:59	WG975077
Manganese,Dissolved	0.790		0.000250	0.00500	1	05/05/2017 18:49	WG975068
Potassium	0.415	J	0.0370	1.00	1	05/02/2017 03:59	WG975077
Selenium	0.00229		0.000380	0.00200	1	05/02/2017 03:59	WG975077
Selenium,Dissolved	0.00126	J	0.000380	0.00200	1	05/05/2017 18:49	WG975068
Sodium	379		0.110	1.00	1	05/02/2017 03:59	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.249		0.0314	0.100	1	05/08/2017 01:34	WG975303
(S) a,a,a-Trifluorotoluene(FID) 96.1				77.0-122		05/08/2017 01:34	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/03/2017 20:47	WG975624
Benzene	0.00339		0.000331	0.00100	1	05/03/2017 20:47	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 20:47	WG975624
Bromoform	U		0.000469	0.00100	1	05/03/2017 20:47	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/03/2017 20:47	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 20:47	WG975624



Collected date/time: 04/26/17 18:25

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00499		0.000365	0.00100	1	05/03/2017 20:47	WG975624
Carbon disulfide	0.000318	J	0.000275	0.00100	1	05/03/2017 20:47	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 20:47	WG975624
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 20:47	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 20:47	WG975624
Chloroethane	U		0.000453	0.00500	1	05/03/2017 20:47	WG975624
Chloroform	U		0.000324	0.00500	1	05/03/2017 20:47	WG975624
Chloromethane	U		0.000276	0.00250	1	05/03/2017 20:47	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 20:47	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 20:47	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 20:47	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 20:47	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 20:47	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 20:47	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 20:47	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 20:47	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 20:47	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/03/2017 20:47	WG975624
Isopropylbenzene	0.0148		0.000326	0.00100	1	05/03/2017 20:47	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 20:47	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 20:47	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 20:47	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 20:47	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 20:47	WG975624
Methyl tert-butyl ether	0.00380		0.000367	0.00100	1	05/03/2017 20:47	WG975624
Naphthalene	U		0.00100	0.00500	1	05/03/2017 20:47	WG975624
n-Propylbenzene	0.000572	J	0.000349	0.00100	1	05/03/2017 20:47	WG975624
Styrene	U		0.000307	0.00100	1	05/03/2017 20:47	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 20:47	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 20:47	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 20:47	WG975624
Toluene	U		0.000412	0.00100	1	05/03/2017 20:47	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 20:47	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 20:47	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 20:47	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/03/2017 20:47	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 20:47	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 20:47	WG975624
o-Xylene	U		0.000341	0.00100	1	05/03/2017 20:47	WG975624
m&p-Xylene	U		0.000719	0.00200	1	05/03/2017 20:47	WG975624
Xylenes, Total	U		0.00106	0.00300	1	05/03/2017 20:47	WG975624
(S) Toluene-d8	103			80.0-120		05/03/2017 20:47	WG975624
(S) Dibromofluoromethane	100			76.0-123		05/03/2017 20:47	WG975624
(S) 4-Bromofluorobenzene	102			80.0-120		05/03/2017 20:47	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.58		0.124	0.500	5	05/06/2017 02:07	WG975551
(S) o-Terphenyl	69.0			31.0-160		05/06/2017 02:07	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3410		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.416	J P1	0.197	1.00	10	05/04/2017 16:08	WG976257

Sample Narrative:

353.2 L905668-37 WG976257: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	406		2.60	50.0	50	05/03/2017 18:51	WG975912
Fluoride	0.831		0.00990	0.100	1	05/03/2017 18:36	WG975912
Sulfate	1100		3.87	250	50	05/03/2017 18:51	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00486		0.000250	0.00200	1	05/02/2017 04:03	WG975077
Arsenic,Dissolved	0.00487		0.000250	0.00200	1	05/05/2017 18:53	WG975068
Barium	0.0182		0.000360	0.00500	1	05/02/2017 04:03	WG975077
Barium,Dissolved	0.0179		0.000360	0.00500	1	05/05/2017 18:53	WG975068
Calcium	222		0.0460	1.00	1	05/02/2017 04:03	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 04:03	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 18:53	WG975068
Iron	U		0.0150	0.100	1	05/02/2017 04:03	WG975077
Iron,Dissolved	0.0328	J	0.0150	0.100	1	05/05/2017 18:53	WG975068
Lead	0.000252	J	0.000240	0.00200	1	05/02/2017 04:03	WG975077
Lead,Dissolved	0.000254	J	0.000240	0.00200	1	05/04/2017 01:14	WG975068
Manganese	0.177		0.000250	0.00500	1	05/02/2017 04:03	WG975077
Manganese,Dissolved	0.180		0.000250	0.00500	1	05/05/2017 18:53	WG975068
Potassium	0.421	J	0.0370	1.00	1	05/02/2017 04:03	WG975077
Selenium	0.00222		0.000380	0.00200	1	05/02/2017 04:03	WG975077
Selenium,Dissolved	0.00156	J	0.000380	0.00200	1	05/05/2017 18:53	WG975068
Sodium	462		0.110	1.00	1	05/02/2017 04:03	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.262		0.0314	0.100	1	05/01/2017 02:17	WG975303
(S) a,a,a-Trifluorotoluene(FID) 90.6				77.0-122		05/01/2017 02:17	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 00:49	WG975624
Benzene	0.0240		0.000331	0.00100	1	05/02/2017 00:49	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 00:49	WG975624
Bromoform	U		0.000469	0.00100	1	05/02/2017 00:49	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/02/2017 00:49	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 00:49	WG975624



Collected date/time: 04/26/17 16:25

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00553		0.000365	0.00100	1	05/02/2017 00:49	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 00:49	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 00:49	WG975624
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 00:49	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 00:49	WG975624
Chloroethane	U		0.000453	0.00500	1	05/02/2017 00:49	WG975624
Chloroform	U		0.000324	0.00500	1	05/02/2017 00:49	WG975624
Chloromethane	U		0.000276	0.00250	1	05/02/2017 00:49	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 00:49	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 00:49	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 00:49	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 00:49	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 00:49	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 00:49	WG975624
1,2-Dichloropropane	0.000951	J	0.000306	0.00100	1	05/02/2017 00:49	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 00:49	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 00:49	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 00:49	WG975624
Isopropylbenzene	0.0278		0.000326	0.00100	1	05/02/2017 00:49	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 00:49	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 00:49	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 00:49	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 00:49	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 00:49	WG975624
Methyl tert-butyl ether	0.0104		0.000367	0.00100	1	05/02/2017 00:49	WG975624
Naphthalene	U		0.00100	0.00500	1	05/02/2017 00:49	WG975624
n-Propylbenzene	0.00355		0.000349	0.00100	1	05/02/2017 00:49	WG975624
Styrene	U		0.000307	0.00100	1	05/02/2017 00:49	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 00:49	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 00:49	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 00:49	WG975624
Toluene	0.000845	J	0.000412	0.00100	1	05/02/2017 00:49	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 00:49	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 00:49	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 00:49	WG975624
1,2,4-Trimethylbenzene	0.00352		0.000373	0.00100	1	05/02/2017 00:49	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 00:49	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 00:49	WG975624
o-Xylene	U		0.000341	0.00100	1	05/02/2017 00:49	WG975624
m&p-Xylene	0.00365		0.000719	0.00200	1	05/02/2017 00:49	WG975624
Xylenes, Total	0.00365		0.00106	0.00300	1	05/02/2017 00:49	WG975624
(S) Toluene-d8	104			80.0-120		05/02/2017 00:49	WG975624
(S) Dibromofluoromethane	107			76.0-123		05/02/2017 00:49	WG975624
(S) 4-Bromofluorobenzene	94.7			80.0-120		05/02/2017 00:49	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.41		0.124	0.500	5	05/04/2017 16:54	WG975551
(S) o-Terphenyl	72.5			31.0-160		05/04/2017 16:54	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3670		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:05	WG975897

Sample Narrative:

353.2 L905668-38 WG975897: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	268		2.60	50.0	50	05/03/2017 20:54	WG975912
Fluoride	0.642		0.00990	0.100	1	05/03/2017 20:39	WG975912
Sulfate	1790		3.87	250	50	05/03/2017 20:54	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000518	<u>J</u>	0.000250	0.00200	1	05/02/2017 02:42	WG975077
Arsenic,Dissolved	0.000531	<u>J</u>	0.000250	0.00200	1	05/05/2017 17:29	WG975068
Barium	0.0156		0.000360	0.00500	1	05/02/2017 02:42	WG975077
Barium,Dissolved	0.0173		0.000360	0.00500	1	05/05/2017 17:29	WG975068
Calcium	412	<u>V</u>	0.0460	1.00	1	05/02/2017 02:42	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 02:42	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 17:29	WG975068
Iron	0.0276	<u>J</u>	0.0150	0.100	1	05/02/2017 02:42	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 17:29	WG975068
Lead	U		0.000240	0.00200	1	05/02/2017 02:42	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 17:29	WG975068
Manganese	0.436	<u>V</u>	0.000250	0.00500	1	05/02/2017 02:42	WG975077
Manganese,Dissolved	0.451	<u>V</u>	0.000250	0.00500	1	05/05/2017 17:29	WG975068
Potassium	0.745	<u>J</u>	0.0370	1.00	1	05/02/2017 02:42	WG975077
Selenium	U		0.000380	0.00200	1	05/02/2017 02:42	WG975077
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 17:29	WG975068
Sodium	178	<u>V</u>	0.110	1.00	1	05/02/2017 02:42	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 02:39	WG975303
(S) a,a,a-Trifluorotoluene(FID) 99.8				77.0-122		05/01/2017 02:39	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 01:10	WG975624
Benzene	0.000616	<u>J</u>	0.000331	0.00100	1	05/02/2017 01:10	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 01:10	WG975624
Bromoform	U		0.000469	0.00100	1	05/02/2017 01:10	WG975624
Bromomethane	U	<u>J4</u>	0.000866	0.00500	1	05/02/2017 01:10	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 01:10	WG975624



Collected date/time: 04/26/17 17:25

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 01:10	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 01:10	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 01:10	WG975624
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 01:10	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 01:10	WG975624
Chloroethane	U		0.000453	0.00500	1	05/02/2017 01:10	WG975624
Chloroform	U		0.000324	0.00500	1	05/02/2017 01:10	WG975624
Chloromethane	U		0.000276	0.00250	1	05/02/2017 01:10	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 01:10	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 01:10	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 01:10	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 01:10	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 01:10	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 01:10	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 01:10	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 01:10	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 01:10	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 01:10	WG975624
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 01:10	WG975624
p-Isopropyltoluene	0.00281		0.000350	0.00100	1	05/02/2017 01:10	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 01:10	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 01:10	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 01:10	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 01:10	WG975624
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 01:10	WG975624
Naphthalene	U		0.00100	0.00500	1	05/02/2017 01:10	WG975624
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 01:10	WG975624
Styrene	U		0.000307	0.00100	1	05/02/2017 01:10	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 01:10	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 01:10	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 01:10	WG975624
Toluene	U		0.000412	0.00100	1	05/02/2017 01:10	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 01:10	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 01:10	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 01:10	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 01:10	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 01:10	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 01:10	WG975624
o-Xylene	U		0.000341	0.00100	1	05/02/2017 01:10	WG975624
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 01:10	WG975624
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 01:10	WG975624
(S) Toluene-d8	104			80.0-120		05/02/2017 01:10	WG975624
(S) Dibromofluoromethane	107			76.0-123		05/02/2017 01:10	WG975624
(S) 4-Bromofluorobenzene	96.8			80.0-120		05/02/2017 01:10	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.857		0.0247	0.100	1	05/03/2017 01:27	WG975551
(S) o-Terphenyl	77.2			31.0-160		05/03/2017 01:27	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5030		2.82	10.0	1	05/02/2017 16:52	WG975508

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	2.20		0.197	1.00	10	05/04/2017 14:07	WG975897

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	291		2.60	50.0	50	05/03/2017 21:56	WG975912
Fluoride	4.90		0.00990	0.100	1	05/03/2017 21:41	WG975912
Sulfate	2740		3.87	250	50	05/03/2017 21:56	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0129		0.000250	0.00200	1	05/02/2017 04:06	WG975077
Arsenic,Dissolved	0.0133		0.000250	0.00200	1	05/05/2017 18:56	WG975068
Barium	0.0126		0.000360	0.00500	1	05/02/2017 04:06	WG975077
Barium,Dissolved	0.0126		0.000360	0.00500	1	05/05/2017 18:56	WG975068
Calcium	499		0.0460	1.00	1	05/02/2017 04:06	WG975077
Chromium	0.00108	J	0.000540	0.00200	1	05/02/2017 04:06	WG975077
Chromium,Dissolved	0.000989	J	0.000540	0.00200	1	05/05/2017 18:56	WG975068
Iron	0.0227	J	0.0150	0.100	1	05/02/2017 04:06	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:56	WG975068
Lead	0.00125	J	0.000240	0.00200	1	05/02/2017 04:06	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/04/2017 01:17	WG975068
Manganese	0.263		0.000250	0.00500	1	05/02/2017 04:06	WG975077
Manganese,Dissolved	0.264		0.000250	0.00500	1	05/05/2017 18:56	WG975068
Potassium	0.832	J	0.0370	1.00	1	05/02/2017 04:06	WG975077
Selenium	0.00658		0.000380	0.00200	1	05/02/2017 04:06	WG975077
Selenium,Dissolved	0.00535		0.000380	0.00200	1	05/05/2017 18:56	WG975068
Sodium	372		0.110	1.00	1	05/02/2017 04:06	WG975077

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 01:32	WG975624
Benzene	U		0.000331	0.00100	1	05/02/2017 01:32	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 01:32	WG975624
Bromoform	U		0.000469	0.00100	1	05/02/2017 01:32	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/02/2017 01:32	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 01:32	WG975624
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 01:32	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 01:32	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 01:32	WG975624
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 01:32	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 01:32	WG975624
Chloroethane	U		0.000453	0.00500	1	05/02/2017 01:32	WG975624
Chloroform	U		0.000324	0.00500	1	05/02/2017 01:32	WG975624
Chloromethane	U		0.000276	0.00250	1	05/02/2017 01:32	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 01:32	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 01:32	WG975624



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 01:32	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 01:32	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 01:32	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 01:32	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 01:32	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 01:32	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 01:32	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 01:32	WG975624
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 01:32	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 01:32	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 01:32	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 01:32	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 01:32	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 01:32	WG975624
Methyl tert-butyl ether	0.0152		0.000367	0.00100	1	05/02/2017 01:32	WG975624
Naphthalene	U		0.00100	0.00500	1	05/02/2017 01:32	WG975624
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 01:32	WG975624
Styrene	U		0.000307	0.00100	1	05/02/2017 01:32	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 01:32	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 01:32	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 01:32	WG975624
Toluene	U		0.000412	0.00100	1	05/02/2017 01:32	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 01:32	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 01:32	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 01:32	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 01:32	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 01:32	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 01:32	WG975624
o-Xylene	U		0.000341	0.00100	1	05/02/2017 01:32	WG975624
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 01:32	WG975624
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 01:32	WG975624
(S) Toluene-d8	104			80.0-120		05/02/2017 01:32	WG975624
(S) Dibromofluoromethane	110			76.0-123		05/02/2017 01:32	WG975624
(S) 4-Bromofluorobenzene	96.1			80.0-120		05/02/2017 01:32	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.08		0.0247	0.100	1	05/03/2017 01:44	WG975551
(S) o-Terphenyl	73.3			31.0-160		05/03/2017 01:44	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2660		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:08	WG975897

Sample Narrative:

353.2 L905668-40 WG975897: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	196		2.60	50.0	50	05/03/2017 22:27	WG975912
Fluoride	0.874		0.00990	0.100	1	05/03/2017 22:11	WG975912
Sulfate	85.7		0.0774	5.00	1	05/05/2017 14:16	WG976618

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0170		0.000250	0.00200	1	05/02/2017 04:09	WG975077
Arsenic,Dissolved	0.0106		0.000250	0.00200	1	05/05/2017 19:00	WG975068
Barium	0.873		0.000360	0.00500	1	05/02/2017 04:09	WG975077
Barium,Dissolved	0.771		0.000360	0.00500	1	05/05/2017 19:00	WG975068
Calcium	95.6		0.0460	1.00	1	05/02/2017 04:09	WG975077
Chromium	0.00141	J	0.000540	0.00200	1	05/02/2017 04:09	WG975077
Chromium,Dissolved	0.00124	J	0.000540	0.00200	1	05/05/2017 19:00	WG975068
Iron	0.134		0.0150	0.100	1	05/02/2017 04:09	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 19:00	WG975068
Lead	0.000298	J	0.000240	0.00200	1	05/02/2017 04:09	WG975077
Lead,Dissolved	0.000343	J	0.000240	0.00200	1	05/04/2017 01:21	WG975068
Manganese	0.00382	J	0.000250	0.00500	1	05/02/2017 04:09	WG975077
Manganese,Dissolved	0.00235	J	0.000250	0.00500	1	05/05/2017 19:00	WG975068
Potassium	0.331	J	0.0370	1.00	1	05/02/2017 04:09	WG975077
Selenium	0.00304		0.000380	0.00200	1	05/02/2017 04:09	WG975077
Selenium,Dissolved	0.00973		0.000380	0.00200	1	05/05/2017 19:00	WG975068
Sodium	427		0.110	1.00	1	05/02/2017 04:09	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	10.2		0.0314	0.100	1	05/08/2017 01:57	WG975303
(S) a,a,a-Trifluorotoluene(FID) 94.7				77.0-122		05/08/2017 01:57	WG975303

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.250	1.25	25	05/03/2017 21:00	WG975624
Benzene	0.284		0.00828	0.0250	25	05/03/2017 21:00	WG975624
Bromodichloromethane	U		0.00950	0.0250	25	05/03/2017 21:00	WG975624
Bromoform	U		0.0117	0.0250	25	05/03/2017 21:00	WG975624
Bromomethane	U	J4	0.0216	0.125	25	05/03/2017 21:00	WG975624
n-Butylbenzene	0.0553		0.00902	0.0250	25	05/03/2017 21:00	WG975624



Collected date/time: 04/26/17 14:20

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.0317		0.00912	0.0250	25	05/03/2017 21:00	WG975624
Carbon disulfide	0.0101	U	0.00688	0.0250	25	05/03/2017 21:00	WG975624
Carbon tetrachloride	U		0.00948	0.0250	25	05/03/2017 21:00	WG975624
Chlorobenzene	U		0.00870	0.0250	25	05/03/2017 21:00	WG975624
Chlorodibromomethane	U		0.00818	0.0250	25	05/03/2017 21:00	WG975624
Chloroethane	U		0.0113	0.125	25	05/03/2017 21:00	WG975624
Chloroform	U		0.00810	0.125	25	05/03/2017 21:00	WG975624
Chloromethane	U		0.00690	0.0625	25	05/03/2017 21:00	WG975624
1,2-Dibromoethane	U		0.00952	0.0250	25	05/03/2017 21:00	WG975624
1,1-Dichloroethane	U		0.00648	0.0250	25	05/03/2017 21:00	WG975624
1,2-Dichloroethane	U		0.00902	0.0250	25	05/03/2017 21:00	WG975624
1,1-Dichloroethene	U		0.00995	0.0250	25	05/03/2017 21:00	WG975624
cis-1,2-Dichloroethene	U		0.00650	0.0250	25	05/03/2017 21:00	WG975624
trans-1,2-Dichloroethene	U		0.00990	0.0250	25	05/03/2017 21:00	WG975624
1,2-Dichloropropane	U		0.00765	0.0250	25	05/03/2017 21:00	WG975624
cis-1,3-Dichloropropene	U		0.0104	0.0250	25	05/03/2017 21:00	WG975624
trans-1,3-Dichloropropene	U		0.0105	0.0250	25	05/03/2017 21:00	WG975624
Ethylbenzene	0.432		0.00960	0.0250	25	05/03/2017 21:00	WG975624
Isopropylbenzene	0.0621		0.00815	0.0250	25	05/03/2017 21:00	WG975624
p-Isopropyltoluene	0.0477		0.00875	0.0250	25	05/03/2017 21:00	WG975624
2-Butanone (MEK)	U		0.0982	0.250	25	05/03/2017 21:00	WG975624
2-Hexanone	U		0.0955	0.250	25	05/03/2017 21:00	WG975624
Methylene Chloride	U		0.0250	0.125	25	05/03/2017 21:00	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.0535	0.250	25	05/03/2017 21:00	WG975624
Methyl tert-butyl ether	0.958		0.00918	0.0250	25	05/03/2017 21:00	WG975624
Naphthalene	0.174		0.0250	0.125	25	05/03/2017 21:00	WG975624
n-Propylbenzene	0.0909		0.00872	0.0250	25	05/03/2017 21:00	WG975624
Styrene	U		0.00768	0.0250	25	05/03/2017 21:00	WG975624
1,1,1,2-Tetrachloroethane	U		0.00962	0.0250	25	05/03/2017 21:00	WG975624
1,1,2,2-Tetrachloroethane	U		0.00325	0.0250	25	05/03/2017 21:00	WG975624
Tetrachloroethene	U		0.00930	0.0250	25	05/03/2017 21:00	WG975624
Toluene	0.435		0.0103	0.0250	25	05/03/2017 21:00	WG975624
1,1,1-Trichloroethane	U		0.00798	0.0250	25	05/03/2017 21:00	WG975624
1,1,2-Trichloroethane	U		0.00958	0.0250	25	05/03/2017 21:00	WG975624
Trichloroethene	U		0.00995	0.0250	25	05/03/2017 21:00	WG975624
1,2,4-Trimethylbenzene	0.398		0.00932	0.0250	25	05/03/2017 21:00	WG975624
1,3,5-Trimethylbenzene	0.0785		0.00968	0.0250	25	05/03/2017 21:00	WG975624
Vinyl chloride	U		0.00648	0.0250	25	05/03/2017 21:00	WG975624
o-Xylene	0.292		0.00852	0.0250	25	05/03/2017 21:00	WG975624
m&p-Xylene	0.168		0.0180	0.0500	25	05/03/2017 21:00	WG975624
Xylenes, Total	0.460		0.0265	0.0750	25	05/03/2017 21:00	WG975624
(S) Toluene-d8	103			80.0-120		05/03/2017 21:00	WG975624
(S) Dibromofluoromethane	101			76.0-123		05/03/2017 21:00	WG975624
(S) 4-Bromofluorobenzene	100			80.0-120		05/03/2017 21:00	WG975624

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.96		0.124	0.500	5	05/04/2017 16:37	WG975551
(S) o-Terphenyl	101			31.0-160		05/04/2017 16:37	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2010		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:09	WG975897

Sample Narrative:

353.2 L905668-41 WG975897: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.0900	0.250	50	05/02/2017 11:06	WG975005

Wet Chemistry by Method 9056A

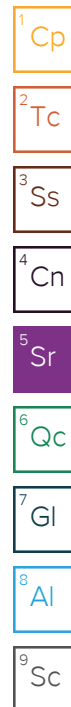
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	393		2.60	50.0	50	05/04/2017 01:47	WG975912
Fluoride	0.570		0.00990	0.100	1	05/04/2017 01:32	WG975912
Sulfate	275		3.87	250	50	05/04/2017 01:47	WG975912

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 16:58	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:53	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0147		0.000250	0.00200	1	05/02/2017 04:13	WG975077
Arsenic,Dissolved	0.0163		0.000250	0.00200	1	05/05/2017 19:03	WG975068
Barium	0.137		0.000360	0.00500	1	05/02/2017 04:13	WG975077
Barium,Dissolved	0.118		0.000360	0.00500	1	05/05/2017 19:03	WG975068
Boron	0.435		0.00150	0.0200	1	05/02/2017 13:14	WG975077
Boron,Dissolved	0.436		0.00150	0.0200	1	05/03/2017 23:46	WG975068
Cadmium	U		0.000160	0.00100	1	05/02/2017 04:13	WG975077
Cadmium,Dissolved	U		0.000160	0.00100	1	05/05/2017 19:03	WG975068
Calcium	199		0.0460	1.00	1	05/02/2017 04:13	WG975077
Chromium	0.000612	J	0.000540	0.00200	1	05/02/2017 04:13	WG975077
Chromium,Dissolved	0.000587	J	0.000540	0.00200	1	05/05/2017 19:03	WG975068
Cobalt	U		0.000260	0.00200	1	05/02/2017 04:13	WG975077
Cobalt,Dissolved	U		0.000260	0.00200	1	05/05/2017 19:03	WG975068
Iron	0.0312	J	0.0150	0.100	1	05/02/2017 04:13	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 19:03	WG975068
Lead	0.00155	J	0.000240	0.00200	1	05/02/2017 04:13	WG975077
Lead,Dissolved	0.000542	J	0.000240	0.00200	1	05/03/2017 23:46	WG975068
Manganese	0.0878		0.000250	0.00500	1	05/02/2017 04:13	WG975077
Manganese,Dissolved	0.0910		0.000250	0.00500	1	05/05/2017 19:03	WG975068
Nickel	0.000780	J	0.000350	0.00200	1	05/02/2017 04:13	WG975077
Nickel,Dissolved	0.00158	J	0.000350	0.00200	1	05/05/2017 19:03	WG975068
Potassium	0.565	J	0.0370	1.00	1	05/02/2017 04:13	WG975077





Collected date/time: 04/26/17 16:15

L905668

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	0.00230		0.000380	0.00200	1	05/02/2017 04:13	WG975077
Selenium,Dissolved	0.00205		0.000380	0.00200	1	05/05/2017 19:03	WG975068
Sodium	229		0.110	1.00	1	05/02/2017 04:13	WG975077
Uranium	U		0.000330	0.0100	1	05/02/2017 04:13	WG975077
Uranium,Dissolved	U		0.000330	0.0100	1	05/03/2017 23:46	WG975068
Vanadium	0.00124	<u>BJ</u>	0.000180	0.00500	1	05/02/2017 04:13	WG975077
Vanadium,Dissolved	0.000929	<u>BJ</u>	0.000180	0.00500	1	05/05/2017 19:03	WG975068

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.77		0.0314	0.100	1	05/09/2017 07:15	WG975304
(S) a,a,a-Trifluorotoluene(FID)	97.1			77.0-122		05/09/2017 07:15	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0500	0.250	5	05/03/2017 19:04	WG975625
Benzene	0.191		0.00166	0.00500	5	05/03/2017 19:04	WG975625
Bromodichloromethane	U		0.00190	0.00500	5	05/03/2017 19:04	WG975625
Bromoform	U		0.00234	0.00500	5	05/03/2017 19:04	WG975625
Bromomethane	U		0.00433	0.0250	5	05/03/2017 19:04	WG975625
n-Butylbenzene	0.00516		0.00180	0.00500	5	05/03/2017 19:04	WG975625
sec-Butylbenzene	0.00859		0.00182	0.00500	5	05/03/2017 19:04	WG975625
Carbon disulfide	0.00144	<u>U</u>	0.00138	0.00500	5	05/03/2017 19:04	WG975625
Carbon tetrachloride	U		0.00190	0.00500	5	05/03/2017 19:04	WG975625
Chlorobenzene	U		0.00174	0.00500	5	05/03/2017 19:04	WG975625
Chlorodibromomethane	U		0.00164	0.00500	5	05/03/2017 19:04	WG975625
Chloroethane	U		0.00226	0.0250	5	05/03/2017 19:04	WG975625
Chloroform	U		0.00162	0.0250	5	05/03/2017 19:04	WG975625
Chloromethane	U		0.00138	0.0125	5	05/03/2017 19:04	WG975625
1,2-Dibromoethane	U		0.00190	0.00500	5	05/03/2017 19:04	WG975625
1,1-Dichloroethane	U		0.00130	0.00500	5	05/03/2017 19:04	WG975625
1,2-Dichloroethane	U		0.00180	0.00500	5	05/03/2017 19:04	WG975625
1,1-Dichloroethene	U		0.00199	0.00500	5	05/03/2017 19:04	WG975625
cis-1,2-Dichloroethene	0.00265	<u>U</u>	0.00130	0.00500	5	05/03/2017 19:04	WG975625
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	05/03/2017 19:04	WG975625
1,2-Dichloropropane	U		0.00153	0.00500	5	05/03/2017 19:04	WG975625
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	05/03/2017 19:04	WG975625
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	05/03/2017 19:04	WG975625
Ethylbenzene	0.0128		0.00192	0.00500	5	05/03/2017 19:04	WG975625
Isopropylbenzene	0.0361		0.00163	0.00500	5	05/03/2017 19:04	WG975625
p-Isopropyltoluene	0.00186	<u>U</u>	0.00175	0.00500	5	05/03/2017 19:04	WG975625
2-Butanone (MEK)	U		0.0196	0.0500	5	05/03/2017 19:04	WG975625
2-Hexanone	U		0.0191	0.0500	5	05/03/2017 19:04	WG975625
Methylene Chloride	U		0.00500	0.0250	5	05/03/2017 19:04	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	05/03/2017 19:04	WG975625
Methyl tert-butyl ether	0.195		0.00184	0.00500	5	05/03/2017 19:04	WG975625
Naphthalene	0.00571	<u>U</u>	0.00500	0.0250	5	05/03/2017 19:04	WG975625
n-Propylbenzene	0.0225		0.00174	0.00500	5	05/03/2017 19:04	WG975625
Styrene	U		0.00154	0.00500	5	05/03/2017 19:04	WG975625
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	05/03/2017 19:04	WG975625
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	05/03/2017 19:04	WG975625
Tetrachloroethene	U		0.00186	0.00500	5	05/03/2017 19:04	WG975625
Toluene	0.00361	<u>U</u>	0.00206	0.00500	5	05/03/2017 19:04	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.00160	0.00500	5	05/03/2017 19:04	WG975625
1,1,2-Trichloroethane	U		0.00192	0.00500	5	05/03/2017 19:04	WG975625
Trichloroethene	U		0.00199	0.00500	5	05/03/2017 19:04	WG975625
1,2,4-Trimethylbenzene	0.00498	J	0.00186	0.00500	5	05/03/2017 19:04	WG975625
1,3,5-Trimethylbenzene	U		0.00194	0.00500	5	05/03/2017 19:04	WG975625
Vinyl chloride	U		0.00130	0.00500	5	05/03/2017 19:04	WG975625
o-Xylene	U		0.00170	0.00500	5	05/03/2017 19:04	WG975625
m&p-Xylene	0.0121		0.00360	0.0100	5	05/03/2017 19:04	WG975625
Xylenes, Total	0.0121	J	0.00530	0.0150	5	05/03/2017 19:04	WG975625
(S) Toluene-d8	104			80.0-120		05/03/2017 19:04	WG975625
(S) Dibromofluoromethane	100			76.0-123		05/03/2017 19:04	WG975625
(S) 4-Bromofluorobenzene	98.8			80.0-120		05/03/2017 19:04	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.40		0.124	0.500	5	05/04/2017 16:03	WG975551
(S) o-Terphenyl	71.0			31.0-160		05/04/2017 16:03	WG975551

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1710		2.82	10.0	1	05/02/2017 16:52	WG975508

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:14	WG975897

Sample Narrative:

353.2 L905668-42 WG975897: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	349		2.60	50.0	50	05/03/2017 22:58	WG975912
Fluoride	0.868		0.00990	0.100	1	05/03/2017 22:42	WG975912
Sulfate	420		3.87	250	50	05/03/2017 22:58	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00173	J	0.000250	0.00200	1	05/04/2017 10:54	WG975078
Arsenic,Dissolved	0.00162	J	0.000250	0.00200	1	05/05/2017 19:07	WG975068
Barium	0.0612		0.000360	0.00500	1	05/04/2017 10:54	WG975078
Barium,Dissolved	0.0592		0.000360	0.00500	1	05/05/2017 19:07	WG975068
Calcium	203	V	0.0460	1.00	1	05/04/2017 10:54	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 10:54	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 19:07	WG975068
Iron	U		0.0150	0.100	1	05/04/2017 10:54	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 19:07	WG975068
Lead	U		0.000240	0.00200	1	05/04/2017 10:54	WG975078
Lead,Dissolved	0.000323	J	0.000240	0.00200	1	05/04/2017 11:28	WG975068
Manganese	0.0330		0.000250	0.00500	1	05/04/2017 10:54	WG975078
Manganese,Dissolved	0.0285		0.000250	0.00500	1	05/05/2017 19:07	WG975068
Potassium	0.730	J	0.0370	1.00	1	05/04/2017 10:54	WG975078
Selenium	0.000407	J	0.000380	0.00200	1	05/04/2017 10:54	WG975078
Selenium,Dissolved	0.00164	J	0.000380	0.00200	1	05/05/2017 19:07	WG975068
Sodium	194	V	0.110	1.00	1	05/04/2017 10:54	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.0826	J	0.0314	0.100	1	04/30/2017 22:13	WG975304
(S) a,a,a-Trifluorotoluene(FID) 97.6				77.0-122		04/30/2017 22:13	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 04:49	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 04:49	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 04:49	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 04:49	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 04:49	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 04:49	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00240		0.000365	0.00100	1	05/02/2017 04:49	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 04:49	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 04:49	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 04:49	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 04:49	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 04:49	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 04:49	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 04:49	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 04:49	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 04:49	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 04:49	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 04:49	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 04:49	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 04:49	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 04:49	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 04:49	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 04:49	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 04:49	WG975625
Isopropylbenzene	0.0114		0.000326	0.00100	1	05/02/2017 04:49	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 04:49	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 04:49	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 04:49	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 04:49	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 04:49	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 04:49	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 04:49	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 04:49	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 04:49	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 04:49	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 04:49	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 04:49	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 04:49	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 04:49	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 04:49	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 04:49	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 04:49	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 04:49	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 04:49	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 04:49	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 04:49	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 04:49	WG975625
(S) Toluene-d8	104			80.0-120		05/02/2017 04:49	WG975625
(S) Dibromofluoromethane	108			76.0-123		05/02/2017 04:49	WG975625
(S) 4-Bromofluorobenzene	95.4			80.0-120		05/02/2017 04:49	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.96		0.124	0.500	5	05/06/2017 02:24	WG975551
(S) o-Terphenyl	79.0			31.0-160		05/06/2017 02:24	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1740		2.82	10.0	1	05/02/2017 17:49	WG975509

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:15	WG975897

Sample Narrative:

353.2 L905668-43 WG975897: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	204		2.60	50.0	50	05/03/2017 23:44	WG975912
Fluoride	0.513		0.00990	0.100	1	05/03/2017 23:29	WG975912
Sulfate	693		3.87	250	50	05/03/2017 23:44	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00332		0.000250	0.00200	1	05/04/2017 11:08	WG975078
Arsenic,Dissolved	0.00273		0.000250	0.00200	1	05/05/2017 19:10	WG975068
Barium	0.0198		0.000360	0.00500	1	05/04/2017 11:08	WG975078
Barium,Dissolved	0.0191		0.000360	0.00500	1	05/05/2017 19:10	WG975068
Calcium	266		0.0460	1.00	1	05/04/2017 11:08	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:08	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 19:10	WG975068
Iron	0.183		0.0150	0.100	1	05/04/2017 11:08	WG975078
Iron,Dissolved	0.0228	J	0.0150	0.100	1	05/05/2017 19:10	WG975068
Lead	U		0.000240	0.00200	1	05/04/2017 11:08	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/04/2017 01:28	WG975068
Manganese	1.13		0.000250	0.00500	1	05/04/2017 11:08	WG975078
Manganese,Dissolved	1.12		0.000250	0.00500	1	05/05/2017 19:10	WG975068
Potassium	0.922	J	0.0370	1.00	1	05/04/2017 11:08	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:08	WG975078
Selenium,Dissolved	0.00142	J	0.000380	0.00200	1	05/05/2017 19:10	WG975068
Sodium	105		0.110	1.00	1	05/04/2017 11:08	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 22:35	WG975304
(S) a,a,a-Trifluorotoluene(FID) 97.6				77.0-122		04/30/2017 22:35	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	0.0100	J	0.0100	0.0500	1	05/02/2017 05:11	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 05:11	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:11	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:11	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:11	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:11	WG975625



Collected date/time: 04/26/17 13:35

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:11	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:11	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:11	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:11	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:11	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:11	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:11	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:11	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:11	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:11	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 05:11	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:11	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:11	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:11	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:11	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:11	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:11	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:11	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:11	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:11	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:11	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:11	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:11	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:11	WG975625
Methyl tert-butyl ether	0.0325		0.000367	0.00100	1	05/02/2017 05:11	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:11	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:11	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 05:11	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:11	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:11	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:11	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 05:11	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:11	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:11	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:11	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:11	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:11	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:11	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:11	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:11	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:11	WG975625
(S) Toluene-d8	104			80.0-120		05/02/2017 05:11	WG975625
(S) Dibromofluoromethane	108			76.0-123		05/02/2017 05:11	WG975625
(S) 4-Bromofluorobenzene	94.3			80.0-120		05/02/2017 05:11	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.15		0.0247	0.100	1	05/03/2017 02:01	WG975551
(S) o-Terphenyl	76.7			31.0-160		05/03/2017 02:01	WG975551



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4820		2.82	10.0	1	05/02/2017 17:49	WG975509

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	3.33		0.197	1.00	10	05/04/2017 14:17	WG975897

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	398		2.60	50.0	50	05/04/2017 00:46	WG975912
Fluoride	2.61		0.00990	0.100	1	05/04/2017 00:30	WG975912
Sulfate	2950		3.87	250	50	05/04/2017 00:46	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0113		0.000250	0.00200	1	05/04/2017 11:12	WG975078
Arsenic,Dissolved	0.0109		0.000250	0.00200	1	05/05/2017 19:13	WG975068
Barium	0.0223		0.000360	0.00500	1	05/04/2017 11:12	WG975078
Barium,Dissolved	0.0213		0.000360	0.00500	1	05/05/2017 19:13	WG975068
Calcium	568		0.0460	1.00	1	05/04/2017 11:12	WG975078
Chromium	0.000584	J	0.000540	0.00200	1	05/04/2017 11:12	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 19:13	WG975068
Iron	0.0569	J	0.0150	0.100	1	05/04/2017 11:12	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 19:13	WG975068
Lead	0.0106		0.000240	0.00200	1	05/04/2017 11:12	WG975078
Lead,Dissolved	0.00763		0.000240	0.00200	1	05/04/2017 01:31	WG975068
Manganese	0.719		0.000250	0.00500	1	05/04/2017 11:12	WG975078
Manganese,Dissolved	0.711		0.000250	0.00500	1	05/05/2017 19:13	WG975068
Potassium	4.02		0.0370	1.00	1	05/04/2017 11:12	WG975078
Selenium	0.0106		0.000380	0.00200	1	05/04/2017 11:12	WG975078
Selenium,Dissolved	0.00945		0.000380	0.00200	1	05/05/2017 19:13	WG975068
Sodium	306		0.110	1.00	1	05/04/2017 11:12	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0622	J	0.0314	0.100	1	04/30/2017 22:57	WG975304
(S) <i>a,a,a</i> -Trifluorotoluene(FID) 96.9				77.0-122		04/30/2017 22:57	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 05:33	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 05:33	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:33	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:33	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:33	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:33	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:33	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:33	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:33	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:33	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:33	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:33	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:33	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:33	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:33	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:33	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 05:33	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:33	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:33	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:33	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:33	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:33	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:33	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:33	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:33	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:33	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:33	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:33	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:33	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:33	WG975625
Methyl tert-butyl ether	0.189		0.000367	0.00100	1	05/02/2017 05:33	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:33	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:33	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 05:33	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:33	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:33	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:33	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 05:33	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:33	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:33	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:33	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:33	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:33	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:33	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:33	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:33	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:33	WG975625
(S) Toluene-d8	105			80.0-120		05/02/2017 05:33	WG975625
(S) Dibromofluoromethane	107			76.0-123		05/02/2017 05:33	WG975625
(S) 4-Bromofluorobenzene	93.6			80.0-120		05/02/2017 05:33	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.57		0.0247	0.100	1	05/02/2017 12:39	WG975552
(S) o-Terphenyl	66.9			31.0-160		05/02/2017 12:39	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	4120		2.82	10.0	1	05/02/2017 17:49	WG975509

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	4.03		0.197	1.00	10	05/04/2017 14:18	WG975897

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	470		2.60	50.0	50	05/03/2017 13:40	WG975914
Fluoride	0.902		0.00990	0.100	1	05/03/2017 13:17	WG975914
Sulfate	3170		3.87	250	50	05/03/2017 13:40	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00464		0.000250	0.00200	1	05/04/2017 11:30	WG975078
Arsenic,Dissolved	0.00466		0.000250	0.00200	1	05/02/2017 21:09	WG975069
Barium	0.00877		0.000360	0.00500	1	05/04/2017 11:30	WG975078
Barium,Dissolved	0.00895		0.000360	0.00500	1	05/02/2017 21:09	WG975069
Calcium	527		0.0460	1.00	1	05/04/2017 11:30	WG975078
Chromium	0.000611	J	0.000540	0.00200	1	05/04/2017 11:30	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 21:09	WG975069
Iron	U		0.0150	0.100	1	05/04/2017 11:30	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 21:09	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:30	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 21:09	WG975069
Manganese	0.00808		0.000250	0.00500	1	05/04/2017 11:30	WG975078
Manganese,Dissolved	0.00835		0.000250	0.00500	1	05/02/2017 21:09	WG975069
Potassium	1.61		0.0370	1.00	1	05/04/2017 11:30	WG975078
Selenium	0.00572		0.000380	0.00200	1	05/04/2017 11:30	WG975078
Selenium,Dissolved	0.00588	B	0.000380	0.00200	1	05/02/2017 21:09	WG975069
Sodium	269		0.110	1.00	1	05/04/2017 11:30	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 23:20	WG975304
(S) a,a,a-Trifluorotoluene(FID) 95.0				77.0-122		04/30/2017 23:20	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 05:56	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 05:56	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:56	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:56	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:56	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:56	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:56	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:56	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:56	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:56	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:56	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:56	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:56	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:56	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:56	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:56	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 05:56	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:56	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:56	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:56	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:56	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:56	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:56	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:56	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:56	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:56	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:56	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:56	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:56	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:56	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 05:56	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:56	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:56	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 05:56	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:56	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:56	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:56	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 05:56	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:56	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:56	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:56	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:56	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:56	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:56	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:56	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:56	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:56	WG975625
(S) Toluene-d8	105			80.0-120		05/02/2017 05:56	WG975625
(S) Dibromofluoromethane	107			76.0-123		05/02/2017 05:56	WG975625
(S) 4-Bromofluorobenzene	92.9			80.0-120		05/02/2017 05:56	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0738	J	0.0247	0.100	1	05/02/2017 16:16	WG975552
(S) o-Terphenyl	57.6			31.0-160		05/02/2017 16:16	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3520		2.82	10.0	1	05/02/2017 17:49	WG975509

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	7.57		0.197	1.00	10	05/04/2017 14:19	WG975897

⁶ Qc

⁷ Gl

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 11:07	WG975005

⁸ Al

⁹ Sc

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	146		2.60	50.0	50	05/03/2017 13:51	WG975914
Fluoride	0.310		0.00990	0.100	1	05/03/2017 13:28	WG975914
Sulfate	2980		3.87	250	50	05/03/2017 13:51	WG975914

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:00	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:55	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00167	J	0.000250	0.00200	1	05/04/2017 11:34	WG975078
Arsenic,Dissolved	0.00152	J	0.000250	0.00200	1	05/02/2017 22:04	WG975069
Barium	0.00968		0.000360	0.00500	1	05/04/2017 11:34	WG975078
Barium,Dissolved	0.00889		0.000360	0.00500	1	05/02/2017 22:04	WG975069
Boron	0.558		0.00150	0.0200	1	05/04/2017 11:34	WG975078
Boron,Dissolved	0.507		0.00150	0.0200	1	05/02/2017 22:04	WG975069
Cadmium	U		0.000160	0.00100	1	05/04/2017 11:34	WG975078
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 22:04	WG975069
Calcium	556		0.0460	1.00	1	05/04/2017 11:34	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:34	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:04	WG975069
Cobalt	U		0.000260	0.00200	1	05/04/2017 11:34	WG975078
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 22:04	WG975069
Iron	0.0486	J	0.0150	0.100	1	05/04/2017 11:34	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:04	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:34	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:04	WG975069
Manganese	0.00129	J	0.000250	0.00500	1	05/04/2017 11:34	WG975078
Manganese,Dissolved	0.00235	J	0.000250	0.00500	1	05/02/2017 22:04	WG975069
Nickel	0.000513	B J	0.000350	0.00200	1	05/04/2017 11:34	WG975078
Nickel,Dissolved	U		0.000350	0.00200	1	05/02/2017 22:04	WG975069
Potassium	0.720	J	0.0370	1.00	1	05/04/2017 11:34	WG975078
Selenium	0.00356		0.000380	0.00200	1	05/04/2017 11:34	WG975078
Selenium,Dissolved	0.00405	B	0.000380	0.00200	1	05/02/2017 22:04	WG975069
Sodium	149		0.110	1.00	1	05/04/2017 11:34	WG975078



Collected date/time: 04/26/17 08:00

L905668

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0307		0.000330	0.0100	1	05/04/2017 11:34	WG975078
Uranium,Dissolved	0.0290		0.000330	0.0100	1	05/02/2017 22:04	WG975069
Vanadium	0.0127		0.000180	0.00500	1	05/04/2017 11:34	WG975078
Vanadium,Dissolved	0.0124		0.000180	0.00500	1	05/02/2017 22:04	WG975069

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 23:42	WG975304
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.5			77.0-122		04/30/2017 23:42	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 06:18	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 06:18	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 06:18	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 06:18	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 06:18	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 06:18	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 06:18	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 06:18	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 06:18	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 06:18	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 06:18	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 06:18	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 06:18	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 06:18	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 06:18	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 06:18	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 06:18	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 06:18	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 06:18	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 06:18	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 06:18	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 06:18	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 06:18	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 06:18	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 06:18	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 06:18	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 06:18	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 06:18	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 06:18	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 06:18	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 06:18	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 06:18	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 06:18	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 06:18	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 06:18	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 06:18	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 06:18	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 06:18	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 06:18	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 06:18	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 06:18	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 06:18	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 06:18	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 06:18	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 06:18	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 06:18	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 06:18	WG975625
(S) Toluene-d8	104			80.0-120		05/02/2017 06:18	WG975625
(S) Dibromofluoromethane	108			76.0-123		05/02/2017 06:18	WG975625
(S) 4-Bromofluorobenzene	93.1			80.0-120		05/02/2017 06:18	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/02/2017 13:13	WG975552
(S) o-Terphenyl	53.5			31.0-160		05/02/2017 13:13	WG975552

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	9.00	J	2.82	10.0	1	05/02/2017 17:49	WG975509

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:20	WG975897

Sample Narrative:

353.2 L905668-47 WG975897: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.365	J P1	0.0519	1.00	1	05/03/2017 14:03	WG975914
Fluoride	U		0.00990	0.100	1	05/03/2017 14:03	WG975914
Sulfate	U		0.0774	5.00	1	05/03/2017 14:03	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/04/2017 11:37	WG975078
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 22:38	WG975069
Barium	U		0.000360	0.00500	1	05/04/2017 11:37	WG975078
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 22:38	WG975069
Calcium	U		0.0460	1.00	1	05/04/2017 11:37	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:37	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:38	WG975069
Iron	U		0.0150	0.100	1	05/04/2017 11:37	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:38	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:37	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:38	WG975069
Manganese	0.000775	J	0.000250	0.00500	1	05/04/2017 11:37	WG975078
Manganese,Dissolved	U		0.000250	0.00500	1	05/02/2017 22:38	WG975069
Potassium	U		0.0370	1.00	1	05/04/2017 11:37	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:37	WG975078
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 22:38	WG975069
Sodium	0.260	J	0.110	1.00	1	05/04/2017 11:37	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 00:04	WG975304
(S) a,a,a-Trifluorotoluene(FID) 95.8				77.0-122		05/01/2017 00:04	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 06:39	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 06:39	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 06:39	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 06:39	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 06:39	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 06:39	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 06:39	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 06:39	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 06:39	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 06:39	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 06:39	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 06:39	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 06:39	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 06:39	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 06:39	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 06:39	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 06:39	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 06:39	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 06:39	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 06:39	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 06:39	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 06:39	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 06:39	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 06:39	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 06:39	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 06:39	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 06:39	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 06:39	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 06:39	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 06:39	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 06:39	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 06:39	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 06:39	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 06:39	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 06:39	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 06:39	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 06:39	WG975625
Toluene	0.000639	J	0.000412	0.00100	1	05/02/2017 06:39	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 06:39	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 06:39	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 06:39	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 06:39	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 06:39	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 06:39	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 06:39	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 06:39	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 06:39	WG975625
(S) Toluene-d8	104			80.0-120		05/02/2017 06:39	WG975625
(S) Dibromofluoromethane	108			76.0-123		05/02/2017 06:39	WG975625
(S) 4-Bromofluorobenzene	93.0			80.0-120		05/02/2017 06:39	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/02/2017 13:29	WG975552
(S) o-Terphenyl	62.4			31.0-160		05/02/2017 13:29	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9.00	J	2.82	10.0	1	05/02/2017 17:49	WG975509

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:27	WG975897

Sample Narrative:

353.2 L905668-48 WG975897: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 11:08	WG975005

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.326	J	0.0519	1.00	1	05/03/2017 14:50	WG975914
Fluoride	U		0.00990	0.100	1	05/03/2017 14:50	WG975914
Sulfate	U		0.0774	5.00	1	05/03/2017 14:50	WG975914

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:03	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:57	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000250	0.00200	1	05/04/2017 11:41	WG975078
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 22:07	WG975069
Barium	U		0.000360	0.00500	1	05/04/2017 11:41	WG975078
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 22:07	WG975069
Boron	0.0331		0.00150	0.0200	1	05/04/2017 11:41	WG975078
Boron,Dissolved	0.00688	J	0.00150	0.0200	1	05/02/2017 22:07	WG975069
Cadmium	U		0.000160	0.00100	1	05/04/2017 11:41	WG975078
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 22:07	WG975069
Calcium	U		0.0460	1.00	1	05/04/2017 11:41	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:41	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:07	WG975069
Cobalt	U		0.000260	0.00200	1	05/04/2017 11:41	WG975078
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 22:07	WG975069
Iron	U		0.0150	0.100	1	05/04/2017 11:41	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:07	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:41	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:07	WG975069
Manganese	U		0.000250	0.00500	1	05/04/2017 11:41	WG975078
Manganese,Dissolved	0.00103	J	0.000250	0.00500	1	05/02/2017 22:07	WG975069
Nickel	U		0.000350	0.00200	1	05/04/2017 11:41	WG975078
Nickel,Dissolved	U		0.000350	0.00200	1	05/02/2017 22:07	WG975069
Potassium	U		0.0370	1.00	1	05/04/2017 11:41	WG975078



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	U		0.000380	0.00200	1	05/04/2017 11:41	WG975078
Selenium,Dissolved	0.000473	B J	0.000380	0.00200	1	05/02/2017 22:07	WG975069
Sodium	0.123	J	0.110	1.00	1	05/04/2017 11:41	WG975078
Uranium	U		0.000330	0.0100	1	05/04/2017 11:41	WG975078
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 22:07	WG975069
Vanadium	0.000575	J	0.000180	0.00500	1	05/04/2017 11:41	WG975078
Vanadium,Dissolved	0.000229	B J	0.000180	0.00500	1	05/02/2017 22:07	WG975069

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 00:26	WG975304
(S) a,a,a-Trifluorotoluene(FID)	95.6			77.0-122		05/01/2017 00:26	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 07:02	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 07:02	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 07:02	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 07:02	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 07:02	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 07:02	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 07:02	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 07:02	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 07:02	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 07:02	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 07:02	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 07:02	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 07:02	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 07:02	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 07:02	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 07:02	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 07:02	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 07:02	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 07:02	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 07:02	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 07:02	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 07:02	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 07:02	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 07:02	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 07:02	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 07:02	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 07:02	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 07:02	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 07:02	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 07:02	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 07:02	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 07:02	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 07:02	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 07:02	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 07:02	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 07:02	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 07:02	WG975625
Toluene	0.000723	J	0.000412	0.00100	1	05/02/2017 07:02	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 07:02	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 07:02	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 07:02	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 07:02	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 07:02	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 07:02	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 07:02	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 07:02	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 07:02	WG975625
(S) Toluene-d8	106			80.0-120		05/02/2017 07:02	WG975625
(S) Dibromofluoromethane	109			76.0-123		05/02/2017 07:02	WG975625
(S) 4-Bromofluorobenzene	94.8			80.0-120		05/02/2017 07:02	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/02/2017 13:46	WG975552
(S) o-Terphenyl	59.2			31.0-160		05/02/2017 13:46	WG975552

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 04:05	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 04:05	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 04:05	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 04:05	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 04:05	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 04:05	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 04:05	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 04:05	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 04:05	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 04:05	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 04:05	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 04:05	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 04:05	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 04:05	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 04:05	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 04:05	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 04:05	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 04:05	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 04:05	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 04:05	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 04:05	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 04:05	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 04:05	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 04:05	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 04:05	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 04:05	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 04:05	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 04:05	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 04:05	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 04:05	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 04:05	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 04:05	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 04:05	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 04:05	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 04:05	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 04:05	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 04:05	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 04:05	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 04:05	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 04:05	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 04:05	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 04:05	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 04:05	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 04:05	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 04:05	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 04:05	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 04:05	WG975625
(S) Toluene-d8	104			80.0-120		05/02/2017 04:05	WG975625
(S) Dibromofluoromethane	109			76.0-123		05/02/2017 04:05	WG975625
(S) 4-Bromofluorobenzene	93.2			80.0-120		05/02/2017 04:05	WG975625

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2260		2.82	10.0	1	05/03/2017 14:04	WG975909

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.27		0.197	1.00	10	05/04/2017 14:28	WG975897

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.00180	0.00500	1	05/02/2017 11:09	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	154		0.519	10.0	10	05/05/2017 13:36	WG976618
Fluoride	1.65		0.00990	0.100	1	05/03/2017 15:13	WG975914
Sulfate	1060		1.55	100	20	05/03/2017 16:00	WG975914

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:05	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:59	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00368		0.000250	0.00200	1	05/04/2017 11:45	WG975078
Arsenic,Dissolved	0.00361		0.000250	0.00200	1	05/02/2017 22:11	WG975069
Barium	0.0101		0.000360	0.00500	1	05/04/2017 11:45	WG975078
Barium,Dissolved	0.0106		0.000360	0.00500	1	05/02/2017 22:11	WG975069
Boron	0.702		0.00150	0.0200	1	05/04/2017 11:45	WG975078
Boron,Dissolved	0.639		0.00150	0.0200	1	05/02/2017 22:11	WG975069
Cadmium	U		0.000160	0.00100	1	05/04/2017 11:45	WG975078
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 22:11	WG975069
Calcium	181		0.0460	1.00	1	05/04/2017 11:45	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:45	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:11	WG975069
Cobalt	0.000503	I	0.000260	0.00200	1	05/04/2017 11:45	WG975078
Cobalt,Dissolved	0.000377	I	0.000260	0.00200	1	05/02/2017 22:11	WG975069
Iron	0.0447	I	0.0150	0.100	1	05/04/2017 11:45	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:11	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:45	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:11	WG975069
Manganese	0.0659		0.000250	0.00500	1	05/04/2017 11:45	WG975078
Manganese,Dissolved	0.0420		0.000250	0.00500	1	05/02/2017 22:11	WG975069
Nickel	0.00798		0.000350	0.00200	1	05/04/2017 11:45	WG975078
Nickel,Dissolved	0.00519		0.000350	0.00200	1	05/02/2017 22:11	WG975069
Potassium	0.283	I	0.0370	1.00	1	05/04/2017 11:45	WG975078
Selenium	0.00178	I	0.000380	0.00200	1	05/04/2017 11:45	WG975078
Selenium,Dissolved	0.00222	B	0.000380	0.00200	1	05/02/2017 22:11	WG975069
Sodium	297		0.110	1.00	1	05/04/2017 11:45	WG975078



Collected date/time: 04/27/17 08:55

L905668

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00976	U	0.000330	0.0100	1	05/04/2017 11:45	WG975078
Uranium,Dissolved	0.00963	U	0.000330	0.0100	1	05/02/2017 22:11	WG975069
Vanadium	0.0269		0.000180	0.00500	1	05/04/2017 11:45	WG975078
Vanadium,Dissolved	0.0269		0.000180	0.00500	1	05/02/2017 22:11	WG975069

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 00:49	WG975304
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-122		05/01/2017 00:49	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 07:24	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 07:24	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 07:24	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 07:24	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 07:24	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 07:24	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 07:24	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 07:24	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 07:24	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 07:24	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 07:24	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 07:24	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 07:24	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 07:24	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 07:24	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 07:24	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 07:24	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 07:24	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 07:24	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 07:24	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 07:24	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 07:24	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 07:24	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 07:24	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 07:24	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 07:24	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 07:24	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 07:24	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 07:24	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 07:24	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 07:24	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 07:24	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 07:24	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 07:24	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 07:24	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 07:24	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 07:24	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 07:24	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 07:24	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 07:24	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 07:24	WG975625

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 04/27/17 08:55

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 07:24	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 07:24	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 07:24	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 07:24	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 07:24	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 07:24	WG975625
(S) Toluene-d8	106			80.0-120		05/02/2017 07:24	WG975625
(S) Dibromofluoromethane	108			76.0-123		05/02/2017 07:24	WG975625
(S) 4-Bromofluorobenzene	96.0			80.0-120		05/02/2017 07:24	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.271		0.0247	0.100	1	05/02/2017 14:03	WG975552
(S) o-Terphenyl	65.0			31.0-160		05/02/2017 14:03	WG975552

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2700		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:29	WG975897

Sample Narrative:

353.2 L905668-51 WG975897: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	195		2.60	50.0	50	05/03/2017 16:11	WG975914
Fluoride	1.99		0.00990	0.100	1	05/03/2017 15:25	WG975914
Sulfate	1040		3.87	250	50	05/03/2017 16:11	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00176	J	0.000250	0.00200	1	05/04/2017 11:48	WG975078
Arsenic,Dissolved	0.00306		0.000250	0.00200	1	05/02/2017 22:41	WG975069
Barium	0.0479		0.000360	0.00500	1	05/04/2017 11:48	WG975078
Barium,Dissolved	0.0336		0.000360	0.00500	1	05/02/2017 22:41	WG975069
Calcium	200		0.0460	1.00	1	05/04/2017 11:48	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:48	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:41	WG975069
Iron	0.0422	J	0.0150	0.100	1	05/04/2017 11:48	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:41	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:48	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:41	WG975069
Manganese	0.0425		0.000250	0.00500	1	05/04/2017 11:48	WG975078
Manganese,Dissolved	0.0728		0.000250	0.00500	1	05/02/2017 22:41	WG975069
Potassium	1.03		0.0370	1.00	1	05/04/2017 11:48	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:48	WG975078
Selenium,Dissolved	0.000878	B J	0.000380	0.00200	1	05/02/2017 22:41	WG975069
Sodium	394		0.110	1.00	1	05/04/2017 11:48	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	5.26		0.0314	0.100	1	05/09/2017 07:37	WG975304
(S) a,a,a-Trifluorotoluene(FID) 91.8				77.0-122		05/09/2017 07:37	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.100	0.500	10	05/02/2017 07:47	WG975625
Benzene	1.25		0.00331	0.0100	10	05/02/2017 07:47	WG975625
Bromodichloromethane	U		0.00380	0.0100	10	05/02/2017 07:47	WG975625
Bromoform	U		0.00469	0.0100	10	05/02/2017 07:47	WG975625
Bromomethane	U		0.00866	0.0500	10	05/02/2017 07:47	WG975625
n-Butylbenzene	0.00378	J	0.00361	0.0100	10	05/02/2017 07:47	WG975625



Collected date/time: 04/27/17 09:40

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00698	U	0.00365	0.0100	10	05/02/2017 07:47	WG975625
Carbon disulfide	U		0.00275	0.0100	10	05/02/2017 07:47	WG975625
Carbon tetrachloride	U		0.00379	0.0100	10	05/02/2017 07:47	WG975625
Chlorobenzene	U		0.00348	0.0100	10	05/02/2017 07:47	WG975625
Chlorodibromomethane	U		0.00327	0.0100	10	05/02/2017 07:47	WG975625
Chloroethane	U		0.00453	0.0500	10	05/02/2017 07:47	WG975625
Chloroform	U		0.00324	0.0500	10	05/02/2017 07:47	WG975625
Chloromethane	U		0.00276	0.0250	10	05/02/2017 07:47	WG975625
1,2-Dibromoethane	U		0.00381	0.0100	10	05/02/2017 07:47	WG975625
1,1-Dichloroethane	U		0.00259	0.0100	10	05/02/2017 07:47	WG975625
1,2-Dichloroethane	U		0.00361	0.0100	10	05/02/2017 07:47	WG975625
1,1-Dichloroethene	U		0.00398	0.0100	10	05/02/2017 07:47	WG975625
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/02/2017 07:47	WG975625
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/02/2017 07:47	WG975625
1,2-Dichloropropane	U		0.00306	0.0100	10	05/02/2017 07:47	WG975625
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/02/2017 07:47	WG975625
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/02/2017 07:47	WG975625
Ethylbenzene	0.00980	U	0.00384	0.0100	10	05/02/2017 07:47	WG975625
Isopropylbenzene	0.0536		0.00326	0.0100	10	05/02/2017 07:47	WG975625
p-Isopropyltoluene	U		0.00350	0.0100	10	05/02/2017 07:47	WG975625
2-Butanone (MEK)	U		0.0393	0.100	10	05/02/2017 07:47	WG975625
2-Hexanone	U		0.0382	0.100	10	05/02/2017 07:47	WG975625
Methylene Chloride	U		0.0100	0.0500	10	05/02/2017 07:47	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/02/2017 07:47	WG975625
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/02/2017 07:47	WG975625
Naphthalene	U		0.0100	0.0500	10	05/02/2017 07:47	WG975625
n-Propylbenzene	0.0569		0.00349	0.0100	10	05/02/2017 07:47	WG975625
Styrene	U		0.00307	0.0100	10	05/02/2017 07:47	WG975625
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/02/2017 07:47	WG975625
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/02/2017 07:47	WG975625
Tetrachloroethene	U		0.00372	0.0100	10	05/02/2017 07:47	WG975625
Toluene	0.0172		0.00412	0.0100	10	05/02/2017 07:47	WG975625
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/02/2017 07:47	WG975625
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/02/2017 07:47	WG975625
Trichloroethene	U		0.00398	0.0100	10	05/02/2017 07:47	WG975625
1,2,4-Trimethylbenzene	0.00751	U	0.00373	0.0100	10	05/02/2017 07:47	WG975625
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/02/2017 07:47	WG975625
Vinyl chloride	U		0.00259	0.0100	10	05/02/2017 07:47	WG975625
o-Xylene	U		0.00341	0.0100	10	05/02/2017 07:47	WG975625
m&p-Xylene	0.0272		0.00719	0.0200	10	05/02/2017 07:47	WG975625
Xylenes, Total	0.0272	U	0.0106	0.0300	10	05/02/2017 07:47	WG975625
(S) Toluene-d8	105			80.0-120		05/02/2017 07:47	WG975625
(S) Dibromofluoromethane	100			76.0-123		05/02/2017 07:47	WG975625
(S) 4-Bromofluorobenzene	93.4			80.0-120		05/02/2017 07:47	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.78		0.0247	0.100	1	05/02/2017 14:19	WG975552
(S) o-Terphenyl	85.1			31.0-160		05/02/2017 14:19	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1330		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:30	WG975897

Sample Narrative:

353.2 L905668-52 WG975897: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	135		1.04	20.0	20	05/03/2017 16:24	WG975914
Fluoride	1.45		0.00990	0.100	1	05/03/2017 15:36	WG975914
Sulfate	387		1.55	100	20	05/03/2017 16:24	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00529		0.000250	0.00200	1	05/04/2017 11:52	WG975078
Arsenic,Dissolved	0.00401		0.000250	0.00200	1	05/02/2017 22:45	WG975069
Barium	0.0571		0.000360	0.00500	1	05/04/2017 11:52	WG975078
Barium,Dissolved	0.0567		0.000360	0.00500	1	05/02/2017 22:45	WG975069
Calcium	120		0.0460	1.00	1	05/04/2017 11:52	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:52	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:45	WG975069
Iron	0.229		0.0150	0.100	1	05/04/2017 11:52	WG975078
Iron,Dissolved	0.0716	J	0.0150	0.100	1	05/02/2017 22:45	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:52	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:45	WG975069
Manganese	0.510		0.000250	0.00500	1	05/04/2017 11:52	WG975078
Manganese,Dissolved	0.545		0.000250	0.00500	1	05/02/2017 22:45	WG975069
Potassium	0.207	J	0.0370	1.00	1	05/04/2017 11:52	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:52	WG975078
Selenium,Dissolved	0.000559	B J	0.000380	0.00200	1	05/02/2017 22:45	WG975069
Sodium	265		0.110	1.00	1	05/04/2017 11:52	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	2.69		0.0314	0.100	1	05/09/2017 08:00	WG975304
(S) a,a,a-Trifluorotoluene(FID) 93.1				77.0-122		05/09/2017 08:00	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0500	0.250	5	05/02/2017 08:09	WG975625
Benzene	0.299		0.00166	0.00500	5	05/02/2017 08:09	WG975625
Bromodichloromethane	U		0.00190	0.00500	5	05/02/2017 08:09	WG975625
Bromoform	U		0.00234	0.00500	5	05/02/2017 08:09	WG975625
Bromomethane	U		0.00433	0.0250	5	05/02/2017 08:09	WG975625
n-Butylbenzene	0.00474	J	0.00180	0.00500	5	05/02/2017 08:09	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00963		0.00182	0.00500	5	05/02/2017 08:09	WG975625
Carbon disulfide	U		0.00138	0.00500	5	05/02/2017 08:09	WG975625
Carbon tetrachloride	U		0.00190	0.00500	5	05/02/2017 08:09	WG975625
Chlorobenzene	U		0.00174	0.00500	5	05/02/2017 08:09	WG975625
Chlorodibromomethane	U		0.00164	0.00500	5	05/02/2017 08:09	WG975625
Chloroethane	U		0.00226	0.0250	5	05/02/2017 08:09	WG975625
Chloroform	0.00406	U	0.00162	0.0250	5	05/02/2017 08:09	WG975625
Chloromethane	U		0.00138	0.0125	5	05/02/2017 08:09	WG975625
1,2-Dibromoethane	U		0.00190	0.00500	5	05/02/2017 08:09	WG975625
1,1-Dichloroethane	U		0.00130	0.00500	5	05/02/2017 08:09	WG975625
1,2-Dichloroethane	U		0.00180	0.00500	5	05/02/2017 08:09	WG975625
1,1-Dichloroethene	U		0.00199	0.00500	5	05/02/2017 08:09	WG975625
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	05/02/2017 08:09	WG975625
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	05/02/2017 08:09	WG975625
1,2-Dichloropropane	U		0.00153	0.00500	5	05/02/2017 08:09	WG975625
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	05/02/2017 08:09	WG975625
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	05/02/2017 08:09	WG975625
Ethylbenzene	0.0262		0.00192	0.00500	5	05/02/2017 08:09	WG975625
Isopropylbenzene	0.0536		0.00163	0.00500	5	05/02/2017 08:09	WG975625
p-Isopropyltoluene	0.00412	U	0.00175	0.00500	5	05/02/2017 08:09	WG975625
2-Butanone (MEK)	U		0.0196	0.0500	5	05/02/2017 08:09	WG975625
2-Hexanone	U		0.0191	0.0500	5	05/02/2017 08:09	WG975625
Methylene Chloride	U		0.00500	0.0250	5	05/02/2017 08:09	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	05/02/2017 08:09	WG975625
Methyl tert-butyl ether	U		0.00184	0.00500	5	05/02/2017 08:09	WG975625
Naphthalene	U		0.00500	0.0250	5	05/02/2017 08:09	WG975625
n-Propylbenzene	0.0589		0.00174	0.00500	5	05/02/2017 08:09	WG975625
Styrene	U		0.00154	0.00500	5	05/02/2017 08:09	WG975625
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	05/02/2017 08:09	WG975625
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	05/02/2017 08:09	WG975625
Tetrachloroethene	U		0.00186	0.00500	5	05/02/2017 08:09	WG975625
Toluene	0.00378	U	0.00206	0.00500	5	05/02/2017 08:09	WG975625
1,1,1-Trichloroethane	U		0.00160	0.00500	5	05/02/2017 08:09	WG975625
1,1,2-Trichloroethane	U		0.00192	0.00500	5	05/02/2017 08:09	WG975625
Trichloroethene	U		0.00199	0.00500	5	05/02/2017 08:09	WG975625
1,2,4-Trimethylbenzene	0.0193		0.00186	0.00500	5	05/02/2017 08:09	WG975625
1,3,5-Trimethylbenzene	U		0.00194	0.00500	5	05/02/2017 08:09	WG975625
Vinyl chloride	U		0.00130	0.00500	5	05/02/2017 08:09	WG975625
o-Xylene	U		0.00170	0.00500	5	05/02/2017 08:09	WG975625
m&p-Xylene	0.0161		0.00360	0.0100	5	05/02/2017 08:09	WG975625
Xylenes, Total	0.0161		0.00530	0.0150	5	05/02/2017 08:09	WG975625
(S) Toluene-d8	104			80.0-120		05/02/2017 08:09	WG975625
(S) Dibromofluoromethane	103			76.0-123		05/02/2017 08:09	WG975625
(S) 4-Bromofluorobenzene	93.0			80.0-120		05/02/2017 08:09	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.53		0.0247	0.100	1	05/02/2017 14:36	WG975552
(S) o-Terphenyl	106			31.0-160		05/02/2017 14:36	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2420	<u>J3</u>	2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:31	WG975897

Sample Narrative:

353.2 L905668-53 WG975897: Dilution due to matrix

Wet Chemistry by Method 9056A

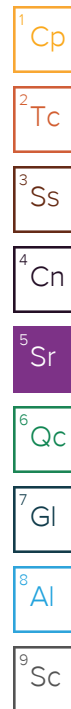
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	189		2.60	50.0	50	05/03/2017 16:35	WG975914
Fluoride	0.623		0.00990	0.100	1	05/03/2017 15:48	WG975914
Sulfate	1740		3.87	250	50	05/03/2017 16:35	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000503	<u>J</u>	0.000250	0.00200	1	05/04/2017 11:55	WG975078
Arsenic,Dissolved	0.000617	<u>J</u>	0.000250	0.00200	1	05/02/2017 22:48	WG975069
Barium	0.0409		0.000360	0.00500	1	05/04/2017 11:55	WG975078
Barium,Dissolved	0.0410		0.000360	0.00500	1	05/02/2017 22:48	WG975069
Calcium	392		0.0460	1.00	1	05/04/2017 11:55	WG975078
Chromium	0.0359		0.000540	0.00200	1	05/04/2017 11:55	WG975078
Chromium,Dissolved	0.0230		0.000540	0.00200	1	05/02/2017 22:48	WG975069
Iron	0.241		0.0150	0.100	1	05/04/2017 11:55	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:48	WG975069
Lead	0.00193	<u>J</u>	0.000240	0.00200	1	05/04/2017 11:55	WG975078
Lead,Dissolved	0.000776	<u>J</u>	0.000240	0.00200	1	05/02/2017 22:48	WG975069
Manganese	0.398		0.000250	0.00500	1	05/04/2017 11:55	WG975078
Manganese,Dissolved	0.425		0.000250	0.00500	1	05/02/2017 22:48	WG975069
Potassium	0.293	<u>J</u>	0.0370	1.00	1	05/04/2017 11:55	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:55	WG975078
Selenium,Dissolved	0.000720	<u>B J</u>	0.000380	0.00200	1	05/02/2017 22:48	WG975069
Sodium	152		0.110	1.00	1	05/04/2017 11:55	WG975078

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0500	0.250	5	05/03/2017 19:17	WG975625
Benzene	0.335		0.00166	0.00500	5	05/03/2017 19:17	WG975625
Bromodichloromethane	U		0.00190	0.00500	5	05/03/2017 19:17	WG975625
Bromoform	U		0.00234	0.00500	5	05/03/2017 19:17	WG975625
Bromomethane	U		0.00433	0.0250	5	05/03/2017 19:17	WG975625
n-Butylbenzene	U		0.00180	0.00500	5	05/03/2017 19:17	WG975625
sec-Butylbenzene	0.0104		0.00182	0.00500	5	05/03/2017 19:17	WG975625
Carbon disulfide	0.00142	<u>J</u>	0.00138	0.00500	5	05/03/2017 19:17	WG975625
Carbon tetrachloride	U		0.00190	0.00500	5	05/03/2017 19:17	WG975625
Chlorobenzene	U		0.00174	0.00500	5	05/03/2017 19:17	WG975625
Chlorodibromomethane	U		0.00164	0.00500	5	05/03/2017 19:17	WG975625
Chloroethane	U		0.00226	0.0250	5	05/03/2017 19:17	WG975625
Chloroform	U		0.00162	0.0250	5	05/03/2017 19:17	WG975625





Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.00138	0.0125	5	05/03/2017 19:17	WG975625
1,2-Dibromoethane	U		0.00190	0.00500	5	05/03/2017 19:17	WG975625
1,1-Dichloroethane	U		0.00130	0.00500	5	05/03/2017 19:17	WG975625
1,2-Dichloroethane	U		0.00180	0.00500	5	05/03/2017 19:17	WG975625
1,1-Dichloroethene	U		0.00199	0.00500	5	05/03/2017 19:17	WG975625
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	05/03/2017 19:17	WG975625
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	05/03/2017 19:17	WG975625
1,2-Dichloropropane	U		0.00153	0.00500	5	05/03/2017 19:17	WG975625
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	05/03/2017 19:17	WG975625
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	05/03/2017 19:17	WG975625
Ethylbenzene	0.00823		0.00192	0.00500	5	05/03/2017 19:17	WG975625
Isopropylbenzene	0.0591		0.00163	0.00500	5	05/03/2017 19:17	WG975625
p-Isopropyltoluene	0.00214	L	0.00175	0.00500	5	05/03/2017 19:17	WG975625
2-Butanone (MEK)	U		0.0196	0.0500	5	05/03/2017 19:17	WG975625
2-Hexanone	U		0.0191	0.0500	5	05/03/2017 19:17	WG975625
Methylene Chloride	U		0.00500	0.0250	5	05/03/2017 19:17	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	05/03/2017 19:17	WG975625
Methyl tert-butyl ether	0.00210	L	0.00184	0.00500	5	05/03/2017 19:17	WG975625
Naphthalene	0.00877	L	0.00500	0.0250	5	05/03/2017 19:17	WG975625
n-Propylbenzene	0.0809		0.00174	0.00500	5	05/03/2017 19:17	WG975625
Styrene	U		0.00154	0.00500	5	05/03/2017 19:17	WG975625
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	05/03/2017 19:17	WG975625
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	05/03/2017 19:17	WG975625
Tetrachloroethene	U		0.00186	0.00500	5	05/03/2017 19:17	WG975625
Toluene	0.00354	L	0.00206	0.00500	5	05/03/2017 19:17	WG975625
1,1,1-Trichloroethane	U		0.00160	0.00500	5	05/03/2017 19:17	WG975625
1,1,2-Trichloroethane	U		0.00192	0.00500	5	05/03/2017 19:17	WG975625
Trichloroethene	U		0.00199	0.00500	5	05/03/2017 19:17	WG975625
1,2,4-Trimethylbenzene	0.0338		0.00186	0.00500	5	05/03/2017 19:17	WG975625
1,3,5-Trimethylbenzene	U		0.00194	0.00500	5	05/03/2017 19:17	WG975625
Vinyl chloride	U		0.00130	0.00500	5	05/03/2017 19:17	WG975625
o-Xylene	0.00177	L	0.00170	0.00500	5	05/03/2017 19:17	WG975625
m&p-Xylene	0.0239		0.00360	0.0100	5	05/03/2017 19:17	WG975625
Xylenes, Total	0.0257		0.00530	0.0150	5	05/03/2017 19:17	WG975625
(S) Toluene-d8	103			80.0-120		05/03/2017 19:17	WG975625
(S) Dibromofluoromethane	99.0			76.0-123		05/03/2017 19:17	WG975625
(S) 4-Bromofluorobenzene	100			80.0-120		05/03/2017 19:17	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.61		0.0247	0.100	1	05/02/2017 14:53	WG975552
(S) o-Terphenyl	78.2			31.0-160		05/02/2017 14:53	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2140		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:32	WG975897

Sample Narrative:

353.2 L905668-54 WG975897: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	193		2.60	50.0	50	05/03/2017 18:08	WG975914
Fluoride	0.459		0.00990	0.100	1	05/03/2017 17:10	WG975914
Sulfate	1070		3.87	250	50	05/03/2017 18:08	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00284		0.000250	0.00200	1	05/04/2017 11:58	WG975078
Arsenic,Dissolved	0.00264		0.000250	0.00200	1	05/02/2017 22:52	WG975069
Barium	0.0257		0.000360	0.00500	1	05/04/2017 11:58	WG975078
Barium,Dissolved	0.0251		0.000360	0.00500	1	05/02/2017 22:52	WG975069
Calcium	304		0.0460	1.00	1	05/04/2017 11:58	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:58	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:52	WG975069
Iron	0.512		0.0150	0.100	1	05/04/2017 11:58	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:52	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:58	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:52	WG975069
Manganese	1.08		0.000250	0.00500	1	05/04/2017 11:58	WG975078
Manganese,Dissolved	1.14		0.000250	0.00500	1	05/02/2017 22:52	WG975069
Potassium	0.525	<u>J</u>	0.0370	1.00	1	05/04/2017 11:58	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:58	WG975078
Selenium,Dissolved	0.000664	<u>B J</u>	0.000380	0.00200	1	05/02/2017 22:52	WG975069
Sodium	158		0.110	1.00	1	05/04/2017 11:58	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.984		0.0314	0.100	1	05/01/2017 01:56	WG975304
(S) a,a,a-Trifluorotoluene(FID) 96.5				77.0-122		05/01/2017 01:56	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	0.0424	<u>J</u>	0.0100	0.0500	1	05/02/2017 08:53	WG975625
Benzene	0.0136		0.000331	0.00100	1	05/02/2017 08:53	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 08:53	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 08:53	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 08:53	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 08:53	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.000379	U	0.000365	0.00100	1	05/02/2017 08:53	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 08:53	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 08:53	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 08:53	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 08:53	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 08:53	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 08:53	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 08:53	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 08:53	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 08:53	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 08:53	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 08:53	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 08:53	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 08:53	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 08:53	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 08:53	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 08:53	WG975625
Ethylbenzene	0.00840		0.000384	0.00100	1	05/02/2017 08:53	WG975625
Isopropylbenzene	0.000441	U	0.000326	0.00100	1	05/02/2017 08:53	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 08:53	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 08:53	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 08:53	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 08:53	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 08:53	WG975625
Methyl tert-butyl ether	0.0147		0.000367	0.00100	1	05/02/2017 08:53	WG975625
Naphthalene	0.00157	U	0.00100	0.00500	1	05/02/2017 08:53	WG975625
n-Propylbenzene	0.000359	U	0.000349	0.00100	1	05/02/2017 08:53	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 08:53	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 08:53	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 08:53	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 08:53	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 08:53	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 08:53	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 08:53	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 08:53	WG975625
1,2,4-Trimethylbenzene	0.00389		0.000373	0.00100	1	05/02/2017 08:53	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 08:53	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 08:53	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 08:53	WG975625
m&p-Xylene	0.0133		0.000719	0.00200	1	05/02/2017 08:53	WG975625
Xylenes, Total	0.0133		0.00106	0.00300	1	05/02/2017 08:53	WG975625
(S) Toluene-d8	102			80.0-120		05/02/2017 08:53	WG975625
(S) Dibromofluoromethane	105			76.0-123		05/02/2017 08:53	WG975625
(S) 4-Bromofluorobenzene	91.7			80.0-120		05/02/2017 08:53	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.169		0.0247	0.100	1	05/02/2017 15:09	WG975552
(S) o-Terphenyl	66.0			31.0-160		05/02/2017 15:09	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	937		2.82	10.0	1	05/03/2017 14:39	WG975911

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.447	J	0.197	1.00	10	05/04/2017 14:33	WG975897

5 Sr

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	15.0		0.0519	1.00	1	05/03/2017 17:22	WG975914
Fluoride	0.893		0.00990	0.100	1	05/03/2017 17:22	WG975914
Sulfate	455		3.87	250	50	05/03/2017 18:20	WG975914

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	167		0.0460	1.00	1	05/04/2017 12:17	WG975078
Potassium	1.26		0.0370	1.00	1	05/04/2017 12:17	WG975078
Sodium	16.4		0.110	1.00	1	05/04/2017 12:17	WG975078

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 09:15	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 09:15	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:15	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:15	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:15	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:15	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:15	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:15	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:15	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:15	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:15	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:15	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:15	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:15	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:15	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:15	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:15	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:15	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:15	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:15	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:15	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:15	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:15	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:15	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:15	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:15	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:15	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:15	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:15	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:15	WG975625



Collected date/time: 04/27/17 09:30

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch	
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:15	WG975625	¹ Cp
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:15	WG975625	² Tc
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:15	WG975625	³ Ss
Styrene	U		0.000307	0.00100	1	05/02/2017 09:15	WG975625	⁴ Cn
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:15	WG975625	⁵ Sr
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:15	WG975625	⁶ Qc
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:15	WG975625	⁷ Gl
Toluene	U		0.000412	0.00100	1	05/02/2017 09:15	WG975625	⁸ Al
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:15	WG975625	⁹ Sc
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:15	WG975625	
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:15	WG975625	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:15	WG975625	
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:15	WG975625	
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:15	WG975625	
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:15	WG975625	
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:15	WG975625	
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:15	WG975625	
(S) Toluene-d8	105			80.0-120		05/02/2017 09:15	WG975625	
(S) Dibromofluoromethane	107			76.0-123		05/02/2017 09:15	WG975625	
(S) 4-Bromofluorobenzene	94.4			80.0-120		05/02/2017 09:15	WG975625	



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4190		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:34	WG975897

Sample Narrative:

353.2 L905668-56 WG975897: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	304		2.60	50.0	50	05/03/2017 18:32	WG975914
Fluoride	1.51		0.00990	0.100	1	05/03/2017 17:33	WG975914
Sulfate	2770		3.87	250	50	05/03/2017 18:32	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00336		0.000250	0.00200	1	05/04/2017 12:21	WG975078
Arsenic,Dissolved	0.00303		0.000250	0.00200	1	05/02/2017 22:56	WG975069
Barium	0.00809		0.000360	0.00500	1	05/04/2017 12:21	WG975078
Barium,Dissolved	0.00816		0.000360	0.00500	1	05/02/2017 22:56	WG975069
Calcium	394		0.0460	1.00	1	05/04/2017 12:21	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:21	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:56	WG975069
Iron	0.0381	J	0.0150	0.100	1	05/04/2017 12:21	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:56	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:21	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:56	WG975069
Manganese	0.0455		0.000250	0.00500	1	05/04/2017 12:21	WG975078
Manganese,Dissolved	0.0436		0.000250	0.00500	1	05/02/2017 22:56	WG975069
Potassium	0.514	J	0.0370	1.00	1	05/04/2017 12:21	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 12:21	WG975078
Selenium,Dissolved	0.00108	B J	0.000380	0.00200	1	05/02/2017 22:56	WG975069
Sodium	183		0.110	1.00	1	05/04/2017 12:21	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 02:18	WG975304
(S) a,a,a-Trifluorotoluene(FID) 95.1				77.0-122		05/01/2017 02:18	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 09:37	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 09:37	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:37	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:37	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:37	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:37	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:37	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:37	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:37	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:37	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:37	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:37	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:37	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:37	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:37	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:37	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:37	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:37	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:37	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:37	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:37	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:37	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:37	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:37	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:37	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:37	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:37	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:37	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:37	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:37	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:37	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:37	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:37	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 09:37	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:37	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:37	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:37	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 09:37	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:37	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:37	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:37	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:37	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:37	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:37	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:37	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:37	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:37	WG975625
(S) Toluene-d8	106			80.0-120		05/02/2017 09:37	WG975625
(S) Dibromofluoromethane	109			76.0-123		05/02/2017 09:37	WG975625
(S) 4-Bromofluorobenzene	93.7			80.0-120		05/02/2017 09:37	WG975625

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0657	J	0.0247	0.100	1	05/02/2017 15:26	WG975552
(S) o-Terphenyl	63.1			31.0-160		05/02/2017 15:26	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3480		2.82	10.0	1	05/03/2017 14:39	WG975911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.260	J J5	0.197	1.00	10	05/04/2017 14:39	WG975897

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	266		2.60	50.0	50	05/03/2017 18:43	WG975914
Fluoride	1.78		0.00990	0.100	1	05/03/2017 17:45	WG975914
Sulfate	2350		3.87	250	50	05/03/2017 18:43	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00262		0.000250	0.00200	1	05/04/2017 12:24	WG975078
Arsenic,Dissolved	0.00252		0.000250	0.00200	1	05/02/2017 22:59	WG975069
Barium	0.0138		0.000360	0.00500	1	05/04/2017 12:24	WG975078
Barium,Dissolved	0.0147		0.000360	0.00500	1	05/02/2017 22:59	WG975069
Calcium	599		0.0460	1.00	1	05/04/2017 12:24	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:24	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:59	WG975069
Iron	U		0.0150	0.100	1	05/04/2017 12:24	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:59	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:24	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:59	WG975069
Manganese	0.944		0.000250	0.00500	1	05/04/2017 12:24	WG975078
Manganese,Dissolved	1.01		0.000250	0.00500	1	05/02/2017 22:59	WG975069
Potassium	2.83		0.0370	1.00	1	05/04/2017 12:24	WG975078
Selenium	0.00129	J	0.000380	0.00200	1	05/04/2017 12:24	WG975078
Selenium,Dissolved	0.00152	B J	0.000380	0.00200	1	05/02/2017 22:59	WG975069
Sodium	131		0.110	1.00	1	05/04/2017 12:24	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 02:40	WG975304
(S) a,a,a-Trifluorotoluene(FID) 95.9				77.0-122		05/01/2017 02:40	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 09:59	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 09:59	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:59	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:59	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:59	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:59	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:59	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:59	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:59	WG975625



Collected date/time: 04/27/17 11:30

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:59	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:59	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:59	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:59	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:59	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:59	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:59	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:59	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:59	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:59	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:59	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:59	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:59	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:59	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:59	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:59	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:59	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:59	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:59	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:59	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:59	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:59	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:59	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:59	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 09:59	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:59	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:59	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:59	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 09:59	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:59	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:59	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:59	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:59	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:59	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:59	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:59	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:59	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:59	WG975625
(S) Toluene-d8	106			80.0-120		05/02/2017 09:59	WG975625
(S) Dibromofluoromethane	109			76.0-123		05/02/2017 09:59	WG975625
(S) 4-Bromofluorobenzene	91.9			80.0-120		05/02/2017 09:59	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/02/2017 15:42	WG975552
(S) o-Terphenyl	60.8			31.0-160		05/02/2017 15:42	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2850		2.82	10.0	1	05/03/2017 14:39	WG975911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.509	J	0.197	1.00	10	05/04/2017 14:43	WG975897

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	271		2.60	50.0	50	05/03/2017 18:55	WG975914
Fluoride	0.804		0.00990	0.100	1	05/03/2017 17:57	WG975914
Sulfate	1780		3.87	250	50	05/03/2017 18:55	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00171	J	0.000250	0.00200	1	05/04/2017 12:28	WG975078
Arsenic,Dissolved	0.00160	J	0.000250	0.00200	1	05/02/2017 23:03	WG975069
Barium	0.0157		0.000360	0.00500	1	05/04/2017 12:28	WG975078
Barium,Dissolved	0.0171		0.000360	0.00500	1	05/02/2017 23:03	WG975069
Calcium	369		0.0460	1.00	1	05/04/2017 12:28	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:28	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:03	WG975069
Iron	0.602		0.0150	0.100	1	05/04/2017 12:28	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:03	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:28	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:03	WG975069
Manganese	0.821		0.000250	0.00500	1	05/04/2017 12:28	WG975078
Manganese,Dissolved	0.880		0.000250	0.00500	1	05/02/2017 23:03	WG975069
Potassium	0.584	J	0.0370	1.00	1	05/04/2017 12:28	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 12:28	WG975078
Selenium,Dissolved	0.000761	B J	0.000380	0.00200	1	05/02/2017 23:03	WG975069
Sodium	193		0.110	1.00	1	05/04/2017 12:28	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.209		0.0314	0.100	1	05/01/2017 03:02	WG975304
(S) a,a,a-Trifluorotoluene(FID) 95.8				77.0-122		05/01/2017 03:02	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 10:20	WG975625
Benzene	0.000354	J	0.000331	0.00100	1	05/02/2017 10:20	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 10:20	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 10:20	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 10:20	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 10:20	WG975625
sec-Butylbenzene	0.000715	J	0.000365	0.00100	1	05/02/2017 10:20	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 10:20	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 10:20	WG975625



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 10:20	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 10:20	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 10:20	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 10:20	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 10:20	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 10:20	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 10:20	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 10:20	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 10:20	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 10:20	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 10:20	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 10:20	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 10:20	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 10:20	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 10:20	WG975625
Isopropylbenzene	0.00333		0.000326	0.00100	1	05/02/2017 10:20	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 10:20	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 10:20	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 10:20	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 10:20	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 10:20	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 10:20	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 10:20	WG975625
n-Propylbenzene	0.00226		0.000349	0.00100	1	05/02/2017 10:20	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 10:20	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 10:20	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 10:20	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 10:20	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 10:20	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 10:20	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 10:20	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 10:20	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 10:20	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 10:20	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 10:20	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 10:20	WG975625
m&p-Xylene	0.00141	L	0.000719	0.00200	1	05/02/2017 10:20	WG975625
Xylenes, Total	0.00141	L	0.00106	0.00300	1	05/02/2017 10:20	WG975625
(S) Toluene-d8	104			80.0-120		05/02/2017 10:20	WG975625
(S) Dibromofluoromethane	108			76.0-123		05/02/2017 10:20	WG975625
(S) 4-Bromofluorobenzene	93.8			80.0-120		05/02/2017 10:20	WG975625

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.665		0.0247	0.100	1	05/02/2017 20:24	WG975552
(S) o-Terphenyl	80.0			31.0-160		05/02/2017 20:24	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3890		2.82	10.0	1	05/03/2017 14:39	WG975911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.342	J	0.197	1.00	10	05/04/2017 11:26	WG976256

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	308		2.60	50.0	50	05/03/2017 20:52	WG975914
Fluoride	0.649		0.00990	0.100	1	05/03/2017 19:30	WG975914
Sulfate	2550		3.87	250	50	05/03/2017 20:52	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00367		0.000250	0.00200	1	05/04/2017 12:31	WG975078
Arsenic,Dissolved	0.00361		0.000250	0.00200	1	05/02/2017 23:07	WG975069
Barium	0.0101		0.000360	0.00500	1	05/04/2017 12:31	WG975078
Barium,Dissolved	0.0101		0.000360	0.00500	1	05/02/2017 23:07	WG975069
Calcium	524		0.0460	1.00	1	05/04/2017 12:31	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:31	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:07	WG975069
Iron	0.0356	J	0.0150	0.100	1	05/04/2017 12:31	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:07	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:31	WG975078
Lead,Dissolved	0.000513	J	0.000240	0.00200	1	05/02/2017 23:07	WG975069
Manganese	0.0612		0.000250	0.00500	1	05/04/2017 12:31	WG975078
Manganese,Dissolved	0.0652		0.000250	0.00500	1	05/02/2017 23:07	WG975069
Potassium	2.27		0.0370	1.00	1	05/04/2017 12:31	WG975078
Selenium	0.00207		0.000380	0.00200	1	05/04/2017 12:31	WG975078
Selenium,Dissolved	0.00284	B	0.000380	0.00200	1	05/02/2017 23:07	WG975069
Sodium	206		0.110	1.00	1	05/04/2017 12:31	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 03:24	WG975304
(S) a,a,a-Trifluorotoluene(FID) 96.0				77.0-122		05/01/2017 03:24	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 10:42	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 10:42	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 10:42	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 10:42	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 10:42	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 10:42	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 10:42	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 10:42	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 10:42	WG975625



Collected date/time: 04/27/17 10:00

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 10:42	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 10:42	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 10:42	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 10:42	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 10:42	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 10:42	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 10:42	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 10:42	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 10:42	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 10:42	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 10:42	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 10:42	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 10:42	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 10:42	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 10:42	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 10:42	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 10:42	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 10:42	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 10:42	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 10:42	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 10:42	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 10:42	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 10:42	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 10:42	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 10:42	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 10:42	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 10:42	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 10:42	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 10:42	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 10:42	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 10:42	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 10:42	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 10:42	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 10:42	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 10:42	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 10:42	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 10:42	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 10:42	WG975625
(S) Toluene-d8	106			80.0-120		05/02/2017 10:42	WG975625
(S) Dibromofluoromethane	108			76.0-123		05/02/2017 10:42	WG975625
(S) 4-Bromofluorobenzene	92.3			80.0-120		05/02/2017 10:42	WG975625

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.245		0.0247	0.100	1	05/02/2017 20:41	WG975552
(S) o-Terphenyl	70.7			31.0-160		05/02/2017 20:41	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2140		2.82	10.0	1	05/03/2017 14:39	WG975911

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:28	WG976256

Sample Narrative:

353.2 L905668-60 WG976256: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	251		1.04	20.0	20	05/03/2017 21:03	WG975914
Fluoride	0.949		0.00990	0.100	1	05/03/2017 19:42	WG975914
Sulfate	799		1.55	100	20	05/03/2017 21:03	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00383		0.000250	0.00200	1	05/04/2017 12:35	WG975078
Arsenic,Dissolved	0.00321		0.000250	0.00200	1	05/02/2017 23:10	WG975069
Barium	0.0718		0.000360	0.00500	1	05/04/2017 12:35	WG975078
Barium,Dissolved	0.0692		0.000360	0.00500	1	05/02/2017 23:10	WG975069
Calcium	242		0.0460	1.00	1	05/04/2017 12:35	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:35	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:10	WG975069
Iron	0.187		0.0150	0.100	1	05/04/2017 12:35	WG975078
Iron,Dissolved	0.0152	J	0.0150	0.100	1	05/02/2017 23:10	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:35	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:10	WG975069
Manganese	0.0940		0.000250	0.00500	1	05/04/2017 12:35	WG975078
Manganese,Dissolved	0.103		0.000250	0.00500	1	05/02/2017 23:10	WG975069
Potassium	0.264	J	0.0370	1.00	1	05/04/2017 12:35	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 12:35	WG975078
Selenium,Dissolved	0.000512	B J	0.000380	0.00200	1	05/02/2017 23:10	WG975069
Sodium	146		0.110	1.00	1	05/04/2017 12:35	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	4.45		0.0314	0.100	1	05/01/2017 03:47	WG975304
(S) a,a,a-Trifluorotoluene(FID) 93.2				77.0-122		05/01/2017 03:47	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 11:04	WG975625
Benzene	1.04		0.00828	0.0250	25	05/03/2017 19:30	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 11:04	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 11:04	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 11:04	WG975625
n-Butylbenzene	0.00216		0.000361	0.00100	1	05/02/2017 11:04	WG975625



Collected date/time: 04/27/17 10:50

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00427		0.000365	0.00100	1	05/02/2017 11:04	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 11:04	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 11:04	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 11:04	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 11:04	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 11:04	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 11:04	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 11:04	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 11:04	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 11:04	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 11:04	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 11:04	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 11:04	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 11:04	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 11:04	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 11:04	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 11:04	WG975625
Ethylbenzene	0.186		0.000384	0.00100	1	05/02/2017 11:04	WG975625
Isopropylbenzene	0.0193		0.000326	0.00100	1	05/02/2017 11:04	WG975625
p-Isopropyltoluene	0.00108		0.000350	0.00100	1	05/02/2017 11:04	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 11:04	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 11:04	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 11:04	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 11:04	WG975625
Methyl tert-butyl ether	0.525		0.00918	0.0250	25	05/03/2017 19:30	WG975625
Naphthalene	0.0175		0.00100	0.00500	1	05/02/2017 11:04	WG975625
n-Propylbenzene	0.0337		0.000349	0.00100	1	05/02/2017 11:04	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 11:04	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 11:04	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 11:04	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 11:04	WG975625
Toluene	0.0958		0.000412	0.00100	1	05/02/2017 11:04	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 11:04	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 11:04	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 11:04	WG975625
1,2,4-Trimethylbenzene	0.0562		0.000373	0.00100	1	05/02/2017 11:04	WG975625
1,3,5-Trimethylbenzene	0.00490		0.000387	0.00100	1	05/02/2017 11:04	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 11:04	WG975625
o-Xylene	0.00990		0.000341	0.00100	1	05/02/2017 11:04	WG975625
m&p-Xylene	0.0711		0.000719	0.00200	1	05/02/2017 11:04	WG975625
Xylenes, Total	0.0810		0.00106	0.00300	1	05/02/2017 11:04	WG975625
(S) Toluene-d8	103			80.0-120		05/03/2017 19:30	WG975625
(S) Toluene-d8	104			80.0-120		05/02/2017 11:04	WG975625
(S) Dibromofluoromethane	65.5	J2		76.0-123		05/02/2017 11:04	WG975625
(S) Dibromofluoromethane	99.7			76.0-123		05/03/2017 19:30	WG975625
(S) 4-Bromofluorobenzene	97.3			80.0-120		05/02/2017 11:04	WG975625
(S) 4-Bromofluorobenzene	101			80.0-120		05/03/2017 19:30	WG975625

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.38		0.0247	0.100	1	05/02/2017 20:57	WG975552
(S) o-Terphenyl	81.7			31.0-160		05/02/2017 20:57	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1250		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U	J5	0.197	1.00	10	05/04/2017 11:30	WG976256

Sample Narrative:

353.2 L905668-61 WG976256: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	300		1.04	20.0	20	05/03/2017 21:15	WG975914
Fluoride	1.02		0.00990	0.100	1	05/03/2017 19:53	WG975914
Sulfate	44.1		0.0774	5.00	1	05/03/2017 19:53	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0226		0.000250	0.00200	1	05/04/2017 12:38	WG975078
Arsenic,Dissolved	0.0152		0.000250	0.00200	1	05/02/2017 23:25	WG975069
Barium	0.627		0.000360	0.00500	1	05/04/2017 12:38	WG975078
Barium,Dissolved	0.585		0.000360	0.00500	1	05/02/2017 23:25	WG975069
Calcium	163		0.0460	1.00	1	05/04/2017 12:38	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:38	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:25	WG975069
Iron	5.10		0.0150	0.100	1	05/04/2017 12:38	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:25	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:38	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:25	WG975069
Manganese	0.987		0.000250	0.00500	1	05/04/2017 12:38	WG975078
Manganese,Dissolved	1.03		0.000250	0.00500	1	05/02/2017 23:25	WG975069
Potassium	0.334	J	0.0370	1.00	1	05/04/2017 12:38	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 12:38	WG975078
Selenium,Dissolved	0.000611	B J	0.000380	0.00200	1	05/02/2017 23:25	WG975069
Sodium	199		0.110	1.00	1	05/04/2017 12:38	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	1.79		0.0314	0.100	1	05/01/2017 04:09	WG975304
(S) a,a,a-Trifluorotoluene(FID) 95.6				77.0-122		05/01/2017 04:09	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 17:38	WG975483
Benzene	0.00299		0.000331	0.00100	1	05/02/2017 17:38	WG975483
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 17:38	WG975483
Bromoform	U		0.000469	0.00100	1	05/02/2017 17:38	WG975483
Bromomethane	U		0.000866	0.00500	1	05/02/2017 17:38	WG975483
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 17:38	WG975483



Collected date/time: 04/27/17 11:40

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.000928	U	0.000365	0.00100	1	05/02/2017 17:38	WG975483
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 17:38	WG975483
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 17:38	WG975483
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 17:38	WG975483
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 17:38	WG975483
Chloroethane	U		0.000453	0.00500	1	05/02/2017 17:38	WG975483
Chloroform	U		0.000324	0.00500	1	05/02/2017 17:38	WG975483
Chloromethane	U		0.000276	0.00250	1	05/02/2017 17:38	WG975483
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 17:38	WG975483
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 17:38	WG975483
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 17:38	WG975483
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 17:38	WG975483
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 17:38	WG975483
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 17:38	WG975483
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 17:38	WG975483
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 17:38	WG975483
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 17:38	WG975483
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 17:38	WG975483
Isopropylbenzene	0.000976	U	0.000326	0.00100	1	05/02/2017 17:38	WG975483
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 17:38	WG975483
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 17:38	WG975483
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 17:38	WG975483
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 17:38	WG975483
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 17:38	WG975483
Methyl tert-butyl ether	4.34		0.0367	0.100	100	05/08/2017 00:43	WG975483
Naphthalene	0.00247	U	0.00100	0.00500	1	05/02/2017 17:38	WG975483
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 17:38	WG975483
Styrene	U		0.000307	0.00100	1	05/02/2017 17:38	WG975483
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 17:38	WG975483
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 17:38	WG975483
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 17:38	WG975483
Toluene	0.000543	U	0.000412	0.00100	1	05/02/2017 17:38	WG975483
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 17:38	WG975483
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 17:38	WG975483
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 17:38	WG975483
1,2,4-Trimethylbenzene	0.00101		0.000373	0.00100	1	05/02/2017 17:38	WG975483
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 17:38	WG975483
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 17:38	WG975483
o-Xylene	U		0.000341	0.00100	1	05/02/2017 17:38	WG975483
m&p-Xylene	0.000737	U	0.000719	0.00200	1	05/02/2017 17:38	WG975483
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 17:38	WG975483
(S) Toluene-d8	105			80.0-120		05/08/2017 00:43	WG975483
(S) Toluene-d8	106			80.0-120		05/02/2017 17:38	WG975483
(S) Dibromofluoromethane	98.2			76.0-123		05/02/2017 17:38	WG975483
(S) Dibromofluoromethane	104			76.0-123		05/08/2017 00:43	WG975483
(S) 4-Bromofluorobenzene	101			80.0-120		05/08/2017 00:43	WG975483
(S) 4-Bromofluorobenzene	103			80.0-120		05/02/2017 17:38	WG975483

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.13		0.0247	0.100	1	05/02/2017 21:14	WG975552
(S) o-Terphenyl	77.5			31.0-160		05/02/2017 21:14	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1230		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:36	WG976256

Sample Narrative:

353.2 L905668-62 WG976256: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	285		1.04	20.0	20	05/03/2017 20:28	WG975914
Fluoride	0.773		0.00990	0.100	1	05/03/2017 21:50	WG975914
Sulfate	10.3		0.0774	5.00	1	05/03/2017 21:50	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0214		0.000250	0.00200	1	05/04/2017 12:42	WG975078
Arsenic,Dissolved	0.0183		0.000250	0.00200	1	05/02/2017 23:29	WG975069
Barium	2.75		0.000360	0.00500	1	05/04/2017 12:42	WG975078
Barium,Dissolved	2.48		0.000360	0.00500	1	05/02/2017 23:29	WG975069
Calcium	151		0.0460	1.00	1	05/04/2017 12:42	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:42	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:29	WG975069
Iron	1.29		0.0150	0.100	1	05/04/2017 12:42	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:29	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:42	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:29	WG975069
Manganese	0.294		0.000250	0.00500	1	05/04/2017 12:42	WG975078
Manganese,Dissolved	0.309		0.000250	0.00500	1	05/02/2017 23:29	WG975069
Potassium	0.275	J	0.0370	1.00	1	05/04/2017 12:42	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 12:42	WG975078
Selenium,Dissolved	0.000632	B J	0.000380	0.00200	1	05/02/2017 23:29	WG975069
Sodium	153		0.110	1.00	1	05/04/2017 12:42	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	6.81		0.0314	0.100	1	05/01/2017 04:31	WG975304
(S) a,a,a-Trifluorotoluene(FID)	82.6			77.0-122		05/01/2017 04:31	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 17:59	WG975483
Benzene	3.09		0.00662	0.0200	20	05/03/2017 23:07	WG975483
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 17:59	WG975483
Bromoform	U		0.000469	0.00100	1	05/02/2017 17:59	WG975483
Bromomethane	U		0.000866	0.00500	1	05/02/2017 17:59	WG975483
n-Butylbenzene	0.00255		0.000361	0.00100	1	05/02/2017 17:59	WG975483



Collected date/time: 04/27/17 11:10

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00331		0.000365	0.00100	1	05/02/2017 17:59	WG975483
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 17:59	WG975483
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 17:59	WG975483
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 17:59	WG975483
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 17:59	WG975483
Chloroethane	U		0.000453	0.00500	1	05/02/2017 17:59	WG975483
Chloroform	U		0.000324	0.00500	1	05/02/2017 17:59	WG975483
Chloromethane	U		0.000276	0.00250	1	05/02/2017 17:59	WG975483
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 17:59	WG975483
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 17:59	WG975483
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 17:59	WG975483
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 17:59	WG975483
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 17:59	WG975483
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 17:59	WG975483
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 17:59	WG975483
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 17:59	WG975483
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 17:59	WG975483
Ethylbenzene	0.0532		0.000384	0.00100	1	05/02/2017 17:59	WG975483
Isopropylbenzene	0.0206		0.000326	0.00100	1	05/02/2017 17:59	WG975483
p-Isopropyltoluene	0.000554	J	0.000350	0.00100	1	05/02/2017 17:59	WG975483
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 17:59	WG975483
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 17:59	WG975483
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 17:59	WG975483
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 17:59	WG975483
Methyl tert-butyl ether	3.99		0.0367	0.100	100	05/08/2017 01:06	WG975483
Naphthalene	0.0295		0.00100	0.00500	1	05/02/2017 17:59	WG975483
n-Propylbenzene	0.0338		0.000349	0.00100	1	05/02/2017 17:59	WG975483
Styrene	U		0.000307	0.00100	1	05/02/2017 17:59	WG975483
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 17:59	WG975483
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 17:59	WG975483
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 17:59	WG975483
Toluene	0.153		0.000412	0.00100	1	05/02/2017 17:59	WG975483
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 17:59	WG975483
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 17:59	WG975483
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 17:59	WG975483
1,2,4-Trimethylbenzene	0.0137		0.000373	0.00100	1	05/02/2017 17:59	WG975483
1,3,5-Trimethylbenzene	0.00348		0.000387	0.00100	1	05/02/2017 17:59	WG975483
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 17:59	WG975483
o-Xylene	0.0406		0.000341	0.00100	1	05/02/2017 17:59	WG975483
m&p-Xylene	0.0735		0.000719	0.00200	1	05/02/2017 17:59	WG975483
Xylenes, Total	0.114		0.00106	0.00300	1	05/02/2017 17:59	WG975483
(S) Toluene-d8	101			80.0-120		05/03/2017 23:07	WG975483
(S) Toluene-d8	103			80.0-120		05/02/2017 17:59	WG975483
(S) Toluene-d8	106			80.0-120		05/08/2017 01:06	WG975483
(S) Dibromofluoromethane	75.6	J2		76.0-123		05/02/2017 17:59	WG975483
(S) Dibromofluoromethane	104			76.0-123		05/08/2017 01:06	WG975483
(S) Dibromofluoromethane	113			76.0-123		05/03/2017 23:07	WG975483
(S) 4-Bromofluorobenzene	92.7			80.0-120		05/03/2017 23:07	WG975483
(S) 4-Bromofluorobenzene	102			80.0-120		05/08/2017 01:06	WG975483
(S) 4-Bromofluorobenzene	102			80.0-120		05/02/2017 17:59	WG975483

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.77		0.0247	0.100	1	05/02/2017 21:30	WG975552
(S) o-Terphenyl	78.5			31.0-160		05/02/2017 21:30	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3160		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:37	WG976256

Sample Narrative:

353.2 L905668-63 WG976256: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	184		0.519	10.0	10	05/05/2017 13:46	WG976618
Fluoride	1.13		0.00990	0.100	1	05/03/2017 22:13	WG975914
Sulfate	1870		3.87	250	50	05/03/2017 22:48	WG975914

Metals (ICPMS) by Method 6020

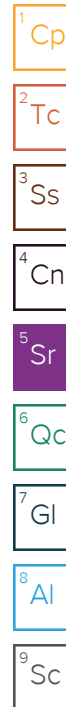
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0234		0.000250	0.00200	1	05/05/2017 04:27	WG975082
Arsenic,Dissolved	0.0260		0.000250	0.00200	1	05/02/2017 23:32	WG975069
Barium	0.0202		0.000360	0.00500	1	05/05/2017 04:27	WG975082
Barium,Dissolved	0.0210		0.000360	0.00500	1	05/02/2017 23:32	WG975069
Calcium	467		0.0460	1.00	1	05/05/2017 04:27	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:27	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:32	WG975069
Iron	0.123		0.0150	0.100	1	05/05/2017 04:27	WG975082
Iron,Dissolved	0.0343	J	0.0150	0.100	1	05/02/2017 23:32	WG975069
Lead	U		0.000240	0.00200	1	05/05/2017 21:52	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:32	WG975069
Manganese	0.440		0.000250	0.00500	1	05/05/2017 04:27	WG975082
Manganese,Dissolved	0.468		0.000250	0.00500	1	05/02/2017 23:32	WG975069
Potassium	0.519	J	0.0370	1.00	1	05/05/2017 04:27	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:27	WG975082
Selenium,Dissolved	0.000557	B J	0.000380	0.00200	1	05/02/2017 23:32	WG975069
Sodium	134		0.110	1.00	1	05/05/2017 04:27	WG975082

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.163		0.0314	0.100	1	05/01/2017 04:53	WG975304
(S) a,a,a-Trifluorotoluene(FID) 93.8				77.0-122		05/01/2017 04:53	WG975304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 18:20	WG975483
Benzene	0.00218		0.000331	0.00100	1	05/03/2017 23:24	WG975483
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:20	WG975483
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:20	WG975483
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:20	WG975483
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:20	WG975483





Collected date/time: 04/27/17 09:25

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00297		0.000365	0.00100	1	05/02/2017 18:20	WG975483
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 18:20	WG975483
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:20	WG975483
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:20	WG975483
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:20	WG975483
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:20	WG975483
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:20	WG975483
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:20	WG975483
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:20	WG975483
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:20	WG975483
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:20	WG975483
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:20	WG975483
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:20	WG975483
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:20	WG975483
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:20	WG975483
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:20	WG975483
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:20	WG975483
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 18:20	WG975483
Isopropylbenzene	0.0175		0.000326	0.00100	1	05/02/2017 18:20	WG975483
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:20	WG975483
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:20	WG975483
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:20	WG975483
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:20	WG975483
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:20	WG975483
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 23:24	WG975483
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:20	WG975483
n-Propylbenzene	0.000538	U	0.000349	0.00100	1	05/02/2017 18:20	WG975483
Styrene	U		0.000307	0.00100	1	05/02/2017 18:20	WG975483
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:20	WG975483
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:20	WG975483
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:20	WG975483
Toluene	U		0.000412	0.00100	1	05/02/2017 18:20	WG975483
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:20	WG975483
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:20	WG975483
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:20	WG975483
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:20	WG975483
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:20	WG975483
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:20	WG975483
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:20	WG975483
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 18:20	WG975483
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 18:20	WG975483
(S) Toluene-d8	101			80.0-120		05/03/2017 23:24	WG975483
(S) Toluene-d8	105			80.0-120		05/02/2017 18:20	WG975483
(S) Dibromofluoromethane	98.1			76.0-123		05/02/2017 18:20	WG975483
(S) Dibromofluoromethane	110			76.0-123		05/03/2017 23:24	WG975483
(S) 4-Bromofluorobenzene	90.9			80.0-120		05/03/2017 23:24	WG975483
(S) 4-Bromofluorobenzene	98.6			80.0-120		05/02/2017 18:20	WG975483

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.835		0.0247	0.100	1	05/02/2017 21:47	WG975552
(S) o-Terphenyl	87.9			31.0-160		05/02/2017 21:47	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3470		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:38	WG976256

Sample Narrative:

353.2 L905668-64 WG976256: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.0900	0.250	50	05/02/2017 11:10	WG975005

Wet Chemistry by Method 9056A

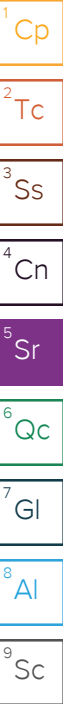
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	201		2.60	50.0	50	05/03/2017 23:00	WG975914
Fluoride	0.835		0.00990	0.100	1	05/03/2017 22:25	WG975914
Sulfate	2060		3.87	250	50	05/03/2017 23:00	WG975914

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:07	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 15:02	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00595		0.000250	0.00200	1	05/05/2017 04:38	WG975082
Arsenic,Dissolved	0.00888		0.000250	0.00200	1	05/02/2017 22:14	WG975069
Barium	0.0167		0.000360	0.00500	1	05/05/2017 04:38	WG975082
Barium,Dissolved	0.0171		0.000360	0.00500	1	05/02/2017 22:14	WG975069
Boron	0.376		0.00150	0.0200	1	05/05/2017 04:38	WG975082
Boron,Dissolved	0.378		0.00150	0.0200	1	05/02/2017 22:14	WG975069
Cadmium	U		0.000160	0.00100	1	05/05/2017 04:38	WG975082
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 22:14	WG975069
Calcium	410		0.0460	1.00	1	05/05/2017 04:38	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:38	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:14	WG975069
Cobalt	U		0.000260	0.00200	1	05/05/2017 04:38	WG975082
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 22:14	WG975069
Iron	0.0568	J	0.0150	0.100	1	05/05/2017 04:38	WG975082
Iron,Dissolved	0.0207	J	0.0150	0.100	1	05/02/2017 22:14	WG975069
Lead	U		0.000240	0.00200	1	05/05/2017 21:55	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:14	WG975069
Manganese	0.294		0.000250	0.00500	1	05/05/2017 04:38	WG975082
Manganese,Dissolved	0.310		0.000250	0.00500	1	05/02/2017 22:14	WG975069
Nickel	0.000791	J	0.000350	0.00200	1	05/05/2017 04:38	WG975082
Nickel,Dissolved	U		0.000350	0.00200	1	05/02/2017 22:14	WG975069
Potassium	0.606	J	0.0370	1.00	1	05/05/2017 04:38	WG975082





Collected date/time: 04/27/17 10:15

L905668

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	U		0.000380	0.00200	1	05/05/2017 04:38	WG975082
Selenium,Dissolved	0.000813	BJ	0.000380	0.00200	1	05/02/2017 22:14	WG975069
Sodium	196		0.110	1.00	1	05/05/2017 04:38	WG975082
Uranium	0.00223	J	0.000330	0.0100	1	05/05/2017 21:55	WG975082
Uranium,Dissolved	0.00218	J	0.000330	0.0100	1	05/02/2017 22:14	WG975069
Vanadium	0.000578	BJ	0.000180	0.00500	1	05/05/2017 21:55	WG975082
Vanadium,Dissolved	0.000538	BJ	0.000180	0.00500	1	05/02/2017 22:14	WG975069

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.309		0.0314	0.100	1	05/01/2017 16:48	WG975386
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-122		05/01/2017 16:48	WG975386

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 18:40	WG975483
Benzene	0.00262		0.000331	0.00100	1	05/02/2017 18:40	WG975483
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:40	WG975483
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:40	WG975483
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:40	WG975483
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:40	WG975483
sec-Butylbenzene	0.00293		0.000365	0.00100	1	05/02/2017 18:40	WG975483
Carbon disulfide	0.000535	J	0.000275	0.00100	1	05/02/2017 18:40	WG975483
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:40	WG975483
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:40	WG975483
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:40	WG975483
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:40	WG975483
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:40	WG975483
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:40	WG975483
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:40	WG975483
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:40	WG975483
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:40	WG975483
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:40	WG975483
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:40	WG975483
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:40	WG975483
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:40	WG975483
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:40	WG975483
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:40	WG975483
Ethylbenzene	0.000481	J	0.000384	0.00100	1	05/02/2017 18:40	WG975483
Isopropylbenzene	0.0178		0.000326	0.00100	1	05/02/2017 18:40	WG975483
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:40	WG975483
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:40	WG975483
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:40	WG975483
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:40	WG975483
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:40	WG975483
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 18:40	WG975483
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:40	WG975483
n-Propylbenzene	0.00101		0.000349	0.00100	1	05/02/2017 18:40	WG975483
Styrene	U		0.000307	0.00100	1	05/02/2017 18:40	WG975483
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:40	WG975483
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:40	WG975483
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:40	WG975483
Toluene	U		0.000412	0.00100	1	05/02/2017 18:40	WG975483



Collected date/time: 04/27/17 10:15

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:40	WG975483
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:40	WG975483
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:40	WG975483
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:40	WG975483
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:40	WG975483
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:40	WG975483
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:40	WG975483
m&p-Xylene	0.00195	L	0.000719	0.00200	1	05/02/2017 18:40	WG975483
Xylenes, Total	0.00195	L	0.00106	0.00300	1	05/02/2017 18:40	WG975483
(S) Toluene-d8	106			80.0-120		05/02/2017 18:40	WG975483
(S) Dibromofluoromethane	102			76.0-123		05/02/2017 18:40	WG975483
(S) 4-Bromofluorobenzene	102			80.0-120		05/02/2017 18:40	WG975483

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.923		0.0247	0.100	1	05/02/2017 23:29	WG975552
(S) o-Terphenyl	79.6			31.0-160		05/02/2017 23:29	WG975552

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2660		2.82	10.0	1	05/03/2017 15:37	WG975913

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:39	WG976256

Sample Narrative:

353.2 L905668-65 WG976256: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	88.0		0.0519	1.00	1	05/03/2017 22:37	WG975914
Fluoride	3.53		0.00990	0.100	1	05/03/2017 22:37	WG975914
Sulfate	1500		3.87	250	50	05/03/2017 23:12	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00167	J	0.000250	0.00200	1	05/05/2017 04:41	WG975082
Arsenic,Dissolved	0.00180	J	0.000250	0.00200	1	05/02/2017 23:36	WG975069
Barium	0.0184		0.000360	0.00500	1	05/05/2017 04:41	WG975082
Barium,Dissolved	0.0184		0.000360	0.00500	1	05/02/2017 23:36	WG975069
Calcium	457		0.0460	1.00	1	05/05/2017 04:41	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:41	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:36	WG975069
Iron	0.0250	J	0.0150	0.100	1	05/05/2017 04:41	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:36	WG975069
Lead	0.000433	J	0.000240	0.00200	1	05/05/2017 21:59	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:36	WG975069
Manganese	0.173		0.000250	0.00500	1	05/05/2017 04:41	WG975082
Manganese,Dissolved	0.180		0.000250	0.00500	1	05/02/2017 23:36	WG975069
Potassium	3.24		0.0370	1.00	1	05/05/2017 04:41	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:41	WG975082
Selenium,Dissolved	0.000631	B J	0.000380	0.00200	1	05/02/2017 23:36	WG975069
Sodium	110		0.110	1.00	1	05/05/2017 04:41	WG975082

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.207		0.0314	0.100	1	05/09/2017 08:22	WG975386
(S) a,a,a-Trifluorotoluene(FID) 95.6				77.0-122		05/09/2017 08:22	WG975386

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/03/2017 22:04	WG975945
Benzene	U		0.000331	0.00100	1	05/03/2017 22:04	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 22:04	WG975945
Bromoform	U		0.000469	0.00100	1	05/03/2017 22:04	WG975945
Bromomethane	U		0.000866	0.00500	1	05/03/2017 22:04	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 22:04	WG975945



Collected date/time: 04/27/17 09:55

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.000569	U	0.000365	0.00100	1	05/03/2017 22:04	WG975945
Carbon disulfide	0.000571	U	0.000275	0.00100	1	05/03/2017 22:04	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 22:04	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 22:04	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 22:04	WG975945
Chloroethane	U		0.000453	0.00500	1	05/03/2017 22:04	WG975945
Chloroform	U		0.000324	0.00500	1	05/03/2017 22:04	WG975945
Chloromethane	U		0.000276	0.00250	1	05/03/2017 22:04	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 22:04	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 22:04	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 22:04	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 22:04	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 22:04	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 22:04	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 22:04	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 22:04	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 22:04	WG975945
Ethylbenzene	0.000403	U	0.000384	0.00100	1	05/03/2017 22:04	WG975945
Isopropylbenzene	0.00399		0.000326	0.00100	1	05/03/2017 22:04	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 22:04	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 22:04	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 22:04	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 22:04	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 22:04	WG975945
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 22:04	WG975945
Naphthalene	U		0.00100	0.00500	1	05/03/2017 22:04	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/03/2017 22:04	WG975945
Styrene	U		0.000307	0.00100	1	05/03/2017 22:04	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 22:04	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 22:04	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 22:04	WG975945
Toluene	0.00119		0.000412	0.00100	1	05/03/2017 22:04	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 22:04	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 22:04	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 22:04	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/03/2017 22:04	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 22:04	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 22:04	WG975945
o-Xylene	0.00299		0.000341	0.00100	1	05/03/2017 22:04	WG975945
m&p-Xylene	0.000792	U	0.000719	0.00200	1	05/03/2017 22:04	WG975945
Xylenes, Total	0.00378		0.00106	0.00300	1	05/03/2017 22:04	WG975945
(S) Toluene-d8	104			80.0-120		05/03/2017 22:04	WG975945
(S) Dibromofluoromethane	101			76.0-123		05/03/2017 22:04	WG975945
(S) 4-Bromofluorobenzene	98.0			80.0-120		05/03/2017 22:04	WG975945

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.90		0.0247	0.100	1	05/02/2017 23:46	WG975552
(S) o-Terphenyl	94.2			31.0-160		05/02/2017 23:46	WG975552



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2420		2.82	10.0	1	05/03/2017 15:37	WG975913

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:40	WG976256

Sample Narrative:

353.2 L905668-66 WG976256: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	208		2.60	50.0	50	05/03/2017 18:35	WG975915
Fluoride	0.525		0.00990	0.100	1	05/03/2017 16:51	WG975915
Sulfate	940		3.87	250	50	05/03/2017 18:35	WG975915

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00285		0.000250	0.00200	1	05/05/2017 04:45	WG975082
Arsenic,Dissolved	0.00271		0.000250	0.00200	1	05/02/2017 23:39	WG975069
Barium	0.0244		0.000360	0.00500	1	05/05/2017 04:45	WG975082
Barium,Dissolved	0.0262		0.000360	0.00500	1	05/02/2017 23:39	WG975069
Calcium	296		0.0460	1.00	1	05/05/2017 04:45	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:45	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:39	WG975069
Iron	0.480		0.0150	0.100	1	05/05/2017 04:45	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:39	WG975069
Lead	U		0.000240	0.00200	1	05/05/2017 22:13	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:39	WG975069
Manganese	1.05		0.000250	0.00500	1	05/05/2017 04:45	WG975082
Manganese,Dissolved	1.12		0.000250	0.00500	1	05/02/2017 23:39	WG975069
Potassium	0.514	J	0.0370	1.00	1	05/05/2017 04:45	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:45	WG975082
Selenium,Dissolved	0.000537	B J	0.000380	0.00200	1	05/02/2017 23:39	WG975069
Sodium	151		0.110	1.00	1	05/05/2017 04:45	WG975082

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.03		0.0314	0.100	1	05/01/2017 17:36	WG975386
(S) a,a,a-Trifluorotoluene(FID) 95.2				77.0-122		05/01/2017 17:36	WG975386

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/03/2017 03:11	WG975808
Benzene	0.0145		0.000331	0.00100	1	05/03/2017 03:11	WG975808
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 03:11	WG975808
Bromoform	U		0.000469	0.00100	1	05/03/2017 03:11	WG975808
Bromomethane	U		0.000866	0.00500	1	05/03/2017 03:11	WG975808
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 03:11	WG975808



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.000417	U	0.000365	0.00100	1	05/03/2017 03:11	WG975808
Carbon disulfide	U		0.000275	0.00100	1	05/03/2017 03:11	WG975808
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 03:11	WG975808
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 03:11	WG975808
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 03:11	WG975808
Chloroethane	U		0.000453	0.00500	1	05/03/2017 03:11	WG975808
Chloroform	U		0.000324	0.00500	1	05/03/2017 03:11	WG975808
Chloromethane	U		0.000276	0.00250	1	05/03/2017 03:11	WG975808
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 03:11	WG975808
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 03:11	WG975808
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 03:11	WG975808
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 03:11	WG975808
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 03:11	WG975808
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 03:11	WG975808
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 03:11	WG975808
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 03:11	WG975808
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 03:11	WG975808
Ethylbenzene	0.00937		0.000384	0.00100	1	05/03/2017 03:11	WG975808
Isopropylbenzene	0.000513	U	0.000326	0.00100	1	05/03/2017 03:11	WG975808
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 03:11	WG975808
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 03:11	WG975808
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 03:11	WG975808
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 03:11	WG975808
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 03:11	WG975808
Methyl tert-butyl ether	0.0140		0.000367	0.00100	1	05/03/2017 03:11	WG975808
Naphthalene	0.00176	U	0.00100	0.00500	1	05/03/2017 03:11	WG975808
n-Propylbenzene	0.000359	U	0.000349	0.00100	1	05/03/2017 03:11	WG975808
Styrene	U		0.000307	0.00100	1	05/03/2017 03:11	WG975808
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 03:11	WG975808
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 03:11	WG975808
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 03:11	WG975808
Toluene	U		0.000412	0.00100	1	05/03/2017 03:11	WG975808
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 03:11	WG975808
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 03:11	WG975808
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 03:11	WG975808
1,2,4-Trimethylbenzene	0.00448		0.000373	0.00100	1	05/03/2017 03:11	WG975808
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 03:11	WG975808
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 03:11	WG975808
o-Xylene	U		0.000341	0.00100	1	05/03/2017 03:11	WG975808
m&p-Xylene	0.0148		0.000719	0.00200	1	05/03/2017 03:11	WG975808
Xylenes, Total	0.0148		0.00106	0.00300	1	05/03/2017 03:11	WG975808
(S) Toluene-d8	105			80.0-120		05/03/2017 03:11	WG975808
(S) Dibromofluoromethane	101			76.0-123		05/03/2017 03:11	WG975808
(S) 4-Bromofluorobenzene	98.3			80.0-120		05/03/2017 03:11	WG975808

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.214		0.0247	0.100	1	05/03/2017 05:24	WG975555
(S) o-Terphenyl	67.0			31.0-160		05/03/2017 05:24	WG975555



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3650		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:41	WG976256

Sample Narrative:

353.2 L905668-67 WG976256: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.0900	0.250	50	05/02/2017 11:13	WG975005

Wet Chemistry by Method 9056A

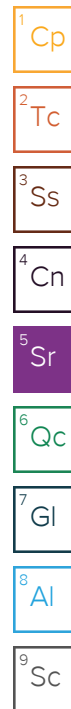
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	206		2.60	50.0	50	05/03/2017 18:52	WG975915
Fluoride	0.960		0.00990	0.100	1	05/03/2017 17:08	WG975915
Sulfate	1850		3.87	250	50	05/03/2017 18:52	WG975915

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:09	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 15:04	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.00605		0.000250	0.00200	1	05/05/2017 04:48	WG975082
Arsenic,Dissolved	0.00763		0.000250	0.00200	1	05/05/2017 03:21	WG975071
Barium	0.0167		0.000360	0.00500	1	05/05/2017 04:48	WG975082
Barium,Dissolved	0.0183		0.000360	0.00500	1	05/05/2017 03:21	WG975071
Boron	0.376		0.00150	0.0200	1	05/05/2017 04:48	WG975082
Boron,Dissolved	0.352		0.00150	0.0200	1	05/10/2017 11:53	WG976972
Cadmium	U		0.000160	0.00100	1	05/05/2017 04:48	WG975082
Cadmium,Dissolved	U		0.000160	0.00100	1	05/05/2017 03:21	WG975071
Calcium	409		0.0460	1.00	1	05/05/2017 04:48	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:48	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 03:21	WG975071
Cobalt	U		0.000260	0.00200	1	05/05/2017 04:48	WG975082
Cobalt,Dissolved	U		0.000260	0.00200	1	05/05/2017 03:21	WG975071
Iron	0.0692	J	0.0150	0.100	1	05/05/2017 04:48	WG975082
Iron,Dissolved	0.0270	J	0.0150	0.100	1	05/05/2017 03:21	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 22:17	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:21	WG975071
Manganese	0.290		0.000250	0.00500	1	05/05/2017 04:48	WG975082
Manganese,Dissolved	0.308		0.000250	0.00500	1	05/05/2017 03:21	WG975071
Nickel	0.000704	J	0.000350	0.00200	1	05/05/2017 04:48	WG975082
Nickel,Dissolved	U		0.000350	0.00200	1	05/05/2017 03:21	WG975071
Potassium	0.597	J	0.0370	1.00	1	05/05/2017 04:48	WG975082





Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	U		0.000380	0.00200	1	05/05/2017 04:48	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:21	WG975071
Sodium	198		0.110	1.00	1	05/05/2017 04:48	WG975082
Uranium	0.00222	J	0.000330	0.0100	1	05/05/2017 22:17	WG975082
Uranium,Dissolved	0.00218	J	0.000330	0.0100	1	05/05/2017 03:21	WG975071
Vanadium	0.000605	B J	0.000180	0.00500	1	05/05/2017 22:17	WG975082
Vanadium,Dissolved	0.000755	B J	0.000180	0.00500	1	05/05/2017 03:21	WG975071

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.343		0.0314	0.100	1	05/01/2017 18:00	WG975386
(S) a,a,a-Trifluorotoluene(FID)	98.7			77.0-122		05/01/2017 18:00	WG975386

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/03/2017 03:32	WG975808
Benzene	0.00526		0.000331	0.00100	1	05/03/2017 03:32	WG975808
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 03:32	WG975808
Bromoform	U		0.000469	0.00100	1	05/03/2017 03:32	WG975808
Bromomethane	U		0.000866	0.00500	1	05/03/2017 03:32	WG975808
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 03:32	WG975808
sec-Butylbenzene	0.00274		0.000365	0.00100	1	05/03/2017 03:32	WG975808
Carbon disulfide	0.000502	J	0.000275	0.00100	1	05/03/2017 03:32	WG975808
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 03:32	WG975808
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 03:32	WG975808
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 03:32	WG975808
Chloroethane	U		0.000453	0.00500	1	05/03/2017 03:32	WG975808
Chloroform	U		0.000324	0.00500	1	05/03/2017 03:32	WG975808
Chloromethane	U		0.000276	0.00250	1	05/03/2017 03:32	WG975808
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 03:32	WG975808
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 03:32	WG975808
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 03:32	WG975808
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 03:32	WG975808
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 03:32	WG975808
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 03:32	WG975808
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 03:32	WG975808
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 03:32	WG975808
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 03:32	WG975808
Ethylbenzene	0.000556	J	0.000384	0.00100	1	05/03/2017 03:32	WG975808
Isopropylbenzene	0.0174		0.000326	0.00100	1	05/03/2017 03:32	WG975808
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 03:32	WG975808
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 03:32	WG975808
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 03:32	WG975808
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 03:32	WG975808
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 03:32	WG975808
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 03:32	WG975808
Naphthalene	U		0.00100	0.00500	1	05/03/2017 03:32	WG975808
n-Propylbenzene	0.00135		0.000349	0.00100	1	05/03/2017 03:32	WG975808
Styrene	U		0.000307	0.00100	1	05/03/2017 03:32	WG975808
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 03:32	WG975808
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 03:32	WG975808
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 03:32	WG975808
Toluene	U		0.000412	0.00100	1	05/03/2017 03:32	WG975808



Collected date/time: 04/27/17 08:00

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 03:32	WG975808
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 03:32	WG975808
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 03:32	WG975808
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/03/2017 03:32	WG975808
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 03:32	WG975808
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 03:32	WG975808
o-Xylene	U		0.000341	0.00100	1	05/03/2017 03:32	WG975808
m&p-Xylene	0.00240		0.000719	0.00200	1	05/03/2017 03:32	WG975808
Xylenes, Total	0.00240	J	0.00106	0.00300	1	05/03/2017 03:32	WG975808
(S) Toluene-d8	107			80.0-120		05/03/2017 03:32	WG975808
(S) Dibromofluoromethane	105			76.0-123		05/03/2017 03:32	WG975808
(S) 4-Bromofluorobenzene	98.1			80.0-120		05/03/2017 03:32	WG975808

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.947		0.0247	0.100	1	05/03/2017 05:40	WG975555
(S) o-Terphenyl	78.4			31.0-160		05/03/2017 05:40	WG975555

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	U		2.82	10.0	1	05/03/2017 15:37	WG975913

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/11/2017 23:07	WG978963

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.357	J	0.0519	1.00	1	05/05/2017 13:56	WG976618
Fluoride	U		0.00990	0.100	1	05/05/2017 13:56	WG976618
Sulfate	0.189	J P1	0.0774	5.00	1	05/05/2017 13:56	WG976618

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000250	0.00200	1	05/05/2017 04:52	WG975082
Arsenic,Dissolved	U		0.000250	0.00200	1	05/05/2017 03:25	WG975071
Barium	U		0.000360	0.00500	1	05/05/2017 04:52	WG975082
Barium,Dissolved	0.000513	J	0.000360	0.00500	1	05/05/2017 03:25	WG975071
Calcium	U		0.0460	1.00	1	05/05/2017 04:52	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:52	WG975082
Chromium,Dissolved	0.000593	B J	0.000540	0.00200	1	05/05/2017 03:25	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 04:52	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:25	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 22:20	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:25	WG975071
Manganese	0.000363	B J	0.000250	0.00500	1	05/05/2017 04:52	WG975082
Manganese,Dissolved	U		0.000250	0.00500	1	05/05/2017 03:25	WG975071
Potassium	U		0.0370	1.00	1	05/05/2017 04:52	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:52	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:25	WG975071
Sodium	0.133	J	0.110	1.00	1	05/05/2017 04:52	WG975082

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 18:24	WG975386
(S) a,a,a-Trifluorotoluene(FID) 101				77.0-122		05/01/2017 18:24	WG975386

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/03/2017 03:53	WG975808
Benzene	U		0.000331	0.00100	1	05/03/2017 03:53	WG975808
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 03:53	WG975808
Bromoform	U		0.000469	0.00100	1	05/03/2017 03:53	WG975808
Bromomethane	U		0.000866	0.00500	1	05/03/2017 03:53	WG975808
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 03:53	WG975808
sec-Butylbenzene	U		0.000365	0.00100	1	05/03/2017 03:53	WG975808
Carbon disulfide	U		0.000275	0.00100	1	05/03/2017 03:53	WG975808
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 03:53	WG975808



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 03:53	WG975808
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 03:53	WG975808
Chloroethane	U		0.000453	0.00500	1	05/03/2017 03:53	WG975808
Chloroform	U		0.000324	0.00500	1	05/03/2017 03:53	WG975808
Chloromethane	U		0.000276	0.00250	1	05/03/2017 03:53	WG975808
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 03:53	WG975808
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 03:53	WG975808
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 03:53	WG975808
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 03:53	WG975808
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 03:53	WG975808
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 03:53	WG975808
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 03:53	WG975808
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 03:53	WG975808
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 03:53	WG975808
Ethylbenzene	U		0.000384	0.00100	1	05/03/2017 03:53	WG975808
Isopropylbenzene	U		0.000326	0.00100	1	05/03/2017 03:53	WG975808
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 03:53	WG975808
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 03:53	WG975808
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 03:53	WG975808
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 03:53	WG975808
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 03:53	WG975808
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 03:53	WG975808
Naphthalene	U		0.00100	0.00500	1	05/03/2017 03:53	WG975808
n-Propylbenzene	U		0.000349	0.00100	1	05/03/2017 03:53	WG975808
Styrene	U		0.000307	0.00100	1	05/03/2017 03:53	WG975808
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 03:53	WG975808
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 03:53	WG975808
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 03:53	WG975808
Toluene	0.000610	U	0.000412	0.00100	1	05/03/2017 03:53	WG975808
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 03:53	WG975808
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 03:53	WG975808
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 03:53	WG975808
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/03/2017 03:53	WG975808
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 03:53	WG975808
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 03:53	WG975808
o-Xylene	U		0.000341	0.00100	1	05/03/2017 03:53	WG975808
m&p-Xylene	U		0.000719	0.00200	1	05/03/2017 03:53	WG975808
Xylenes, Total	U		0.00106	0.00300	1	05/03/2017 03:53	WG975808
(S) Toluene-d8	106			80.0-120		05/03/2017 03:53	WG975808
(S) Dibromofluoromethane	105			76.0-123		05/03/2017 03:53	WG975808
(S) 4-Bromofluorobenzene	102			80.0-120		05/03/2017 03:53	WG975808

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0276	U	0.0247	0.100	1	05/04/2017 22:52	WG975555
(S) o-Terphenyl	62.8			31.0-160		05/04/2017 22:52	WG975555



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	U		2.82	10.0	1	05/03/2017 15:37	WG975913

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.0197	0.100	1	05/11/2017 22:30	WG978963

Wet Chemistry by Method 4500CN E-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	U		0.00180	0.00500	1	05/02/2017 15:06	WG975491

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.375	J	0.0519	1.00	1	05/03/2017 17:43	WG975915
Fluoride	U		0.00990	0.100	1	05/03/2017 17:43	WG975915
Sulfate	U		0.0774	5.00	1	05/03/2017 17:43	WG975915

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:16	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 15:06	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	U		0.000250	0.00200	1	05/05/2017 04:56	WG975082
Arsenic,Dissolved	U		0.000250	0.00200	1	05/05/2017 03:29	WG975071
Barium	U		0.000360	0.00500	1	05/05/2017 04:56	WG975082
Barium,Dissolved	U		0.000360	0.00500	1	05/05/2017 03:29	WG975071
Boron	0.0307	B	0.00150	0.0200	1	05/05/2017 04:56	WG975082
Boron,Dissolved	0.0189	J	0.00150	0.0200	1	05/10/2017 11:56	WG976972
Cadmium	U		0.000160	0.00100	1	05/05/2017 04:56	WG975082
Cadmium,Dissolved	U		0.000160	0.00100	1	05/05/2017 03:29	WG975071
Calcium	U		0.0460	1.00	1	05/05/2017 04:56	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:56	WG975082
Chromium,Dissolved	0.00115	B J	0.000540	0.00200	1	05/05/2017 03:29	WG975071
Cobalt	U		0.000260	0.00200	1	05/05/2017 04:56	WG975082
Cobalt,Dissolved	U		0.000260	0.00200	1	05/05/2017 03:29	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 04:56	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:29	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 22:24	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:29	WG975071
Manganese	0.000537	B J	0.000250	0.00500	1	05/05/2017 04:56	WG975082
Manganese,Dissolved	0.00181	J	0.000250	0.00500	1	05/05/2017 03:29	WG975071
Nickel	0.00305		0.000350	0.00200	1	05/05/2017 04:56	WG975082
Nickel,Dissolved	0.000526	B J	0.000350	0.00200	1	05/05/2017 03:29	WG975071
Potassium	U		0.0370	1.00	1	05/05/2017 04:56	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:56	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:29	WG975071
Sodium	U		0.110	1.00	1	05/05/2017 04:56	WG975082



Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	U		0.000330	0.0100	1	05/05/2017 22:24	WG975082
Uranium,Dissolved	U		0.000330	0.0100	1	05/05/2017 03:29	WG975071
Vanadium	0.000556	B J	0.000180	0.00500	1	05/05/2017 04:56	WG975082
Vanadium,Dissolved	0.000540	B J	0.000180	0.00500	1	05/05/2017 03:29	WG975071

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	05/01/2017 18:48	WG975386
(S) a,a,a-Trifluorotoluene(FID) 101				77.0-122		05/01/2017 18:48	WG975386

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/03/2017 04:13	WG975808
Benzene	U		0.000331	0.00100	1	05/03/2017 04:13	WG975808
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 04:13	WG975808
Bromoform	U		0.000469	0.00100	1	05/03/2017 04:13	WG975808
Bromomethane	U		0.000866	0.00500	1	05/03/2017 04:13	WG975808
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 04:13	WG975808
sec-Butylbenzene	U		0.000365	0.00100	1	05/03/2017 04:13	WG975808
Carbon disulfide	U		0.000275	0.00100	1	05/03/2017 04:13	WG975808
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 04:13	WG975808
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 04:13	WG975808
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 04:13	WG975808
Chloroethane	U		0.000453	0.00500	1	05/03/2017 04:13	WG975808
Chloroform	U		0.000324	0.00500	1	05/03/2017 04:13	WG975808
Chloromethane	U		0.000276	0.00250	1	05/03/2017 04:13	WG975808
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 04:13	WG975808
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 04:13	WG975808
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 04:13	WG975808
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 04:13	WG975808
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 04:13	WG975808
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 04:13	WG975808
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 04:13	WG975808
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 04:13	WG975808
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 04:13	WG975808
Ethylbenzene	U		0.000384	0.00100	1	05/03/2017 04:13	WG975808
Isopropylbenzene	U		0.000326	0.00100	1	05/03/2017 04:13	WG975808
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 04:13	WG975808
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 04:13	WG975808
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 04:13	WG975808
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 04:13	WG975808
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 04:13	WG975808
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 04:13	WG975808
Naphthalene	U		0.00100	0.00500	1	05/03/2017 04:13	WG975808
n-Propylbenzene	U		0.000349	0.00100	1	05/03/2017 04:13	WG975808
Styrene	U		0.000307	0.00100	1	05/03/2017 04:13	WG975808
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 04:13	WG975808
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 04:13	WG975808
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 04:13	WG975808
Toluene	U		0.000412	0.00100	1	05/03/2017 04:13	WG975808
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 04:13	WG975808
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 04:13	WG975808
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 04:13	WG975808



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/03/2017 04:13	WG975808
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 04:13	WG975808
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 04:13	WG975808
o-Xylene	U		0.000341	0.00100	1	05/03/2017 04:13	WG975808
m&p-Xylene	U		0.000719	0.00200	1	05/03/2017 04:13	WG975808
Xylenes, Total	U		0.00106	0.00300	1	05/03/2017 04:13	WG975808
(S) Toluene-d8	107			80.0-120		05/03/2017 04:13	WG975808
(S) Dibromofluoromethane	103			76.0-123		05/03/2017 04:13	WG975808
(S) 4-Bromofluorobenzene	99.4			80.0-120		05/03/2017 04:13	WG975808

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	U		0.0247	0.100	1	05/03/2017 06:14	WG975555
(S) o-Terphenyl	53.7			31.0-160		05/03/2017 06:14	WG975555

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 18:13	WG975945
Benzene	U		0.000331	0.00100	1	05/02/2017 18:13	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:13	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:13	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:13	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:13	WG975945
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 18:13	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 18:13	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:13	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:13	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:13	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:13	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:13	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:13	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:13	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:13	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:13	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:13	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:13	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:13	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:13	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:13	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:13	WG975945
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 18:13	WG975945
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 18:13	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:13	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:13	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:13	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:13	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:13	WG975945
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 18:13	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:13	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 18:13	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 18:13	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:13	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:13	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:13	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 18:13	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:13	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:13	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:13	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:13	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:13	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:13	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:13	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 18:13	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 18:13	WG975945
(S) Toluene-d8	107			80.0-120		05/02/2017 18:13	WG975945
(S) Dibromofluoromethane	109			76.0-123		05/02/2017 18:13	WG975945
(S) 4-Bromofluorobenzene	92.4			80.0-120		05/02/2017 18:13	WG975945

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 18:36	WG975945
Benzene	U		0.000331	0.00100	1	05/02/2017 18:36	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:36	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:36	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:36	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:36	WG975945
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 18:36	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 18:36	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:36	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:36	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:36	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:36	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:36	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:36	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:36	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:36	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:36	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:36	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:36	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:36	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:36	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:36	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:36	WG975945
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 18:36	WG975945
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 18:36	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:36	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:36	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:36	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:36	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:36	WG975945
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 18:36	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:36	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 18:36	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 18:36	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:36	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:36	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:36	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 18:36	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:36	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:36	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:36	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:36	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:36	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:36	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:36	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 18:36	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 18:36	WG975945
(S) Toluene-d8	107			80.0-120		05/02/2017 18:36	WG975945
(S) Dibromofluoromethane	111			76.0-123		05/02/2017 18:36	WG975945
(S) 4-Bromofluorobenzene	90.5			80.0-120		05/02/2017 18:36	WG975945

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1820		2.82	10.0	1	05/02/2017 17:49	WG975509

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:50	WG976256

Sample Narrative:

353.2 L905668-73 WG976256: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	163		1.04	20.0	20	05/03/2017 19:10	WG975915
Fluoride	0.731		0.00990	0.100	1	05/03/2017 18:00	WG975915
Sulfate	665		1.55	100	20	05/03/2017 19:10	WG975915

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.0343		0.000250	0.00200	1	05/05/2017 04:59	WG975082
Arsenic,Dissolved	0.0346		0.000250	0.00200	1	05/05/2017 03:32	WG975071
Barium	0.0593		0.000360	0.00500	1	05/05/2017 04:59	WG975082
Barium,Dissolved	0.0661		0.000360	0.00500	1	05/05/2017 03:32	WG975071
Calcium	218		0.0460	1.00	1	05/05/2017 04:59	WG975082
Chromium	0.00135	J	0.000540	0.00200	1	05/05/2017 04:59	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 03:32	WG975071
Iron	9.50		0.0150	0.100	1	05/05/2017 04:59	WG975082
Iron,Dissolved	2.13		0.0150	0.100	1	05/05/2017 03:32	WG975071
Lead	0.00169	J	0.000240	0.00200	1	05/05/2017 22:28	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:32	WG975071
Manganese	1.12		0.000250	0.00500	1	05/05/2017 04:59	WG975082
Manganese,Dissolved	1.14		0.000250	0.00500	1	05/05/2017 03:32	WG975071
Potassium	0.360	J	0.0370	1.00	1	05/05/2017 04:59	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:59	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:32	WG975071
Sodium	161		0.110	1.00	1	05/05/2017 04:59	WG975082

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/03/2017 04:34	WG975808
Benzene	0.0718		0.000331	0.00100	1	05/03/2017 04:34	WG975808
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 04:34	WG975808
Bromoform	U		0.000469	0.00100	1	05/03/2017 04:34	WG975808
Bromomethane	U		0.000866	0.00500	1	05/03/2017 04:34	WG975808
n-Butylbenzene	0.00837		0.000361	0.00100	1	05/03/2017 04:34	WG975808
sec-Butylbenzene	0.0117		0.000365	0.00100	1	05/03/2017 04:34	WG975808
Carbon disulfide	0.00138		0.000275	0.00100	1	05/03/2017 04:34	WG975808
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 04:34	WG975808
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 04:34	WG975808
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 04:34	WG975808
Chloroethane	U		0.000453	0.00500	1	05/03/2017 04:34	WG975808
Chloroform	U		0.000324	0.00500	1	05/03/2017 04:34	WG975808



Collected date/time: 04/26/17 15:05

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.000276	0.00250	1	05/03/2017 04:34	WG975808
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 04:34	WG975808
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 04:34	WG975808
1,2-Dichloroethane	0.00343		0.000361	0.00100	1	05/03/2017 04:34	WG975808
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 04:34	WG975808
cis-1,2-Dichloroethene	0.000478	J	0.000260	0.00100	1	05/03/2017 04:34	WG975808
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 04:34	WG975808
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 04:34	WG975808
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 04:34	WG975808
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 04:34	WG975808
Ethylbenzene	0.0198		0.000384	0.00100	1	05/03/2017 04:34	WG975808
Isopropylbenzene	0.0193		0.000326	0.00100	1	05/03/2017 04:34	WG975808
p-Isopropyltoluene	0.00735		0.000350	0.00100	1	05/03/2017 04:34	WG975808
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 04:34	WG975808
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 04:34	WG975808
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 04:34	WG975808
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 04:34	WG975808
Methyl tert-butyl ether	1.94		0.00734	0.0200	20	05/03/2017 21:25	WG975808
Naphthalene	0.0320		0.00100	0.00500	1	05/03/2017 04:34	WG975808
n-Propylbenzene	0.0191		0.000349	0.00100	1	05/03/2017 04:34	WG975808
Styrene	U		0.000307	0.00100	1	05/03/2017 04:34	WG975808
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 04:34	WG975808
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 04:34	WG975808
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 04:34	WG975808
Toluene	0.00213		0.000412	0.00100	1	05/03/2017 04:34	WG975808
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 04:34	WG975808
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 04:34	WG975808
Trichloroethene	0.00110		0.000398	0.00100	1	05/03/2017 04:34	WG975808
1,2,4-Trimethylbenzene	0.0928		0.000373	0.00100	1	05/03/2017 04:34	WG975808
1,3,5-Trimethylbenzene	0.0249		0.000387	0.00100	1	05/03/2017 04:34	WG975808
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 04:34	WG975808
o-Xylene	0.0112		0.000341	0.00100	1	05/03/2017 04:34	WG975808
m&p-Xylene	0.0386		0.000719	0.00200	1	05/03/2017 04:34	WG975808
Xylenes, Total	0.0498		0.00106	0.00300	1	05/03/2017 04:34	WG975808
(S) Toluene-d8	102			80.0-120		05/03/2017 21:25	WG975808
(S) Toluene-d8	108			80.0-120		05/03/2017 04:34	WG975808
(S) Dibromofluoromethane	101			76.0-123		05/03/2017 04:34	WG975808
(S) Dibromofluoromethane	101			76.0-123		05/03/2017 21:25	WG975808
(S) 4-Bromofluorobenzene	98.8			80.0-120		05/03/2017 04:34	WG975808
(S) 4-Bromofluorobenzene	99.0			80.0-120		05/03/2017 21:25	WG975808

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.6		0.124	0.500	5	05/06/2017 01:34	WG975555
(S) o-Terphenyl	66.5			31.0-160		05/06/2017 01:34	WG975555



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1390		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:51	WG976256

Sample Narrative:

353.2 L905668-74 WG976256: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	234		1.04	20.0	20	05/03/2017 19:27	WG975915
Fluoride	0.926		0.00990	0.100	1	05/03/2017 18:18	WG975915
Sulfate	160		1.55	100	20	05/03/2017 19:27	WG975915

Metals (ICPMS) by Method 6020

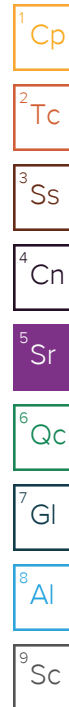
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0659		0.000250	0.00200	1	05/02/2017 19:20	WG975340
Arsenic,Dissolved	0.0509		0.000250	0.00200	1	05/10/2017 17:12	WG978287
Barium	0.0732		0.000360	0.00500	1	05/02/2017 19:20	WG975340
Barium,Dissolved	0.0725		0.000360	0.00500	1	05/10/2017 17:12	WG978287
Calcium	197		0.0460	1.00	1	05/02/2017 19:20	WG975340
Chromium	U		0.000540	0.00200	1	05/02/2017 19:20	WG975340
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 17:12	WG978287
Iron	1.18		0.0150	0.100	1	05/02/2017 19:20	WG975340
Iron,Dissolved	0.0151	J	0.0150	0.100	1	05/10/2017 17:12	WG978287
Lead	U		0.000240	0.00200	1	05/02/2017 19:20	WG975340
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 17:12	WG978287
Manganese	1.18		0.000250	0.00500	1	05/02/2017 19:20	WG975340
Manganese,Dissolved	1.14		0.000250	0.00500	1	05/10/2017 17:12	WG978287
Potassium	0.587	J	0.0370	1.00	1	05/02/2017 19:20	WG975340
Selenium	U		0.000380	0.00200	1	05/02/2017 19:20	WG975340
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 17:12	WG978287
Sodium	139		0.110	1.00	1	05/02/2017 19:20	WG975340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	0.311		0.0314	0.100	1	05/01/2017 14:19	WG975393
(S) a,a,a-Trifluorotoluene(FID) 99.5				77.0-122		05/01/2017 14:19	WG975393

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 22:58	WG975945
Benzene	0.00650		0.000331	0.00100	1	05/02/2017 22:58	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 22:58	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 22:58	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 22:58	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 22:58	WG975945





Collected date/time: 04/27/17 09:45

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.00132		0.000365	0.00100	1	05/02/2017 22:58	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 22:58	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 22:58	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 22:58	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 22:58	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 22:58	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 22:58	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 22:58	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 22:58	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 22:58	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 22:58	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 22:58	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 22:58	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 22:58	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 22:58	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 22:58	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 22:58	WG975945
Ethylbenzene	0.000830	L	0.000384	0.00100	1	05/02/2017 22:58	WG975945
Isopropylbenzene	0.00413		0.000326	0.00100	1	05/02/2017 22:58	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 22:58	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 22:58	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 22:58	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 22:58	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 22:58	WG975945
Methyl tert-butyl ether	0.107		0.000367	0.00100	1	05/02/2017 22:58	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 22:58	WG975945
n-Propylbenzene	0.000928	L	0.000349	0.00100	1	05/02/2017 22:58	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 22:58	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 22:58	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 22:58	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 22:58	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 22:58	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 22:58	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 22:58	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 22:58	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 22:58	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 22:58	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 22:58	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 22:58	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 22:58	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 22:58	WG975945
(S) Toluene-d8	107			80.0-120		05/02/2017 22:58	WG975945
(S) Dibromofluoromethane	107			76.0-123		05/02/2017 22:58	WG975945
(S) 4-Bromofluorobenzene	93.8			80.0-120		05/02/2017 22:58	WG975945

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.72		0.0247	0.100	1	05/03/2017 08:13	WG975555
(S) o-Terphenyl	73.9			31.0-160		05/03/2017 08:13	WG975555



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3190		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:52	WG976256

Sample Narrative:

353.2 L905668-75 WG976256: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	156		2.60	50.0	50	05/03/2017 22:22	WG975915
Fluoride	1.76		0.00990	0.100	1	05/03/2017 21:47	WG975915
Sulfate	1550		3.87	250	50	05/03/2017 22:22	WG975915

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	0.000786	J	0.000250	0.00200	1	05/02/2017 19:23	WG975340
Arsenic,Dissolved	0.00103	J	0.000250	0.00200	1	05/10/2017 17:16	WG978287
Barium	0.0249		0.000360	0.00500	1	05/02/2017 19:23	WG975340
Barium,Dissolved	0.0255		0.000360	0.00500	1	05/10/2017 17:16	WG978287
Calcium	474		0.0460	1.00	1	05/02/2017 19:23	WG975340
Chromium	U		0.000540	0.00200	1	05/02/2017 19:23	WG975340
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 17:16	WG978287
Iron	0.0151	J	0.0150	0.100	1	05/02/2017 19:23	WG975340
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 17:16	WG978287
Lead	0.000660	J	0.000240	0.00200	1	05/02/2017 19:23	WG975340
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 17:16	WG978287
Manganese	0.0241		0.000250	0.00500	1	05/02/2017 19:23	WG975340
Manganese,Dissolved	0.0249		0.000250	0.00500	1	05/10/2017 17:16	WG978287
Potassium	1.62		0.0370	1.00	1	05/02/2017 19:23	WG975340
Selenium	0.0704		0.000380	0.00200	1	05/02/2017 19:23	WG975340
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 17:16	WG978287
Sodium	110		0.110	1.00	1	05/02/2017 19:23	WG975340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.29		0.0314	0.100	1	05/01/2017 14:40	WG975393
(S) a,a,a-Trifluorotoluene(FID) 93.4				77.0-122		05/01/2017 14:40	WG975393

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/03/2017 22:17	WG975945
Benzene	0.00857		0.000331	0.00100	1	05/03/2017 22:17	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 22:17	WG975945
Bromoform	U		0.000469	0.00100	1	05/03/2017 22:17	WG975945
Bromomethane	U		0.000866	0.00500	1	05/03/2017 22:17	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 22:17	WG975945



Collected date/time: 04/27/17 12:10

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.0167		0.000365	0.00100	1	05/03/2017 22:17	WG975945
Carbon disulfide	0.00128		0.000275	0.00100	1	05/03/2017 22:17	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 22:17	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 22:17	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 22:17	WG975945
Chloroethane	U		0.000453	0.00500	1	05/03/2017 22:17	WG975945
Chloroform	U		0.000324	0.00500	1	05/03/2017 22:17	WG975945
Chloromethane	U		0.000276	0.00250	1	05/03/2017 22:17	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 22:17	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 22:17	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 22:17	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 22:17	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 22:17	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 22:17	WG975945
1,2-Dichloropropane	0.000706	L	0.000306	0.00100	1	05/03/2017 22:17	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 22:17	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 22:17	WG975945
Ethylbenzene	0.000721	L	0.000384	0.00100	1	05/03/2017 22:17	WG975945
Isopropylbenzene	0.0804		0.000326	0.00100	1	05/03/2017 22:17	WG975945
p-Isopropyltoluene	0.000356	L	0.000350	0.00100	1	05/03/2017 22:17	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 22:17	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 22:17	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 22:17	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 22:17	WG975945
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 22:17	WG975945
Naphthalene	U		0.00100	0.00500	1	05/03/2017 22:17	WG975945
n-Propylbenzene	0.00806		0.000349	0.00100	1	05/03/2017 22:17	WG975945
Styrene	U		0.000307	0.00100	1	05/03/2017 22:17	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 22:17	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 22:17	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 22:17	WG975945
Toluene	0.000732	L	0.000412	0.00100	1	05/03/2017 22:17	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 22:17	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 22:17	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 22:17	WG975945
1,2,4-Trimethylbenzene	0.000538	L	0.000373	0.00100	1	05/03/2017 22:17	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 22:17	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 22:17	WG975945
o-Xylene	U		0.000341	0.00100	1	05/03/2017 22:17	WG975945
m&p-Xylene	0.0117		0.000719	0.00200	1	05/03/2017 22:17	WG975945
Xylenes, Total	0.0117		0.00106	0.00300	1	05/03/2017 22:17	WG975945
(S) Toluene-d8	103			80.0-120		05/03/2017 22:17	WG975945
(S) Dibromofluoromethane	101			76.0-123		05/03/2017 22:17	WG975945
(S) 4-Bromofluorobenzene	97.9			80.0-120		05/03/2017 22:17	WG975945

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.15		0.0247	0.100	1	05/03/2017 08:30	WG975555
(S) o-Terphenyl	113			31.0-160		05/03/2017 08:30	WG975555



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3370		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:53	WG976256

Sample Narrative:

353.2 L905668-76 WG976256: Dilution due to matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	369		5.19	100	100	05/03/2017 22:39	WG975915
Fluoride	1.90		0.00990	0.100	1	05/03/2017 22:04	WG975915
Sulfate	1370		7.74	500	100	05/03/2017 22:39	WG975915

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00338		0.000250	0.00200	1	05/02/2017 19:27	WG975340
Arsenic,Dissolved	0.00324		0.000250	0.00200	1	05/10/2017 17:19	WG978287
Barium	0.0378		0.000360	0.00500	1	05/02/2017 19:27	WG975340
Barium,Dissolved	0.0415		0.000360	0.00500	1	05/10/2017 17:19	WG978287
Calcium	355		0.0460	1.00	1	05/02/2017 19:27	WG975340
Chromium	U		0.000540	0.00200	1	05/02/2017 19:27	WG975340
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 17:19	WG978287
Iron	U		0.0150	0.100	1	05/02/2017 19:27	WG975340
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 17:19	WG978287
Lead	U		0.00120	0.0100	5	05/02/2017 20:37	WG975340
Lead,Dissolved	0.000371	J	0.000240	0.00200	1	05/10/2017 17:19	WG978287
Manganese	0.784		0.000250	0.00500	1	05/02/2017 19:27	WG975340
Manganese,Dissolved	0.745		0.000250	0.00500	1	05/10/2017 17:19	WG978287
Potassium	2.26		0.0370	1.00	1	05/02/2017 19:27	WG975340
Selenium	0.0217		0.000380	0.00200	1	05/02/2017 19:27	WG975340
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 17:19	WG978287
Sodium	326		0.110	1.00	1	05/02/2017 19:27	WG975340

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	2.36		0.0314	0.100	1	05/01/2017 15:01	WG975393
(S) a,a,a-Trifluorotoluene(FID) 90.6				77.0-122		05/01/2017 15:01	WG975393

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/03/2017 22:30	WG975945
Benzene	0.290		0.00166	0.00500	5	05/04/2017 13:54	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 22:30	WG975945
Bromoform	U		0.000469	0.00100	1	05/03/2017 22:30	WG975945
Bromomethane	U		0.000866	0.00500	1	05/03/2017 22:30	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 22:30	WG975945



Collected date/time: 04/27/17 11:15

L905668

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
sec-Butylbenzene	0.0175		0.000365	0.00100	1	05/03/2017 22:30	WG975945
Carbon disulfide	0.00177		0.000275	0.00100	1	05/03/2017 22:30	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 22:30	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 22:30	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 22:30	WG975945
Chloroethane	U		0.000453	0.00500	1	05/03/2017 22:30	WG975945
Chloroform	U		0.000324	0.00500	1	05/03/2017 22:30	WG975945
Chloromethane	U		0.000276	0.00250	1	05/03/2017 22:30	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 22:30	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 22:30	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 22:30	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 22:30	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 22:30	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 22:30	WG975945
1,2-Dichloropropane	0.00182		0.000306	0.00100	1	05/03/2017 22:30	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 22:30	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 22:30	WG975945
Ethylbenzene	0.00105		0.000384	0.00100	1	05/03/2017 22:30	WG975945
Isopropylbenzene	0.0868		0.000326	0.00100	1	05/03/2017 22:30	WG975945
p-Isopropyltoluene	0.000668	L	0.000350	0.00100	1	05/03/2017 22:30	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 22:30	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 22:30	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 22:30	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 22:30	WG975945
Methyl tert-butyl ether	0.00435		0.000367	0.00100	1	05/03/2017 22:30	WG975945
Naphthalene	U		0.00100	0.00500	1	05/03/2017 22:30	WG975945
n-Propylbenzene	0.00499		0.000349	0.00100	1	05/03/2017 22:30	WG975945
Styrene	U		0.000307	0.00100	1	05/03/2017 22:30	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 22:30	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 22:30	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 22:30	WG975945
Toluene	0.00184		0.000412	0.00100	1	05/03/2017 22:30	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 22:30	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 22:30	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 22:30	WG975945
1,2,4-Trimethylbenzene	0.000991	L	0.000373	0.00100	1	05/03/2017 22:30	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 22:30	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 22:30	WG975945
o-Xylene	U		0.000341	0.00100	1	05/03/2017 22:30	WG975945
m&p-Xylene	0.0193		0.000719	0.00200	1	05/03/2017 22:30	WG975945
Xylenes, Total	0.0193		0.00106	0.00300	1	05/03/2017 22:30	WG975945
(S) Toluene-d8	103			80.0-120		05/03/2017 22:30	WG975945
(S) Toluene-d8	103			80.0-120		05/04/2017 13:54	WG975945
(S) Dibromofluoromethane	95.9			76.0-123		05/03/2017 22:30	WG975945
(S) Dibromofluoromethane	103			76.0-123		05/04/2017 13:54	WG975945
(S) 4-Bromofluorobenzene	91.3			80.0-120		05/04/2017 13:54	WG975945
(S) 4-Bromofluorobenzene	97.1			80.0-120		05/03/2017 22:30	WG975945

¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.21		0.0247	0.100	1	05/03/2017 09:04	WG975555
(S) o-Terphenyl	85.3			31.0-160		05/03/2017 09:04	WG975555



Method Blank (MB)

(MB) R3215908-1 05/03/17 12:09

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	2.82	10.0	

L905602-12 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-12 05/03/17 12:09 • (DUP) R3215908-4 05/03/17 12:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	8730	8810	1	0.912		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215908-2 05/03/17 12:09 • (LCSD) R3215908-3 05/03/17 12:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8590	98.5	97.6	85.0-115		0.927	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215796-1 05/02/17 14:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDRL mg/l
Dissolved Solids	U	2.82	10.0	

L905668-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-02 05/02/17 14:23 • (DUP) R3215796-4 05/02/17 14:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2210	2160	1	2.29		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215796-2 05/02/17 14:23 • (LCSD) R3215796-3 05/02/17 14:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8590	8570	97.6	97.4	85.0-115		0.233		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215603-1 05/02/17 15:55

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905668-13 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-13 05/02/17 15:55 • (DUP) R3215603-4 05/02/17 15:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	1580	1580	1	0.317		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215603-2 05/02/17 15:55 • (LCSD) R3215603-3 05/02/17 15:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8650	98.5	98.3	85.0-115		0.231		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215811-1 05/02/17 16:19

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U	2.82	10.0	

L905668-24 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-24 05/02/17 16:19 • (DUP) R3215811-4 05/02/17 16:19

Analyte	Original Result mg/l	DUP Result mg/l	<u>DUP Qualifier</u> mg/l	DUP RPD %	DUP RPD Limits %
Dissolved Solids	2420	2360	1	2.72	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215811-2 05/02/17 16:19 • (LCSD) R3215811-3 05/02/17 16:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> mg/l	<u>LCSD Qualifier</u> mg/l	RPD %	RPD Limits %
Dissolved Solids	8800	8440	8650	95.9	98.3	85.0-115		2.46	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215612-1 05/02/17 16:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905668-33 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-33 05/02/17 16:52 • (DUP) R3215612-4 05/02/17 16:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2930	2920	1	0.513		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215612-2 05/02/17 16:52 • (LCSD) R3215612-3 05/02/17 16:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8690	8700	98.8	98.9	85.0-115		0.115		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215597-1 05/02/17 17:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905668-43 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-43 05/02/17 17:49 • (DUP) R3215597-4 05/02/17 17:49

Analyte	Original Result mg/l	DUP Result mg/l	DUP Qualifier	DUP RPD %	DUP RPD Limits %
Dissolved Solids	1740	1770		1.99	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215597-2 05/02/17 17:49 • (LCSD) R3215597-3 05/02/17 17:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8700	8720	98.9	99.1	85.0-115		0.230	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215924-1 05/03/17 14:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905645-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-03 05/03/17 14:04 • (DUP) R3215924-4 05/03/17 14:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2730	2730	1	0.000		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215924-2 05/03/17 14:04 • (LCSD) R3215924-3 05/03/17 14:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8700	98.5	98.9	85.0-115		0.345		5

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215930-1 05/03/17 14:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905668-53 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-53 05/03/17 14:39 • (DUP) R3215930-4 05/03/17 14:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2420	2540	1	5.05	J3	5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215930-2 05/03/17 14:39 • (LCSD) R3215930-3 05/03/17 14:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8400	8450	95.5	96.0	85.0-115		0.593	5	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Methord Blank (MB)

(MB) R3215922-1 05/03/17 15:37

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
Dissolved Solids	U	2.82	10.0	

L905668-63 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-63 05/03/17 15:37 • (DUP) R3215922-4 05/03/17 15:37

Analyte	Original Result		DUP Result		Dilution		DUP RPD		<u>DUP Qualifier</u>		DUP RPD Limits	
	mg/l		mg/l				%			%	%	
Dissolved Solids	3160		3150		1		0.476				5	

Laboratory Control Sample (LCS)

(LCS) R3215922-2 05/03/17 15:37

Analyte	Spike Amount		LCS Result		LCS Rec.		Rec. Limits		<u>LCS Qualifier</u>	
	mg/l		mg/l		%		%			
Dissolved Solids	8800		8720		99.1		85.0-115			

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3215842-1 05/05/17 10:01

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U	0.0197	0.100	

L905651-07 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-07 05/05/17 10:04 • (DUP) R3215842-4 05/05/17 10:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Nitrate-Nitrite	4.90	4.86	1	1		20

L905651-09 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-09 05/05/17 10:13 • (DUP) R3215842-7 05/05/17 10:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Nitrate-Nitrite	0.127	0.0950	1	29	<u>J P1</u>	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215842-2 05/05/17 10:02 • (LCSD) R3215842-3 05/05/17 10:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	5.16	4.96	103	99	90-110			4	20

L905651-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-08 05/05/17 10:06 • (MS) R3215842-5 05/05/17 10:07 • (MSD) R3215842-6 05/05/17 10:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	0.0310	0.239	0.220	4	4	1	90-110	<u>J6</u>	<u>J6</u>	8	20

L905651-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L905651-10 05/05/17 10:15 • (MS) R3215842-8 05/05/17 10:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Nitrate-Nitrite	5.00	0.0220	4.69	93	1	90-110	



Method Blank (MB)

(MB) R3215383-4 05/03/17 15:26

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U	0.0197	0.100	0.100

L905668-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-23 05/03/17 15:39 • (DUP) R3215383-7 05/03/17 15:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Nitrate-Nitrite	0.0370	0.000	1	200	P1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215383-5 05/03/17 15:27 • (LCSD) R3215383-6 05/03/17 15:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	4.77	5.10	95	102	90-110		7		20

L905668-26 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-26 05/03/17 15:43 • (MS) R3215383-8 05/03/17 15:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Nitrate-Nitrite	5.00	0.0340	4.87	97	1	90-110	



Method Blank (MB)

(MB) R3215604-1 05/04/17 14:01			
Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l
Nitrate-Nitrite	U		0.0197
			0.100

L905668-38 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-38 05/04/17 14:05 • (DUP) R3215604-4 05/04/17 14:06					
	Original Result	DUP Result	Dilution	DUP RPD	
	mg/l	mg/l		%	
Analyte					DUP Qualifier
					DUP RPD Limits
Nitrate-Nitrite	U	0.000	10	0	%
					20

L905668-47 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-47 05/04/17 14:20 • (DUP) R3215604-6 05/04/17 14:21					
	Original Result	DUP Result	Dilution	DUP RPD	
	mg/l	mg/l		%	
Analyte					DUP Qualifier
					DUP RPD Limits
Nitrate-Nitrite	U	0.000	10	0	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215604-2 05/04/17 14:03 • (LCSD) R3215604-3 05/04/17 14:04									
Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD Limits %
Nitrate-Nitrite	5.00	5.12	5.02	102	100	90-110		2	20

L905668-43 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-43 05/04/17 14:15 • (MS) R3215604-5 05/04/17 14:16						
Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %
Nitrate-Nitrite	5.00	U	47.2	94	10	90-110

L905668-57 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits %
Nitrate-Nitrite	5.00	0.260	48.3	48.6	96	97	10	90-110			1	20



Method Blank (MB)

(MB) R3215560-1 05/04/17 11:23

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL
Nitrate-Nitrite	U		0.0197	0.100

L905668-59 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-59 05/04/17 11:26 • (DUP) R3215560-4 05/04/17 11:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Nitrate-Nitrite	0.342	0.375	10	9	J	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215560-2 05/04/17 11:24 • (LCSD) R3215560-3 05/04/17 11:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits %
Nitrate-Nitrite	5.00	4.84	4.68	97	94	90-110		3	3	20

L905668-61 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-61 05/04/17 11:30 • (MS) R3215560-5 05/04/17 11:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Nitrate-Nitrite	5.00	U	46.5	931	10	90-110	J5

L905720-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905720-01 05/04/17 11:56 • (MS) R3215560-7 05/04/17 12:01 • (MSD) R3215560-8 05/04/17 12:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits %
Nitrate-Nitrite	5.00	0.156	4.90	4.99	95	97	1	90-110		2	2	20



Method Blank (MB)

(MB) R3215689-1 05/04/17 15:48

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RD L mg/l
Nitrate-Nitrite	U	0.0197	0.100	

L905668-31 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-31 05/04/17 15:56 • (DUP) R3215689-4 05/04/17 15:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Nitrate-Nitrite	U	0.000	10	0		20

L905668-37 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-37 05/04/17 16:08 • (DUP) R3215689-6 05/04/17 16:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Nitrate-Nitrite	0.416	0.263	10	45	<u>JP1</u>	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215689-2 05/04/17 15:49 • (LCSD) R3215689-3 05/04/17 15:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	5.07	4.96	101	99	90-110			2	20

L905668-36 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-36 05/04/17 16:06 • (MS) R3215689-5 05/04/17 16:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %
Nitrate-Nitrite	5.00	U	45.1	90	10	90-110	

L905809-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905809-01 05/04/17 16:18 • (MS) R3215689-7 05/04/17 16:19 • (MSD) R3215689-8 05/04/17 16:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD Limits %
Nitrate-Nitrite	5.00	U	4.97	5.01	99	100	1	90-110		1	20



Method Blank (MB)

(MB) R3217483-1 05/11/17 22:27

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U	0.0197	0.100	0.100

L905668-69 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-69 05/11/17 22:30 • (DUP) R3217483-4 05/11/17 22:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Nitrate-Nitrite	U	0.000	1	0	20	20

L905668-68 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-68 05/11/17 23:07 • (DUP) R3217483-8 05/11/17 23:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Nitrate-Nitrite	U	0.000	1	0	20	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3217483-2 05/11/17 22:28 • (LCSD) R3217483-3 05/11/17 22:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	4.82	4.75	96	95	90-110	2	2	20	20

L906934-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L906934-01 05/11/17 22:32 • (MS) R3217483-5 05/11/17 22:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %
Nitrate-Nitrite	5.00	0.564	5.04	89	1	90-110	<u>J6</u>

L907485-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L907485-12 05/11/17 22:54 • (MS) R3217483-6 05/11/17 22:55 • (MSD) R3217483-7 05/11/17 22:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	ND	4.52	4.59	90	92	1	90-110	2	2	20	20



Method Blank (MB)

(MB) R3214912-1 05/02/17 10:38

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RD L mg/l
Cyanide	U	0.0018	0.0018	0.00500

L905561-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905561-02 05/02/17 10:51 • (DUP) R3214912-6 05/02/17 10:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Cyanide	ND	0.000	1	0		20

L905668-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-23 05/02/17 11:03 • (DUP) R3214912-7 05/02/17 11:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Cyanide	U	0.000	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214912-2 05/02/17 10:39 • (LCSD) R3214912-3 05/02/17 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Cyanide	0.100	0.105	0.0907	105	91	85-115			15	20

L905437-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905437-02 05/02/17 10:44 • (MS) R3214912-4 05/02/17 10:45 • (MSD) R3214912-5 05/02/17 10:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Cyanide	0.100	ND	0.101	0.0997	101	100	1	75-125			1	20



Method Blank (MB)

(MB) R3215026-1 05/02/17 15:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U	0.0018	0.0018	0.00500

L905722-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905722-02 05/02/17 15:08 • (DUP) R3215026-4 05/02/17 15:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	0.00184	1	0	20	20

L905971-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905971-02 05/02/17 15:35 • (DUP) R3215026-9 05/02/17 15:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0.000	1	0	20	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215026-2 05/02/17 15:01 • (LCSD) R3215026-3 05/02/17 15:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.105	0.107	105	105	85-115			2	20

L905345-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905345-06 05/02/17 15:18 • (MS) R3215026-5 05/02/17 15:19 • (MSD) R3215026-6 05/02/17 15:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.105	0.0997	105	100	1	75-125			5	20

L905855-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905855-04 05/02/17 15:29 • (MS) R3215026-7 05/02/17 15:30 • (MSD) R3215026-8 05/02/17 15:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	U	0.0733	0.104	73	104	1	75-125	J6	J3	35	20



Method Blank (MB)

(MB) R3215193-1 05/02/17 11:02

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Chloride	U	0.0519	1.00	
Fluoride	U	0.0099	0.100	
Sulfate	U	0.0774	5.00	

L905668-14 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-14 05/02/17 16:00 • (DUP) R3215193-4 05/02/17 16:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Fluoride	1.28	1.26	1	1		15

L905668-14 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-14 05/02/17 16:15 • (DUP) R3215193-5 05/02/17 16:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	456	346	20	27	J3	15
Sulfate	366	274	20	29	P1	15

L905668-15 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-15 05/02/17 17:02 • (DUP) R3215193-6 05/02/17 18:05

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Fluoride	0.965	0.976	1	1		15

L905668-15 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-15 05/02/17 17:50 • (DUP) R3215193-7 05/02/17 18:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	260	252	20	3		15
Sulfate	211	202	20	5		15



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215193-2 05/02/17 11:17 • (LCSD) R3215193-3 05/02/17 11:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40.0	40.6	40.5	101	101	80-120			0	15
Fluoride	8.00	8.16	8.13	102	102	80-120			0	15
Sulfate	40.0	41.0	40.9	103	102	80-120			0	15

L905668-18 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-18 05/02/17 19:38 • (MS) R3215193-8 05/02/17 20:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Fluoride	5.00	0.419	4.84	88	1	80-120	

L905668-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-28 05/03/17 02:34 • (MS) R3215193-9 05/03/17 03:05 • (MSD) R3215193-10 05/03/17 03:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Fluoride	5.00	2.00	6.36	6.34	87	87	1	80-120		0		15



Method Blank (MB)

(MB) R3215504-1 05/03/17 12:01

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Chloride	U	0.0519	1.00	
Fluoride	U	0.0099	0.100	
Sulfate	U	0.0774	5.00	

L905668-36 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-36 05/03/17 16:54 • (DUP) R3215504-6 05/03/17 17:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Fluoride	0.936	0.931	1	1		15

L905668-36 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-36 05/03/17 17:10 • (DUP) R3215504-7 05/03/17 17:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	328	323	50	2		15
Sulfate	1200	1180	50	2		15

L905668-44 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-44 05/04/17 00:30 • (DUP) R3215504-9 05/04/17 01:01

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Fluoride	2.61	2.61	1	0		15

L905668-44 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-44 05/04/17 00:46 • (DUP) R3215504-10 05/04/17 01:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	398	387	50	3		15
Sulfate	2950	2880	50	3		15



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215504-2 05/03/17 12:17 • (LCSD) R3215504-3 05/03/17 12:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40.0	38.8	40.3	97	101	80-120			4	15
Fluoride	8.00	7.74	8.04	97	100	80-120			4	15
Sulfate	40.0	38.8	40.3	97	101	80-120			4	15

L905345-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905345-06 05/03/17 13:49 • (MS) R3215504-4 05/03/17 14:05 • (MSD) R3215504-5 05/03/17 14:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	50.0	56.4	106	106	99	99	1	80-120	<u>E</u>	<u>E</u>	0	15
Fluoride	5.00	0.225	5.42	5.44	104	104	1	80-120			0	15
Sulfate	50.0	12.3	64.5	64.7	104	105	1	80-120			0	15

L905668-42 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-42 05/03/17 22:42 • (MS) R3215504-8 05/03/17 23:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Fluoride	5.00	0.868	5.36	90	1	80-120	



Method Blank (MB)

(MB) R3215484-1 05/03/17 05:23

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Chloride	U	0.0519	1.00	
Fluoride	U	0.0099	0.100	
Sulfate	U	0.0774	5.00	

L905668-47 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-47 05/03/17 14:03 • (DUP) R3215484-4 05/03/17 14:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	0.365	0.208	1	55	<u>J P1</u>	15
Fluoride	U	0.000	1	0		15
Sulfate	U	0.000	1	0		15

L905668-62 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-62 05/03/17 20:28 • (DUP) R3215484-8 05/03/17 20:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Chloride	285	289	20	1		15

L905668-62 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-62 05/03/17 21:50 • (DUP) R3215484-9 05/03/17 22:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u> %	DUP RPD Limits %
Fluoride	0.773	0.762	1	1		15
Sulfate	10.3	10.3	1	0		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215484-2 05/03/17 05:35 • (LCSD) R3215484-3 05/03/17 05:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Chloride	40.0	40.1	40.0	100	100	80-120			0	15
Fluoride	8.00	8.10	8.04	101	100	80-120			1	15
Sulfate	40.0	39.0	38.5	98	96	80-120			1	15



L905668-48 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-48 05/03/17 14:50 • (MS) R3215484-5 05/03/17 15:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.326	51.0	101	1	80-120	
Fluoride	5.00	U	5.02	100	1	80-120	
Sulfate	50.0	U	51.3	103	1	80-120	

L905668-61 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-61 05/03/17 19:53 • (MS) R3215484-6 05/03/17 20:05 • (MSD) R3215484-7 05/03/17 20:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	1.02	6.01	5.58	100	91	1	80-120		7	7	15
Sulfate	50.0	44.1	89.5	89.8	91	91	1	80-120		0	0	15

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3215492-1 05/03/17 05:35

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDLC
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	0.436	J	0.0774	5.00

L905711-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905711-01 05/03/17 13:39 • (DUP) R3215492-4 05/03/17 13:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Chloride	5.88	6.47	1	10		15
Fluoride	0.105	0.0864	1	19	P1	15
Sulfate	ND	0.925	1	0		15

L905711-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905711-03 05/03/17 20:20 • (DUP) R3215492-6 05/03/17 20:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Fluoride	ND	0.0837	1	0		15
Sulfate	5.59	5.49	1	2		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215492-2 05/03/17 05:52 • (LCSD) R3215492-3 05/03/17 06:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloride	40.0	40.5	40.2	101	100	80-120			1	15
Fluoride	8.00	8.16	8.12	102	102	80-120			0	15
Sulfate	40.0	41.3	40.9	103	102	80-120			1	15

L905711-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L905711-02 05/03/17 14:14 • (MS) R3215492-5 05/03/17 14:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	4.24	54.7	101	1	80-120	
Fluoride	5.00	ND	5.16	103	1	80-120	
Sulfate	50.0	ND	52.2	101	1	80-120	



L905711-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905711-04 05/03/17 20:54 • (MS) R3215492-7 05/03/17 21:12 • (MSD) R3215492-8 05/03/17 21:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	
											%	%
Chloride	50.0	5.25	55.2	55.3	100	100	1	80-120	0	0	15	
Fluoride	5.00	ND	5.14	5.10	102	101	1	80-120	1	1	15	
Sulfate	50.0	ND	53.4	53.1	101	100	1	80-120	1	1	15	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215820-1 05/04/17 06:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/04/17 12:33 • (DUP) R3215820-4 05/04/17 13:25

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	74.0	81.0	10	9		15
Fluoride	2.03	1.82	10	11		15
Sulfate	717	730	10	2		15

L905831-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905831-01 05/04/17 21:33 • (DUP) R3215820-8 05/04/17 21:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.27	3.13	1	4		15
Fluoride	0.107	0.107	1	0		15
Sulfate	16.4	16.4	1	0		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215820-2 05/04/17 06:33 • (LCSD) R3215820-3 05/04/17 06:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.3	40.1	101	100	80-120			0	15
Fluoride	8.00	8.11	8.08	101	101	80-120			0	15
Sulfate	40.0	40.5	40.3	101	101	80-120			0	15

L905668-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-20 05/04/17 13:42 • (MS) R3215820-5 05/04/17 14:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	1.09	5.87	96	1	80-120	
Sulfate	50.0	11.3	59.9	97	1	80-120	



L905847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905847-01 05/04/17 15:44 • (MS) R3215820-6 05/04/17 16:37 • (MSD) R3215820-7 05/04/17 16:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Chloride	50.0	1.49	52.4	52.7	102	102	1	80-120			1	15
Fluoride	5.00	U	5.19	5.19	104	104	1	80-120			0	15
Sulfate	50.0	1.18	52.1	52.1	102	102	1	80-120			0	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215800-1 05/04/17 06:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RD L
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/05/17 00:48 • (DUP) R3215800-10 05/05/17 01:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	80.4	76.9	1	4		15
Fluoride	1.90	2.18	1	14		15

L905651-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-10 05/05/17 09:57 • (DUP) R3215800-12 05/05/17 10:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.289	0.126	1	79	J P1	15
Fluoride	0.0207	0.000	1	200	P1	15
Sulfate	0.238	0.000	1	200	P1	15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215800-2 05/04/17 06:25 • (LCSD) R3215800-3 05/04/17 06:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.2	40.2	100	100	80-120			0	15
Fluoride	8.00	8.07	8.06	101	101	80-120			0	15
Sulfate	40.0	40.4	40.4	101	101	80-120			0	15

L905645-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L905645-06 05/04/17 12:55 • (MS) R3215800-6 05/04/17 13:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.472	50.9	101	1	80-120	
Fluoride	5.00	U	5.06	101	1	80-120	
Sulfate	50.0	U	51.3	103	1	80-120	



L905668-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-08 05/04/17 23:46 • (MS) R3215800-8 05/05/17 00:17 • (MSD) R3215800-9 05/05/17 00:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Fluoride	5.00	0.668	5.39	5.41	94	95	1	80-120			0	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215959-1 05/05/17 09:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLC
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905668-68 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-68 05/05/17 13:56 • (DUP) R3215959-5 05/05/17 14:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.357	0.358	1	0	J	15
Fluoride	U	0.000	1	0		15

L906658-07 Original Sample (OS) • Duplicate (DUP)

(OS) L906658-07 05/05/17 16:25 • (DUP) R3215959-8 05/05/17 16:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.71	3.77	1	2		15
Fluoride	ND	0.0658	1	0		15
Sulfate	12.5	12.7	1	1		15

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215959-2 05/05/17 09:52 • (LCSD) R3215959-3 05/05/17 10:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	39.4	39.4	99	99	80-120			0	15
Fluoride	8.00	7.99	8.01	100	100	80-120			0	15
Sulfate	40.0	40.2	40.3	100	101	80-120			0	15

L905756-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L905756-03 05/05/17 14:35 • (MS) R3215959-6 05/05/17 14:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	15.8	65.4	99	1	80-120	
Fluoride	5.00	0.111	5.25	103	1	80-120	
Sulfate	50.0	11.7	62.1	101	1	80-120	



L906658-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906658-09 05/05/17 17:14 • (MS) R3215959-9 05/05/17 17:24 • (MSD) R3215959-10 05/05/17 17:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Chloride	50.0	ND	50.5	51.5	100	102	1	80-120			2	15
Fluoride	5.00	ND	5.14	5.13	103	103	1	80-120			0	15
Sulfate	50.0	ND	51.2	50.9	102	102	1	80-120			1	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215049-1 05/02/17 15:24

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Mercury	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215049-2 05/02/17 15:27 • (LCSD) R3215049-3 05/02/17 15:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Mercury	0.00300	0.00287	0.00282	96	94	80-120			2	20

L905668-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-17 05/02/17 15:31 • (MS) R3215049-4 05/02/17 15:34 • (MSD) R3215049-5 05/02/17 15:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD %	RPD Limits %
Mercury	0.00300	U	0.00270	0.00268	90	89	1	75-125		1		20



Method Blank (MB)

(MB) R3215030-1 05/02/17 13:31

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Mercury, Dissolved	U	0.000049	0.000200	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215030-2 05/02/17 13:33 • (LCSD) R3215030-3 05/02/17 13:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Mercury, Dissolved	0.00300	0.00280	0.00275	93	92	80-120	2	20	

L905670-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905670-11 05/02/17 13:37 • (MS) R3215030-4 05/02/17 13:40 • (MSD) R3215030-5 05/02/17 13:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD %	RPD Limits %
Mercury, Dissolved	0.00300	ND	0.00289	0.00276	96	92	1	75-125	4	4	20	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215164-1 05/03/17 01:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	0.000992	J	0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.00053	J	0.00025	0.00500
Nickel,Dissolved	0.000357	J	0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	U		0.00018	0.00500

Method Blank (MB)

(MB) R3215416-1 05/03/17 20:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0015	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215164-2 05/03/17 01:06 • (LCSD) R3215164-3 05/03/17 01:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0481	0.0492	96	98	80-120			2	20
Barium,Dissolved	0.0500	0.0491	0.0482	98	96	80-120			2	20
Cadmium,Dissolved	0.0500	0.0487	0.0509	97	102	80-120			4	20
Chromium,Dissolved	0.0500	0.0489	0.0495	98	99	80-120			1	20
Cobalt,Dissolved	0.0500	0.0509	0.0502	102	100	80-120			1	20
Iron,Dissolved	5.00	4.99	4.94	100	99	80-120			1	20
Lead,Dissolved	0.0500	0.0496	0.0492	99	98	80-120			1	20
Manganese,Dissolved	0.0500	0.0490	0.0479	98	96	80-120			2	20
Nickel,Dissolved	0.0500	0.0510	0.0505	102	101	80-120			1	20
Selenium,Dissolved	0.0500	0.0481	0.0482	96	96	80-120			0	20
Uranium,Dissolved	0.0500	0.0482	0.0483	96	97	80-120			0	20
Vanadium,Dissolved	0.0500	0.0486	0.0483	97	97	80-120			1	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215416-2 05/03/17 20:33 • (LCSD) R3215416-3 05/03/17 20:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Boron,Dissolved	0.0500	0.0426	0.0455	85	91	80-120			7	20

L905668-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-21 05/03/17 01:13 • (MS) R3215164-5 05/03/17 01:20 • (MSD) R3215164-6 05/03/17 01:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00381	0.0515	0.0522	95	97	1	75-125			1	20
Barium,Dissolved	0.0500	0.0709	0.121	0.124	101	107	1	75-125			2	20
Cadmium,Dissolved	0.0500	U	0.0507	0.0513	101	103	1	75-125			1	20
Chromium,Dissolved	0.0500	0.000690	0.0490	0.0502	97	99	1	75-125			2	20
Cobalt,Dissolved	0.0500	U	0.0487	0.0489	97	98	1	75-125			1	20
Iron,Dissolved	5.00	U	4.86	4.94	97	99	1	75-125			2	20
Lead,Dissolved	0.0500	U	0.0500	0.0501	100	100	1	75-125			0	20
Manganese,Dissolved	0.0500	0.0245	0.0707	0.0737	92	98	1	75-125			4	20
Nickel,Dissolved	0.0500	0.00118	0.0491	0.0489	96	95	1	75-125			1	20
Selenium,Dissolved	0.0500	U	0.0495	0.0490	99	98	1	75-125			1	20
Uranium,Dissolved	0.0500	U	0.0516	0.0517	103	103	1	75-125			0	20
Vanadium,Dissolved	0.0500	0.000712	0.0499	0.0506	98	100	1	75-125			2	20



Method Blank (MB)

(MB) R3215480-1 05/03/17 23:21

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0015	0.0200

Method Blank (MB)

(MB) R3215996-1 05/05/17 17:18

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	0.000845	J	0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	0.000218	J	0.00018	0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215480-2 05/03/17 23:24 • (LCSD) R3215480-3 05/03/17 23:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Boron,Dissolved	0.0500	0.0437	0.0441	87	88	80-120			1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215996-2 05/05/17 17:22 • (LCSD) R3215996-3 05/05/17 17:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0471	0.0471	94	94	80-120			0	20
Barium,Dissolved	0.0500	0.0479	0.0488	96	98	80-120			2	20
Cadmium,Dissolved	0.0500	0.0475	0.0482	95	96	80-120			1	20
Chromium,Dissolved	0.0500	0.0481	0.0486	96	97	80-120			1	20
Cobalt,Dissolved	0.0500	0.0496	0.0501	99	100	80-120			1	20
Iron,Dissolved	5.00	4.82	4.90	96	98	80-120			2	20
Lead,Dissolved	0.0500	0.0476	0.0482	95	96	80-120			1	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215996-2 05/05/17 17:22 • (LCSD) R3215996-3 05/05/17 17:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Manganese,Dissolved	0.0500	0.0476	0.0475	95	95	80-120			0	20
Nickel,Dissolved	0.0500	0.0492	0.0494	98	99	80-120			0	20
Selenium,Dissolved	0.0500	0.0461	0.0460	92	92	80-120			0	20
Uranium,Dissolved	0.0500	0.0489	0.0490	98	98	80-120			0	20
Vanadium,Dissolved	0.0500	0.0476	0.0477	95	95	80-120			0	20

L905668-38 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-38 05/05/17 17:29 • (MS) R3215996-5 05/05/17 17:36 • (MSD) R3215996-6 05/05/17 17:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.000531	0.0480	0.0475	95	94	1	75-125			1	20
Barium,Dissolved	0.0500	0.0173	0.0638	0.0650	93	95	1	75-125			2	20
Cadmium,Dissolved	0.0500	U	0.0492	0.0486	98	97	1	75-125			1	20
Chromium,Dissolved	0.0500	U	0.0478	0.0466	96	93	1	75-125			3	20
Cobalt,Dissolved	0.0500	U	0.0478	0.0471	96	94	1	75-125			1	20
Iron,Dissolved	5.00	U	4.75	4.69	95	94	1	75-125			1	20
Lead,Dissolved	0.0500	U	0.0479	0.0479	96	96	1	75-125			0	20
Manganese,Dissolved	0.0500	0.451	0.491	0.486	79	71	1	75-125	<u>V</u>		1	20
Nickel,Dissolved	0.0500	0.000907	0.0479	0.0466	94	91	1	75-125			3	20
Selenium,Dissolved	0.0500	U	0.0483	0.0476	97	95	1	75-125			2	20
Uranium,Dissolved	0.0500	0.000637	0.0511	0.0513	101	101	1	75-125			0	20
Vanadium,Dissolved	0.0500	0.000468	0.0483	0.0475	96	94	1	75-125			2	20



Method Blank (MB)

(MB) R3215104-1 05/02/17 20:58

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Boron,Dissolved	U		0.0015	0.0200
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	0.000702	J	0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	0.000202	J	0.00018	0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215104-2 05/02/17 21:02 • (LCSD) R3215104-3 05/02/17 21:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0525	0.0498	105	100	80-120			5	20
Barium,Dissolved	0.0500	0.0502	0.0482	100	96	80-120			4	20
Boron,Dissolved	0.0500	0.0447	0.0438	89	88	80-120			2	20
Cadmium,Dissolved	0.0500	0.0519	0.0508	104	102	80-120			2	20
Chromium,Dissolved	0.0500	0.0523	0.0505	105	101	80-120			4	20
Cobalt,Dissolved	0.0500	0.0543	0.0521	109	104	80-120			4	20
Iron,Dissolved	5.00	5.24	5.01	105	100	80-120			5	20
Lead,Dissolved	0.0500	0.0514	0.0502	103	100	80-120			2	20
Manganese,Dissolved	0.0500	0.0500	0.0497	100	99	80-120			1	20
Nickel,Dissolved	0.0500	0.0525	0.0506	105	101	80-120			4	20
Selenium,Dissolved	0.0500	0.0508	0.0500	102	100	80-120			2	20
Uranium,Dissolved	0.0500	0.0486	0.0482	97	96	80-120			1	20
Vanadium,Dissolved	0.0500	0.0510	0.0492	102	98	80-120			4	20



L905668-45 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-45 05/02/17 21:09 • (MS) R3215104-5 05/02/17 21:17 • (MSD) R3215104-6 05/02/17 21:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00466	0.0524	0.0532	95	97	1	75-125			2	20
Barium,Dissolved	0.0500	0.00895	0.0597	0.0582	101	99	1	75-125			2	20
Boron,Dissolved	0.0500	0.704	0.796	0.812	185	216	1	75-125	V	V	2	20
Cadmium,Dissolved	0.0500	U	0.0512	0.0485	102	97	1	75-125			5	20
Chromium,Dissolved	0.0500	U	0.0496	0.0505	99	101	1	75-125			2	20
Cobalt,Dissolved	0.0500	U	0.0491	0.0496	98	99	1	75-125			1	20
Iron,Dissolved	5.00	U	4.89	4.93	98	99	1	75-125			1	20
Lead,Dissolved	0.0500	U	0.0497	0.0488	99	98	1	75-125			2	20
Manganese,Dissolved	0.0500	0.00835	0.0560	0.0578	95	99	1	75-125			3	20
Nickel,Dissolved	0.0500	U	0.0478	0.0486	96	97	1	75-125			2	20
Selenium,Dissolved	0.0500	0.00588	0.0569	0.0580	102	104	1	75-125			2	20
Uranium,Dissolved	0.0500	0.0424	0.0928	0.0914	101	98	1	75-125			1	20
Vanadium,Dissolved	0.0500	0.0205	0.0689	0.0706	97	100	1	75-125			2	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215762-1 05/05/17 01:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	0.000556	J	0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	0.00047	J	0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	0.00023	J	0.00018	0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215762-2 05/05/17 01:53 • (LCSD) R3215762-3 05/05/17 01:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0489	0.0484	98	97	80-120			1	20
Barium,Dissolved	0.0500	0.0537	0.0541	107	108	80-120			1	20
Cadmium,Dissolved	0.0500	0.0483	0.0488	97	98	80-120			1	20
Chromium,Dissolved	0.0500	0.0514	0.0507	103	101	80-120			1	20
Cobalt,Dissolved	0.0500	0.0507	0.0514	101	103	80-120			1	20
Iron,Dissolved	5.00	5.02	5.02	100	100	80-120			0	20
Lead,Dissolved	0.0500	0.0496	0.0499	99	100	80-120			1	20
Manganese,Dissolved	0.0500	0.0498	0.0500	100	100	80-120			0	20
Nickel,Dissolved	0.0500	0.0515	0.0516	103	103	80-120			0	20
Selenium,Dissolved	0.0500	0.0484		97		80-120				
Uranium,Dissolved	0.0500	0.0481	0.0484	96	97	80-120			0	20
Vanadium,Dissolved	0.0500	0.0499	0.0505	100	101	80-120			1	20

L905645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905645-01 05/05/17 02:01 • (MS) R3215762-5 05/05/17 02:08 • (MSD) R3215762-6 05/05/17 02:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.00660	0.0555	0.0537	98	94	1	75-125		3	20
Barium,Dissolved	0.0500	0.0188	0.0730	0.0739	108	110	1	75-125		1	20
Cadmium,Dissolved	0.0500	U	0.0483	0.0477	97	95	1	75-125		1	20



L905645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905645-01 05/05/17 02:01 • (MS) R3215762-5 05/05/17 02:08 • (MSD) R3215762-6 05/05/17 02:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD		RPD Limits	
											%	%	%	%
Chromium,Dissolved	0.0500	0.0114	0.0618	0.0600	101	97	1	75-125		3		3		20
Cobalt,Dissolved	0.0500	U	0.0485	0.0474	97	95	1	75-125		2		2		20
Iron,Dissolved	5.00	U	4.90	4.80	98	96	1	75-125		2		2		20
Lead,Dissolved	0.0500	0.000416	0.0509	0.0500	101	99	1	75-125		2		2		20
Manganese,Dissolved	0.0500	1.04	1.10	1.09	120	104	1	75-125		1		1		20
Nickel,Dissolved	0.0500	0.00727	0.0556	0.0541	97	94	1	75-125		3		3		20
Selenium,Dissolved	0.0500	0.000623	0.0487	0.0472	96	93	1	75-125		3		3		20
Uranium,Dissolved	0.0500	0.00128	0.0520	0.0512	101	100	1	75-125		1		1		20
Vanadium,Dissolved	0.0500	0.000789	0.0510	0.0505	100	99	1	75-125		1		1		20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215716-1 05/04/17 19:11

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	0.000414	J	0.00038	0.00200
Sodium	U		0.11	1.00
Vanadium	U		0.00018	0.00500

Method Blank (MB)

(MB) R3215716-7 05/04/17 21:57

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00024	0.00200
Uranium	U		0.00033	0.0100

Method Blank (MB)

(MB) R3215787-1 05/05/17 07:15

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Boron	0.00649	J	0.0015	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215716-2 05/04/17 19:14 • (LCSD) R3215716-3 05/04/17 19:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	0.0498	0.0500	100	100	80-120			0	20
Barium	0.0500	0.0523	0.0504	105	101	80-120			4	20
Cadmium	0.0500	0.0508	0.0504	102	101	80-120			1	20
Calcium	5.00	4.95	5.05	99	101	80-120			2	20
Chromium	0.0500	0.0496	0.0509	99	102	80-120			3	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215716-2 05/04/17 19:14 • (LCSD) R3215716-3 05/04/17 19:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	LCSD Result mg/l	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Cobalt	0.0500	0.0515	103	0.0527	105	80-120			2	20
Iron	5.00	5.01	100	5.14	103	80-120			3	20
Manganese	0.0500	0.0489	98	0.0506	101	80-120			3	20
Nickel	0.0500	0.0508	102	0.0530	106	80-120			4	20
Potassium	5.00	4.99	100	4.89	98	80-120			2	20
Selenium	0.0500	0.0476	95	0.0475	95	80-120			0	20
Sodium	5.00	5.00	100	4.93	99	80-120			2	20
Vanadium	0.0500	0.0492	98	0.0501	100	80-120			2	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215716-8 05/04/17 22:01 • (LCSD) R3215716-9 05/04/17 22:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	LCSD Result mg/l	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Lead	0.0500	0.0493	99	0.0486	97	80-120			1	20
Uranium	0.0500	0.0448	90	0.0448	90	80-120			0	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215787-2 05/05/17 07:19 • (LCSD) R3215787-3 05/05/17 08:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	LCSD Result mg/l	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Boron	0.0500	0.0498	100	0.0475	95	80-120			5	20

L905668-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-03 05/04/17 19:21 • (MS) R3215716-5 05/04/17 19:28 • (MSD) R3215716-6 05/04/17 19:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	0.00391	0.0529	0.0528	98	98	1	75-125			0	20
Barium	0.0500	0.0198	0.0709	0.0713	102	103	1	75-125			1	20
Cadmium	0.0500	U	0.0503	0.0500	101	100	1	75-125			1	20
Calcium	5.00	263	263	266	0	58	1	75-125	Y	Y	1	20
Chromium	0.0500	U	0.0472	0.0461	94	92	1	75-125			3	20
Cobalt	0.0500	0.000928	0.0492	0.0498	96	98	1	75-125			1	20
Potassium	5.00	0.676	5.46	5.50	96	97	1	75-125			1	20
Iron	5.00	0.0756	4.89	4.91	96	97	1	75-125			0	20
Manganese	0.0500	0.0972	0.143	0.142	92	90	1	75-125			1	20
Nickel	0.0500	0.00518	0.0529	0.0521	95	94	1	75-125			1	20



L905668-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-03 05/04/17 19:21 • (MS) R3215716-5 05/04/17 19:28 • (MSD) R3215716-6 05/04/17 19:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Selenium	0.0500	0.0101	0.0596	0.0610	99	102	1	75-125			2	20
Sodium	5.00	290	290	294	2	97	1	75-125	V		2	20
Vanadium	0.0500	0.0189	0.0667	0.0678	96	98	1	75-125			2	20

L905668-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-03 05/04/17 22:08 • (MS) R3215716-11 05/04/17 22:15 • (MSD) R3215716-12 05/04/17 22:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Lead	0.0500	U	0.0495	0.0489	99	98	1	75-125			1	20
Uranium	0.0500	0.0185	0.0667	0.0656	96	94	1	75-125			2	20

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc



Method Blank (MB)

(MB) R3214864-1 05/02/17 02:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	0.000186	J	0.00018	0.00500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3214985-1 05/02/17 12:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0015	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214864-2 05/02/17 02:35 • (LCSD) R3214864-3 05/02/17 02:39

Analyte	Spike Amount mg/l	LCS Result		LCSD Result		LCS Rec.		LCSD Rec.		Rec. Limits		LCS Qualifier		LCSD Qualifier		RPD		RPD Limits	
		mg/l	%	mg/l	%	mg/l	%	mg/l	%	%	%	%	%	%	%	%	%	%	%
Arsenic	0.0500	0.0466	93	0.0456	91	93	91	0.0456	91	80-120	80-120	2	2	80-120	2	2	20	20	20
Barium	0.0500	0.0439	88	0.0434	87	88	87	0.0434	87	80-120	80-120	1	1	80-120	1	1	20	20	20
Cadmium	0.0500	0.0476	95	0.0482	96	95	96	0.0482	96	80-120	80-120	1	1	80-120	1	1	20	20	20
Calcium	5.00	4.56	91	4.51	90	91	90	4.51	90	80-120	80-120	1	1	80-120	1	1	20	20	20
Chromium	0.0500	0.0483	97	0.0476	95	97	95	0.0476	95	80-120	80-120	2	2	80-120	2	2	20	20	20
Cobalt	0.0500	0.0501	100	0.0493	99	100	99	0.0493	99	80-120	80-120	1	1	80-120	1	1	20	20	20
Iron	5.00	4.84	97	4.76	95	97	95	4.76	95	80-120	80-120	2	2	80-120	2	2	20	20	20
Lead	0.0500	0.0469	94	0.0470	94	94	94	0.0470	94	80-120	80-120	0	0	80-120	0	0	20	20	20
Manganese	0.0500	0.0467	93	0.0462	92	93	92	0.0462	92	80-120	80-120	1	1	80-120	1	1	20	20	20
Nickel	0.0500	0.0499	100	0.0494	99	100	99	0.0494	99	80-120	80-120	1	1	80-120	1	1	20	20	20
Potassium	5.00	4.66	93	4.57	91	93	91	4.57	91	80-120	80-120	2	2	80-120	2	2	20	20	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214864-2 05/02/17 02:35 • (LCSD) R3214864-3 05/02/17 02:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits %
Selenium	0.0500	0.0472	0.0456	94	91	80-120			3	20
Sodium	5.00	5.00	4.95	100	99	80-120			1	20
Uranium	0.0500	0.0446	0.0441	89	88	80-120			1	20
Vanadium	0.0500	0.0472	0.0471	94	94	80-120			0	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3214985-2 05/02/17 12:45 • (LCSD) R3214985-3 05/02/17 12:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits %
Boron	0.0500	0.0421	0.0417	84	83	80-120			1	20

L905668-38 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-38 05/02/17 02:42 • (MS) R3214864-5 05/02/17 02:49 • (MSD) R3214864-6 05/02/17 02:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits %
Arsenic	0.0500	0.000518	0.0462	0.0467	91	92	1	75-125			1	20
Barium	0.0500	0.0156	0.0622	0.0610	93	91	1	75-125			2	20
Cadmium	0.0500	U	0.0477	0.0480	95	96	1	75-125			0	20
Calcium	5.00	412	414	414	40	40	1	75-125	V	V	0	20
Chromium	0.0500	U	0.0464	0.0474	93	95	1	75-125			2	20
Cobalt	0.0500	U	0.0465	0.0470	93	94	1	75-125			1	20
Potassium	5.00	0.745	5.27	5.29	91	91	1	75-125			0	20
Iron	5.00	0.0276	4.60	4.66	91	93	1	75-125			1	20
Lead	0.0500	U	0.0468	0.0470	94	94	1	75-125			0	20
Manganese	0.0500	0.436	0.467	0.473	60	73	1	75-125	V	V	1	20
Nickel	0.0500	0.000546	0.0460	0.0469	91	93	1	75-125			2	20
Selenium	0.0500	U	0.0457	0.0494	91	99	1	75-125			8	20
Sodium	5.00	178	179	180	29	47	1	75-125	V	V	1	20
Uranium	0.0500	0.000563	0.0467	0.0477	92	94	1	75-125			2	20
Vanadium	0.0500	0.000519	0.0475	0.0477	94	94	1	75-125			0	20



Method Blank (MB)

(MB) R3215564-1 05/04/17 10:44

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.0025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	0.0005	J	0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215564-2 05/04/17 10:47 • (LCSD) R3215564-3 05/04/17 10:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	0.0499	0.0492	100	98	80-120			1	20
Barium	0.0500	0.0496	0.0479	99	96	80-120			3	20
Boron	0.0500	0.0496	0.0498	99	100	80-120			0	20
Cadmium	0.0500	0.0507	0.0501	101	100	80-120			1	20
Calcium	5.00	4.99	4.88	100	98	80-120			2	20
Chromium	0.0500	0.0515	0.0509	103	102	80-120			1	20
Cobalt	0.0500	0.0527	0.0519	105	104	80-120			1	20
Iron	5.00	5.16	5.03	103	101	80-120			2	20
Lead	0.0500	0.0500	0.0498	100	100	80-120			0	20
Manganese	0.0500	0.0494	0.0486	99	97	80-120			2	20
Nickel	0.0500	0.0525	0.0516	105	103	80-120			2	20
Potassium	5.00	5.09	5.00	102	100	80-120			2	20
Selenium	0.0500	0.0511	0.0515	102	103	80-120			1	20
Sodium	5.00	5.27	5.17	105	103	80-120			2	20
Uranium	0.0500	0.0509	0.0507	102	101	80-120			0	20
Vanadium	0.0500	0.0505	0.0499	101	100	80-120			1	20



L905668-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-42 05/04/17 10:54 • (MS) R3215564-5 05/04/17 11:01 • (MSD) R3215564-6 05/04/17 11:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00173	0.0505	0.0504	98	97	1	75-125			0	20
Barium	0.0500	0.0612	0.111	0.112	100	101	1	75-125			0	20
Boron	0.0500	0.405	0.449	0.446	88	83	1	75-125			1	20
Cadmium	0.0500	U	0.0504	0.0501	101	100	1	75-125			1	20
Calcium	5.00	203	202	203	0	8	1	75-125	<u>V</u>	<u>V</u>	1	20
Chromium	0.0500	U	0.0495	0.0491	99	98	1	75-125			1	20
Cobalt	0.0500	U	0.0489	0.0490	98	98	1	75-125			0	20
Potassium	5.00	0.730	5.56	5.55	97	96	1	75-125			0	20
Iron	5.00	U	4.89	4.82	98	96	1	75-125			1	20
Lead	0.0500	U	0.0502	0.0497	100	99	1	75-125			1	20
Manganese	0.0500	0.0330	0.0781	0.0782	90	90	1	75-125			0	20
Nickel	0.0500	0.00557	0.0534	0.0534	96	96	1	75-125			0	20
Selenium	0.0500	0.000407	0.0515	0.0495	102	98	1	75-125			4	20
Sodium	5.00	194	191	193	0	0	1	75-125	<u>V</u>	<u>V</u>	1	20
Uranium	0.0500	U	0.0547	0.0539	109	108	1	75-125			2	20
Vanadium	0.0500	0.00257	0.0519	0.0513	99	98	1	75-125			1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215772-1 05/05/17 03:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	0.00774	J	0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Manganese	0.000834	J	0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Vanadium	0.000442	J	0.00018	0.00500

Method Blank (MB)

(MB) R3216099-1 05/05/17 20:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00024	0.00200
Uranium	U		0.00033	0.0100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215772-2 05/05/17 03:27 • (LCSD) R3215772-3 05/05/17 03:30

Analyte	Spike Amount mg/l	LCS Result		LCSD Result		LCS Rec.		LCSD Rec.		Rec. Limits		LCSD Qualifier		RPD		RPD Limits	
		mg/l	%	mg/l	%	mg/l	%	mg/l	%	%	%	%	%	%	%	%	%
Arsenic	0.0500	0.0463	93	0.0465	93	93	93	93	93	80-120	80-120	1	1	1	1	20	20
Barium	0.0500	0.0472	94	0.0484	94	94	94	97	97	80-120	80-120	2	2	2	2	20	20
Boron	0.0500	0.0498	100	0.0501	100	100	100	100	100	80-120	80-120	1	1	1	1	20	20
Cadmium	0.0500	0.0469	94	0.0484	94	94	94	97	97	80-120	80-120	3	3	3	3	20	20
Calcium	5.00	4.75	95	4.82	95	95	95	96	96	80-120	80-120	1	1	1	1	20	20
Chromium	0.0500	0.0474	95	0.0476	95	95	95	95	95	80-120	80-120	1	1	1	1	20	20
Cobalt	0.0500	0.0489	98	0.0496	98	98	98	99	99	80-120	80-120	1	1	1	1	20	20
Iron	5.00	4.81	96	4.87	96	96	96	97	97	80-120	80-120	1	1	1	1	20	20
Manganese	0.0500	0.0471	94	0.0476	94	94	94	95	95	80-120	80-120	1	1	1	1	20	20
Nickel	0.0500	0.0484	97	0.0489	97	97	97	98	98	80-120	80-120	1	1	1	1	20	20
Potassium	5.00	4.68	94	4.76	94	94	94	95	95	80-120	80-120	2	2	2	2	20	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215772-2 05/05/17 03:27 • (LCSD) R3215772-3 05/05/17 03:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Selenium	0.0500	0.0457	0.0467	91	93	80-120			2	20
Sodium	5.00	4.84	4.90	97	98	80-120			1	20
Vanadium	0.0500	0.0473	0.0478	95	96	80-120			1	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216099-2 05/05/17 20:47 • (LCSD) R3216099-3 05/05/17 20:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Lead	0.0500	0.0490	0.0491	98	98	80-120			0	20
Uranium	0.0500	0.0484	0.0484	97	97	80-120			0	20

L905651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-01 05/05/17 03:34 • (MS) R3215772-5 05/05/17 03:41 • (MSD) R3215772-6 05/05/17 03:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Arsenic	0.0500	0.00642	0.0541	0.0539	95	95	1	75-125			0	20
Barium	0.0500	0.0157	0.0654	0.0656	99	100	1	75-125			0	20
Boron	0.0500	0.535	0.583	0.578	94	85	1	75-125			1	20
Cadmium	0.0500	U	0.0491	0.0481	98	96	1	75-125			2	20
Calcium	5.00	501	507	504	118	55	1	75-125	<u>V</u>		1	20
Chromium	0.0500	U	0.0478	0.0479	96	96	1	75-125			0	20
Cobalt	0.0500	0.00617	0.0544	0.0547	96	97	1	75-125			1	20
Potassium	5.00	2.10	6.71	6.72	94	93	1	75-125			1	20
Iron	5.00	U	4.82	4.82	96	96	1	75-125			0	20
Manganese	0.0500	0.320	0.364	0.365	88	91	1	75-125			0	20
Nickel	0.0500	0.00772	0.0550	0.0551	95	95	1	75-125			0	20
Selenium	0.0500	0.00325	0.0527	0.0515	99	97	1	75-125			2	20
Sodium	5.00	338	338	335	13	0	1	75-125	<u>V</u>	<u>V</u>	1	20
Vanadium	0.0500	0.0252	0.0741	0.0741	98	98	1	75-125			0	20

L905651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-01 05/05/17 20:55 • (MS) R3216099-5 05/05/17 21:02 • (MSD) R3216099-6 05/05/17 21:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Lead	0.0500	0.000467	0.0508	0.0513	101	102	1	75-125			1	20
Uranium	0.0500	0.0227	0.0743	0.0752	103	105	1	75-125			1	20



Method Blank (MB)

(MB) R3215093-1 05/02/17 18:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	0.0382	J	0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215093-2 05/02/17 18:18 • (LCSD) R3215093-3 05/02/17 18:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0528	0.0519	106	104	80-120			2	20
Barium	0.0500	0.0521	0.0504	104	101	80-120			3	20
Calcium	5.00	5.26	5.04	105	101	80-120			4	20
Chromium	0.0500	0.0540	0.0532	108	106	80-120			1	20
Iron	5.00	5.44	5.40	109	108	80-120			1	20
Lead	0.0500	0.0515	0.0507	103	101	80-120			2	20
Manganese	0.0500	0.0539	0.0531	108	106	80-120			2	20
Potassium	5.00	5.22	5.06	104	101	80-120			3	20
Selenium	0.0500	0.0511	0.0516	102	103	80-120			1	20
Sodium	5.00	5.19	5.03	104	101	80-120			3	20

L905855-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905855-04 05/02/17 18:25 • (MS) R3215093-5 05/02/17 18:32 • (MSD) R3215093-6 05/02/17 18:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.000648	0.0507	0.0490	100	97	1	75-125		3	20
Barium	0.0500	0.221	0.271	0.271	99	98	1	75-125		0	20
Calcium	5.00	126	133	133	148	136	1	75-125	V	0	20
Chromium	0.0500	U	0.0517	0.0501	103	100	1	75-125		3	20
Potassium	5.00	3.67	8.95	8.81	106	103	1	75-125		2	20
Iron	5.00	U	5.13	4.97	103	99	1	75-125		3	20
Lead	0.0500	0.000538	0.0516	0.0501	102	99	1	75-125		3	20

ACCOUNT:

TRC Solutions - Austin, TX

PROJECT:

249545,0000,0000 000

SDG:

L905668

DATE/TIME:

05/12/17 11:41

PAGE:

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L905855-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905855-04 05/02/17 18:25 • (MS) R3215093-5 05/02/17 18:32 • (MSD) R3215093-6 05/02/17 18:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
Manganese	0.0500	0.000568	0.0515	0.0491	102	97	1	75-125			5	20
Selenium	0.0500	0.000675	0.0529	0.0508	104	100	1	75-125			4	20
Sodium	5.00	76.3	83.4	82.5	143	124	1	75-125	V		1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3216897-1 05/10/17 11:25

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	0.00918	J 0.0015	0.0015	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216897-2 05/10/17 11:28 • (LCSD) R3216897-3 05/10/17 11:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
Boron,Dissolved	0.0500	0.0548	0.0476	110	95	80-120	14	20		

L905651-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-02 05/10/17 11:36 • (MS) R3216897-5 05/10/17 11:43 • (MSD) R3216897-6 05/10/17 11:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u> %	<u>MSD Qualifier</u> %	RPD %	RPD Limits %
Boron,Dissolved	0.0500	0.756	0.816	0.811	121	111	1	75-125	1	20		

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3217063-1 05/10/17 15:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.000347	J	0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3217063-2 05/10/17 15:29 • (LCSD) R3217063-3 05/10/17 15:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0485	0.0493	97	99	80-120			2	20
Barium,Dissolved	0.0500	0.0505	0.0500	101	100	80-120			1	20
Chromium,Dissolved	0.0500	0.0500	0.0498	100	100	80-120			0	20
Iron,Dissolved	5.00	4.95	4.98	99	100	80-120			1	20
Lead,Dissolved	0.0500	0.0498	0.0497	100	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0502	0.0495	100	99	80-120			1	20
Selenium,Dissolved	0.0500	0.0529	0.0510	106	102	80-120			4	20

L906804-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906804-01 05/10/17 15:36 • (MS) R3217063-5 05/10/17 15:43 • (MSD) R3217063-6 05/10/17 15:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	U	0.0467	0.0473	93	95	1	75-125		1	20
Barium,Dissolved	0.0500	0.0145	0.0653	0.0650	102	101	1	75-125		1	20
Chromium,Dissolved	0.0500	U	0.0460	0.0463	92	93	1	75-125		1	20
Iron,Dissolved	5.00	U	4.68	4.67	94	93	1	75-125		0	20
Lead,Dissolved	0.0500	U	0.0485	0.0485	97	97	1	75-125		0	20
Manganese,Dissolved	0.0500	0.000320	0.0462	0.0466	92	93	1	75-125		1	20
Selenium,Dissolved	0.0500	0.00113	0.0527	0.0504	103	99	1	75-125		4	20



Method Blank (MB)

(MB) R3215819-3 04/30/17 19:38

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.0314	0.100
(S) <i>α,α,α</i> -Trifluorotoluene(FID)	99.9		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215819-1 04/30/17 18:25 • (LCSD) R3215819-2 04/30/17 18:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.42	5.17	98.5	71.0-136			4.75	20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)				103	77.0-122				

L905602-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-03 04/30/17 21:14 • (MS) R3215819-4 04/30/17 20:02 • (MSD) R3215819-5 04/30/17 20:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.585	2.84	2.81	41.0	40.4	1	18.0-160		1.24		20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)					97.3	97.9		77.0-122				



Method Blank (MB)

(MB) R3216062-3 04/30/17 18:29

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.100	
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)	102		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216062-1 04/30/17 17:23 • (LCSD) R3216062-2 04/30/17 17:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	4.72	4.46	85.7	71.0-136			5.50	20
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)		100		100	77.0-122				

L905668-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-18 04/30/17 19:57 • (MS) R3216062-4 04/30/17 18:51 • (MSD) R3216062-5 04/30/17 19:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	U	2.78	2.68	50.5	48.8	1	18.0-160		3.39		20
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)					101	102		77.0-122				



Method Blank (MB)

(MB) R3216151-3 04/30/17 20:21

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.100	
(S) <i>o,o</i> -Trifluorotoluene(FID)	95.5		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216151-1 04/30/17 19:15 • (LCSD) R3216151-2 04/30/17 19:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	4.44	4.87	80.7	88.5	71.0-136			9.24	20
(S) <i>o,o</i> -Trifluorotoluene(FID)				106	107	77.0-122				

L905668-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-42 04/30/17 22:13 • (MS) R3216151-4 04/30/17 20:43 • (MSD) R3216151-5 04/30/17 21:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.0826	2.40	2.67	42.1	47.0	1	18.0-160			10.6	20
(S) <i>o,o</i> -Trifluorotoluene(FID)					97.2	97.7		77.0-122				



Method Blank (MB)

(MB) R3215720-3 05/01/17 11:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.100	
(S) <i>α,α,α</i> -Trifluorotoluene(FID)	101		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215720-1 05/01/17 09:48 • (LCSD) R3215720-2 05/01/17 10:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.01	5.08	91.2	71.0-136			1.26	20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)		102		102	77.0-122				

L905796-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905796-07 05/01/17 12:00 • (MS) R3215720-4 05/01/17 12:24 • (MSD) R3215720-5 05/01/17 12:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.0358	4.78	4.75	86.2	85.8	1	18.0-160		0.540	20
(S) <i>α,α,α</i> -Trifluorotoluene(FID)					101	101		77.0-122			



Method Blank (MB)

(MB) R3216370-5 05/01/17 11:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U	0.0314	0.0314	0.100
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)	103		77.0-122	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216370-3 05/01/17 10:28 • (LCSD) R3216370-4 05/01/17 10:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.44	5.67	98.8	103	71.0-136			4.16	20
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)				106	107	77.0-122				

L905669-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905669-02 05/01/17 11:52 • (MS) R3216370-8 05/01/17 12:55 • (MSD) R3216370-9 05/01/17 13:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	U	4.99	5.12	90.8	93.0	1	18.0-160		2.42	20
(S) <i>o,o</i> , <i>o</i> -Trifluorotoluene(FID)					104	104		77.0-122			



Method Blank (MB)

(MB) R3215233-3 05/02/17 11:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
p-Isopropyltoluene	U		0.000350	0.00100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215233-3 05/02/17 11:21

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	104		80.0-120	
(S) Dibromofluoromethane	99.8		76.0-123	
(S) 4-Bromofluorobenzene	104		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215233-1 05/02/17 10:19 • (LCSD) R3215233-2 05/02/17 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.114	0.123	91.5	98.1	10.0-160			6.91	23
Benzene	0.0250	0.0235	0.0231	94.1	92.4	69.0-123			1.87	20
Bromodichloromethane	0.0250	0.0241	0.0235	96.6	93.8	76.0-120			2.88	20
Bromoform	0.0250	0.0249	0.0243	99.6	97.3	67.0-132			2.34	20
Bromomethane	0.0250	0.0224	0.0230	89.5	92.1	18.0-160			2.93	20
n-Butylbenzene	0.0250	0.0254	0.0249	101	99.5	72.0-126			1.92	20
Carbon disulfide	0.0250	0.0239	0.0237	95.6	94.6	55.0-127			1.06	20
sec-Butylbenzene	0.0250	0.0258	0.0255	103	102	74.0-121			1.15	20
Carbon tetrachloride	0.0250	0.0241	0.0238	96.2	95.2	63.0-122			1.03	20
Chlorobenzene	0.0250	0.0238	0.0231	95.0	92.6	79.0-121			2.66	20
Chlorodibromomethane	0.0250	0.0240	0.0236	96.1	94.4	75.0-125			1.83	20
Chloroethane	0.0250	0.0226	0.0225	90.3	90.1	47.0-152			0.290	20
Chloroform	0.0250	0.0239	0.0234	95.5	93.6	72.0-121			2.03	20
Chloromethane	0.0250	0.0241	0.0230	96.6	92.0	48.0-139			4.88	20
1,2-Dibromoethane	0.0250	0.0234	0.0227	93.6	90.7	77.0-123			3.11	20
1,1-Dichloroethane	0.0250	0.0239	0.0236	95.5	94.6	70.0-126			1.02	20
1,2-Dichloroethane	0.0250	0.0237	0.0233	94.8	93.1	67.0-126			1.81	20
1,1-Dichloroethene	0.0250	0.0250	0.0246	99.9	98.5	64.0-129			1.37	20
cis-1,2-Dichloroethene	0.0250	0.0235	0.0233	94.1	93.3	73.0-120			0.880	20
trans-1,2-Dichloroethene	0.0250	0.0234	0.0234	93.6	93.5	71.0-121			0.110	20
1,2-Dichloropropane	0.0250	0.0244	0.0238	97.6	95.0	75.0-125			2.70	20
cis-1,3-Dichloropropene	0.0250	0.0242	0.0231	96.7	92.5	79.0-123			4.45	20
trans-1,3-Dichloropropene	0.0250	0.0244	0.0226	97.7	90.5	74.0-127			7.58	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215233-1 05/02/17 10:19 • (LCSD) R3215233-2 05/02/17 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0242	0.0238	96.8	95.2	77.0-120			1.61	20
2-Hexanone	0.125	0.109	0.105	87.2	83.7	58.0-147			4.11	20
2-Butanone (MEK)	0.125	0.0994	0.100	79.5	80.1	37.0-158			0.730	20
Isopropylbenzene	0.0250	0.0252	0.0248	101	99.2	75.0-120			1.76	20
Methylene Chloride	0.0250	0.0229	0.0228	91.4	91.1	66.0-121			0.330	20
p-Isopropyltoluene	0.0250	0.0262	0.0259	105	104	74.0-126			1.02	20
4-Methyl-2-pentanone (MIBK)	0.125	0.120	0.116	96.2	92.7	59.0-143			3.72	20
Methyl tert-butyl ether	0.0250	0.0235	0.0234	94.1	93.4	64.0-123			0.710	20
Naphthalene	0.0250	0.0224	0.0228	89.6	91.3	62.0-128			1.86	20
Styrene	0.0250	0.0253	0.0239	101	95.7	78.0-124			5.77	20
1,1,1,2-Tetrachloroethane	0.0250	0.0244	0.0248	97.8	99.1	75.0-122			1.34	20
n-Propylbenzene	0.0250	0.0248	0.0243	99.4	97.2	79.0-120			2.19	20
1,1,2,2-Tetrachloroethane	0.0250	0.0233	0.0233	93.2	93.3	71.0-122			0.110	20
Tetrachloroethene	0.0250	0.0242	0.0237	96.8	94.9	70.0-127			2.05	20
Toluene	0.0250	0.0239	0.0228	95.5	91.2	77.0-120			4.58	20
1,1,1-Trichloroethane	0.0250	0.0245	0.0242	97.9	96.8	68.0-122			1.11	20
1,1,2-Trichloroethane	0.0250	0.0235	0.0230	94.2	92.0	78.0-120			2.37	20
Trichloroethene	0.0250	0.0239	0.0237	95.5	94.8	78.0-120			0.760	20
1,2,4-Trimethylbenzene	0.0250	0.0253	0.0251	101	100	75.0-120			0.790	20
1,3,5-Trimethylbenzene	0.0250	0.0252	0.0249	101	99.7	75.0-120			0.910	20
Vinyl chloride	0.0250	0.0250	0.0215	100	85.9	64.0-133			15.3	20
Xylenes, Total	0.0750	0.0731	0.0715	97.5	95.3	77.0-120			2.21	20
o-Xylene	0.0250	0.0242	0.0241	96.8	96.3	78.0-120			0.580	20
m&p-Xylenes	0.0500	0.0489	0.0474	97.8	94.7	77.0-120			3.17	20
(S) Toluene-d8				106	104	80.0-120				
(S) Dibromofluoromethane				100	103	76.0-123				
(S) 4-Bromofluorobenzene				102	102	80.0-120				



Method Blank (MB)

(MB) R3215705-3 05/02/17 03:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215705-3 05/02/17 03:08

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	102		80.0-120	
(S) Dibromofluoromethane	102		76.0-123	
(S) 4-Bromofluorobenzene	103		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215705-1 05/02/17 02:05 • (LCSD) R3215705-2 05/02/17 02:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.150	0.144	120	116	10.0-160			3.77	23
Benzene	0.0250	0.0245	0.0234	97.8	93.5	69.0-123			4.52	20
Bromodichloromethane	0.0250	0.0219	0.0211	87.8	84.4	76.0-120			3.86	20
Bromoform	0.0250	0.0212	0.0212	84.6	84.7	67.0-132			0.100	20
Bromomethane	0.0250	0.0177	0.0196	71.0	78.4	18.0-160			9.98	20
n-Butylbenzene	0.0250	0.0255	0.0248	102	99.1	72.0-126			3.01	20
sec-Butylbenzene	0.0250	0.0254	0.0242	102	96.9	74.0-121			4.91	20
Carbon disulfide	0.0250	0.0202	0.0190	80.7	76.0	55.0-127			5.94	20
Carbon tetrachloride	0.0250	0.0220	0.0207	87.8	82.7	63.0-122			5.94	20
Chlorobenzene	0.0250	0.0239	0.0227	95.7	90.7	79.0-121			5.40	20
Chlorodibromomethane	0.0250	0.0217	0.0215	86.7	86.0	75.0-125			0.730	20
Chloroethane	0.0250	0.0248	0.0223	99.1	89.0	47.0-152			10.7	20
Chloroform	0.0250	0.0241	0.0233	96.6	93.1	72.0-121			3.64	20
Chloromethane	0.0250	0.0251	0.0234	100	93.7	48.0-139			6.96	20
1,2-Dibromoethane	0.0250	0.0218	0.0215	87.1	85.9	77.0-123			1.42	20
1,1-Dichloroethane	0.0250	0.0252	0.0243	101	97.4	70.0-126			3.61	20
1,2-Dichloroethane	0.0250	0.0222	0.0223	88.8	89.3	67.0-126			0.520	20
1,1-Dichloroethene	0.0250	0.0228	0.0208	91.3	83.4	64.0-129			9.12	20
cis-1,2-Dichloroethene	0.0250	0.0240	0.0228	95.9	91.3	73.0-120			4.85	20
trans-1,2-Dichloroethene	0.0250	0.0242	0.0229	96.9	91.4	71.0-121			5.79	20
1,2-Dichloropropane	0.0250	0.0244	0.0240	97.6	96.0	75.0-125			1.71	20
cis-1,3-Dichloropropene	0.0250	0.0229	0.0222	91.6	88.8	79.0-123			3.00	20
trans-1,3-Dichloropropene	0.0250	0.0219	0.0220	87.8	88.0	74.0-127			0.190	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215705-1 05/02/17 02:05 • (LCSD) R3215705-2 05/02/17 02:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0231	0.0217	92.3	86.8	77.0-120			6.17	20
2-Hexanone	0.125	0.131	0.131	104	105	58.0-147			0.180	20
Isopropylbenzene	0.0250	0.0232	0.0224	92.6	89.7	75.0-120			3.22	20
p-Isopropyltoluene	0.0250	0.0256	0.0246	102	98.5	74.0-126			4.02	20
2-Butanone (MEK)	0.125	0.120	0.119	96.3	95.0	37.0-158			1.39	20
Methylene Chloride	0.0250	0.0262	0.0251	105	101	66.0-121			4.27	20
4-Methyl-2-pentanone (MIBK)	0.125	0.123	0.125	98.4	100	59.0-143			1.57	20
Methyl tert-butyl ether	0.0250	0.0221	0.0228	88.2	91.2	64.0-123			3.36	20
Naphthalene	0.0250	0.0253	0.0264	101	106	62.0-128			4.20	20
n-Propylbenzene	0.0250	0.0251	0.0236	100	94.5	79.0-120			6.05	20
Styrene	0.0250	0.0236	0.0232	94.3	92.9	78.0-124			1.49	20
1,1,1,2-Tetrachloroethane	0.0250	0.0230	0.0218	91.9	87.1	75.0-122			5.28	20
1,1,2,2-Tetrachloroethane	0.0250	0.0224	0.0228	89.6	91.1	71.0-122			1.70	20
Tetrachloroethene	0.0250	0.0220	0.0205	87.9	82.1	70.0-127			6.78	20
Toluene	0.0250	0.0224	0.0217	89.6	86.8	77.0-120			3.12	20
1,1,1-Trichloroethane	0.0250	0.0236	0.0222	94.5	88.9	68.0-122			6.08	20
1,1,2-Trichloroethane	0.0250	0.0230	0.0230	91.9	91.9	78.0-120		0.0400	20	20
Trichloroethene	0.0250	0.0232	0.0219	92.7	87.6	78.0-120		5.69	20	20
1,2,4-Trimethylbenzene	0.0250	0.0245	0.0231	98.1	92.3	75.0-120		6.10	20	20
1,3,5-Trimethylbenzene	0.0250	0.0248	0.0232	99.2	92.8	75.0-120		6.71	20	20
Vinyl chloride	0.0250	0.0225	0.0207	89.9	82.9	64.0-133		8.06	20	20
Xylenes, Total	0.0750	0.0700	0.0654	93.3	87.2	77.0-120		6.79	20	20
o-Xylene	0.0250	0.0227	0.0217	91.0	86.7	78.0-120		4.84	20	20
m&p-Xylenes	0.0500	0.0473	0.0437	94.6	87.5	77.0-120		7.79	20	20
(S) Toluene-d8				103	104	80.0-120				
(S) Dibromofluoromethane				101	103	76.0-123				
(S) 4-Bromofluorobenzene				103	104	80.0-120				



Method Blank (MB)

(MB) R3215073-3 05/01/17 18:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215073-3 05/01/17 18:36

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	105		80.0-120	
(S) Dibromofluoromethane	111		76.0-123	
(S) 4-Bromofluorobenzene	92.4		80.0-120	

1Cp	2Tc	3Ss	4Cn	5Sr	6Qc	7Gl	8Al	9Sc
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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215073-1 05/01/17 17:08 • (LCSD) R3215073-2 05/01/17 17:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.166	0.182	133	146	10.0-160			9.46	23
Benzene	0.0250	0.0233	0.0240	93.0	95.8	69.0-123			3.00	20
Bromodichloromethane	0.0250	0.0239	0.0241	95.5	96.5	76.0-120			1.02	20
Bromoform	0.0250	0.0229	0.0236	91.8	94.5	67.0-132			3.00	20
Bromomethane	0.0250	0.0410	0.0442	164	177	18.0-160	J4	J4	7.34	20
n-Butylbenzene	0.0250	0.0215	0.0220	86.1	87.9	72.0-126			2.12	20
sec-Butylbenzene	0.0250	0.0235	0.0239	94.0	95.5	74.0-121			1.58	20
Carbon disulfide	0.0250	0.0212	0.0230	84.9	92.1	55.0-127			8.11	20
Carbon tetrachloride	0.0250	0.0247	0.0255	98.9	102	63.0-122			3.25	20
Chlorobenzene	0.0250	0.0203	0.0213	81.3	85.4	79.0-121			4.86	20
Chlorodibromomethane	0.0250	0.0214	0.0222	85.4	88.9	75.0-125			4.00	20
Chloroethane	0.0250	0.0288	0.0312	115	125	47.0-152			7.95	20
Chloroform	0.0250	0.0233	0.0236	93.2	94.5	72.0-121			1.42	20
Chloromethane	0.0250	0.0214	0.0237	85.6	94.9	48.0-139			10.3	20
1,2-Dibromoethane	0.0250	0.0211	0.0218	84.4	87.4	77.0-123			3.46	20
1,1-Dichloroethane	0.0250	0.0230	0.0237	92.0	94.6	70.0-126			2.85	20
1,2-Dichloroethane	0.0250	0.0225	0.0223	90.1	89.4	67.0-126			0.830	20
1,1-Dichloroethene	0.0250	0.0212	0.0232	84.8	92.7	64.0-129			8.81	20
cis-1,2-Dichloroethene	0.0250	0.0228	0.0236	91.1	94.4	73.0-120			3.61	20
trans-1,2-Dichloroethene	0.0250	0.0262	0.0277	105	111	71.0-121			5.75	20
1,2-Dichloropropane	0.0250	0.0217	0.0222	86.9	88.8	75.0-125			2.20	20
cis-1,3-Dichloropropene	0.0250	0.0220	0.0220	88.0	88.0	79.0-123			0.0500	20
trans-1,3-Dichloropropene	0.0250	0.0210	0.0208	84.2	83.1	74.0-127			1.32	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215073-1 05/01/17 17:08 • (LCSD) R3215073-2 05/01/17 17:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0204	0.0215	81.4	86.2	77.0-120			5.69	20
2-Hexanone	0.125	0.110	0.115	87.8	91.7	58.0-147			4.33	20
Isopropylbenzene	0.0250	0.0211	0.0227	84.5	90.6	75.0-120			7.06	20
p-Isopropyltoluene	0.0250	0.0234	0.0238	93.8	95.4	74.0-126			1.70	20
2-Butanone (MEK)	0.125	0.124	0.130	98.8	104	37.0-158			5.45	20
Methylene Chloride	0.0250	0.0282	0.0298	113	119	66.0-121			5.24	20
4-Methyl-2-pentanone (MIBK)	0.125	0.115	0.117	92.2	93.4	59.0-143			1.28	20
Methyl tert-butyl ether	0.0250	0.0263	0.0281	105	112	64.0-123			6.46	20
Naphthalene	0.0250	0.0197	0.0201	79.0	80.4	62.0-128			1.84	20
n-Propylbenzene	0.0250	0.0231	0.0227	92.3	90.8	79.0-120			1.72	20
Styrene	0.0250	0.0195	0.0205	78.2	82.1	78.0-124			4.86	20
1,1,1,2-Tetrachloroethane	0.0250	0.0226	0.0236	90.4	94.4	75.0-122			4.24	20
1,1,2,2-Tetrachloroethane	0.0250	0.0235	0.0221	93.9	88.3	71.0-122			6.16	20
Tetrachloroethene	0.0250	0.0205	0.0221	82.0	88.5	70.0-127			7.56	20
Toluene	0.0250	0.0223	0.0219	89.1	87.5	77.0-120			1.81	20
1,1,1-Trichloroethane	0.0250	0.0235	0.0248	94.1	99.2	68.0-122			5.31	20
1,1,2-Trichloroethane	0.0250	0.0206	0.0214	82.3	85.5	78.0-120			3.73	20
Trichloroethene	0.0250	0.0228	0.0245	91.0	97.9	78.0-120			7.26	20
1,2,4-Trimethylbenzene	0.0250	0.0226	0.0221	90.3	88.3	75.0-120			2.26	20
1,3,5-Trimethylbenzene	0.0250	0.0229	0.0227	91.5	90.9	75.0-120			0.670	20
Vinyl chloride	0.0250	0.0241	0.0263	96.6	105	64.0-133			8.56	20
Xylenes, Total	0.0750	0.0620	0.0651	82.7	86.8	77.0-120			4.88	20
o-Xylene	0.0250	0.0206	0.0217	82.5	87.0	78.0-120			5.27	20
m&p-Xylenes	0.0500	0.0414	0.0434	82.8	86.8	77.0-120			4.75	20
(S) Toluene-d8				104	103	80.0-120				
(S) Dibromofluoromethane				108	108	76.0-123				
(S) 4-Bromofluorobenzene				104	99.6	80.0-120				



Method Blank (MB)

(MB) R3215074-3 05/02/17 03:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215074-3 05/02/17 03:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	104		80.0-120	
(S) Dibromofluoromethane	106		76.0-123	
(S) 4-Bromofluorobenzene	93.9		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215074-1 05/02/17 02:38 • (LCSD) R3215074-2 05/02/17 03:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.138	0.136	111	108	10.0-160			2.06	23
Benzene	0.0250	0.0229	0.0228	91.7	91.3	69.0-123			0.460	20
Bromodichloromethane	0.0250	0.0233	0.0236	93.1	94.4	76.0-120			1.41	20
Bromoform	0.0250	0.0234	0.0237	93.5	95.0	67.0-132			1.54	20
Bromomethane	0.0250	0.0335	0.0293	134	117	18.0-160			13.4	20
n-Butylbenzene	0.0250	0.0225	0.0222	90.1	88.9	72.0-126			1.29	20
sec-Butylbenzene	0.0250	0.0239	0.0231	95.4	92.3	74.0-121			3.36	20
Carbon disulfide	0.0250	0.0228	0.0225	91.2	90.0	55.0-127			1.30	20
Carbon tetrachloride	0.0250	0.0247	0.0244	98.7	97.6	63.0-122			1.22	20
Chlorobenzene	0.0250	0.0218	0.0217	87.2	86.9	79.0-121			0.360	20
Chlorodibromomethane	0.0250	0.0220	0.0223	88.1	89.1	75.0-125			1.16	20
Chloroethane	0.0250	0.0307	0.0293	123	117	47.0-152			4.70	20
Chloroform	0.0250	0.0228	0.0226	91.1	90.5	72.0-121			0.700	20
Chloromethane	0.0250	0.0215	0.0213	86.2	85.2	48.0-139			1.09	20
1,2-Dibromoethane	0.0250	0.0221	0.0221	88.5	88.4	77.0-123			0.160	20
1,1-Dichloroethane	0.0250	0.0230	0.0225	92.0	89.9	70.0-126			2.31	20
1,2-Dichloroethane	0.0250	0.0215	0.0214	86.0	85.7	67.0-126			0.310	20
1,1-Dichloroethene	0.0250	0.0231	0.0231	92.6	92.2	64.0-129			0.370	20
cis-1,2-Dichloroethene	0.0250	0.0233	0.0227	93.3	90.6	73.0-120			2.93	20
trans-1,2-Dichloroethene	0.0250	0.0226	0.0224	90.5	89.7	71.0-121			0.940	20
1,2-Dichloropropane	0.0250	0.0215	0.0224	85.9	89.6	75.0-125			4.16	20
cis-1,3-Dichloropropene	0.0250	0.0207	0.0212	82.8	84.9	79.0-123			2.52	20
trans-1,3-Dichloropropene	0.0250	0.0197	0.0201	79.0	80.2	74.0-127			1.53	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215074-1 05/02/17 02:38 • (LCSD) R3215074-2 05/02/17 03:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0217	0.0218	86.9	87.3	77.0-120			0.460	20
2-Hexanone	0.125	0.115	0.114	91.7	91.3	58.0-147			0.460	20
Isopropylbenzene	0.0250	0.0229	0.0223	91.5	89.2	75.0-120			2.53	20
p-Isopropyltoluene	0.0250	0.0238	0.0233	95.1	93.0	74.0-126			2.19	20
2-Butanone (MEK)	0.125	0.117	0.115	93.6	91.7	37.0-158			1.97	20
Methylene Chloride	0.0250	0.0291	0.0288	116	115	66.0-121			1.17	20
4-Methyl-2-pentanone (MIBK)	0.125	0.113	0.112	90.6	89.7	59.0-143			1.02	20
Methyl tert-butyl ether	0.0250	0.0230	0.0223	92.1	89.0	64.0-123			3.41	20
Naphthalene	0.0250	0.0205	0.0202	81.8	80.7	62.0-128			1.42	20
n-Propylbenzene	0.0250	0.0228	0.0226	91.2	90.3	79.0-120			0.990	20
Styrene	0.0250	0.0208	0.0209	83.3	83.4	78.0-124			0.120	20
1,1,1,2-Tetrachloroethane	0.0250	0.0239	0.0237	95.6	94.9	75.0-122			0.690	20
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0213	88.0	85.3	71.0-122			3.16	20
Tetrachloroethene	0.0250	0.0223	0.0225	89.1	89.8	70.0-127			0.800	20
Toluene	0.0250	0.0217	0.0219	86.7	87.4	77.0-120			0.840	20
1,1,1-Trichloroethane	0.0250	0.0239	0.0238	95.4	95.0	68.0-122			0.450	20
1,1,2-Trichloroethane	0.0250	0.0218	0.0219	87.3	87.8	78.0-120			0.560	20
Trichloroethene	0.0250	0.0246	0.0245	98.3	97.8	78.0-120			0.470	20
1,2,4-Trimethylbenzene	0.0250	0.0223	0.0219	89.1	87.4	75.0-120			1.92	20
1,3,5-Trimethylbenzene	0.0250	0.0232	0.0223	92.8	89.3	75.0-120			3.88	20
Vinyl chloride	0.0250	0.0257	0.0249	103	99.4	64.0-133			3.45	20
Xylenes, Total	0.0750	0.0663	0.0657	88.4	87.6	77.0-120			0.910	20
o-Xylene	0.0250	0.0222	0.0219	88.9	87.6	78.0-120			1.54	20
m&p-Xylenes	0.0500	0.0441	0.0438	88.1	87.7	77.0-120			0.520	20
(S) Toluene-d8				102	102	80.0-120				
(S) Dibromofluoromethane				107	105	76.0-123				
(S) 4-Bromofluorobenzene				96.3	95.5	80.0-120				



Method Blank (MB)

(MB) R3215294-3 05/03/17 01:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
n-Propylbenzene	U		0.000349	0.00100
Tetrachloroethene	U		0.000372	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215294-3 05/03/17 01:06

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
Vinyl chloride	U		0.000259	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	106		80.0-120	
(S) Dibromofluoromethane	105		76.0-123	
(S) 4-Bromofluorobenzene	104		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215294-1 05/02/17 23:07 • (LCSD) R3215294-2 05/03/17 00:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.109	0.136	87.5	109	10.0-160			21.6	23
Benzene	0.0250	0.0247	0.0245	98.7	98.1	69.0-123			0.680	20
Bromodichloromethane	0.0250	0.0245	0.0243	97.8	97.4	76.0-120			0.480	20
Bromoform	0.0250	0.0230	0.0233	92.0	93.0	67.0-132			1.08	20
Bromomethane	0.0250	0.0240	0.0244	95.9	97.6	18.0-160			1.75	20
n-Butylbenzene	0.0250	0.0271	0.0248	108	99.2	72.0-126			8.98	20
sec-Butylbenzene	0.0250	0.0248	0.0239	99.2	95.8	74.0-121			3.55	20
Carbon disulfide	0.0250	0.0288	0.0263	115	105	55.0-127			9.25	20
Carbon tetrachloride	0.0250	0.0266	0.0253	106	101	63.0-122			4.85	20
Chlorobenzene	0.0250	0.0229	0.0222	91.7	89.0	79.0-121			3.05	20
Chlorodibromomethane	0.0250	0.0232	0.0229	93.0	91.4	75.0-125			1.72	20
Chloroethane	0.0250	0.0244	0.0275	97.7	110	47.0-152			12.0	20
Chloroform	0.0250	0.0248	0.0251	99.2	100	72.0-121			1.14	20
Chloromethane	0.0250	0.0264	0.0238	106	95.1	48.0-139			10.6	20
1,2-Dibromoethane	0.0250	0.0229	0.0223	91.8	89.2	77.0-123			2.90	20
1,1-Dichloroethane	0.0250	0.0256	0.0253	102	101	70.0-126			1.10	20
1,2-Dichloroethane	0.0250	0.0247	0.0250	98.9	100	67.0-126			1.13	20
1,1-Dichloroethene	0.0250	0.0279	0.0267	112	107	64.0-129			4.39	20
cis-1,2-Dichloroethene	0.0250	0.0242	0.0247	96.7	98.8	73.0-120			2.08	20
trans-1,2-Dichloroethene	0.0250	0.0255	0.0250	102	100	71.0-121			1.81	20
1,2-Dichloropropane	0.0250	0.0244	0.0243	97.5	97.1	75.0-125			0.380	20
cis-1,3-Dichloropropene	0.0250	0.0245	0.0232	98.1	92.7	79.0-123			5.66	20
trans-1,3-Dichloropropene	0.0250	0.0243	0.0230	97.1	92.1	74.0-127			5.37	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215294-1 05/02/17 23:07 • (LCSD) R3215294-2 05/03/17 00:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier		LCSD Qualifier		RPD Limits	
							LCS Qualifier		LCSD Qualifier		RPD	
Ethylbenzene	0.0250	0.0237	0.0231	94.8	92.4	77.0-120					2.54	
2-Hexanone	0.125	0.122	0.112	97.8	89.9	58.0-147					8.42	
Isopropylbenzene	0.0250	0.0243	0.0238	97.2	95.1	75.0-120					2.22	
p-Isopropyltoluene	0.0250	0.0244	0.0238	97.8	95.2	74.0-126					2.71	
2-Butanone (MEK)	0.125	0.120	0.111	96.2	89.0	37.0-158					7.76	
Methylene Chloride	0.0250	0.0236	0.0238	94.4	95.2	66.0-121					0.770	
4-Methyl-2-pentanone (MIBK)	0.125	0.122	0.126	97.2	101	59.0-143					3.43	
Methyl tert-butyl ether	0.0250	0.0237	0.0251	94.6	100	64.0-123					5.79	
Naphthalene	0.0250	0.0219	0.0223	87.7	89.1	62.0-128					1.62	
n-Propylbenzene	0.0250	0.0242	0.0233	96.7	93.1	79.0-120					3.76	
Styrene	0.0250	0.0237	0.0233	94.7	93.2	78.0-124					1.64	
1,1,1,2-Tetrachloroethane	0.0250	0.0230	0.0235	92.2	94.1	75.0-122					2.06	
1,1,2,2-Tetrachloroethane	0.0250	0.0221	0.0213	88.4	85.1	71.0-122					3.86	
Tetrachloroethene	0.0250	0.0244	0.0226	97.5	90.3	70.0-127					7.68	
Toluene	0.0250	0.0243	0.0236	97.1	94.2	77.0-120					3.04	
1,1,1-Trichloroethane	0.0250	0.0266	0.0262	106	105	68.0-122					1.60	
1,1,2-Trichloroethane	0.0250	0.0227	0.0223	90.8	89.3	78.0-120					1.64	
Trichloroethene	0.0250	0.0244	0.0248	97.7	99.1	78.0-120					1.43	
1,2,4-Trimethylbenzene	0.0250	0.0231	0.0233	92.4	93.3	75.0-120					1.03	
1,3,5-Trimethylbenzene	0.0250	0.0235	0.0235	94.1	94.1	75.0-120					0.0100	
Vinyl chloride	0.0250	0.0249	0.0220	99.7	88.1	64.0-133					12.4	
Xylenes, Total	0.0750	0.0710	0.0694	94.7	92.5	77.0-120					2.28	
o-Xylene	0.0250	0.0232	0.0229	92.6	91.4	78.0-120					1.31	
m&p-Xylenes	0.0500	0.0478	0.0465	95.6	92.9	77.0-120					2.86	
(S) Toluene-d8				105	105	80.0-120						
(S) Dibromofluoromethane				104	106	76.0-123						
(S) 4-Bromofluorobenzene				97.9	99.8	80.0-120						



Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl- 2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100



Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	105		80.0-120	
(S) Dibromofluoromethane	108		76.0-123	
(S) 4-Bromofluorobenzene	92.1		80.0-120	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.125	0.171	0.171	137	137	10.0-160			0.310	23
Benzene	0.0250	0.0236	0.0236	94.6	94.5	69.0-123			0.0300	20
Bromodichloromethane	0.0250	0.0237	0.0239	94.7	95.6	76.0-120			0.930	20
Bromoform	0.0250	0.0228	0.0231	91.3	92.5	67.0-132			1.24	20
Bromomethane	0.0250	0.0366	0.0359	147	144	18.0-160			2.00	20
n-Butylbenzene	0.0250	0.0244	0.0246	97.7	98.5	72.0-126			0.810	20
sec-Butylbenzene	0.0250	0.0248	0.0251	99.2	100	74.0-121			1.07	20
Carbon disulfide	0.0250	0.0215	0.0218	86.0	87.3	55.0-127			1.47	20
Carbon tetrachloride	0.0250	0.0245	0.0250	98.0	99.9	63.0-122			1.89	20
Chlorobenzene	0.0250	0.0221	0.0224	88.3	89.5	79.0-121			1.42	20
Chlorodibromomethane	0.0250	0.0219	0.0222	87.4	88.7	75.0-125			1.47	20
Chloroethane	0.0250	0.0307	0.0323	123	129	47.0-152			5.13	20
Chloroform	0.0250	0.0235	0.0233	93.8	93.3	72.0-121			0.530	20
Chloromethane	0.0250	0.0238	0.0242	95.4	96.9	48.0-139			1.56	20
1,2-Dibromoethane	0.0250	0.0217	0.0221	86.9	88.3	77.0-123			1.53	20
1,1-Dichloroethane	0.0250	0.0235	0.0237	93.9	94.9	70.0-126			1.11	20
1,2-Dichloroethane	0.0250	0.0220	0.0220	88.0	87.9	67.0-126			0.170	20
1,1-Dichloroethene	0.0250	0.0223	0.0228	89.1	91.0	64.0-129			2.17	20
cis-1,2-Dichloroethene	0.0250	0.0229	0.0230	91.6	92.0	73.0-120			0.420	20
trans-1,2-Dichloroethene	0.0250	0.0266	0.0272	106	109	71.0-121			2.38	20
1,2-Dichloropropane	0.0250	0.0224	0.0225	89.4	90.0	75.0-125			0.620	20
cis-1,3-Dichloropropene	0.0250	0.0216	0.0215	86.3	86.0	79.0-123			0.350	20
trans-1,3-Dichloropropene	0.0250	0.0203	0.0203	81.3	81.0	74.0-127			0.350	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0223	0.0225	89.1	90.1	77.0-120			1.18	20
2-Hexanone	0.125	0.121	0.120	97.1	95.7	58.0-147			1.48	20
Isopropylbenzene	0.0250	0.0232	0.0235	92.9	94.2	75.0-120			1.40	20
p-Isopropyltoluene	0.0250	0.0246	0.0251	98.5	100	74.0-126			1.74	20
2-Butanone (MEK)	0.125	0.120	0.120	95.7	96.1	37.0-158			0.360	20
Methylene Chloride	0.0250	0.0290	0.0291	116	116	66.0-121			0.220	20
4-Methyl-2-pentanone (MIBK)	0.125	0.113	0.112	90.2	89.4	59.0-143			0.890	20
Methyl tert-butyl ether	0.0250	0.0258	0.0269	103	107	64.0-123			4.12	20
Naphthalene	0.0250	0.0205	0.0208	81.9	83.2	62.0-128			1.56	20
n-Propylbenzene	0.0250	0.0237	0.0241	94.8	96.2	79.0-120			1.48	20
Styrene	0.0250	0.0213	0.0216	85.2	86.2	78.0-124			1.11	20
1,1,1,2-Tetrachloroethane	0.0250	0.0241	0.0242	96.3	96.7	75.0-122			0.450	20
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0227	88.1	90.9	71.0-122			3.06	20
Tetrachloroethene	0.0250	0.0224	0.0228	89.8	91.4	70.0-127			1.77	20
Toluene	0.0250	0.0226	0.0224	90.4	89.7	77.0-120			0.770	20
1,1,1-Trichloroethane	0.0250	0.0244	0.0240	97.4	95.9	68.0-122			1.56	20
1,1,2-Trichloroethane	0.0250	0.0221	0.0218	88.4	87.2	78.0-120			1.35	20
Trichloroethene	0.0250	0.0246	0.0243	98.5	97.2	78.0-120			1.40	20
1,2,4-Trimethylbenzene	0.0250	0.0228	0.0230	91.1	92.1	75.0-120			1.06	20
1,3,5-Trimethylbenzene	0.0250	0.0235	0.0239	94.0	95.7	75.0-120			1.75	20
Vinyl chloride	0.0250	0.0268	0.0278	107	111	64.0-133			3.68	20
Xylenes, Total	0.0750	0.0667	0.0680	88.9	90.7	77.0-120			1.93	20
o-Xylene	0.0250	0.0223	0.0228	89.3	91.1	78.0-120			1.93	20
m&p-Xylenes	0.0500	0.0444	0.0452	88.9	90.5	77.0-120			1.77	20
(S) Toluene-d8				103	102	80.0-120				
(S) Dibromofluoromethane				105	106	76.0-123				
(S) 4-Bromofluorobenzene				95.8	96.7	80.0-120				



Method Blank (MB)

(MB) R3215854-1 05/04/17 13:21

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDLC mg/l
TPH (GC/FID) High Fraction	0.154	0.0247	0.100	
(S) o-Terphenyl	66.7		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215854-2 05/04/17 13:39 • (LCSD) R3215854-3 05/04/17 13:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u> %	<u>LCSD Qualifier</u> %	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.71	1.65	114	110	50.0-150		3.58	20	
(S) o-Terphenyl				69.6	70.1	31.0-160				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215175-1 05/02/17 10:07				
Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U	0.0247	0.100	
(S) o-Terphenyl	58.5		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215175-2 05/02/17 10:24 • (LCSD) R3215175-3 05/02/17 10:41									
Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD Limits		
							<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD
TPH (GC/FID) High Fraction	1.50	1.73	1.75	115	117	50.0-150			%
(S) o-Terphenyl				66.4	67.8	31.0-160			0.990
									20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215176-1 05/02/17 10:58				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U	0.0247	0.100	
(S) o-Terphenyl	55.3		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215176-2 05/02/17 11:15 • (LCSD) R3215176-3 05/02/17 11:32									
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD
	mg/l	mg/l	mg/l	%	%	%			%
Analyte									
TPH (GC/FID) High Fraction	1.50	1.66	1.67	111	111	50.0-150		0.530	20
(S) o-Terphenyl				72.9	69.4	31.0-160			

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3215177-1 05/02/17 11:49

Analyte	MB Result mg/l	<u>MB Qualifier</u> mg/l	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U	0.0247	0.100	
(S) o-Terphenyl	58.4		31.0-160	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215177-2 05/02/17 12:06 • (LCSD) R3215177-3 05/02/17 12:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.65	1.69	110	112	50.0-150			2.15	20
(S) o-Terphenyl				69.4	70.8	31.0-160				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3216618-1 05/09/17 11:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDLCSD Qualifier	RPD	RPD Limits
TPH (GC/FID) High Fraction	U	0.0247	0.100			
(S) o-Terphenyl	62.7		31.0-160			

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3216618-2 05/09/17 11:51 • (LCSD) R3216618-3 05/09/17 12:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	LCSD Result mg/l	LCSD Rec. %	Rec. Limits %	LCSD Qualifier	RPD	RPD Limits
TPH (GC/FID) High Fraction	1.50	1.49	99.1	1.53	102	50.0-150		2.93	20
(S) o-Terphenyl			62.3		64.7	31.0-160			

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier Description

B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

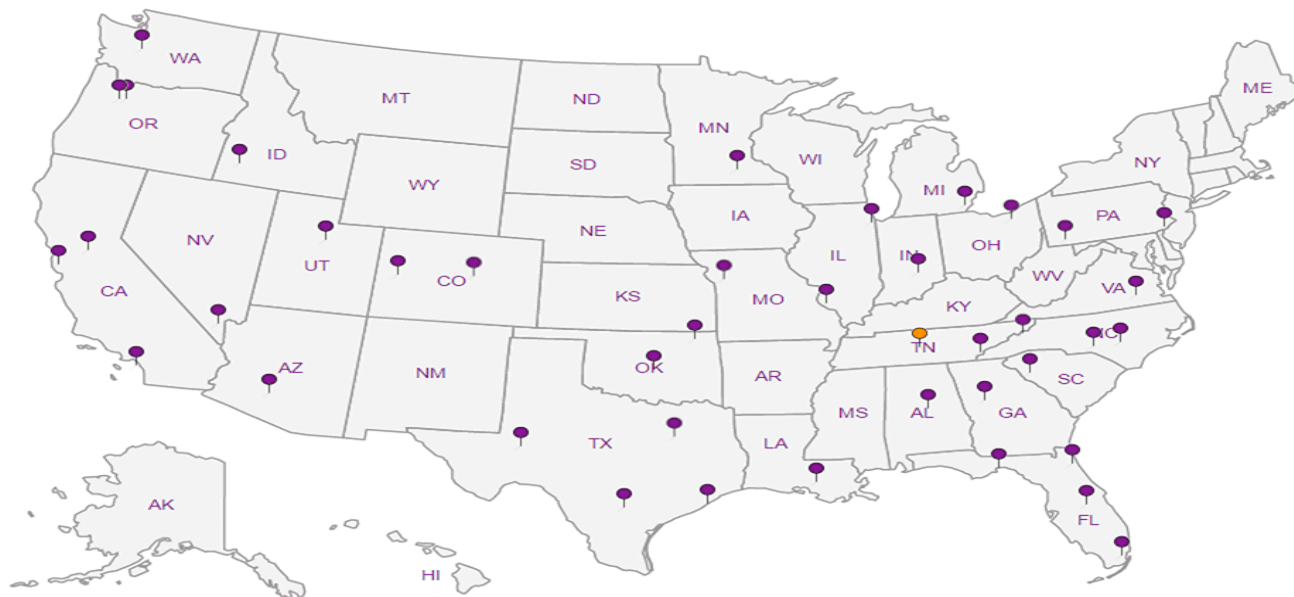
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Third Party & Federal Accreditations

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

ES&C Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ES&C Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:

TRC Solutions - Austin, TX

505 E. Huntland Dr, Ste 250

Austin, TX 78752

Billing Information:

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:

Julie Speer

Email To:

jspeer@trcsolutions.com

Project:

REST Spring 2017

Description:

City/State
Collected: NM

Phone: 512-684-3170

Fax:

Client Project #

Lab Project #

Collected by (print):

Scott Ude/HMI Team

Site/Facility ID #

REST (Navajo - Artesia)

Collected by (signature):

Scott Ude

Rush? (Lab MUST Be Notified)

Same Day 200%

Next Day 100%

Two Day 50%

Three Day 25%

Immediately

Packed on ice N ☒ Y ☒

Date Results Needed

P.O. # 107027

Email? ☒ No ☒ YesFAX? ☐ No ☐ Yes

Sample ID

RW-15C

MW-48

MW-130

KWB-4

RW-49

Comp/Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Matrix *

GW

GW

GW

GW

GW

GW

GW

GW

GW

Depth

1000

915

1050

Date

4/26/17

4/26/17

4/26/17

Time

1000

915

1050

No. of

Cntrs

8

10

10

VOC

DRO

GRO

Short List Metals (Total & Dissolved)

Cations (from "total metals" bottle)

Anions

NO2NO3, TDS

Long List Metals (Total & Dissolved)

Cyanide

Shipped Via:

Burn /Contaminant

Sample # (lab only)

10

20

20

TSR: Chris McCord

Cooler:

Accnum: TRCATX

Template:

Prelogin:

Chain of Custody

Analysis / Container / Preservative



12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859



L# 10-1905668

Table # 241017

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature)

Scott Ude

Date: 4/27/17

Time: 0800

Received by: (Signature)

Relinquished by: (Signature)

Scott Ude

Date: 4/27/17

Time: 0800

Received by: (Signature)

Relinquished by: (Signature)

Scott Ude

Date: 4/27/17

Time: 0800

Received by: (Signature)

pH Temp

Flow Other

Samples returned via: ☒ UPS☐ FedEx ☐ Courier

Temp: 51 °C Bottles Received: 445

Date: 4-28-17 Time: 0900

Hold #

Condition: (lab use only)

COC Seal Intact: ☒ Y ☐ N ☐ NApH Checked: ☒ NCF: ☒

Company Name/Address:

TRC Solutions - Austin, TX
 505 E. Huntland Dr, Ste 250
 Austin, TX 78752

Billing Information:

Accounts Payable
 21 Griffin Road North
 Windsor, CT 06095

Report to:

Julie Speer

Project:

REST Spring 2017

Description:

Email To:

jspeer@trcsolutions.com

City/State
Collected:

NM

Phone: 512-684-3170

Fax:

Client Project #

Lab Project #

Collected by (print):

Scott Ude/HMI Team

Site/Facility ID #

REST (Navajo - Artesia)

Collected by (signature):

Scott Ude

Rush? (Lab MUST Be Notified)

Same Day 200%
 Next Day 100%
 Two Day 50%
 Three Day 25%

Immediately
 Packed on Ice N ☒ Y ☒

Date Results Needed

107027

Email? ☒ No ☒ Yes
 FAX? ☒ No ☒ Yes

Sample ID:

KWB-P4

MW-52

MW-109

MW-110

Comp/Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Grab

Matrix *

GW

GW

GW

GW

GW

GW

GW

GW

GW

GW

Date

4/24/17

855

Time

855

No. of

4

VOC

X

X

X

X

DRO

X

X

X

X

GRO

X

X

X

X

Short List Metals (Total & Dissolved)

Cations (from "total metals" bottle)

Anions

NO2NO3, TDS

Long List Metals (Total & Dissolved)

Cyanide

Shipped Via:

Flare/Contaminant

Sample # (lab only)

24

Cooler:

TSR: **Chris McCord**

Prelogin:

Template:

Accnum: TRCATX

Table #

L# **L905668**

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859

YOUR LAB OF CHOICE



Chain of Custody

Analysis / Container / Preservative

Page 11 of 28

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - Wastewater **DW** - Drinking Water **OT** - Other

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature)

Scott Ude

Date:

4/27/17

Received by: (Signature)

[Signature]

Time:

0800

Relinquished by: (Signature)

[Signature]

Date:

4/27/17

Received by: (Signature)

[Signature]

Time:

0800

Relinquished by: (Signature)

[Signature]

Date:

4/27/17

Received by: (Signature)

[Signature]

Time:

0800

Relinquished by: (Signature)

[Signature]

Date:

4/27/17

Received by: (Signature)

[Signature]

Time:

0800

Relinquished by: (Signature)

[Signature]

Date:

4/27/17

Received by: (Signature)

[Signature]

Time:

0800

Relinquished by: (Signature)

[Signature]

Date:

4/27/17

Received by: (Signature)

[Signature]

Time:

0800

Relinquished by: (Signature)

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Date:

4/27/17

Received by: (Signature)

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Time:

0800

Relinquished by: (Signature)

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Date:

4/27/17

Received by: (Signature)

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Time:

0800

Relinquished by: (Signature)

[Signature]

Date:

4/27/17

Received by: (Signature)

[Signature]

Time:

0800

Relinquished by: (Signature)

[Signature]

Date:

4/27/17

Received by: (Signature)

[Signature]

Time:

0800

Chain of Custody

Analysis / Container / Preservative

Billing Information:

Company Name/Address:

ESC
L.A.B. S.C.H.E.N.I.C.E.S.
12065 Lebanon Rd.
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752



Report to:
Julie Speer
Email To: jspeer@trcsolutions.com
Project: **REST Spring 2017**
Description:

Client Project #
Phone: 512-684-3170
Fax:
Site/Facility ID #
REST (Navajo - Artesia)
P.O. # **107027**

Collected by (print):
Scott Ude/HMI Team
Collected by (signature):
Scott Ude
Immediately
Packed on ice N ☒ Y ☐
Rush? (Lab MUST Be Notified)
Same Day ☐ Next Day ☐ Two Day ☐ Three Day ☐
Date Results Needed
Email? ☒ No ☐ Yes
FAX? ☐ No ☐ Yes
No. of Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide
RA-4798	Grab	GW		4/26/17	925	5	X				X	X	X		
RA-4196	Grab	GW		4/26/17	945	5	X				X	X	X		
RA-3156	Grab	GW		4/26/17	1015	5	X				X	X	X		
RA-313	Grab	GW					X	X			X	X	X		
KWB-7	Grab	GW					X	X			X	X	X		
MW-135	Grab	GW		4/26/17	1650	10	X	X	X	X	X	X	X	X	09
KWB-11A	Grab	GW					X	X	X	X	X	X	X	X	
KWB-11B	Grab	GW					X	X	X	X	X	X	X	X	
MW-115	Grab	GW					X	X	X	X	X	X	X	X	
MW-114	Grab	GW					X	X	X	X	X	X	X	X	

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____

Flow _____ Other _____

Hold # _____

Condition: _____ (lab use only)

Received by: (Signature) _____ Time: 0800 Date: 4/27/17

Received by: (Signature) _____ Time: _____ Date: _____

Received by: (Signature) _____ Time: _____ Date: _____

Temp: 3.1 °C Bottles Received: 445

Date: _____ Time: _____

COC Seal Intact: ☒ Y ☐ N ☐ NA

pH Checked: _____ NCF: _____

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature) *Scott Ude*

Relinquished by: (Signature) _____

Relinquished by: (Signature) _____

Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095		Chain of Custody Page <u>14</u> of <u>28</u> L.A.B. S.C.I.E.N.C.E.S. YOUR LAB OF CHOICE 12005 Leblanc Rd Mount Juliet, TN 37122 Phone: 615-748-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Report to: Julie Speer		Email To: jspeer@trcsolutions.com		L# 1905668	
Project Description: REST Spring 2017		City/State Collected: NM		Table #	
Phone: 512-684-3170 Fax:		Lab Project #		Actnum: TRCATX	
Collected by (print): Scott Ude		Site/Facility ID # REST (Navajo - Artesia)		Template:	
Collected by (signature): 		Rush? (Lab MUST Be Notified) Same Day 200% Next Day 100% Two Day 50% Three Day 25%		Prelogin:	
Immediately Packed on Ice N <u>Y</u>		Date Results Needed 107027		TSR: Chris McCord	
Sample ID		Comp/Grab		Cooler:	
Matrix *		Depth		Shipped Via:	
MW-117		Grab		Item/Contaminant	
MW-118		Grab		Sample # (lab only)	
MW-119		Grab		10	
NP-5		Grab		11	
MW-136		Grab		12	
MW-126A		Grab			
MW-126B		Grab			
MW-127		Grab			
MW-129		Grab			
RW-#18A		Grab			

Analysis / Container / Preservative		Hold #	
VOC	DRO	GRO	Short List Metals (Total & Dissolved)
Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)
Cyanide			

Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other	
Remarks: Dissolved metals field-filtered.	
Relinquished by: (Signature) 	Received by: (Signature) 0800
Relinquished by: (Signature)	Received by: (Signature)
Relinquished by: (Signature)	Received by: (Signature)

pH	Temp
Flow	Other
Samples returned via: ☒ FedEx ☐ Courier ☐ UPS	
Temp: 3.1	Bottles Received: 415
Date: 4-28-17	Time: 0900
COC Seal Intact: Y N NA	pH Checked: NCF:

Chain of Custody

ESC
L.A.B. S.C.I.E.N.C.E.S
13005 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

YOUR LAB OF CHOICE

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:
Julie Speer
jspeer@trcsolutions.com

Project Description:
REST Spring 2017

City/State Collected:
NM

Lab Project #

P.O. #
107027

Site/Facility ID #
REST (Navajo - Artesia)

Collected by (print):
Scott Ude/HMI Team

Collected by (signature):
Scott Ude

Rush? (Lab MUST Be Notified)
Same Day 200%
Next Day 100%
Two Day 50%
Three Day 25%

Immediately Packed on Ice N ☒ Y ☐

Sample ID

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Email? ☐ No ☒ Yes	FAX? ☐ No ☐ Yes	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide
RW-#11-0	Grab	GW		4/26/17	1210			11	X	X	X	X	X	X	X	X	X
KWB-12A	Grab	GW		4/26/17	1250			11	X	X	X	X	X	X	X	X	X
KWB-12B	Grab	GW							X	X	X	X	X	X	X	X	X
KWB-2R	Grab	GW							X	X	X	X	X	X	X	X	X
MW-56	Grab	GW		4/26/17	1120			11	X	X	X	X	X	X	X	X	X
KWB-13	Grab	GW							X	X	X	X	X	X	X	X	X
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ **Temp** _____

Flow _____ **Other** _____

Hold #

Condition: (lab use only)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier

Temp: 51.1 °C **Bottles Received:** 445

Date: 4-28-17 **Time:** 0900

Received by: (Signature) _____ **Time:** 0800

Received by: (Signature) _____ **Time:** _____

Received for lab by: (Signature) _____ **Time:** _____

COC Seal Intact: ☒ Y ☐ N ☐ NA

pH Checked: _____ **NCF:** _____



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-707-5859
Fax: 615-758-5859

L# 190868

Table #

Actnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Rem./Contaminant

Sample # (lab only)

20

21

22

23

Cyanide

Long List Metals (Total & Dissolved)

NO2NO3, TDS

Anions

Cations (from "total metals" bottle)

Short List Metals (Total & Dissolved)

GRO

DRO

VOC

Analysis / Container / Preservative

Billing Information:

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Email To:
jspeer@trcwsolutions.com

City/State
Collected: NIM

Lab Project #

P.O. # 107027

Date Results Needed

Email? ☐ No ☒ Yes

FAX? ☐ No ☐ Yes

No. of Cntrs

Date

Time

4/26/17 925

4/26/17 1310

4/26/17 1020

4/26/17 1115

10

8

10

11

Depth

Matrix *

Comp/Grab

Grab

Grab

Grab

Grab

Grab

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Report to:
Julie Speer

Project:
Description: REST Spring 2017

Phone: 512-684-3170

Fax:

Client Project #

Site/Facility ID #

REST (Navajo - Artesia)

Rush? (Lab MUST Be Notified)

Same Day ☐ 200%

Next Day ☐ 100%

Two Day ☐ 50%

Three Day ☐ 25%

Collected by (print):

Scott Ude/HMI Team

Collected by (signature):

Signature

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

MW-103

MW-104

MW-64

MW-65

RW-5R

MW-102

RW-4

RW-6

MW-99

MW-66

* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date: 4/27/17

Date:

Date:

Date:

Time: 0800

Time:

Time:

Time:

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Received for lab by: (Signature)

pH

Temp

Flow

Other

Samples returned via: ☐ UPS

☒ FedEx ☐ Courier

Temp: 3.1 °C

Bottles Received: 445

Date: 4-28-17

Time: 0900

Time:

Time:

Condition: (lab use only)

COC Seal Intact: Y N NA

pH Checked: NCF:

Hold #



12003 Leblanc Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1905668

Table #

Actnum: TRCATX

Template:

Prelogin: Chris McCord

Shipped Via:

Item / Contaminant

Sample # (lab only)

21

25

26

27

28

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:
Julie Speer

Project Description:
REST Spring 2017

Phone: 512-684-3170

Fax:

Collected by (print):
Scott Ude/HMI Team

Collected by (signature):
Scott Ude

Immediately Packed on Ice N ☒ Y ☐

Site/Facility ID #
REST (Navajo - Artesia)

Rush? (Lab MUST be Notified)
Same Day ☐ 200%
Next Day ☐ 100%
Two Day ☐ 50%
Three Day ☐ 25%

Comp/Grab

Matrix *

Depth

Date

Time

No. of Cntrs

107027

4/26/17

1210

10

10

10

10

10

10

10

10

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City/State Collected: NM

Lab Project #

P.O. #

Date Results Needed

4/26/17

1210

10

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Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature) Scott Ude

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095		Chain of Custody Page <u>24</u> of <u>28</u> KESC L.A.B. S.C.I.E.N.C.E-S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Report to: Julie Speer Email To: jspeer@trcsolutions.com		Analysis / Container / Preservative			
Project Description: REST Spring 2017		Long List Metals (Total & Dissolved) NO2NO3, TDS Anions Cations (from "total metals" bottle) Short List Metals (Total & Dissolved) GRO DRO VOC Cyanide			
Phone: 512-684-3170 Fax:		L # 1905668 Table #			
Collected by (print): Scott Ude/HMI Team		Acctnum: TRCATX Template: Prelogin: TSR: Chris McCord Cooler:			
Collected by (signature): 		Shipped Via: Item / Contaminant Sample # (lab only)			
Immediately Packed on Ice N <u> </u> Y <u> </u> ✓		40 41			
Sample ID MW-50 MW-97 MW-92 RW-1 MW-91 MW-90 MW-96 MW-94 RW-8 MW-67		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Comp/Grab Grab Grab Grab Grab Grab Grab Grab Grab Grab Grab		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Matrix * GW GW GW GW GW GW GW GW GW GW GW		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Depth 200% 100% 50% 25%		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Rush? (Lab MUST Be Notified) Same Day <u> </u> Next Day <u> </u> Two Day <u> </u> Three Day <u> </u>		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Date Results Needed Email? <u> </u> No <u> </u> Yes <u> </u> FAX? <u> </u> No <u> </u> Yes <u> </u>		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
City/State NM Collected:		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Lab Project #		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
P.O. # 107027		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Client Project #		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Site/Facility ID # REST (Navajo - Artesia)		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Relinquished by: (Signature) 		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Relinquished by: (Signature) 		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			
Relinquished by: (Signature) 		4/26/17 1420 10 4/26/17 1505 8 4/26/17 1615 11			

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date: 4/27/17

Time: 0800

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Temp: 3.1

Bottles Received: 445

Date: 4-28-17

Time: 0900

Temp: 3.1

Bottles Received: 445

Condition: (lab use only)

COC Seal Intact: Y N NA

pH Checked: NCF:

Hold #

Flow Temp

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier

Temp: 3.1

Bottles Received: 445

Date: 4-28-17

Time: 0900

Temp: 3.1

Bottles Received: 445

Chain of Custody Page 23-28

ESC
L-A-B S-C-I-E-N-C-E-S

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Company Name/Address:
TRC Solutions - Austin, TX
 505 E. Huntland Dr, Ste 250
 Austin, TX 78752

Billing Information:
 Accounts Payable
 21 Griffin Road North
 Windsor, CT 06095

Report to:
 Julie Speer

Project Description:
REST Spring 2017

Phone: 512-684-3170
 Fax:

Client Project #

Site/Facility ID #
REST (Navajo - Artesia)

Collected by (print):
Scott Ude/HMI Team

Collected by (signature):
Scott Ude

Immediately Packed on Ice ☒ Y ☐ N

Rush? (Lab MUST Be Notified)
 Same Day ☐ Next Day ☐ Two Day ☐ Three Day ☐

Date Results Needed
107027

Email? ☐ No ☒ Yes
 FAX? ☐ No ☐ Yes

Date: Time:

Sample ID	Comp/Grab	Matrix *	Depth	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide
DUP-REST-01	Grab	GW		X	X	X	X	X	X	X	X	
DUP-REST-02	Grab	GW		X	X	X	X	X	X	X	X	
DUP-REST-03	Grab	GW	4/26/17 1200	X	X	X	X	X	X	X	X	
DUP-REST-04	Grab	GW		X	X	X	X	X	X	X	X	
DUP-REST-05	Grab	GW	4/26/17 800	X	X	X	X	X	X	X	X	
EB-REST-01	Grab	GW		X	X	X	X	X	X	X	X	
EB-REST-02	Grab	GW		X	X	X	X	X	X	X	X	
EB-REST-03	Grab	GW	4/26/17 855	X	X	X	X	X	X	X	X	
EB-REST-04	Grab	GW		X	X	X	X	X	X	X	X	
EB-REST-05	Grab	GW	4/26/17 1305	X	X	X	X	X	X	X	X	

Relinquished by: (Signature) *Scott Ude* Date: 4/27/17 Time: 0800

Relinquished by: (Signature) *Scott Ude* Date: Date: Time: Time:

Relinquished by: (Signature) *Scott Ude* Date: Date: Time: Time:

Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

pH Temp

Flow Other

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier

Temp: 3.1 °C Bottles Received: 445

Date: 4-20-17 Time: 0900

COC Seal Intact: Y N NA

PH Checked: NCF:



L·A·B S·C·I·E·N·C·E·S B·V·7



12065 Lebanon Rd.
Mount Juliet, TN 37122
phone: 615-758-5858
phone: 800-767-5859
fax: 615-758-5859

[illegible]Analysis / Container / Preservative[illegible]

* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other _____		pH _____ Temp _____	
Flow _____ Other _____		Samples returned via: ☐ UPS ☒ FedEx ☐ Courier	
Temp: _____ °C Bottles Received: _____		Temp: 3.1 Bottles Received: 445	
Date: _____		Date: 4.28.17 Time: 0900	

Remarks: Dissolved metals field-filtered.	
Relinquished by: (Signature) <i>Scott Ueh</i>	Date: 4/27/17 Time: 0800
Relinquished by: (Signature)	Date: _____ Time: _____
Relinquished by: (Signature)	Date: _____ Time: _____



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:
Julie Speer

Project:
REST Spring 2017

Description:
REST Spring 2017

Phone: 512-684-3170

Fax:

Collected by (print):
Scott Ude

Collected by (signature):
Scott Ude

Immediately Packed on Ice N ☒ Y ☐

Site/Facility ID #:
REST (Navajo - Artesia)

Rush? (Lab MUST Be Notified)
Same Day ☐ Next Day ☐ Two Day ☐ Three Day ☐

Date Results Needed
107027

Email? ☒ No ☐ Yes
FAX? ☐ No ☐ Yes

City/State NM Collected:
Lab Project #

P.O. #

Client Project #

Sample ID

Comp/Grab

Matrix *

Depth

No. of Cntrs

Time

Date

VOC

DRO

GRO

Short List Metals (Total & Dissolved)

Cations (from "total metals" bottle)

Anions

NO2NO3, TDS

Long List Metals (Total & Dissolved)

Cyanide

Shipped Via:

Item / Contaminant

Sample # (lab only)

Accnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

L# L905668

Table #

Hold #

Condition:

COC Seal Intact: Y N NA

pH Checked:

NCF:

Temp

Flow

Other

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier

Temp: 9.1 °C

Bottles Received: 445

Date: 4-26-17

Time: 0900

Received by (Signature):

Received by (Signature):

Received for lab by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by (Signature):

Relinquished by (Signature):

Relinquished by (Signature):

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ESC
 L A B S C I E N C E S
 YOUR LAB OF CHOICE
 12005 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-756-5858
 Phone: 800-767-5859
 Fax: 615-756-5859

Report to: **Julie Speer**
 Email To: **jspeer@trcsolutions.com**

Project: **REST Spring 2017**
 Description: **REST Spring 2017**

Phone: **512-684-3170**
 Fax:

Client Project #
 Site/Facility ID #
REST (Navajo - Artesia)

Collected by (print): **Scott Ude**
 Collected by (signature): *Scott Ude*

Immediately Packed on Ice: **N** ☒ **Y** ☒

Rush? (Lab MUST Be Notified)
 Same Day ☐ 200%
 Next Day ☐ 100%
 Two Day ☐ 50%
 Three Day ☐ 25%

Date Results Needed: **107027**

City/State Collected: **NM**
 Lab Project #

P.O. # **107027**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Entrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide
KWB-P4	Grab	GW					X	X	X						
MW-52	Grab	GW		4/27/17	855	11	X	X	X	X	X	X	X	X	X
MW-109	Grab	GW		4/27/17	940	10	X	X	X	X	X	X	X	X	X
MW-110	Grab	GW		4/27/17	1025	10	X	X	X	X	X	X	X	X	X
	Grab	GW													
	Grab	GW													
	Grab	GW													
	Grab	GW													
	Grab	GW													
	Grab	GW													
	Grab	GW													

Actnum: **TRCATX**
 Template:
 Prelogin:
 TSR: **Chris McCord**
 Cooler:
 Shipped Via:
 Item (Contaminant)
 Sample # (Lab only)

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature) *Scott Ude* Date: **4/27/17** Time: **1500**

Relinquished by: (Signature) _____ Date: _____ Time: _____

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Date: _____ Time: _____

Received for lab by: (Signature) *[Signature]* Date: **4-28-17** Time: **0900**

Temp: **31** °C Bottles Received: **445**

COC Seal Intact: ☒ **Y** ☐ **N** ☐ **NA**

pH Checked: ☐ **NCF**

Hold #

Condition: (lab use only)

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: ☐ **UPS** ☐ **FedEx** ☐ **Courier**



Company Name/Address:
TRC Solutions - Austin, TX
 505 E. Huntland Dr, Ste 250
 Austin, TX 78752

Billing Information:
Accounts Payable
 21 Griffin Road North
 Windsor, CT 06095

Report to:
Julie Speer
 Email To: jspeer@trcsolutions.com

Project Description:
REST Spring 2017

Phone: 512-684-3170
 Fax:

Client Project #

Site/Facility ID #
REST (Navajo - Artesia)

Collected by (print):
Scott Ude/HMI Team

Collected by (signature):
Scott Ude

Immediately Packed on Ice ☒ Yes ☐ No

Rush? (Lab MUST Be Notified)
 Same Day ☐ Next Day ☐ Two Day ☐ Three Day ☐

Date Results Needed
107027

City/State Collected: **NM**

Lab Project #

P.O. #

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide
RW-12R	Grab	GW		4/27/17	1230	8	X	X		X	X	X	X		
MW-113	Grab	GW		4/27/17	910	10	X	X	X	X	X	X	X	X	
KWB-8	Grab	GW					X	X							X
RW-22	Grab	GW					X	X		X	X	X	X		
RW-20A	Grab	GW					X	X		X	X	X	X		
RW-20B	Grab	GW					X	X		X	X	X	X		
RW-13R	Grab	GW					X	X		X	X	X	X		
RW-14R	Grab	GW					X	X		X	X	X	X		
MW-133	Grab	GW					X	X	X	X	X	X	X		
MW-134	Grab	GW					X	X	X	X	X	X	X		

* Matrix: **SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other**

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature) <i>Scott Ude</i>	Date: 4/27/17	Time: 1500	Received by: (Signature)	Temp: 3.1 °C	Bottles Received: 445
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp:	Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>JSpeer</i>	Date: 4-28-17	Time: 0900

Hold #

Condition: (lab use only)

COC Seal Intact: ☒ Y ☐ N ☐ NA

pH Checked: NCF:

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:
Julie Speer
Email To:
jspeer@trcsolutions.com

Project:
REST Spring 2017

Client Project #
512-684-3170

Site/Facility ID #
REST (Navajo - Artesia)

Collected by (print):
Scott Ude/HMI Team

Collected by (signature):
Scott Ude

Immediately
Packed on Ice: N Y ✓

Rush? (Lab MUST Be Notified)
 Same Day 200%
 Next Day 100%
 Two Day 50%
 Three Day 25%

Date Results Needed
107027

City/State Collected: **NM**

Lab Project #

P.O. #

Email? No ✓ Yes
Fax? No ✓ Yes

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide
MW-117	Grab	GW		4/27/17	920	X	X	X	X	X	X	X	X	X
MW-118	Grab	GW		4/27/17	1000	X	X	X	X	X	X	X	X	X
MW-119	Grab	GW		4/27/17	1050	X	X	X	X	X	X	X	X	X
NP-5	Grab	GW		4/27/17	1140	X	X	X	X	X	X	X	X	X
MW-136	Grab	GW				X	X	X	X	X	X	X	X	X
MW-126A	Grab	GW				X	X	X	X	X	X	X	X	X
MW-126B	Grab	GW				X	X	X	X	X	X	X	X	X
MW-127	Grab	GW				X	X	X	X	X	X	X	X	X
MW-129	Grab	GW				X	X	X	X	X	X	X	X	X
RW-18A	Grab	GW				X	X	X	X	X	X	X	X	X

* Matrix: SS Soil GW Groundwater WW Wastewater DW Drinking Water OT Other

pH _____ Temp _____

Flow _____ Other _____

Hold #

Condition: (lab use only)

COC Seal Intact: ✓ Y N NA

pH Checked: NCF:

Temp: 3.1 °C Bottles Received: 445

Date: 4-28-17 Time: 0900

Received by: (Signature) *[Signature]*

Received by: (Signature) *[Signature]*

Received for lab by: (Signature) *[Signature]*

Remarks: **Dissolved metals field-filtered.**

Relinquished by: (Signature) <i>Scott Ude</i>	Date: <u>4/27/17</u>	Time: <u>1500</u>	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Company Name/Address:

TRC Solutions - Austin, TX

505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:

Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to:

Julie Speer

Email To:

jspeer@trcsolutions.com

Project:

REST Spring 2017

Description:

City/State
Collected: NM

Phone: 512-684-3170

Fax:

Client Project #

Collected by (Print):

Scott Ude/HMI Team

Collected by (Signature):

Scott Ude

Immediately

Packed on Ice N ☒ Y ☐

Site/Facility ID #

REST (Navajo - Artesia)

Rush? (Lab MUST be Notified)

☐ Same Day ☐ 200%☐ Next Day ☐ 100%☐ Two Day ☐ 50%☐ Three Day ☐ 25%

Date Results Needed

107027

Email? ☐ No ☒ YesFAX? ☐ No ☐ Yes

Date

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Cntrs

Date

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Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095		Chain of Custody Page <u>24</u> of <u>34</u>  L.A.B. S.C.I.E.N.C.E.S. YOUR LAB OF CHOICE 12065 Jackson Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Report to: Julio Speer Project: REST Spring 2017		Email To: jspeer@trcsolutions.com		L# 1405668 Table # Acctnum: TRCATX Template: Prelimin: TSR: Chris McCord Cooler: Shipped Via:	
Client Project # Phone: 512-684-3170 Fax:		City/State Collected: NM Lab Project #		Item / Contaminant Sample # (lab only)	
Collected by (print): Scott Ude/HMI Team Collected by (signature): <i>Scott Ude</i> Immediately Packed on Ice N <u>Y</u> <u>✓</u>		Site/Facility ID # REST (Navajo - Artesia) Rush? (Lab MUST Be Notified) Same Day <u>200%</u> Next Day <u>100%</u> Two Day <u>50%</u> Three Day <u>25%</u>		Date Results Needed P.O. # 107027 Email? <u>No</u> <u>✓</u> Yes FAX? <u>No</u> <u>✓</u> Yes	
Sample ID		Comp/Grab		Matrix *	
MW-50		Grab		GW	
MW-97		Grab		GW	
MW-92		Grab		GW	
RW-1		Grab		GW	
MW-91		Grab		GW	
MW-90		Grab		GW	
MW-96		Grab		GW	
MW-94		Grab		GW	
RW-8		Grab		GW	
MW-67		Grab		GW	
VOC		DRO		GRO	
Short List Metals (Total & Dissolved)		Cations (from "total metals" bottle)		Anions	
Long List Metals (Total & Dissolved)		Cyanide			

* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other

Remarks: Dissolved metals field-filtered.

Relinquished by: (Signature) <i>Scott Ude</i>	Date: 4/27/17	Time: 1500	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>

pH	Temp
Flow	Other
Samples returned via: ☐ UPS ☒ FedEx ☐ Courier	
Temp: 3.1	Bottles Received: 445
Date: 4-28-17	Time: 0900

Hold #	Condition: (lab use only)
COC Seal Intact: Y N NA	pH Checked: NCF:

Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752	Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com

[illegible]

* Matrix: SS - Soil GW - Groundwater WW - Wastewater DW - Drinking Water OT - Other		pH _____ Temp _____	
Flow _____ Other _____		Hold # _____	
Remarks: Dissolved metals field-filtered.		Condition: (lab use only)	
Relinquished by: (Signature) <i>Scott Udu</i>	Date: <i>4/27/17</i>	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier	COC Seal Intact: ☒ Y ☐ N ☐ NA
Relinquished by: (Signature)	Date:	Temp: <i>3.1</i> °C Bottles Received: <i>445</i>	pH Checked: _____ NCF: _____
Relinquished by: (Signature)	Date:	Date: <i>4-28-17</i> Time: <i>0900</i>	Received for lab by: (Signature) <i>[Signature]</i>

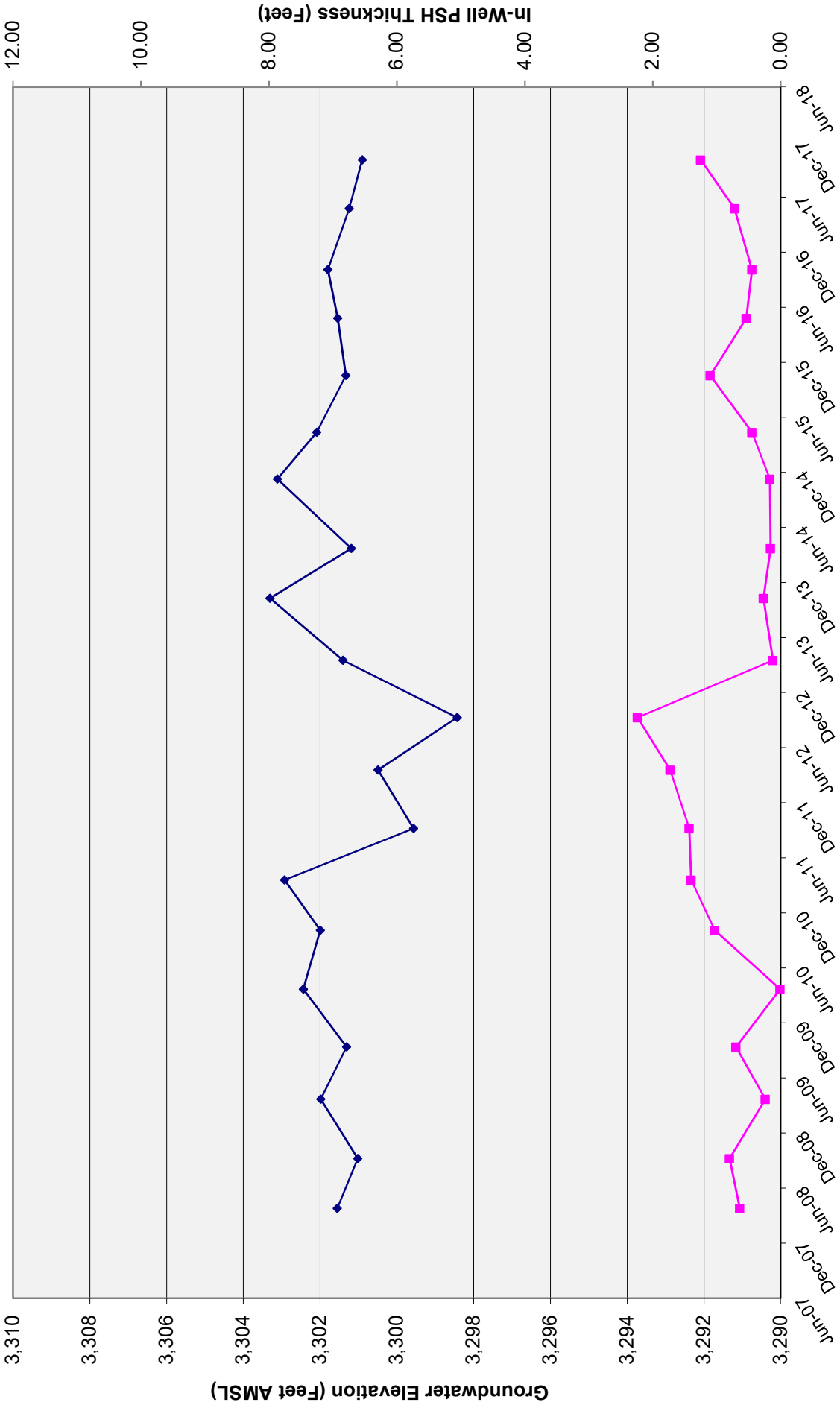
Company Name/Address: TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095		Chain of Custody Page <u>27</u> of <u>34</u> 	
Report to: Julie Speer		Email To: jspeer@trcsolutions.com		YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: REST Spring 2017		City/State Collected: NM		L# L905668	
Phone: 512-684-3170 Fax:		Client Project #		Table #	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		Acctnum: TRCATX	
Collected by (signature): 		Rush? (Lab MUST Be Notified) Same Day _____ 200% Next Day _____ 100% Two Day _____ 50% Three Day _____ 25%		Template:	
Immediately Packed on Ice N <u>Y</u> <u>Y</u> <u>Y</u>		Date Results Needed P.O. # 107027		Prelogin:	
Sample ID		Comp/Grab		Matrix *	
Trip Blank-REST-01		Grab		GW	
Trip Blank-REST-02		Grab		GW	
Trip Blank-REST-03		Grab		GW	
Trip Blank-REST-04		Grab		GW	
Trip Blank-REST-05		Grab		GW	
Trip Blank-REST-06		Grab		GW	
Trip Blank-REST-07		Grab		GW	
Trip Blank-REST-08		Grab		GW	
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Trip Blank-REST-203		Grab		GW	
Trip Blank-REST-204		Grab		GW	

ESC LAB SCIENCES Cooler Receipt Form

Client: <i>TKL KTX</i>	SDG# <i>L905668</i>
Cooler Received/Opened On: <i>4/26/17</i>	Temperature: <i>3.1</i>
Received By: Mike Lowe	
Signature: <i>[Signature]</i>	
Receipt Check List	NP
COC Seal Present / Intact?	Yes No
COC Signed / Accurate?	
Bottles arrive intact?	
Correct bottles used?	
Sufficient volume sent?	
If Applicable	
VOA Zero headspace?	
Preservation Correct / Checked?	

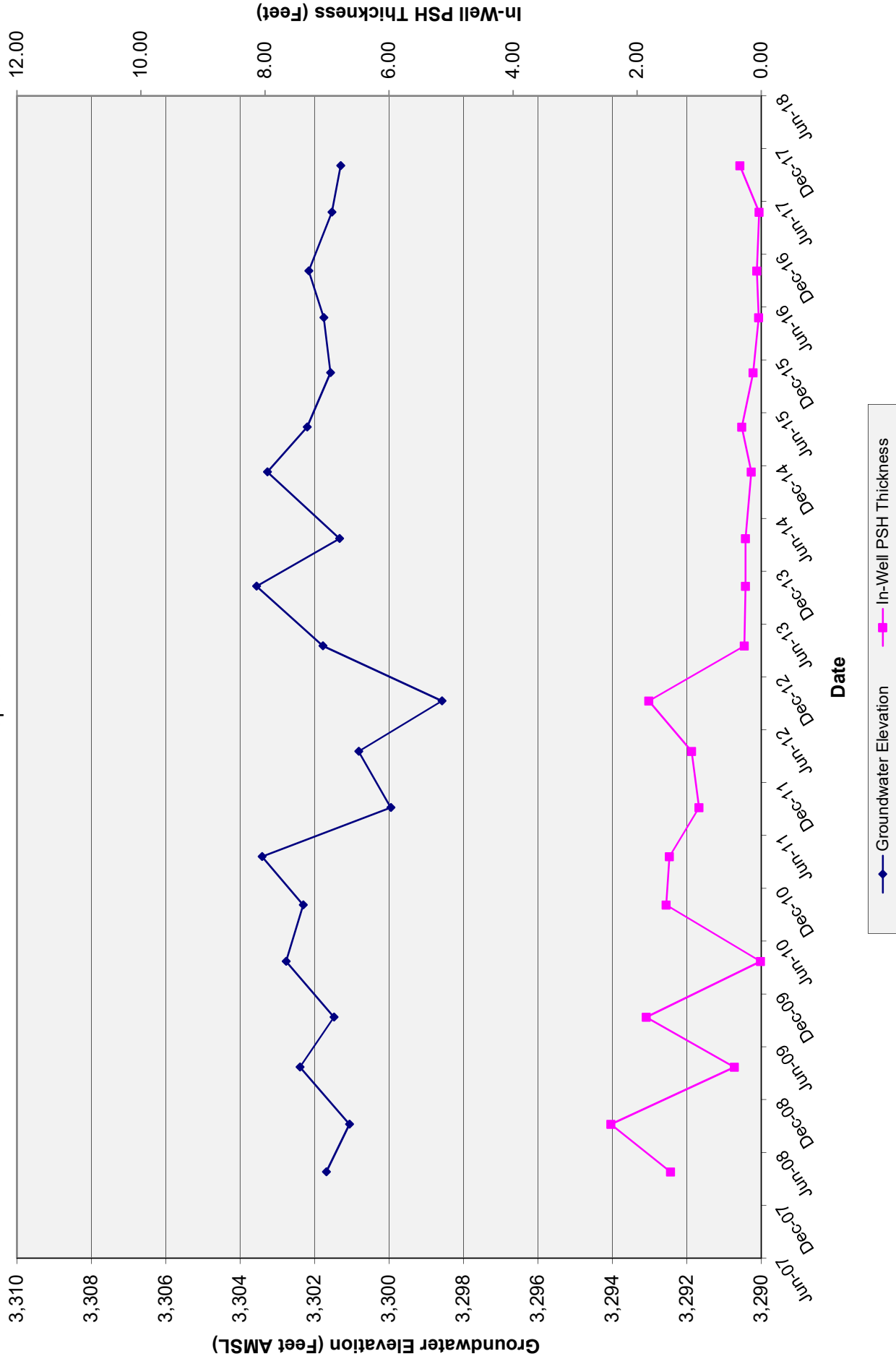
MW-85: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



MW-86: Groundwater Elevations and In-Well PSH Thicknesses

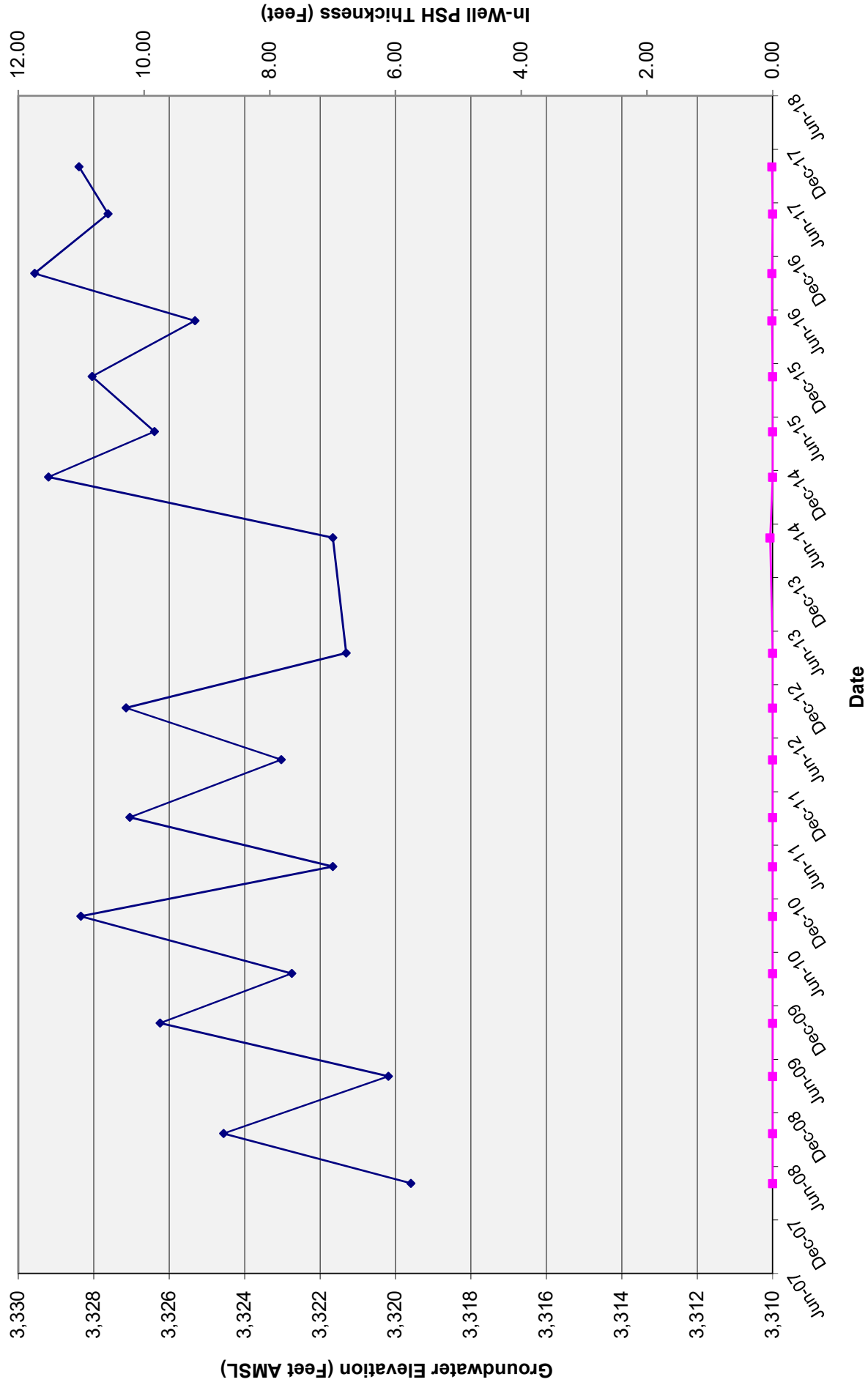
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



KWB-7: Groundwater Elevations and In-Well PSH Thicknesses

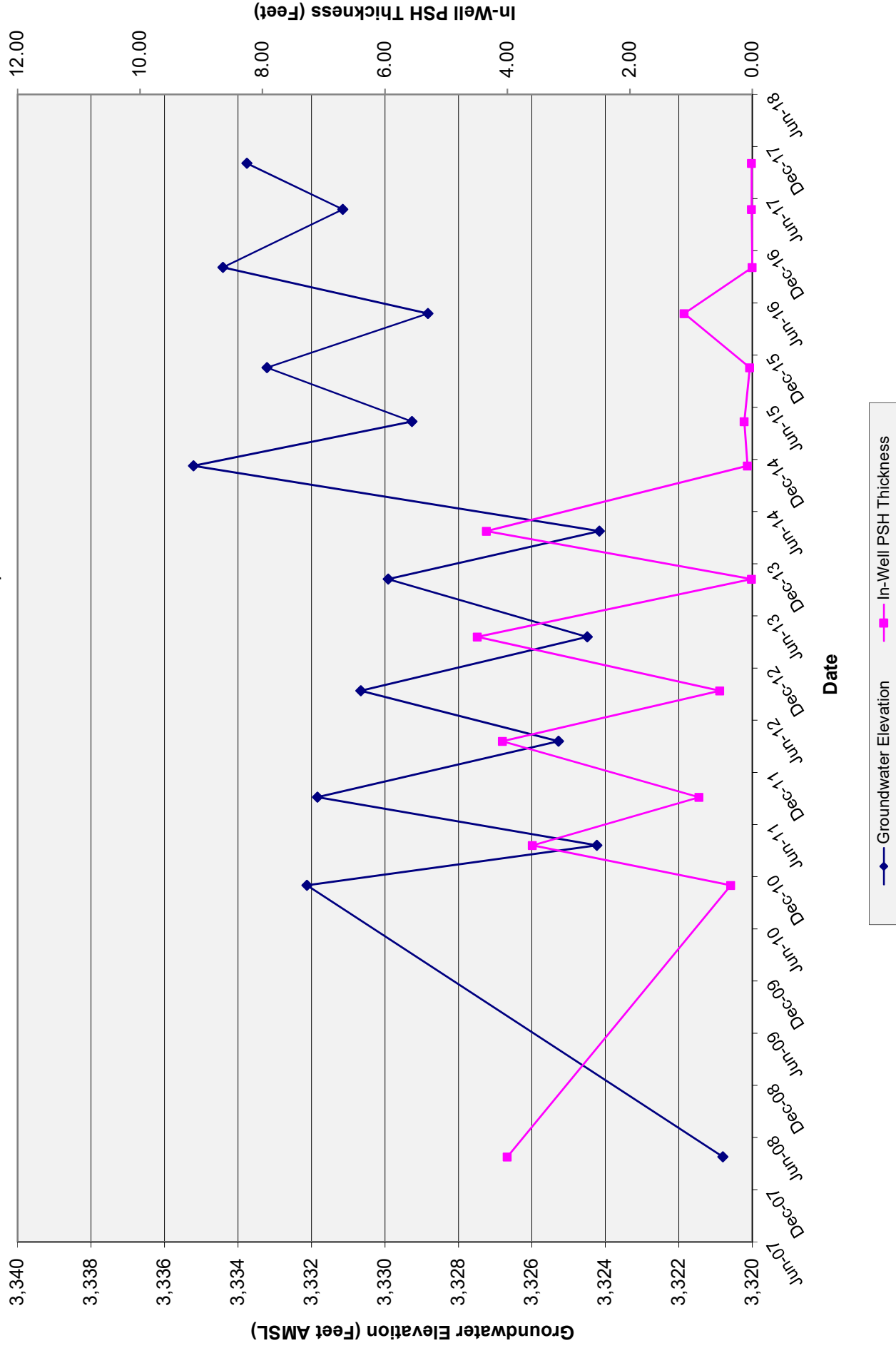
HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery



KWB-8: Groundwater Elevations and In-Well PSH Thicknesses

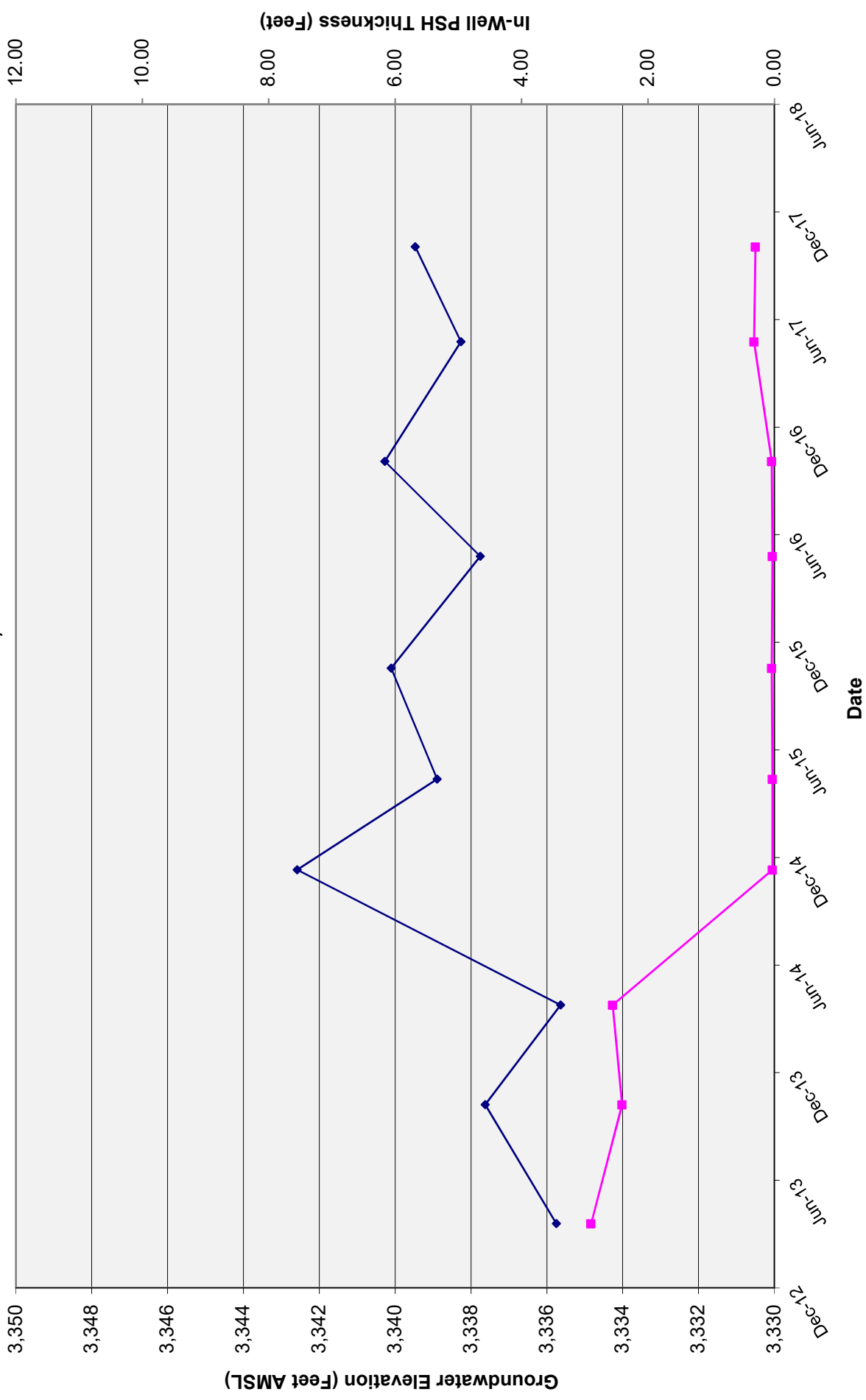
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



MW-112: Groundwater Elevations and In-Well PSH Thicknesses

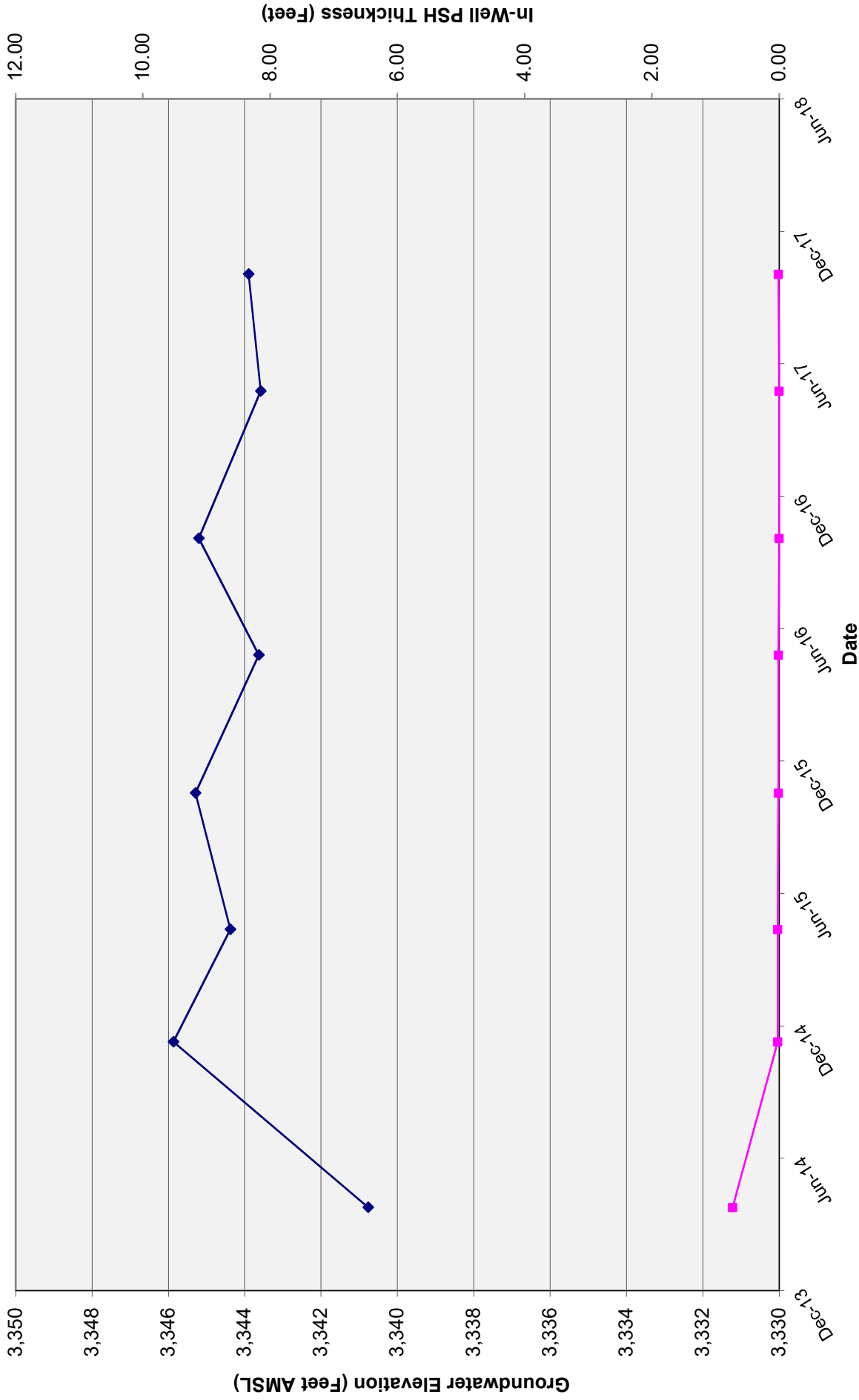
HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery



MW-129: Groundwater Elevations and In-Well PSH Thicknesses

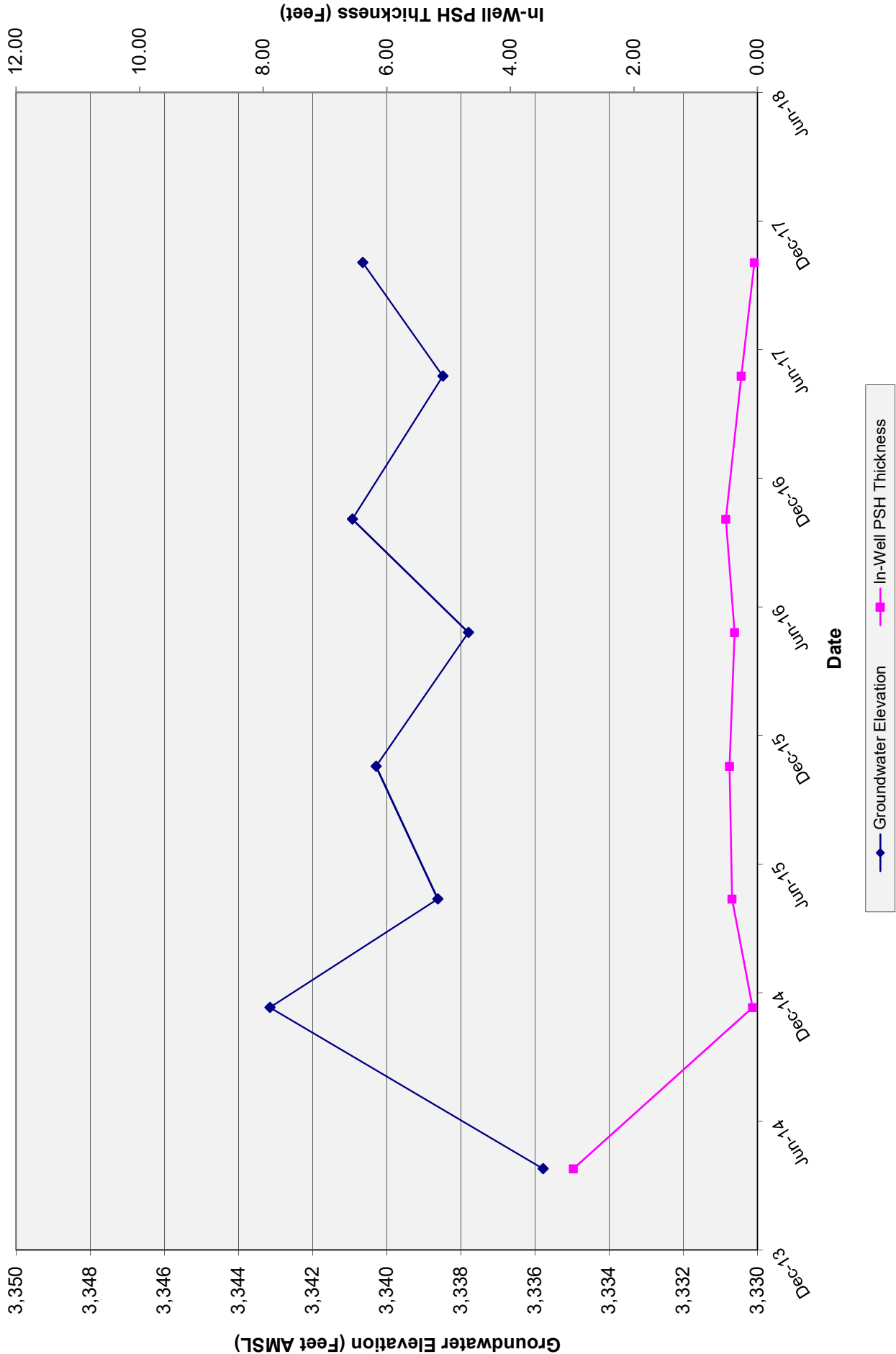
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



MW-132: Groundwater Elevations and In-Well PSH Thicknesses

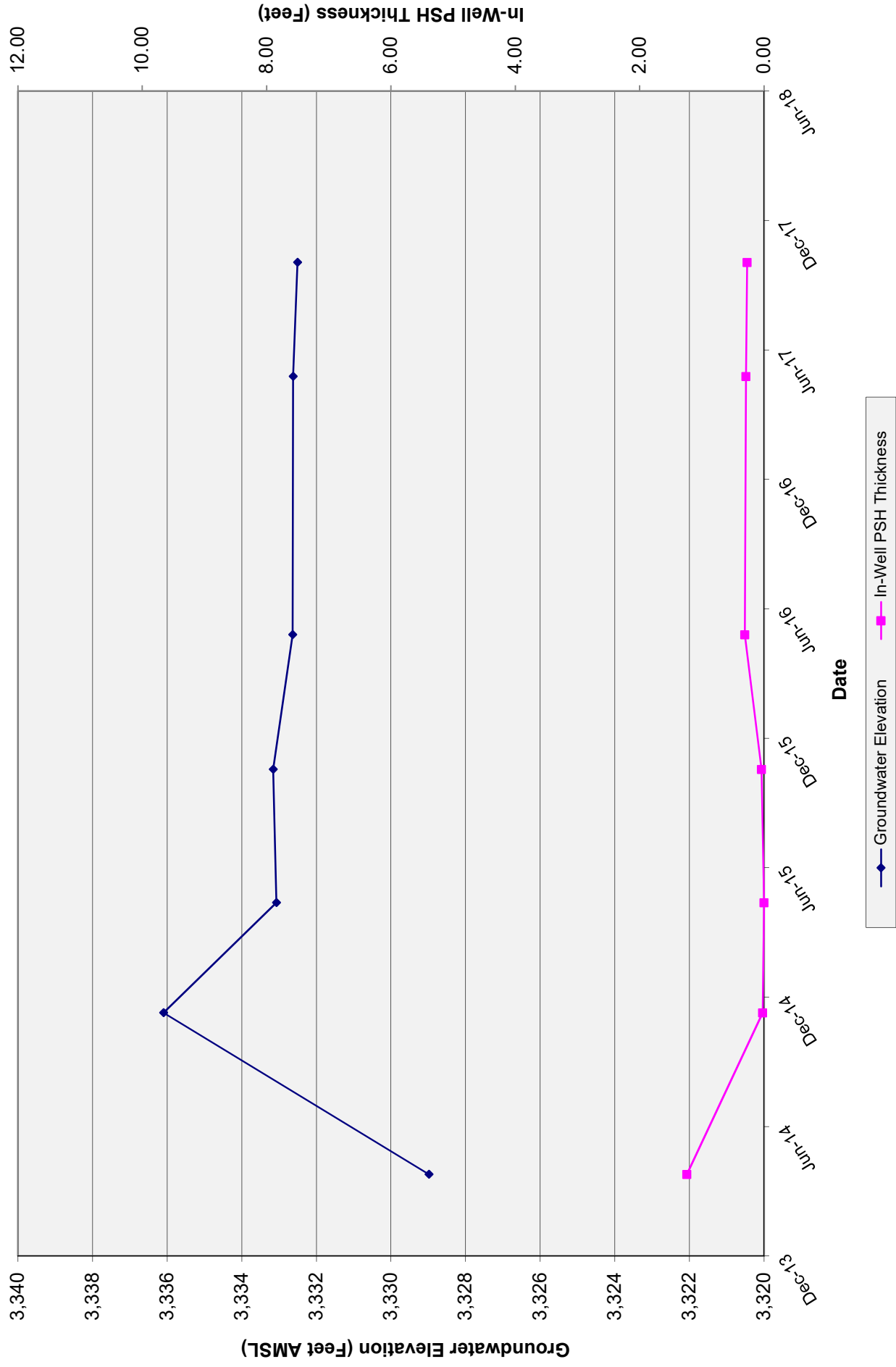
HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery



MW-133: Groundwater Elevations and In-Well PSH Thicknesses

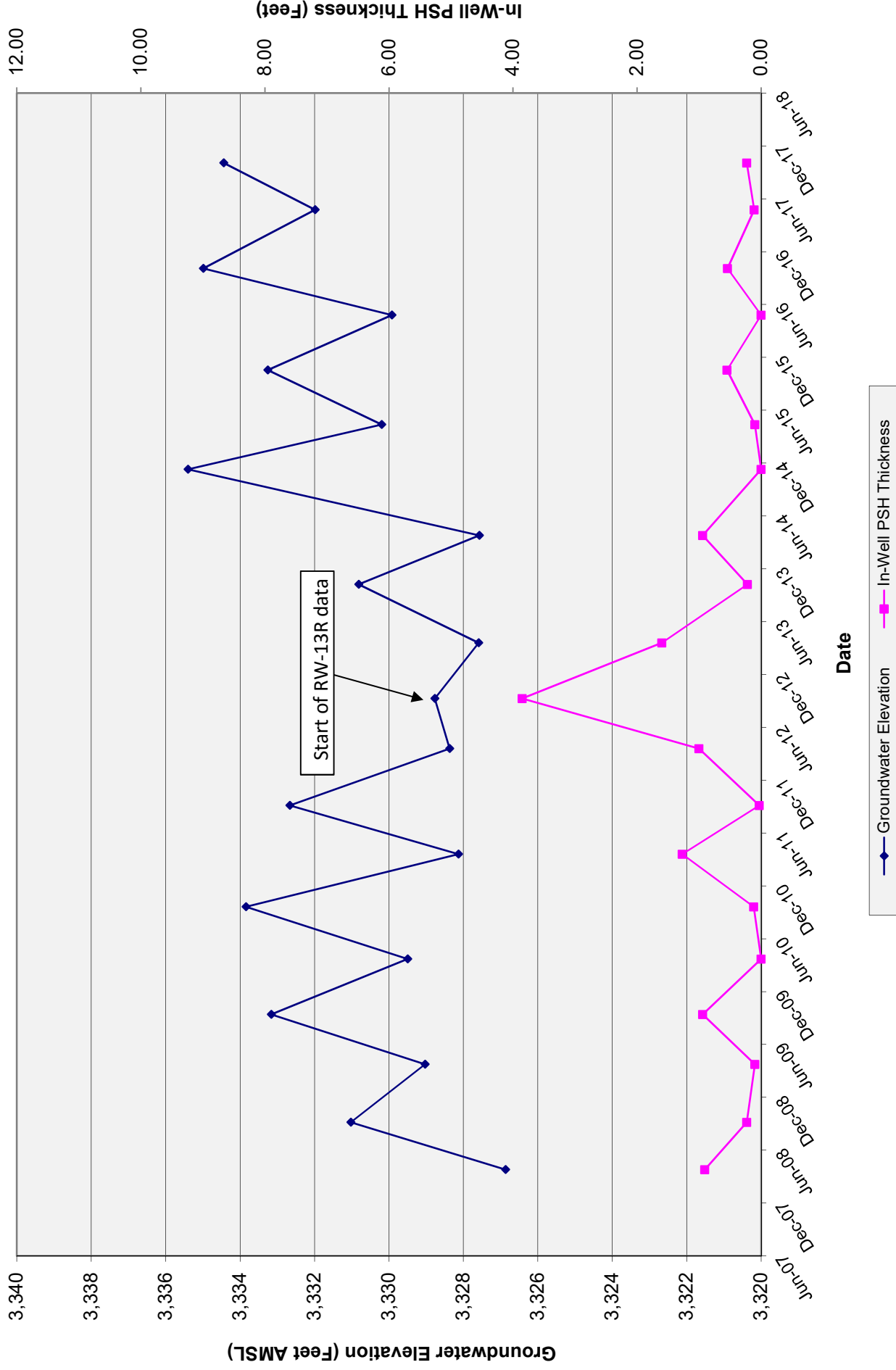
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



RW-13 & RW-13R: Groundwater Elevations and In-Well PSH Thicknesses

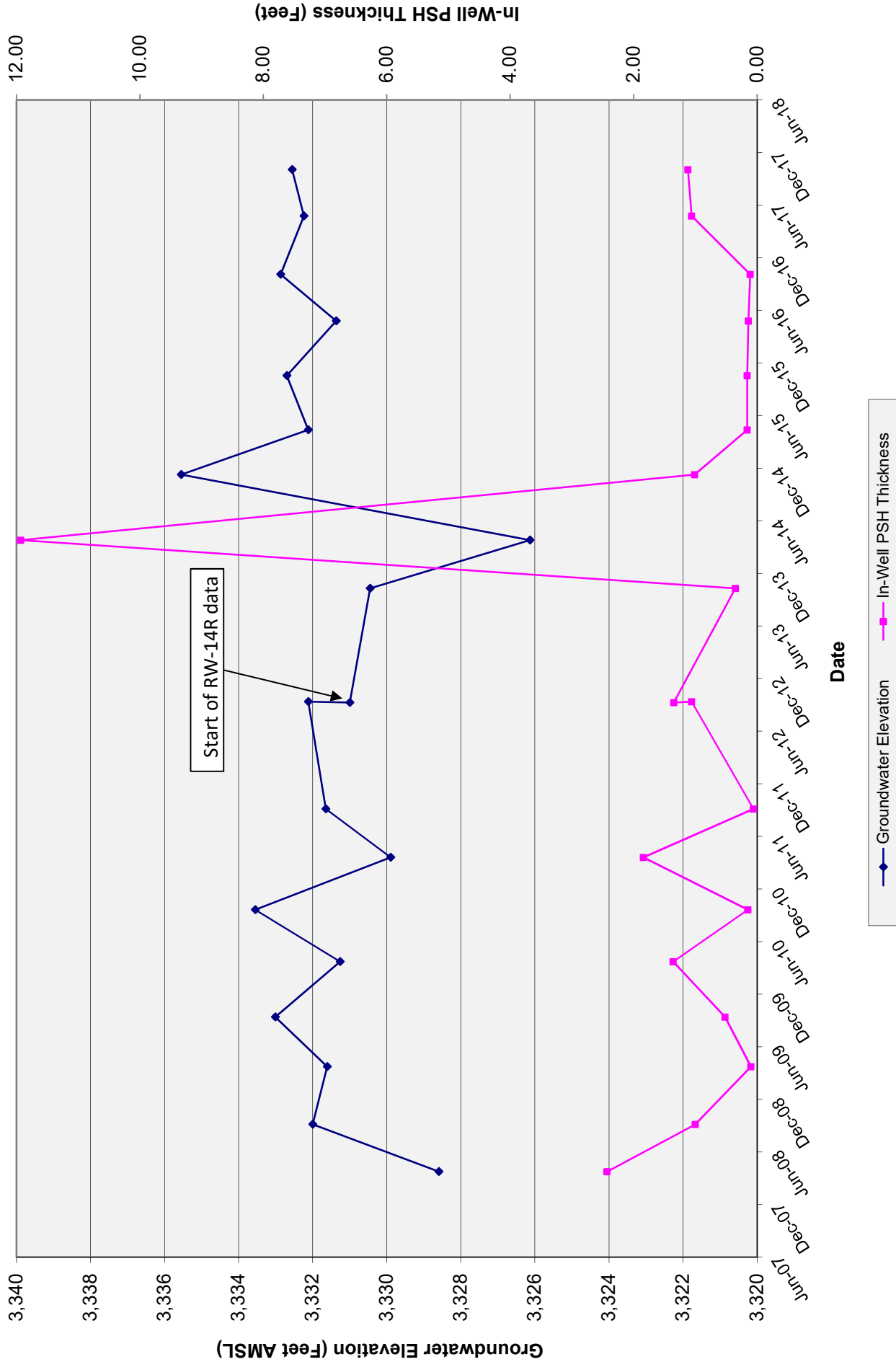
HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery



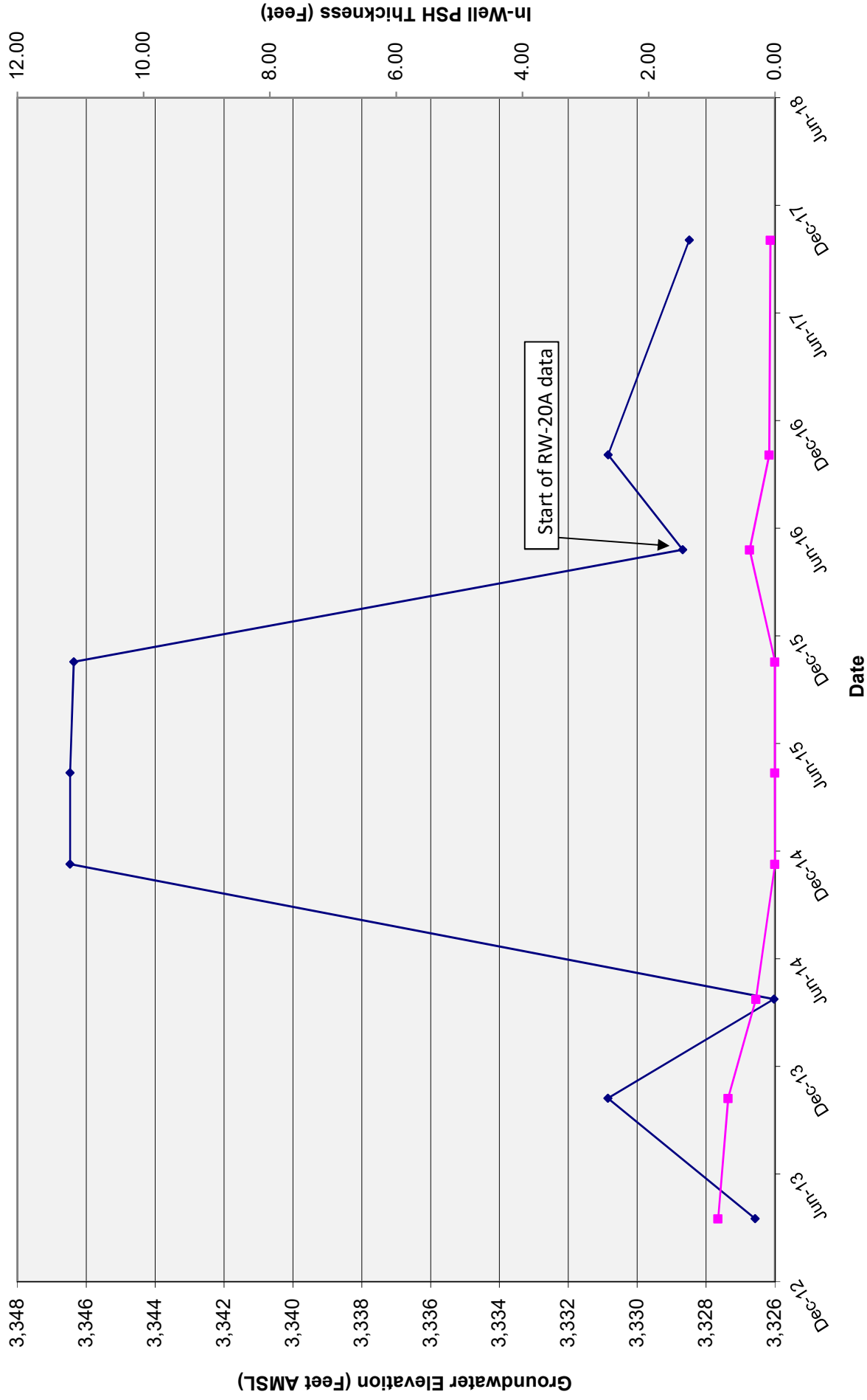
RW-14 & RW-14R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



RW-20 & RW-20A: Groundwater Elevations and In-Well PSH Thicknesses

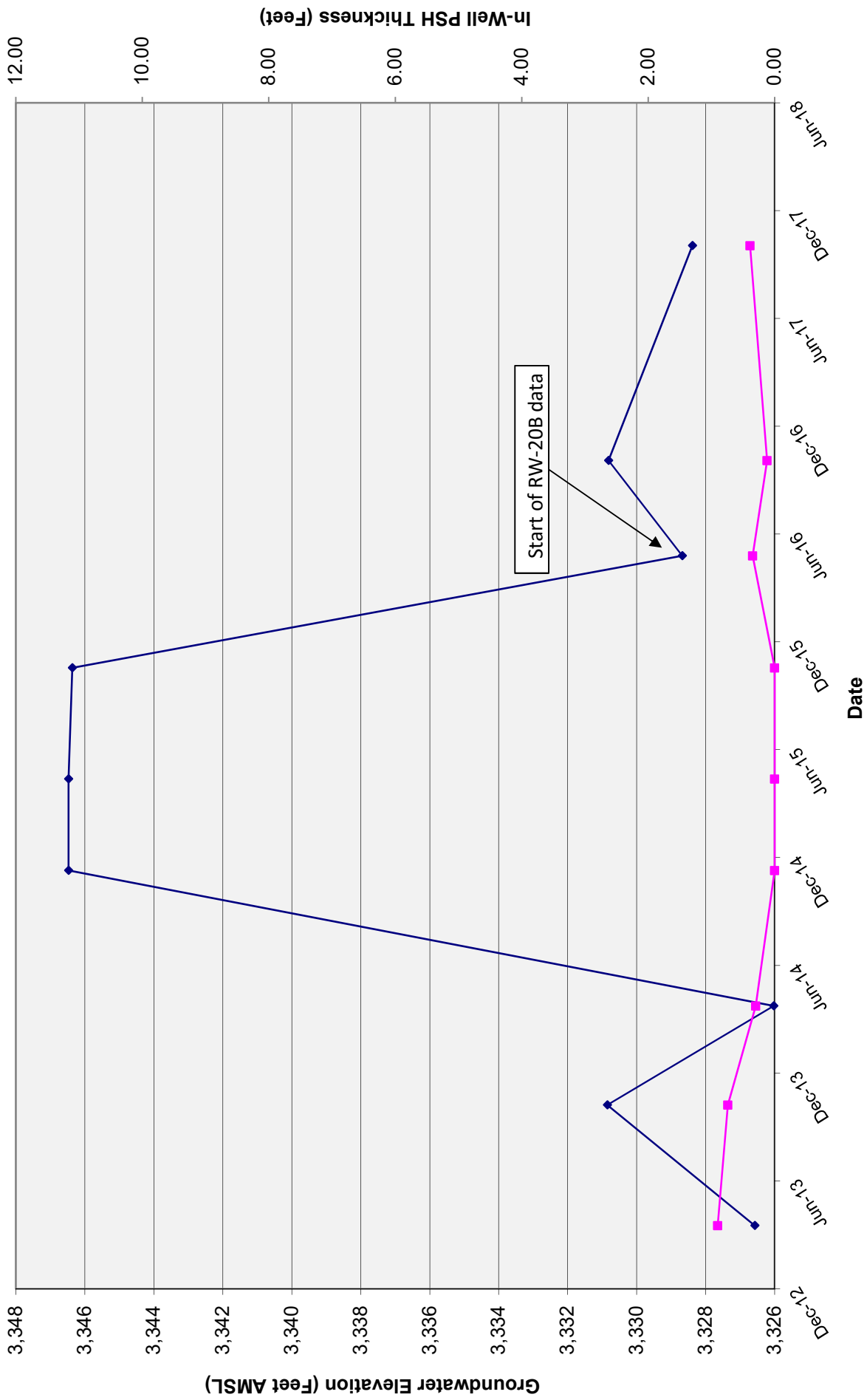
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



RW-20 & RW-20B: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

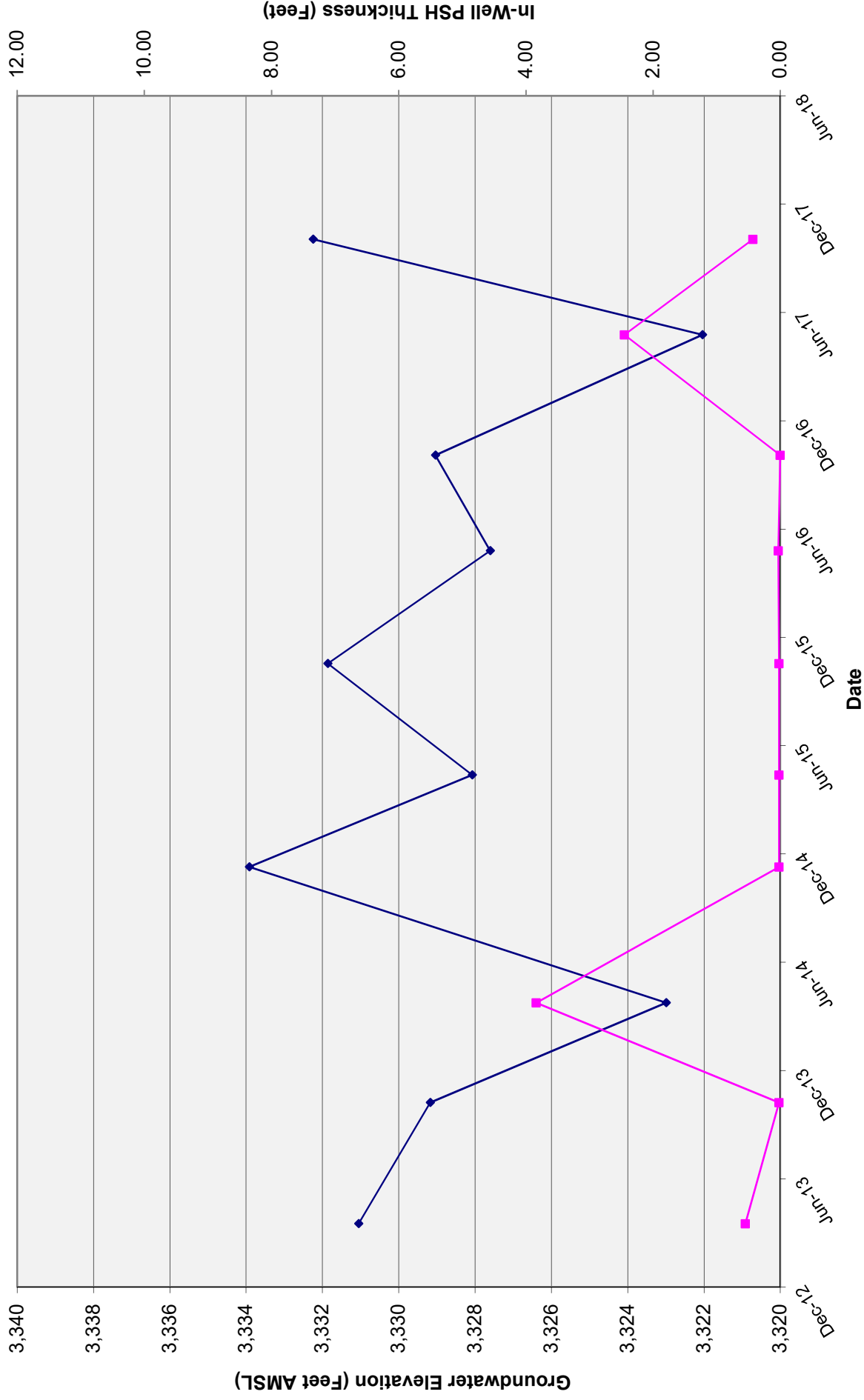
Field East of Refinery



RW-22: Groundwater Elevations and In-Well PSH Thicknesses

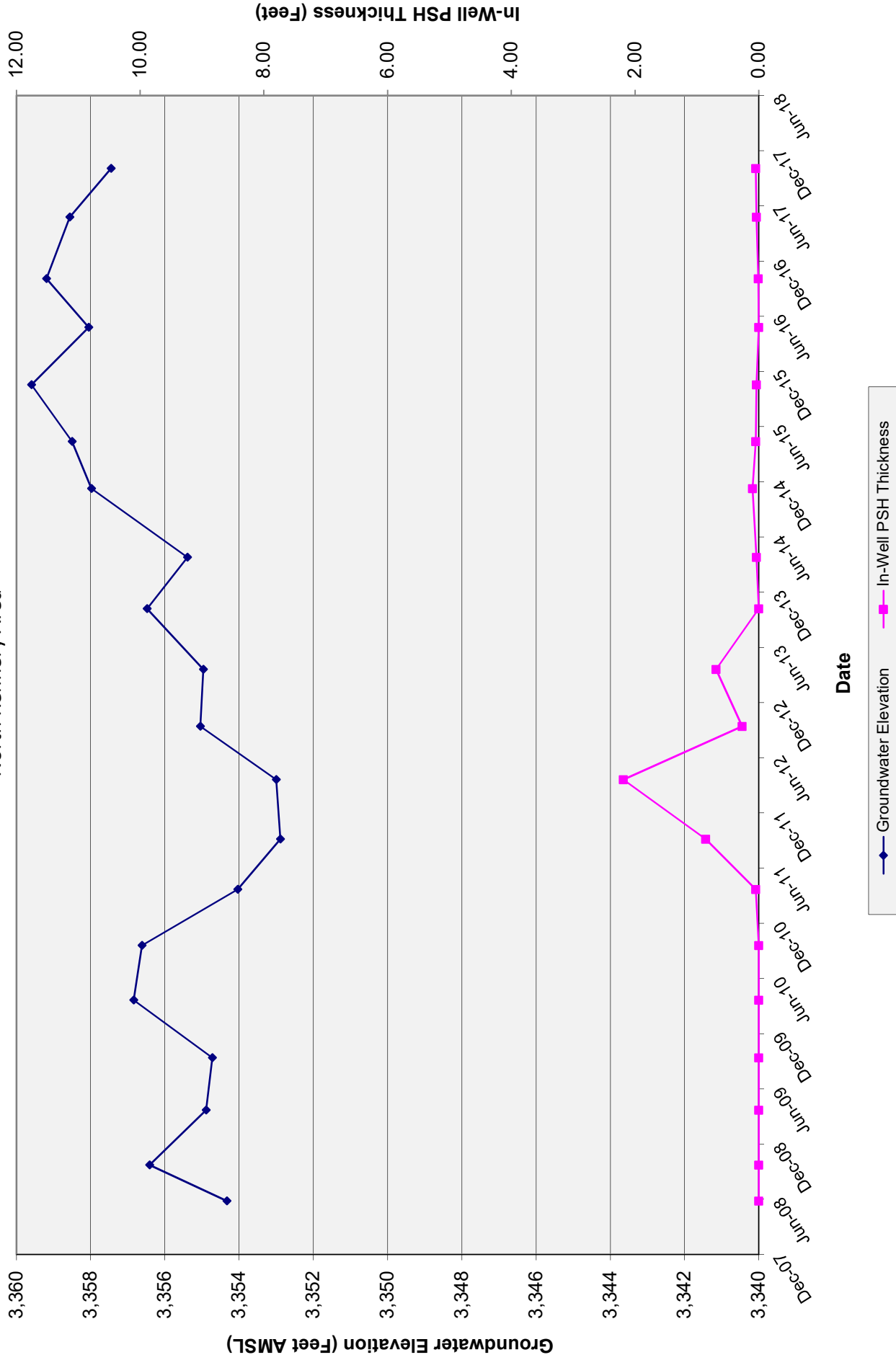
HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery



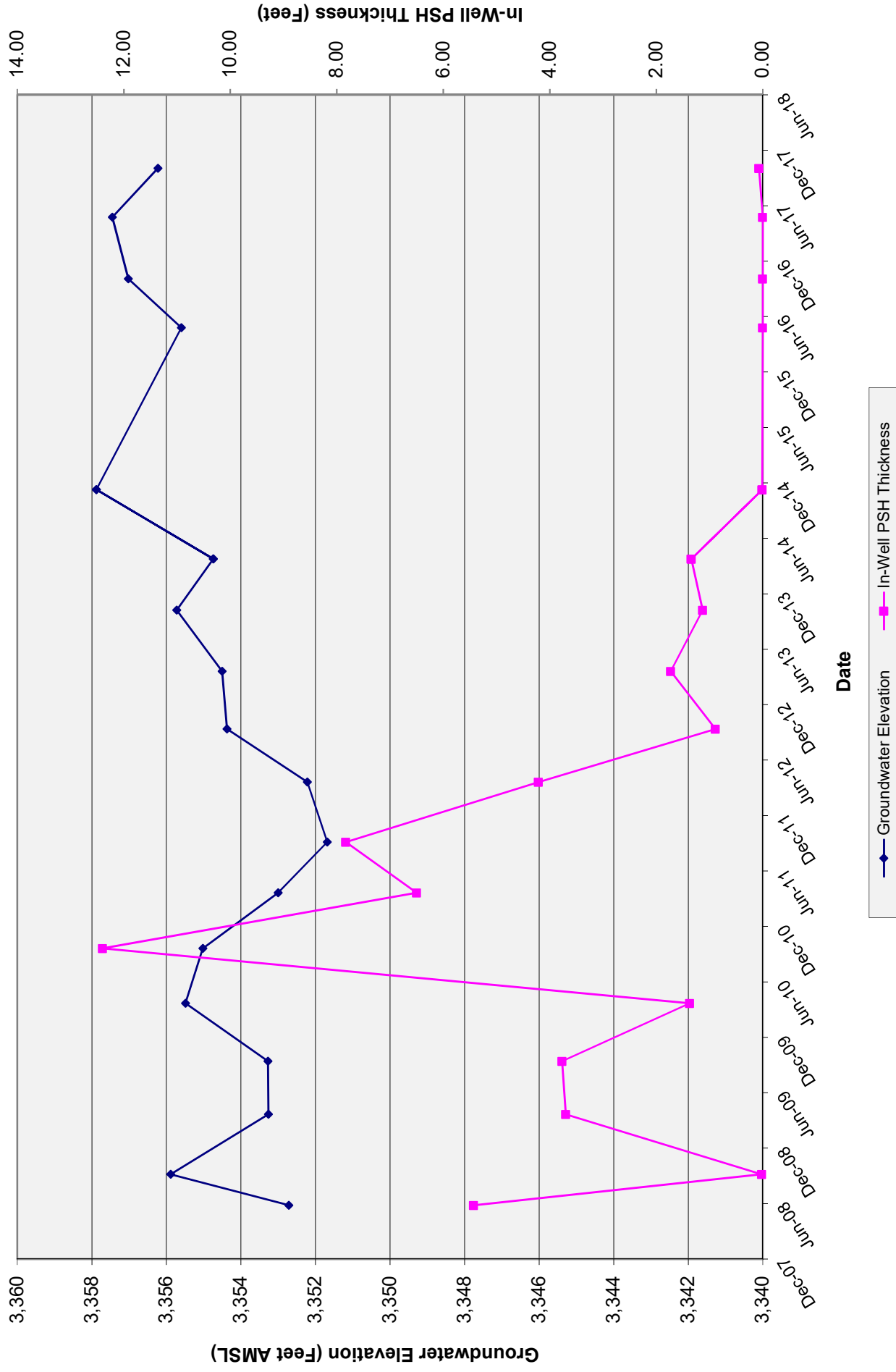
MW-92: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



MW-94: Groundwater Elevations and In-Well PSH Thicknesses

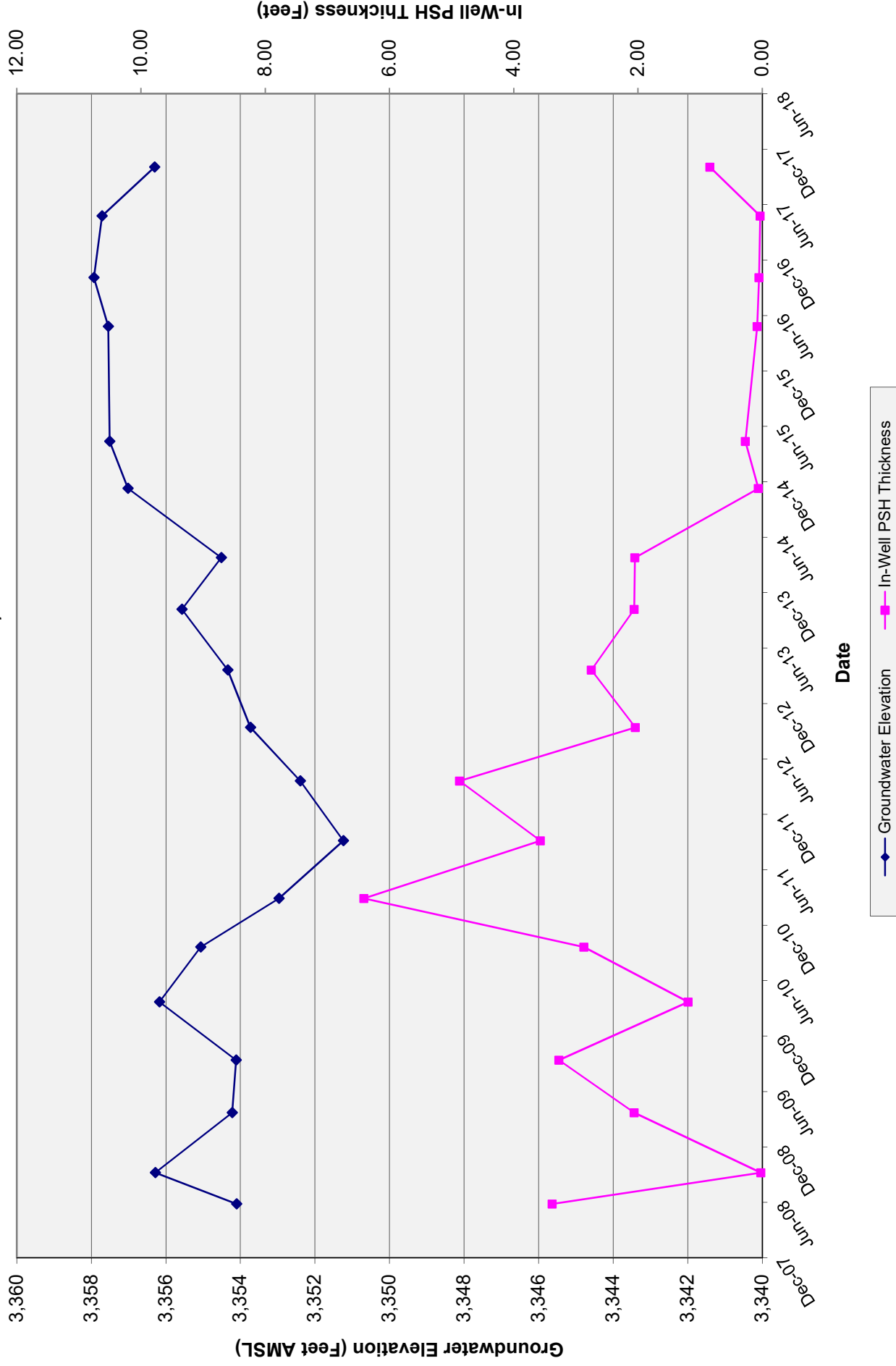
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



MW-97: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

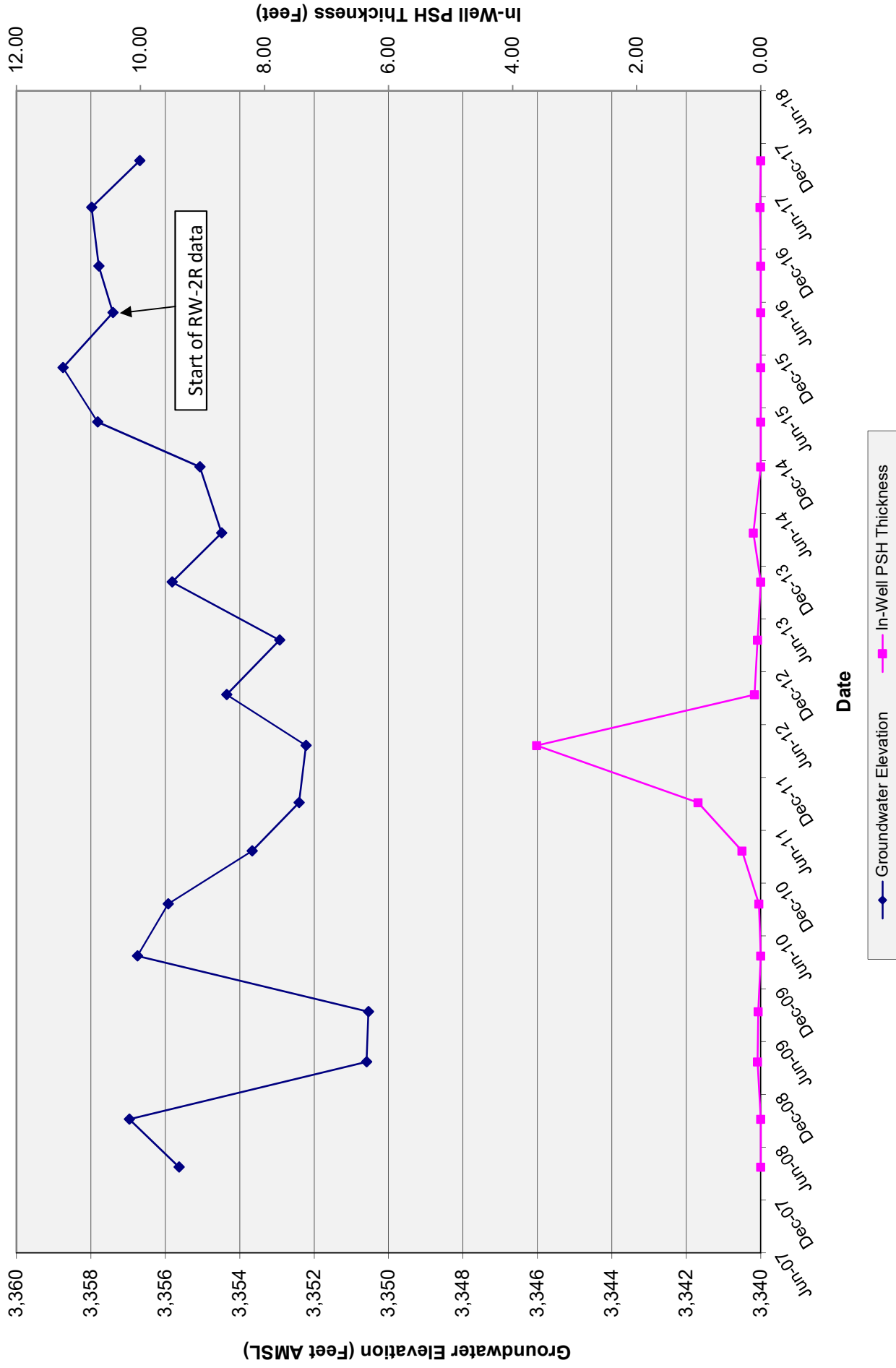
North Refinery Area



RW-2 and RW-2R: Groundwater Elevations and In-Well PSH Thicknesses

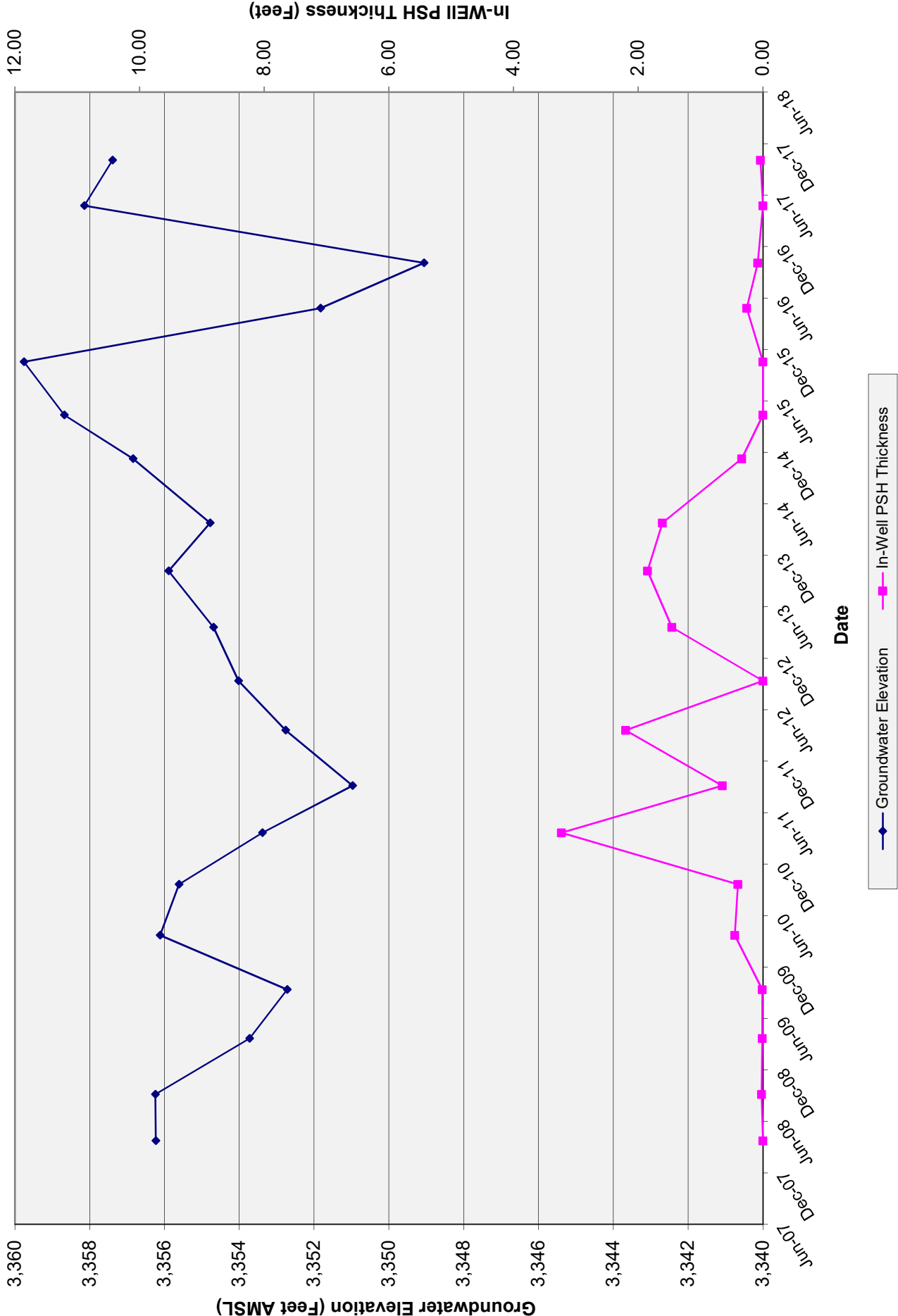
HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area



RW-8: Groundwater Elevations and In-Well PSH Thicknesses

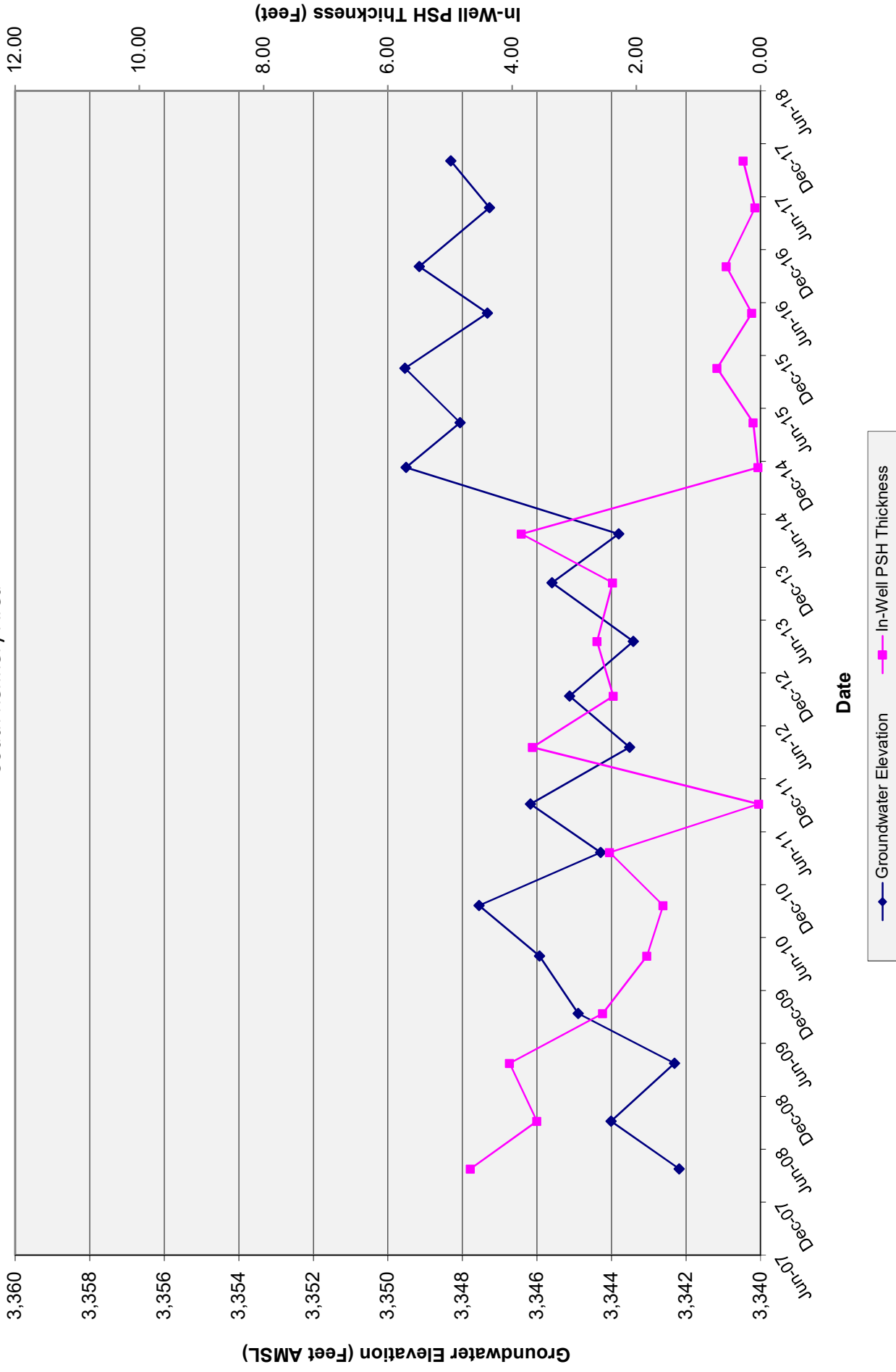
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



KWB-4: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

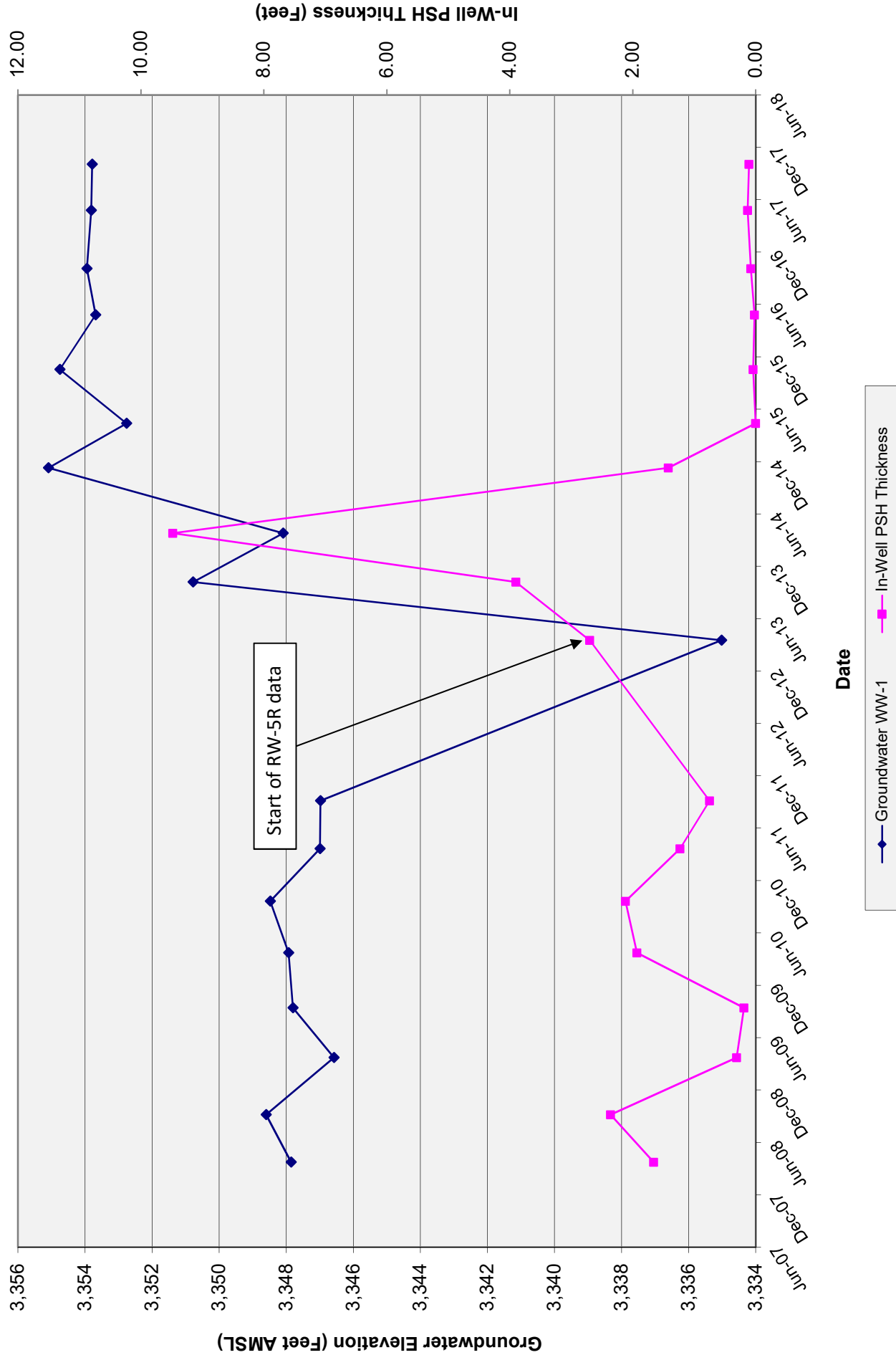
South Refinery Area



RW-5 & RW-5R: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

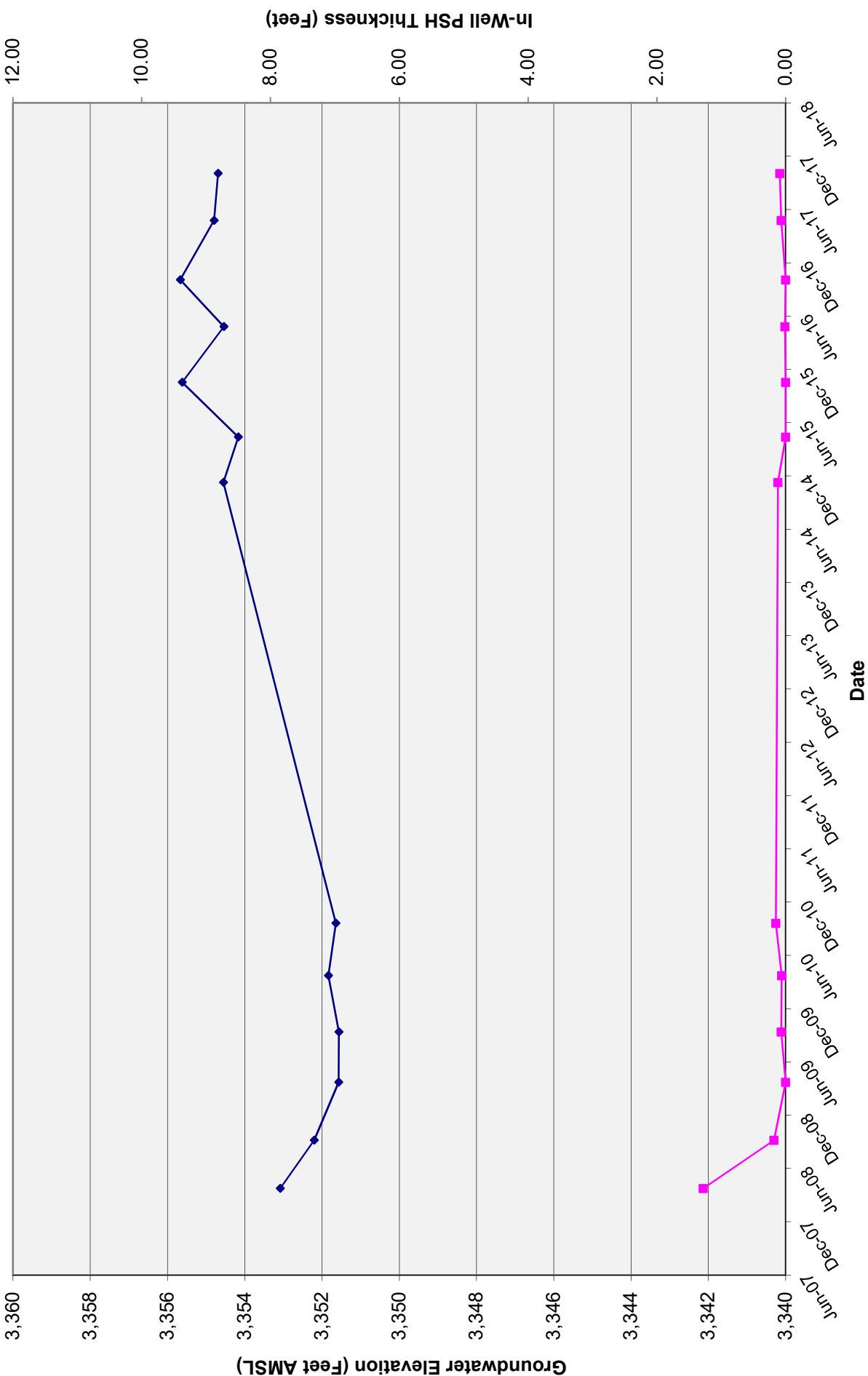
South Refinery Area



RW-6: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

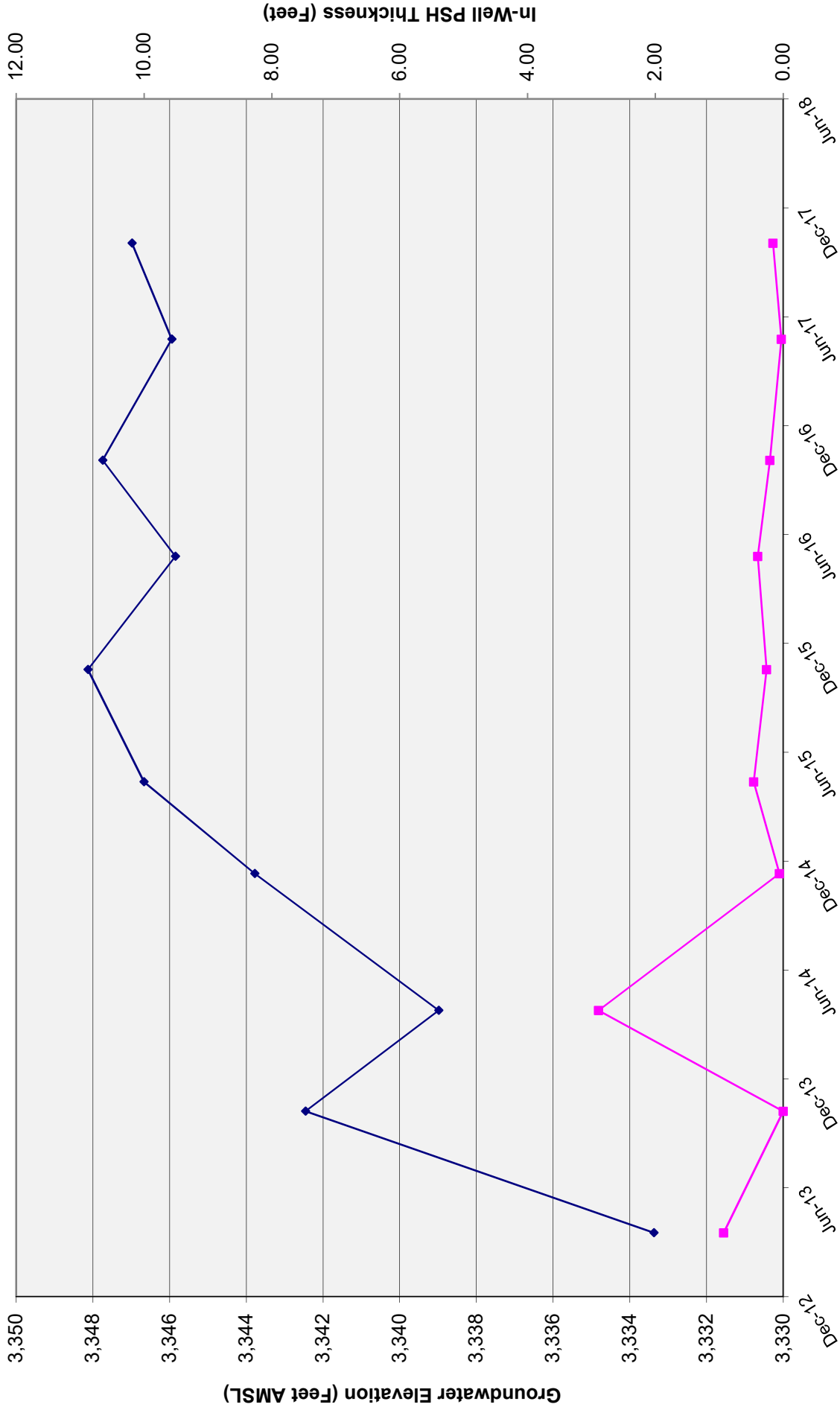
South Refinery Area



RW-19: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

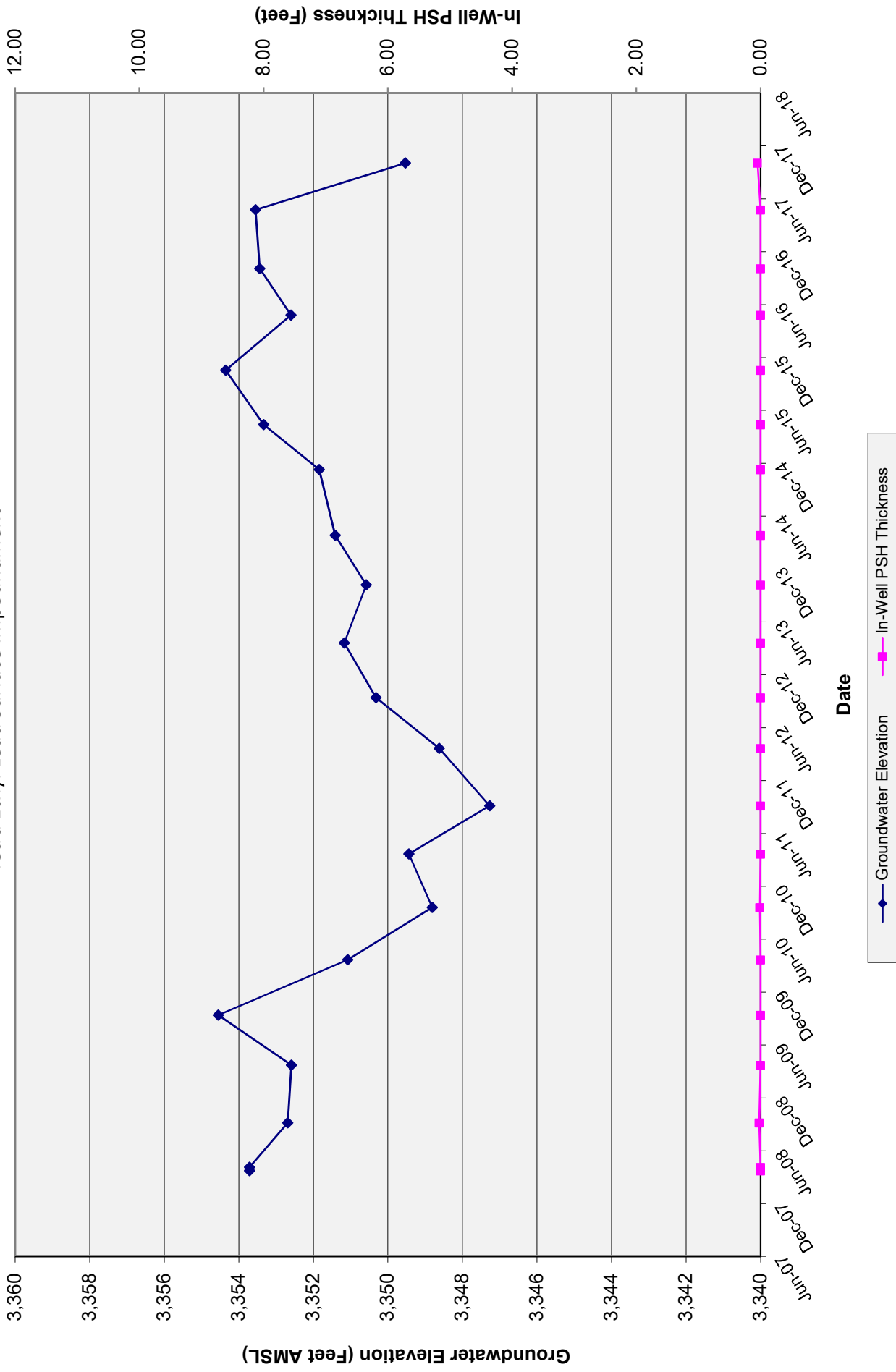
South Refinery Area



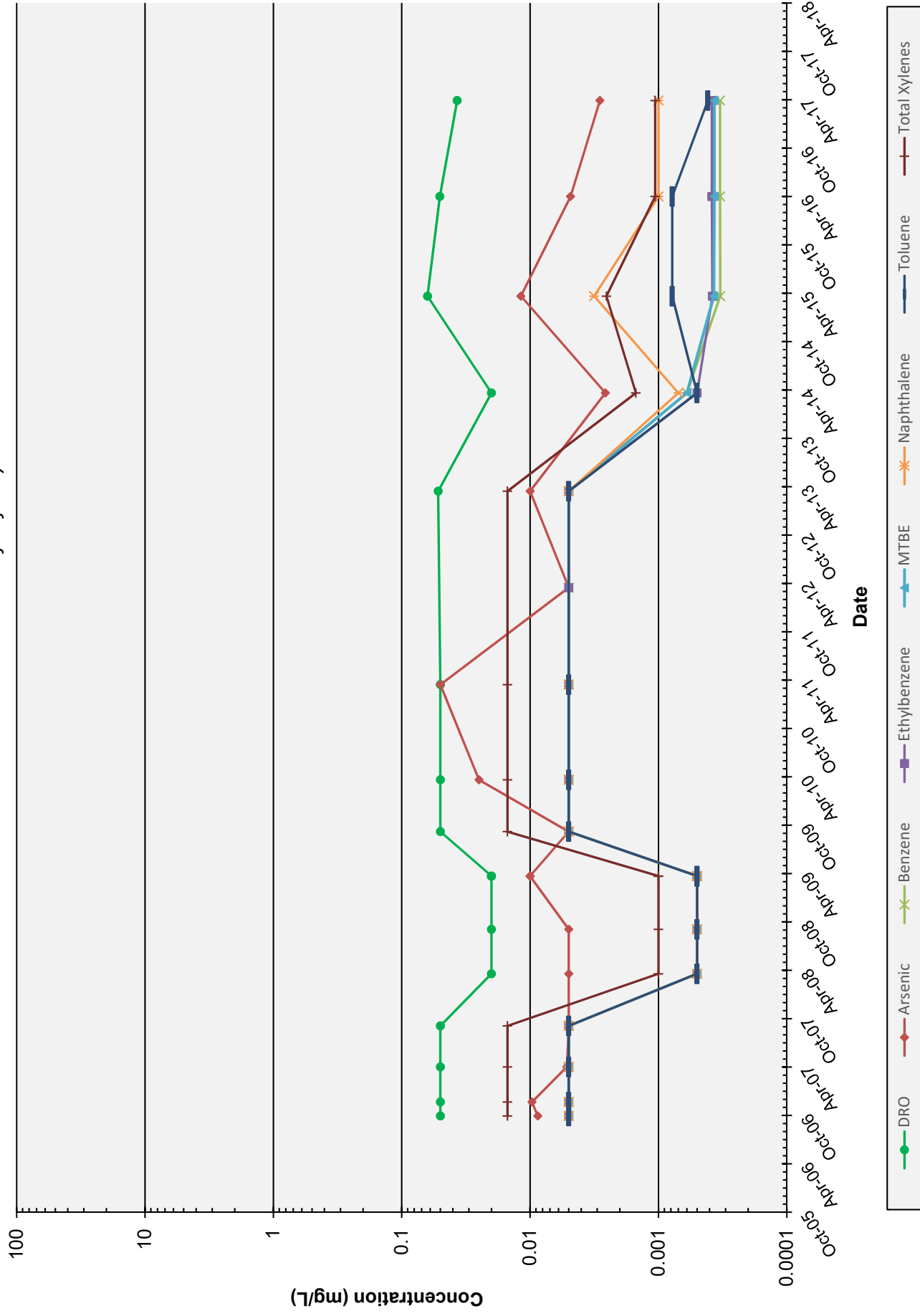
TEL-3: Groundwater Elevations and In-Well PSH Thicknesses

HollyFrontier Navajo Refining LLC - Artesia Refinery

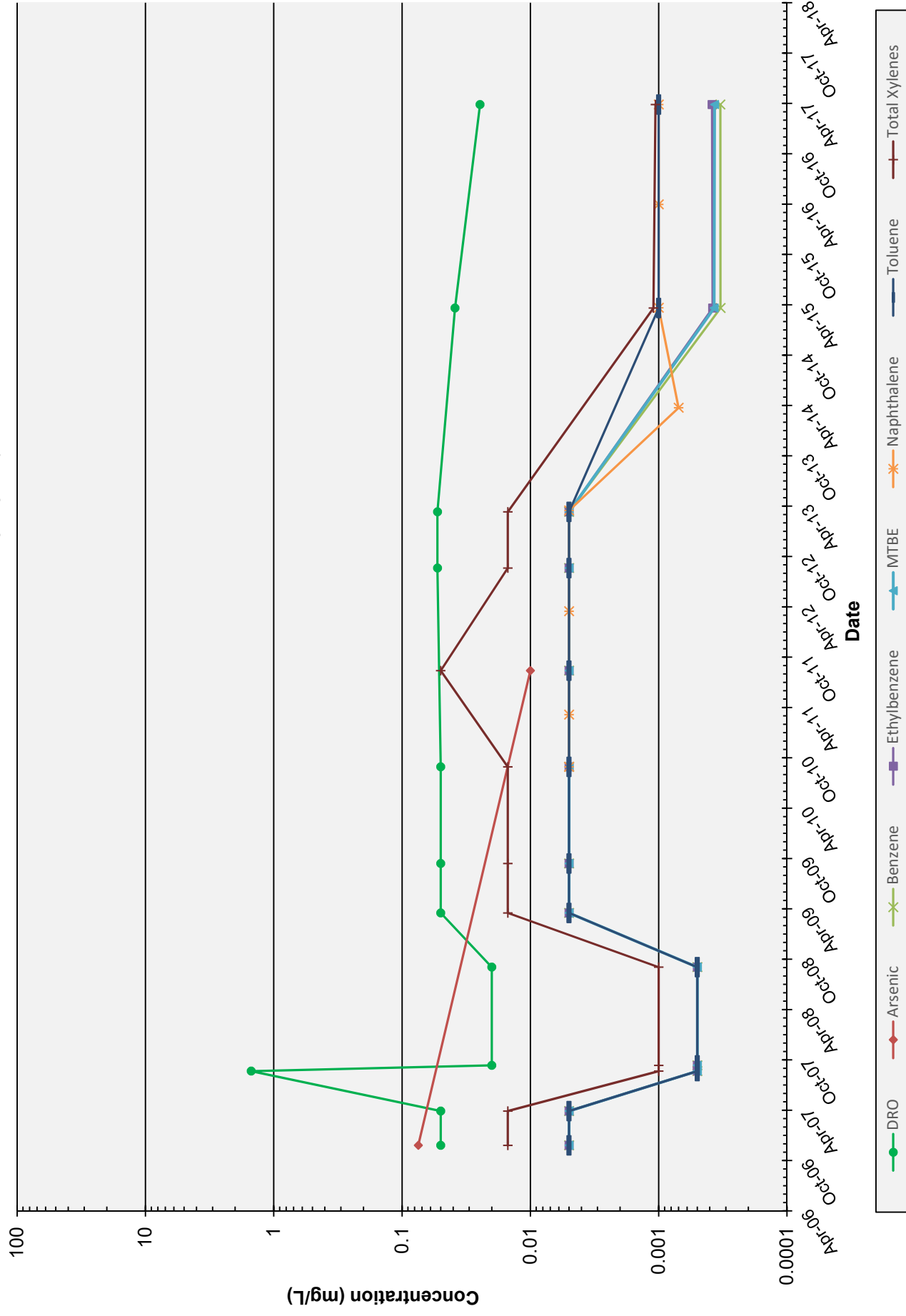
Tetra Ethyl Lead Surface Impoundment



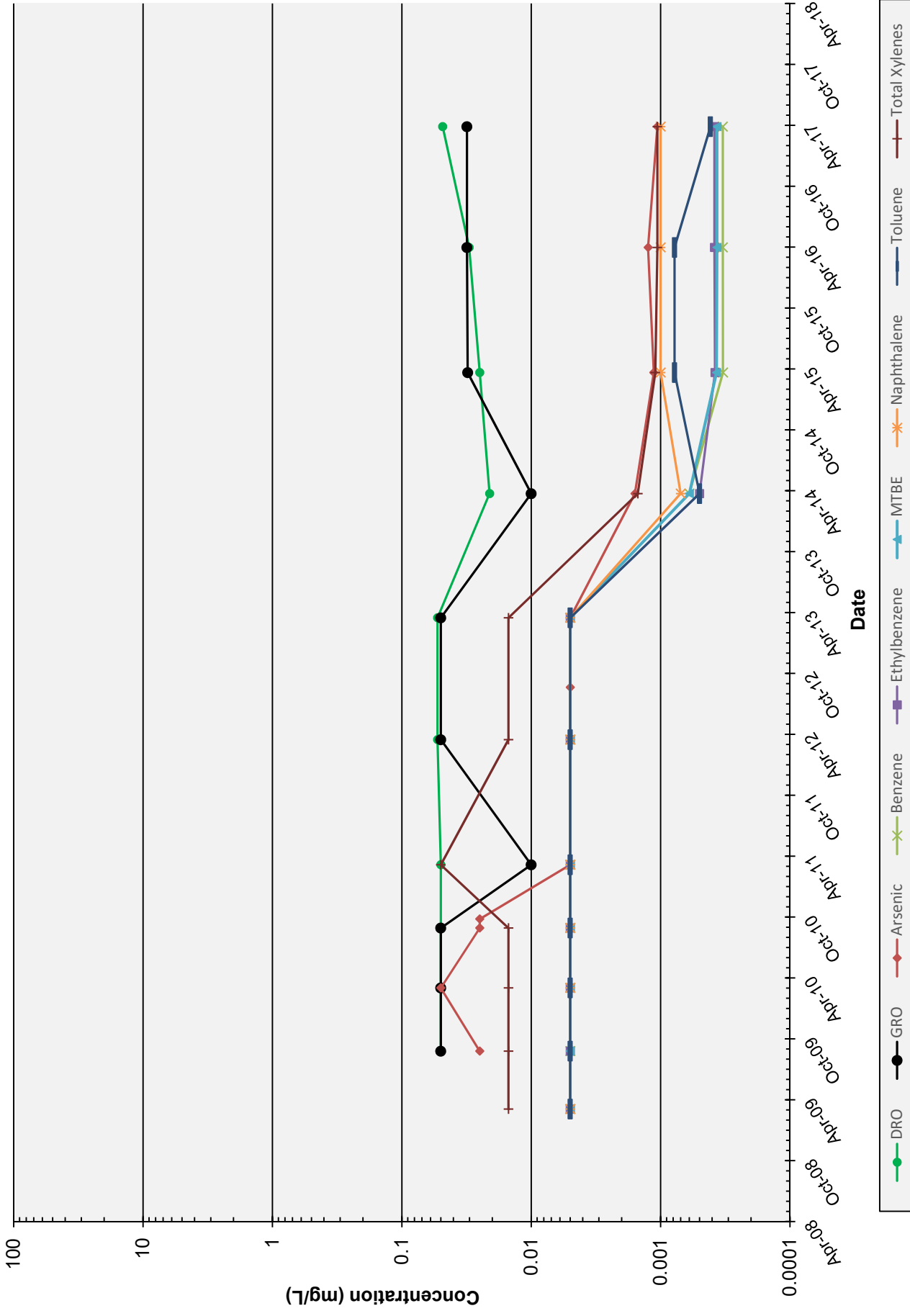
KWB-13: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
Cross-Gradient of Refinery



HollyFrontier Navajo Refining LLC - Artesia Refinery
Cross-Gradient of Refinery

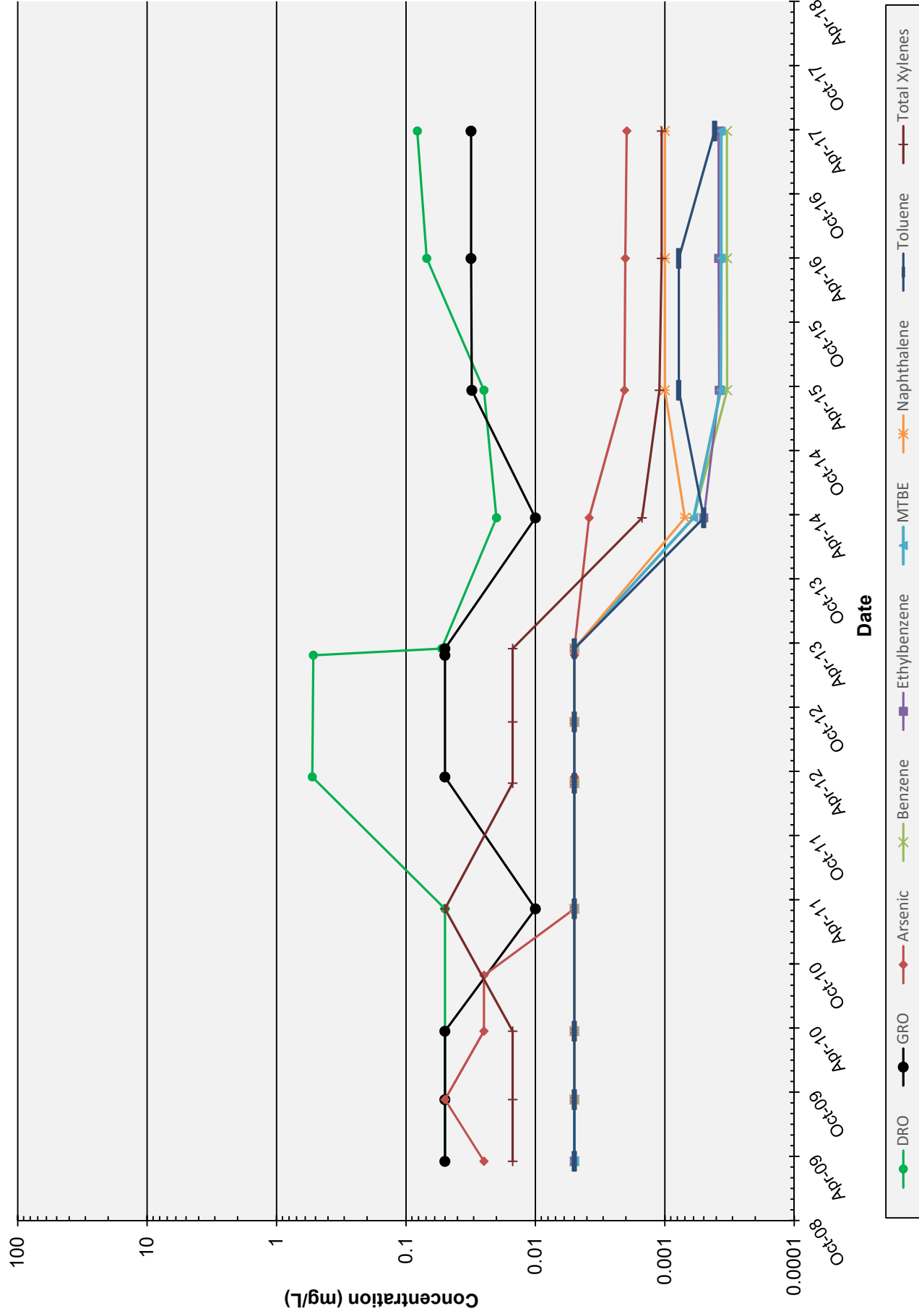


HollyFrontier Navajo Refining LLC - Artesia Refinery
Up-Gradient of Refinery

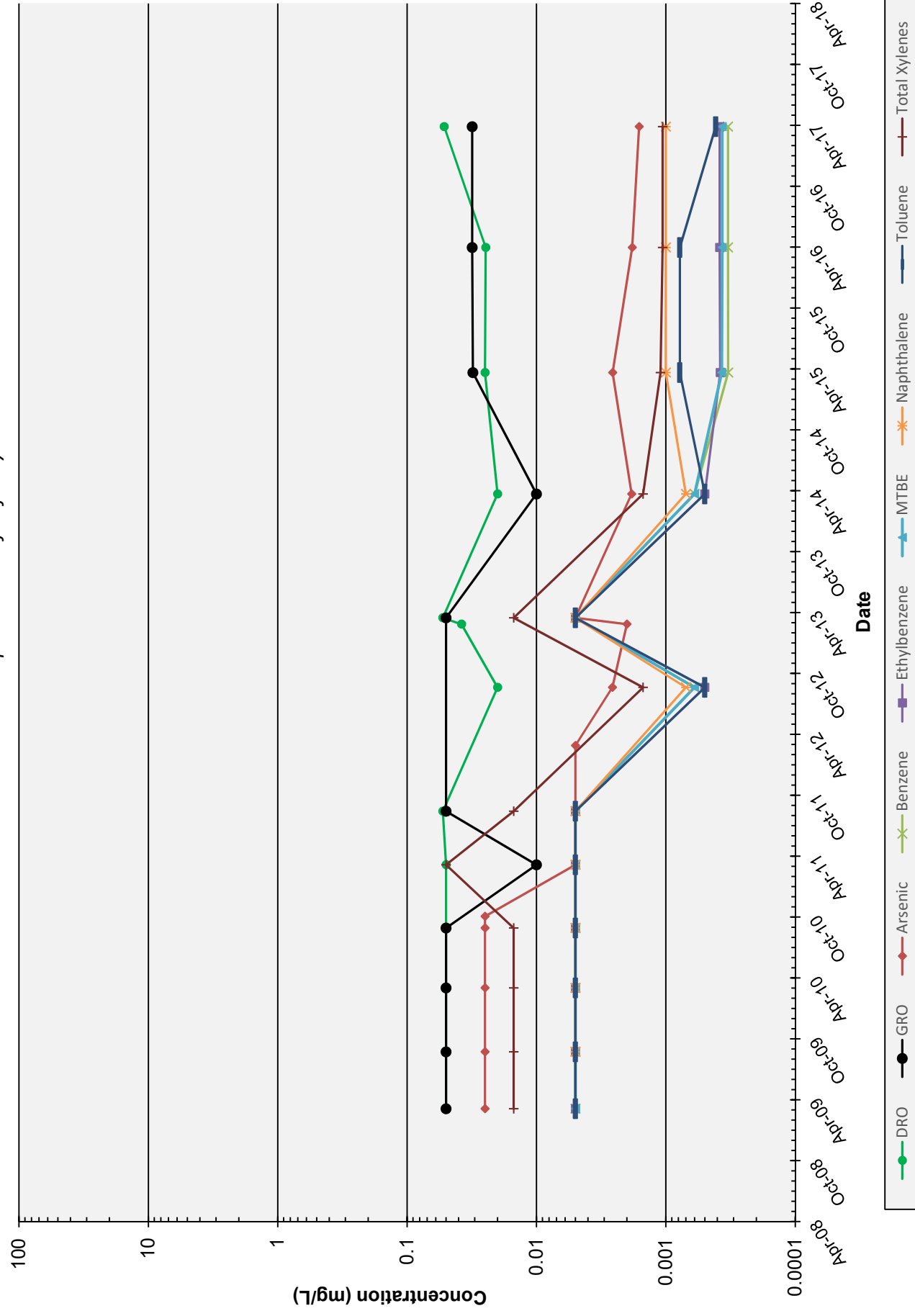


UG-2: COC Concentrations

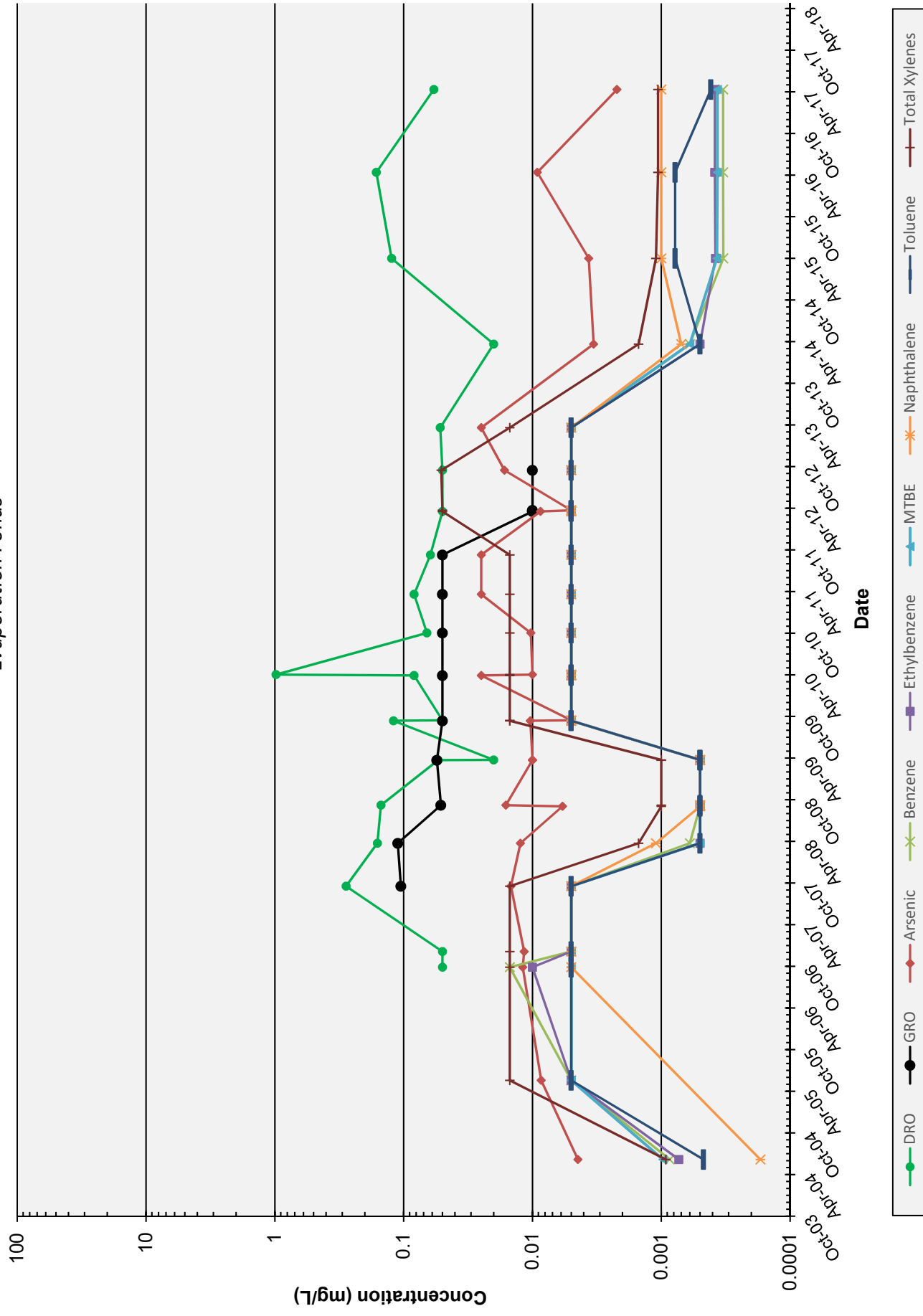
HollyFrontier Navajo Refining LLC - Artesia Refinery
Up-Gradient of Refinery



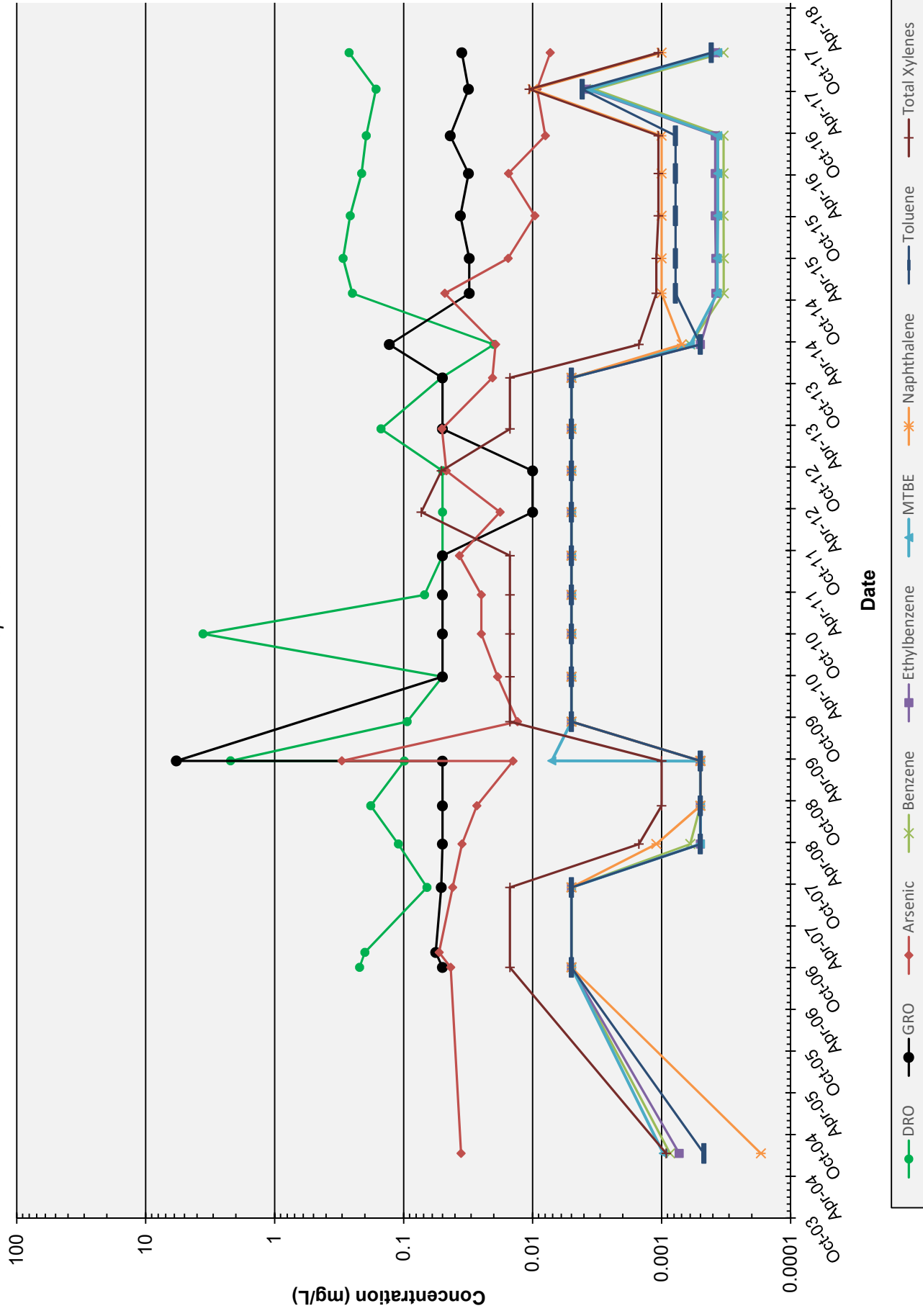
HollyFrontier Navajo Refining LLC - Artesia Refinery
Up-Gradient of Refinery



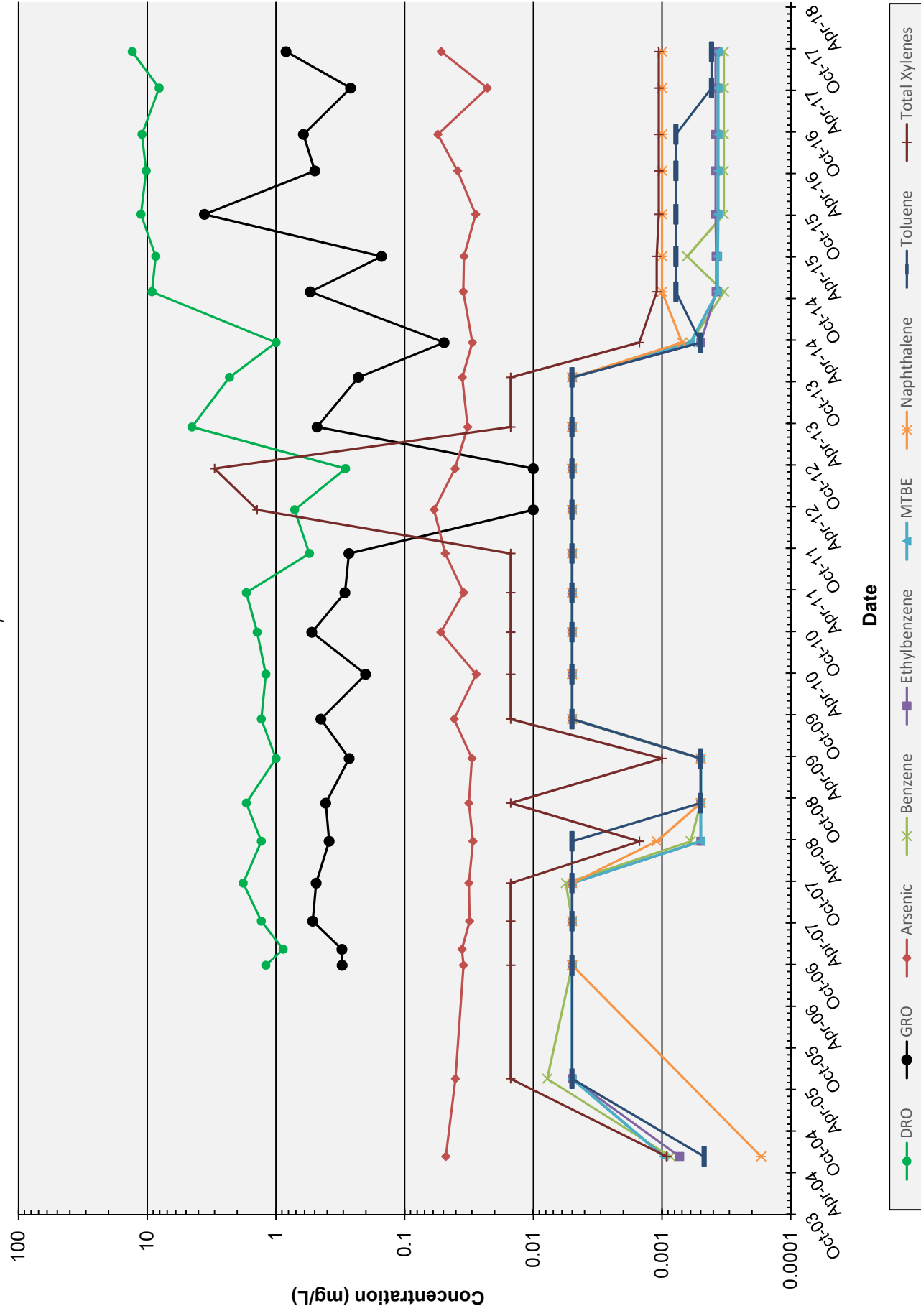
Evaporation Ponds



HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



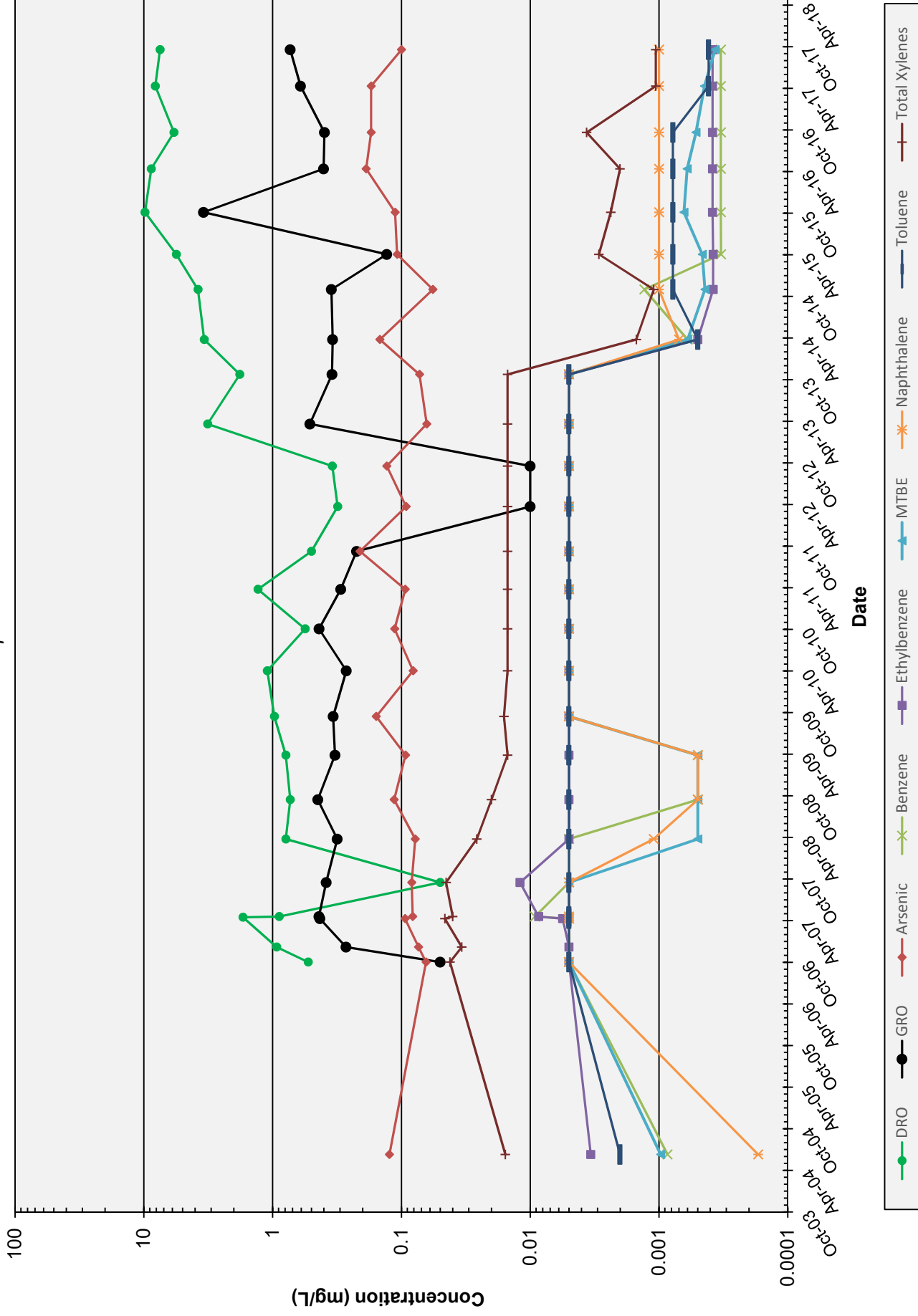
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



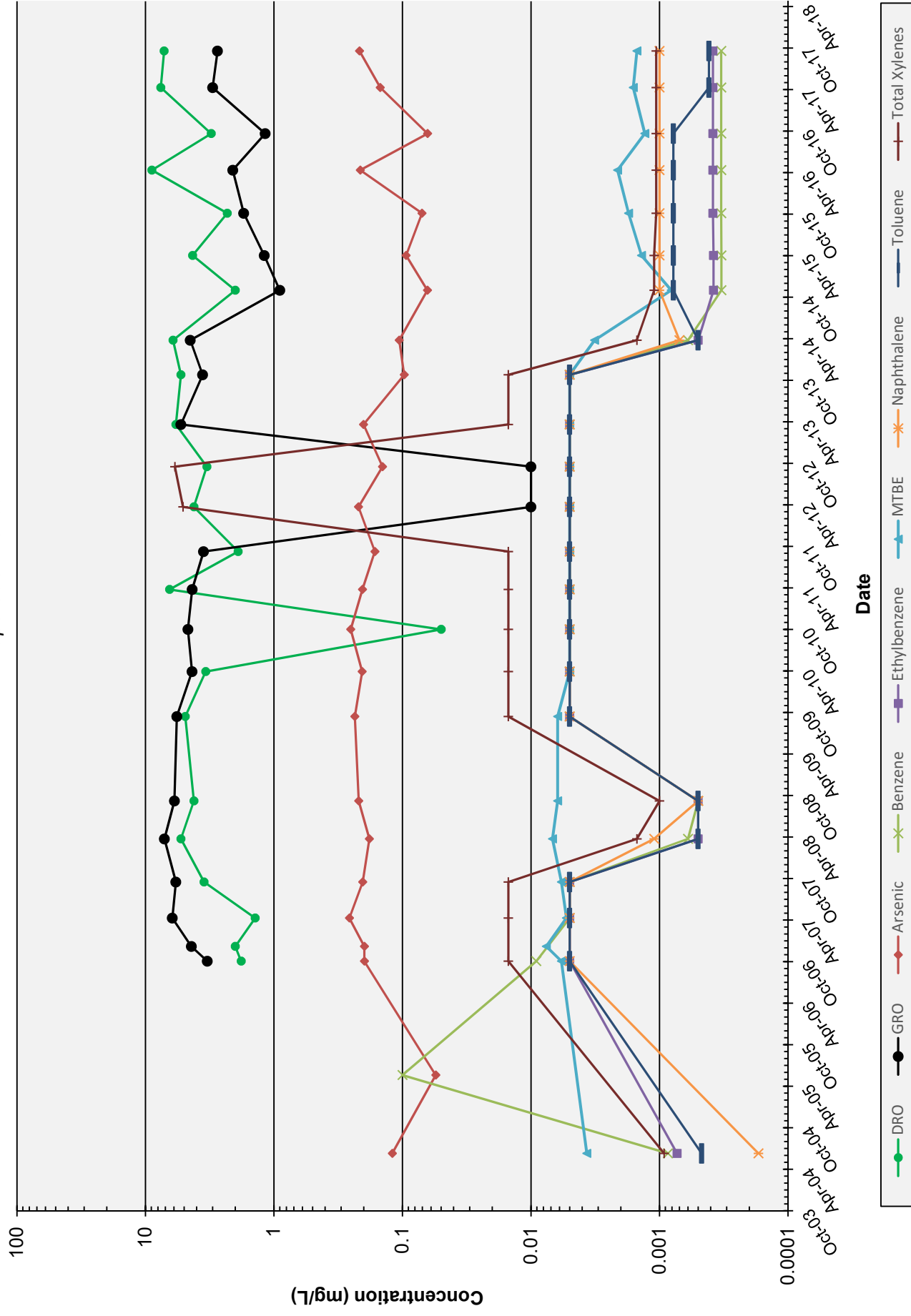
MW-4A: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery

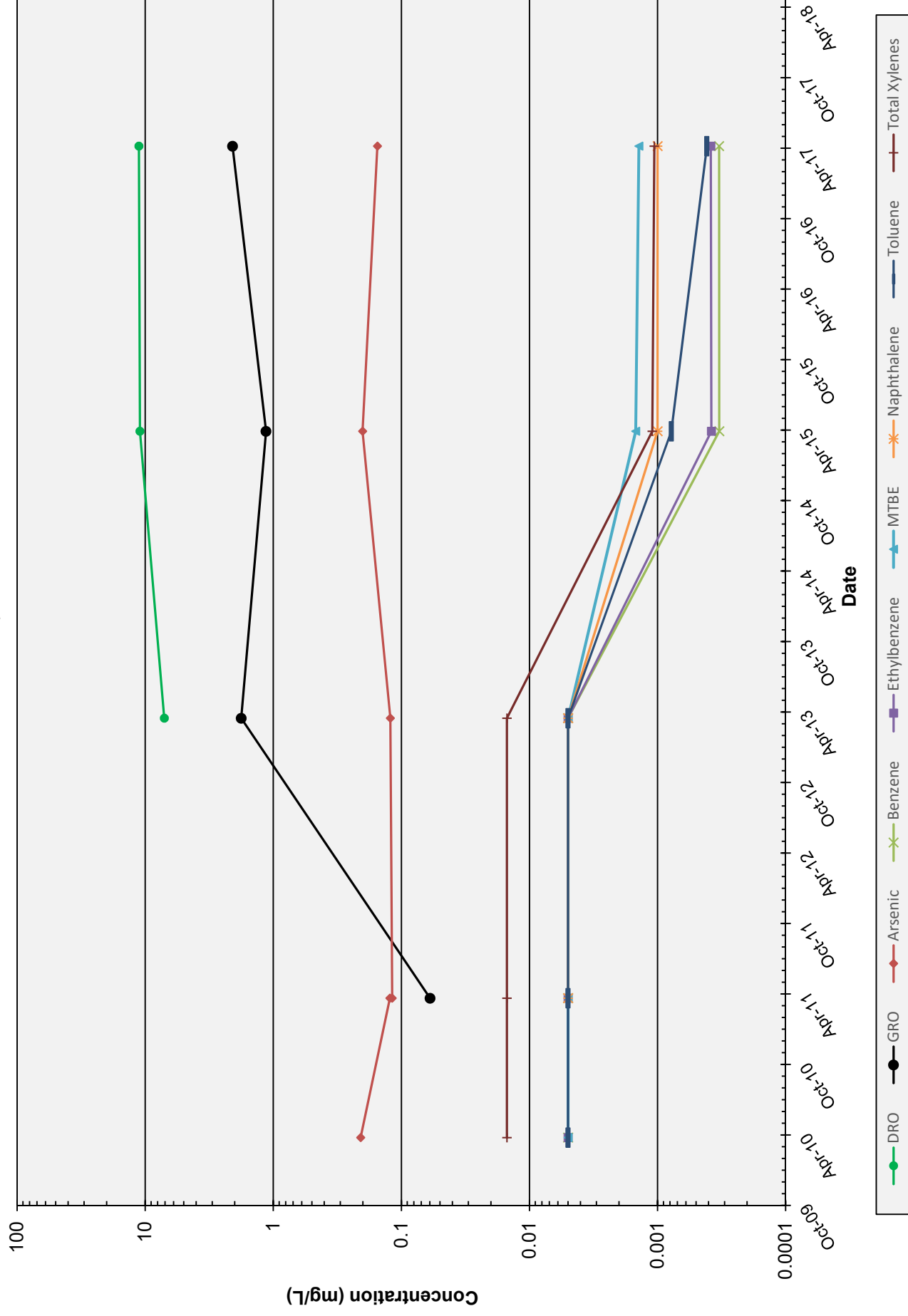
Evaporation Ponds



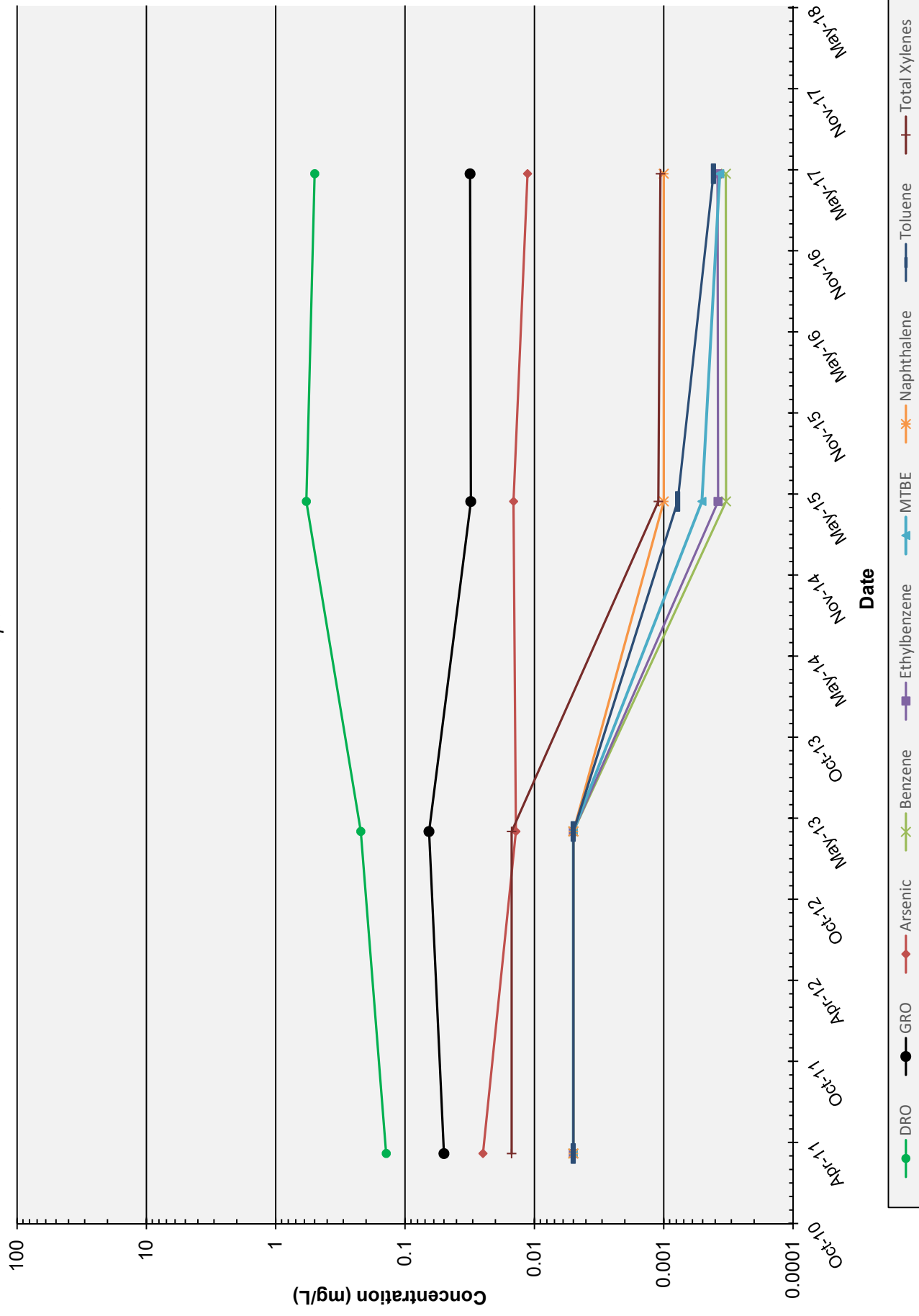
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds

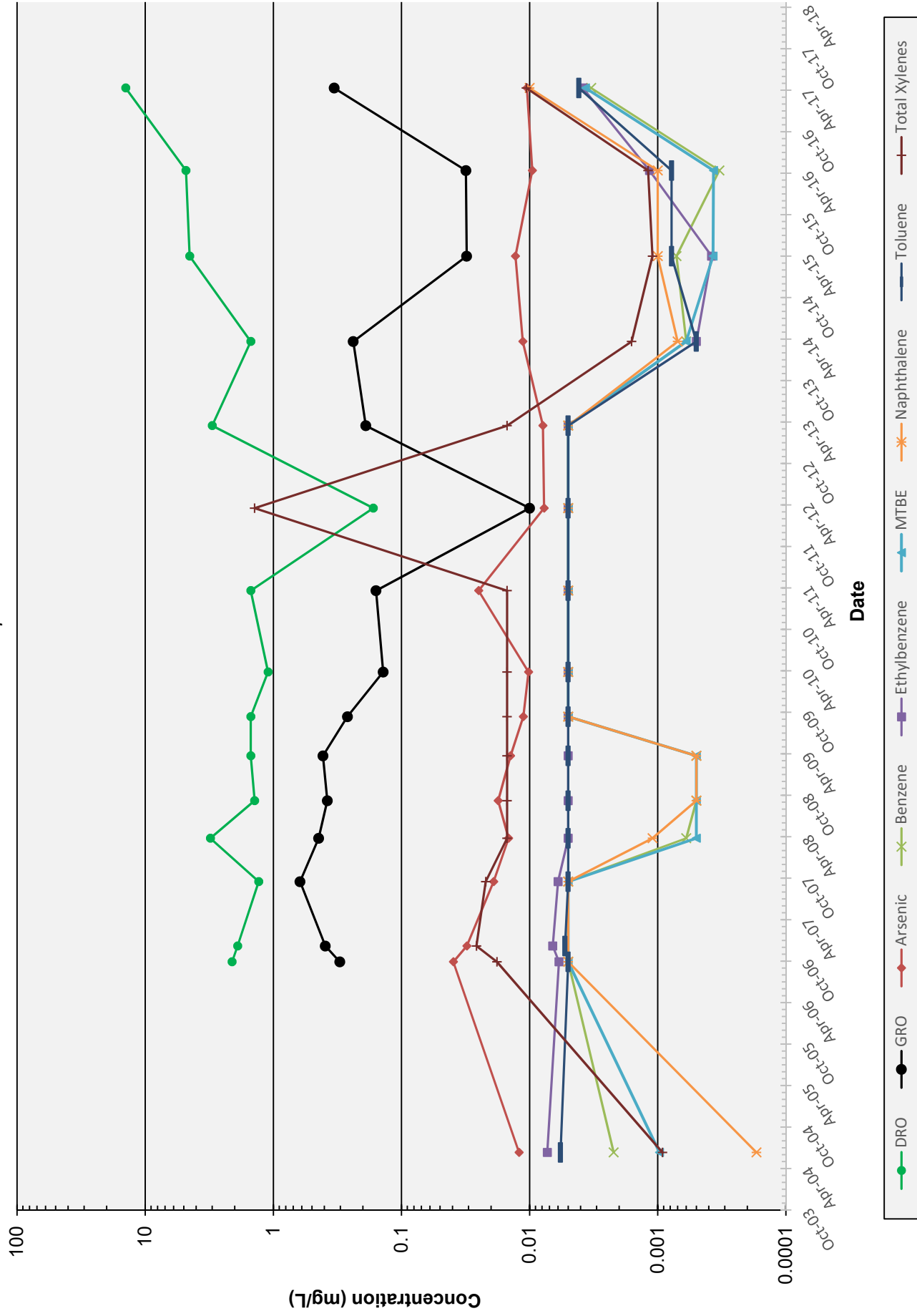


Evaporation Ponds

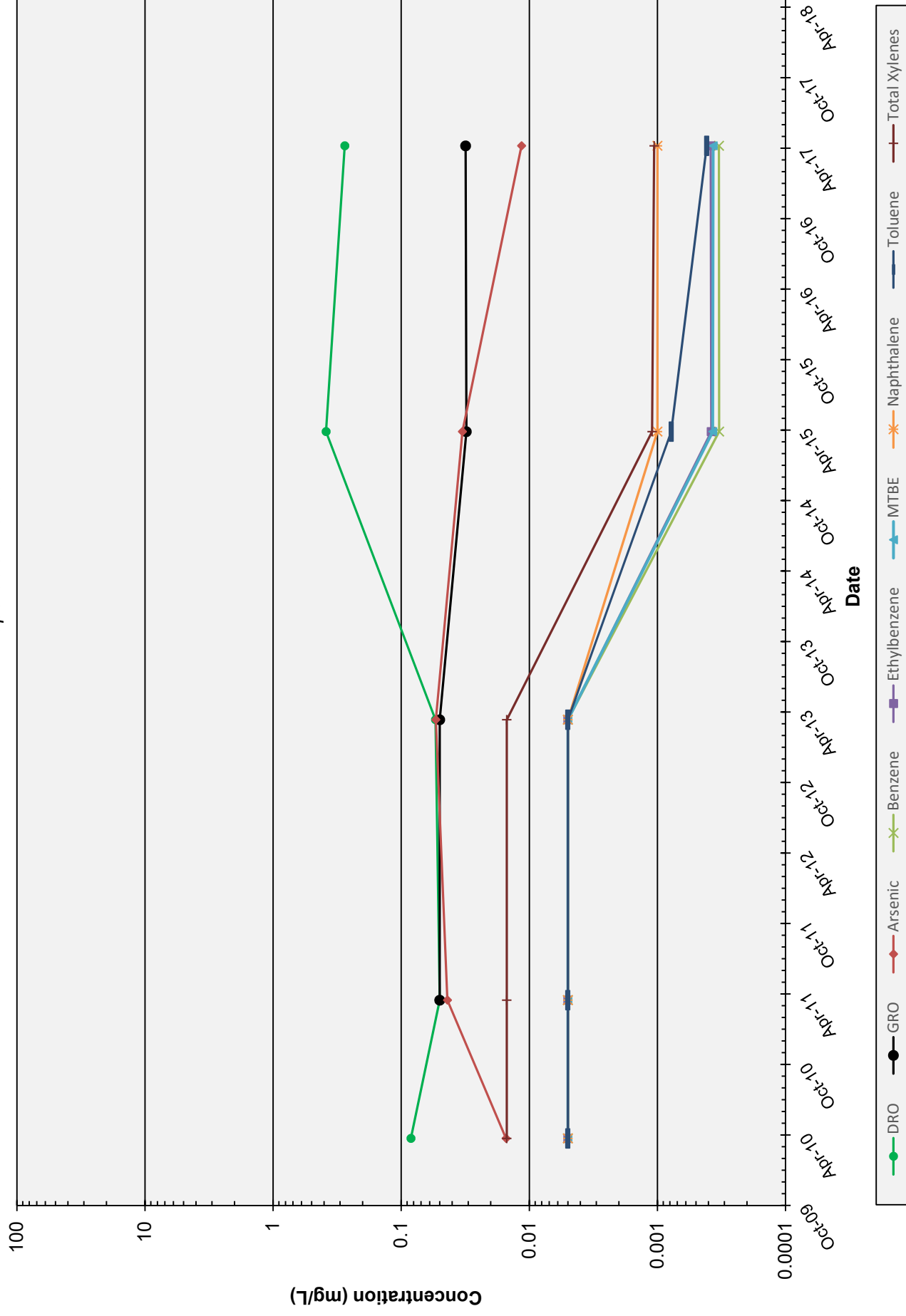


MW-6A: COC Concentrations

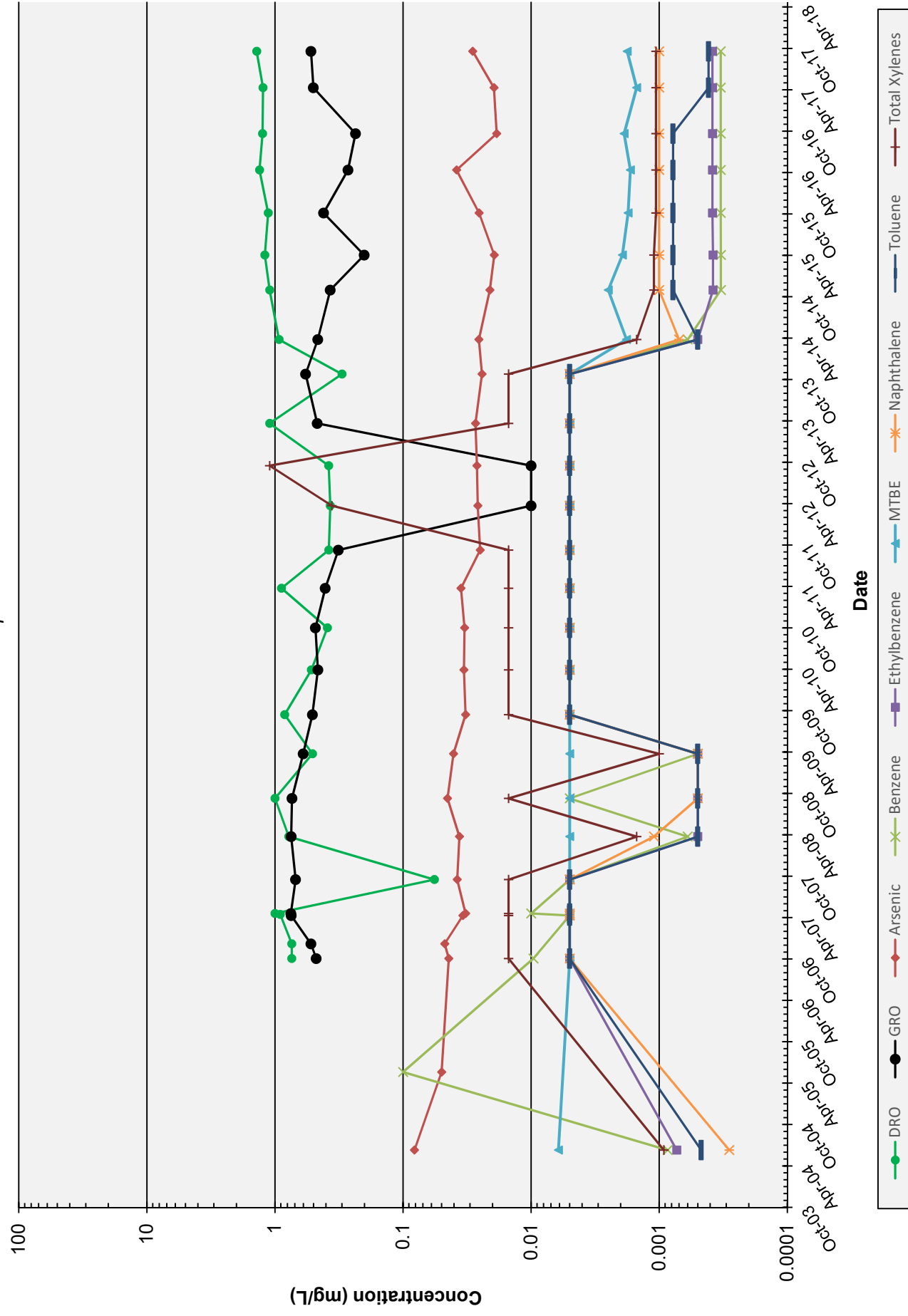
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



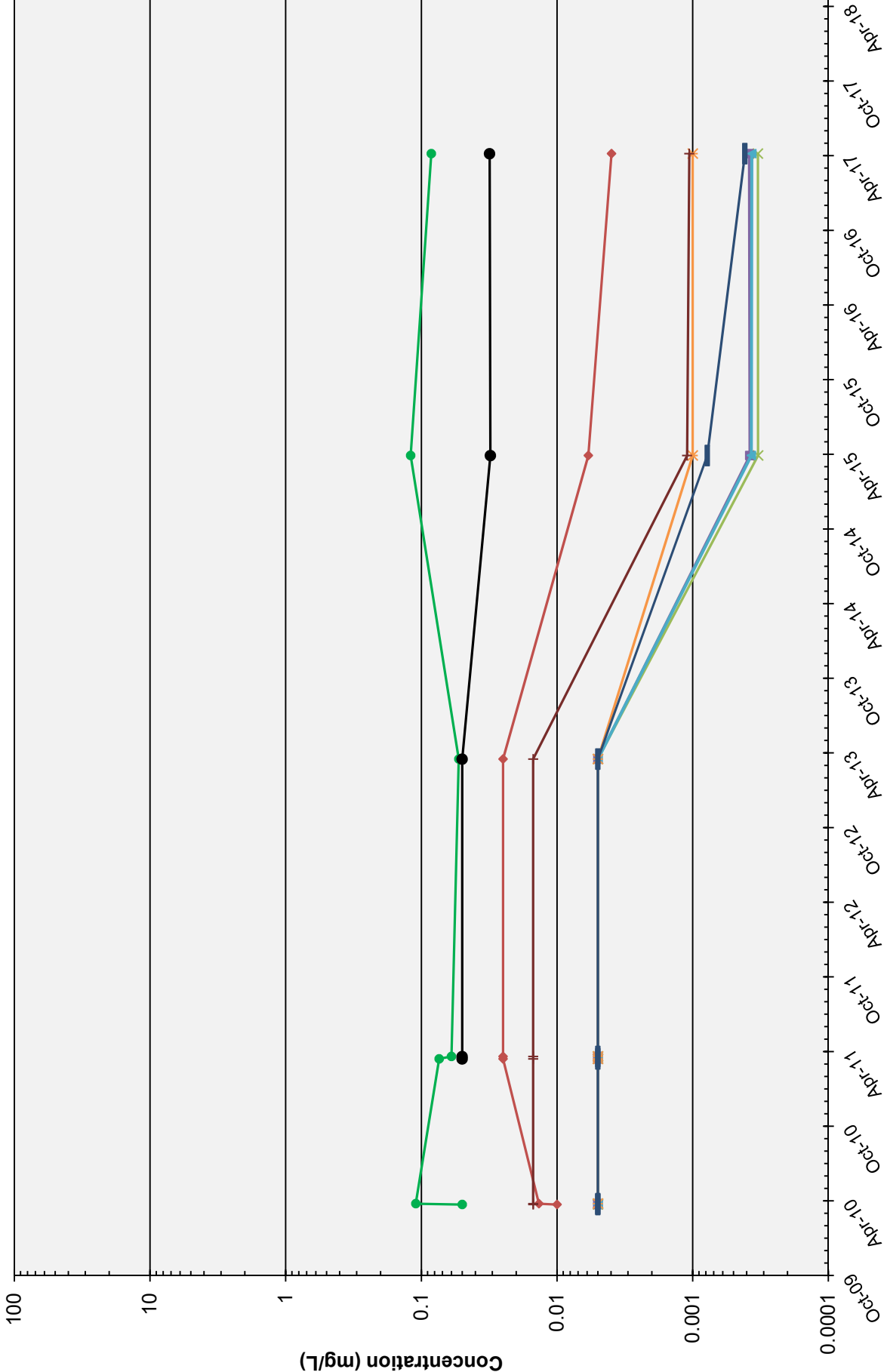
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



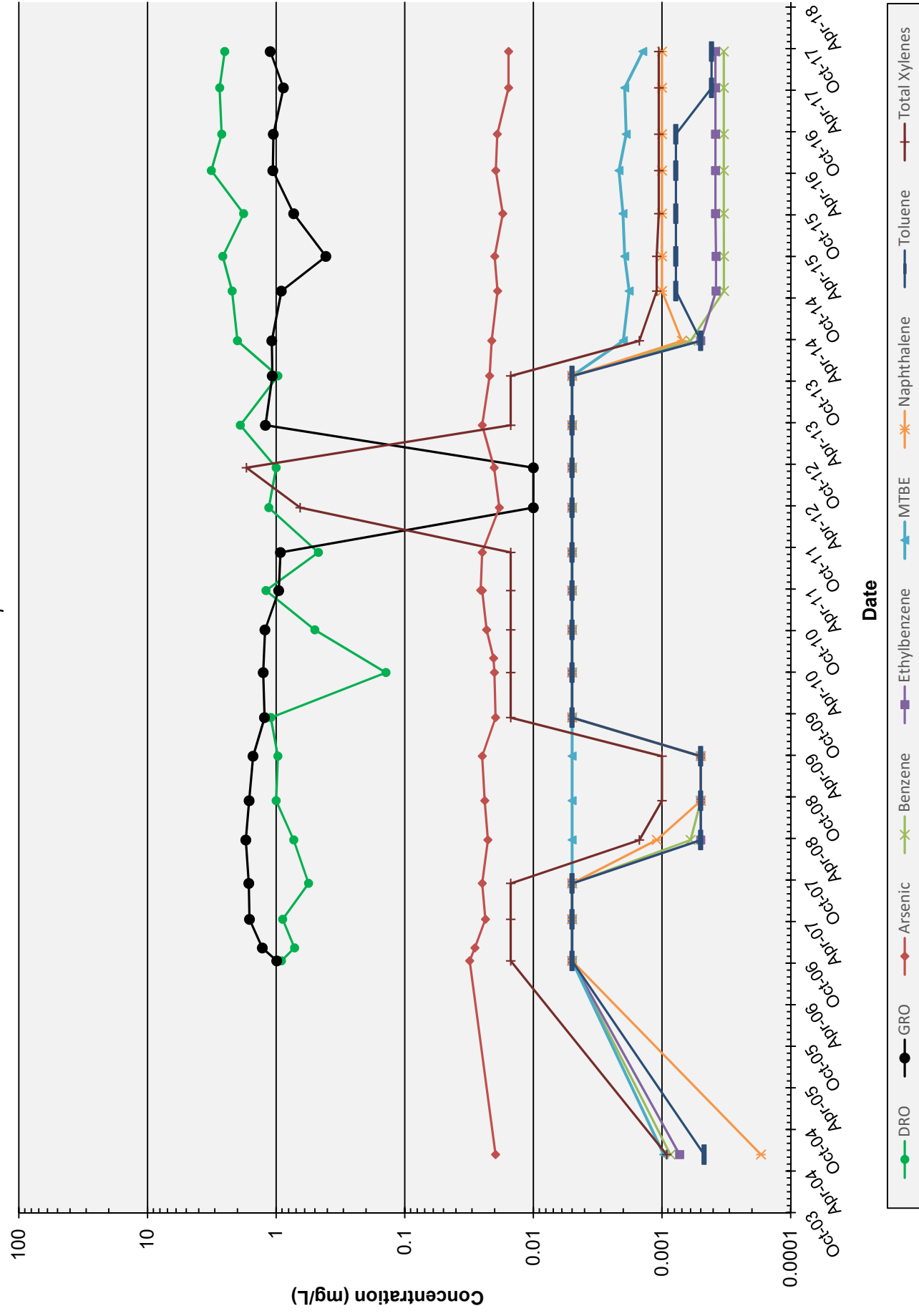
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



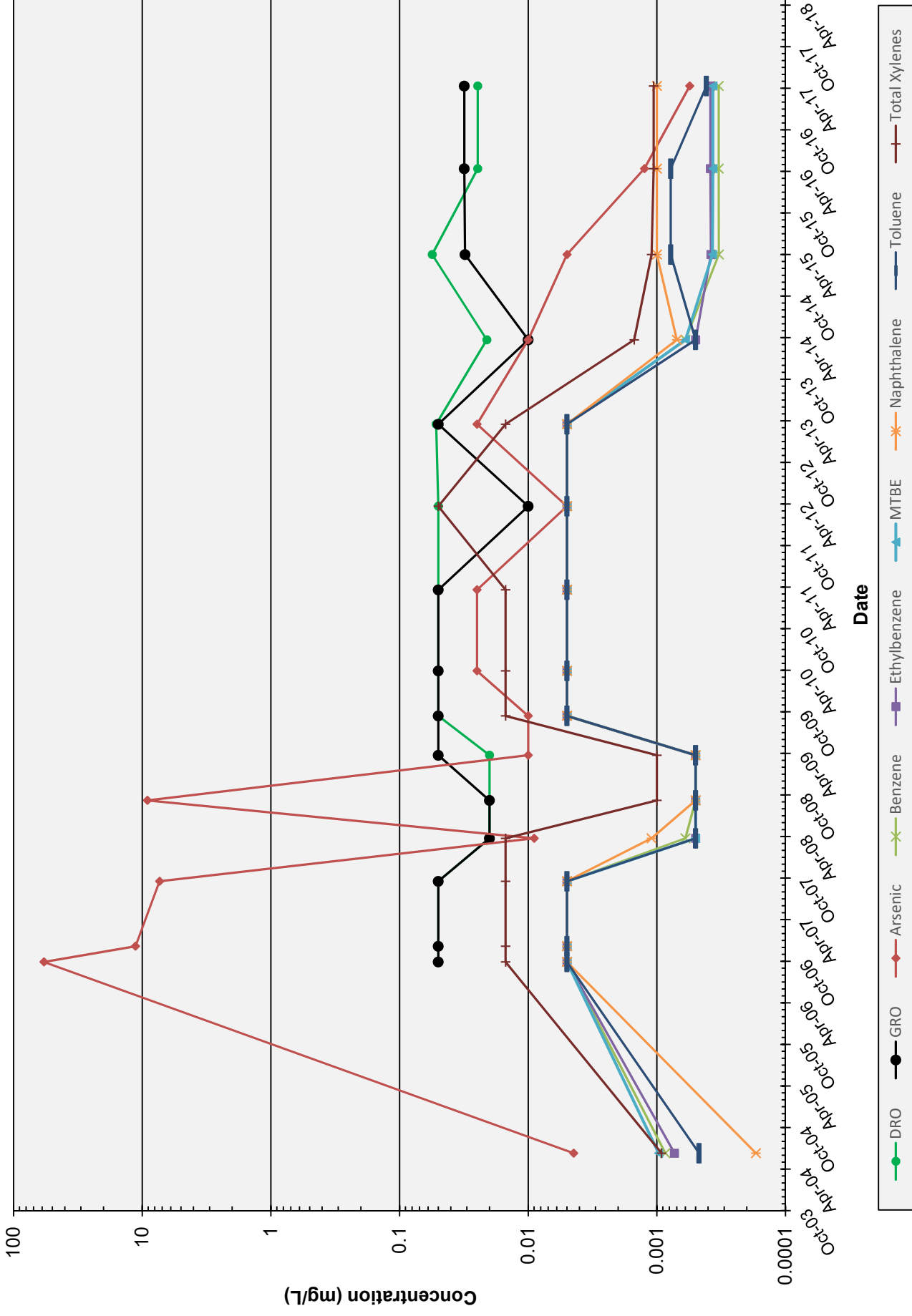
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



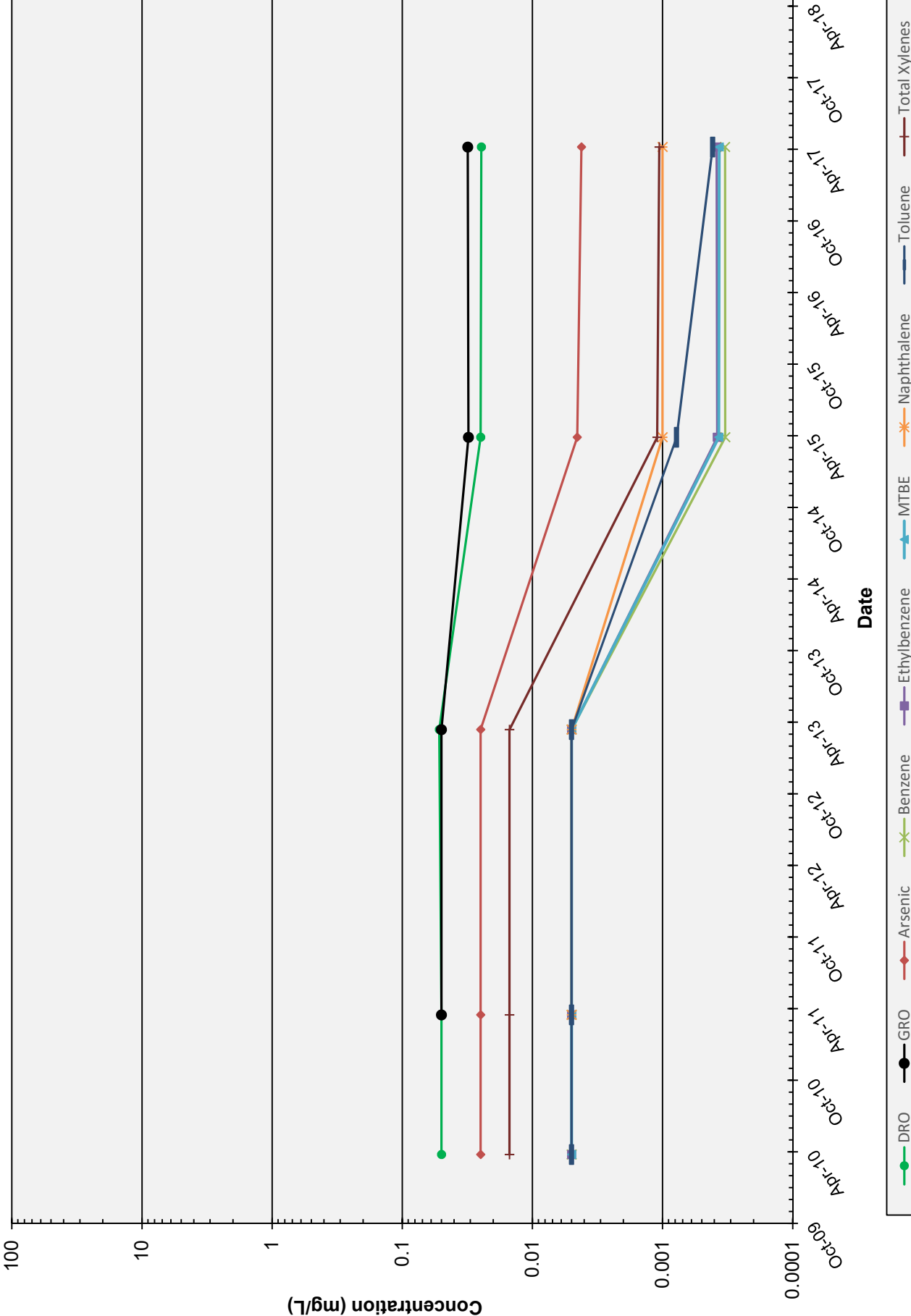
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



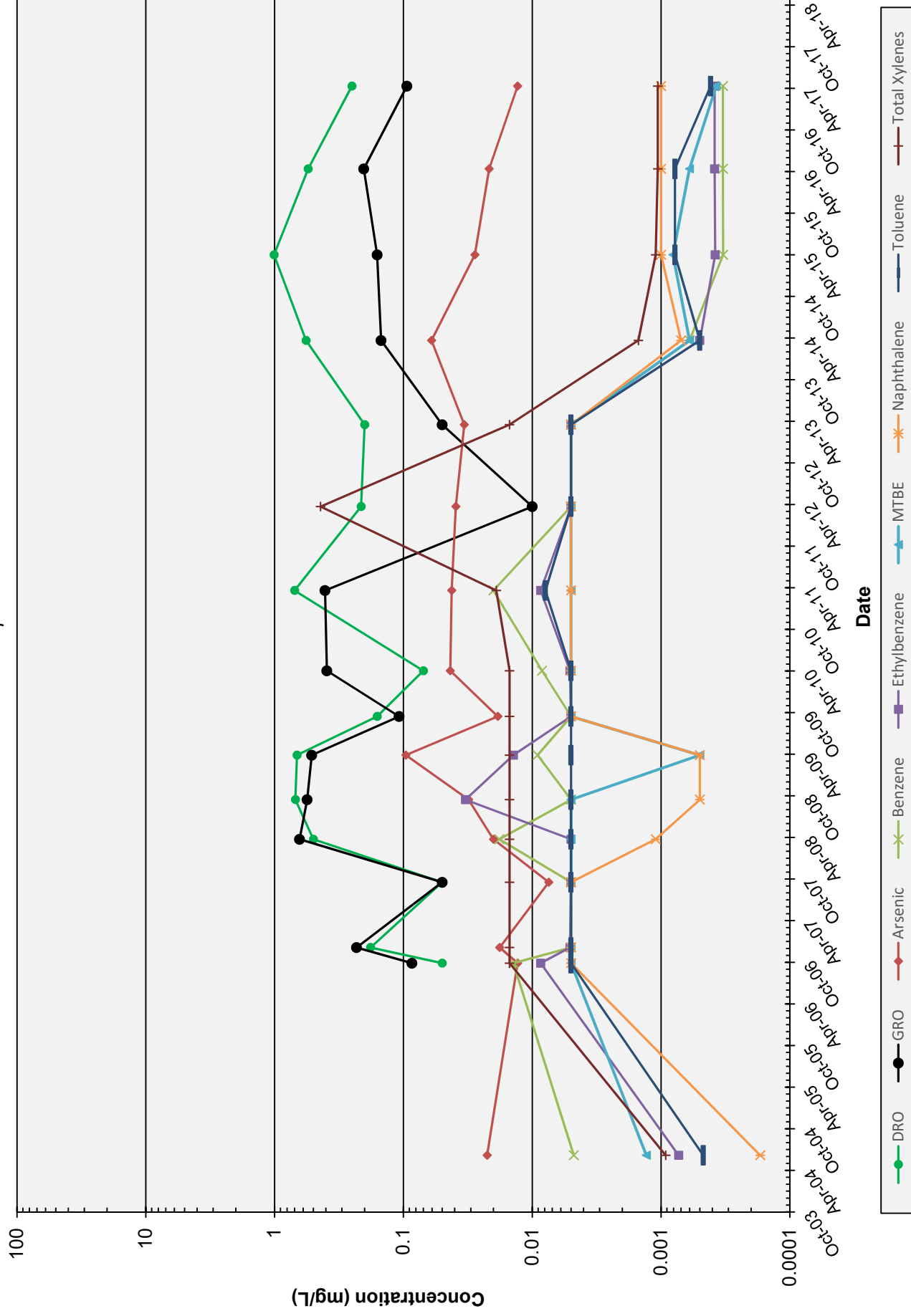
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



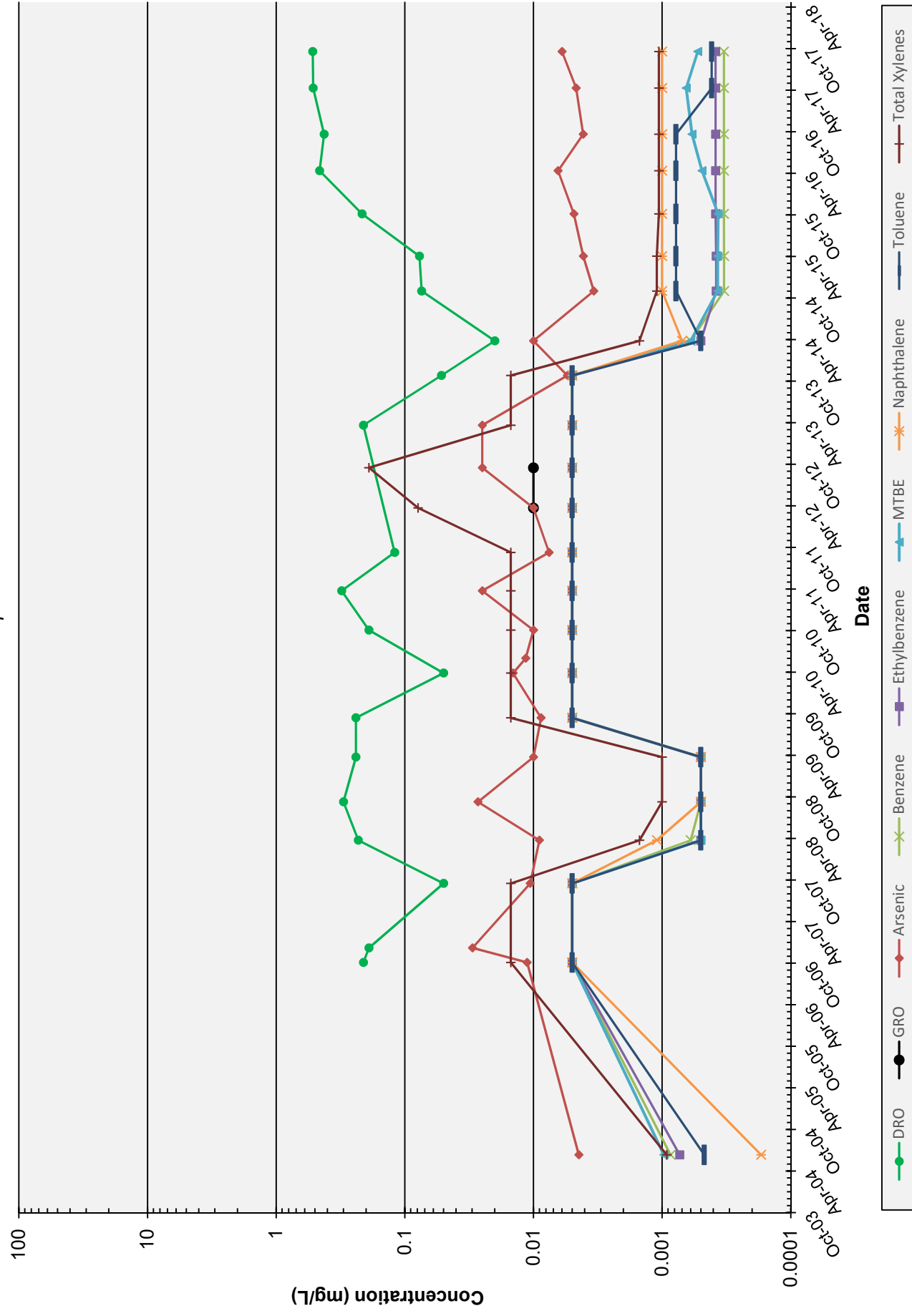
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



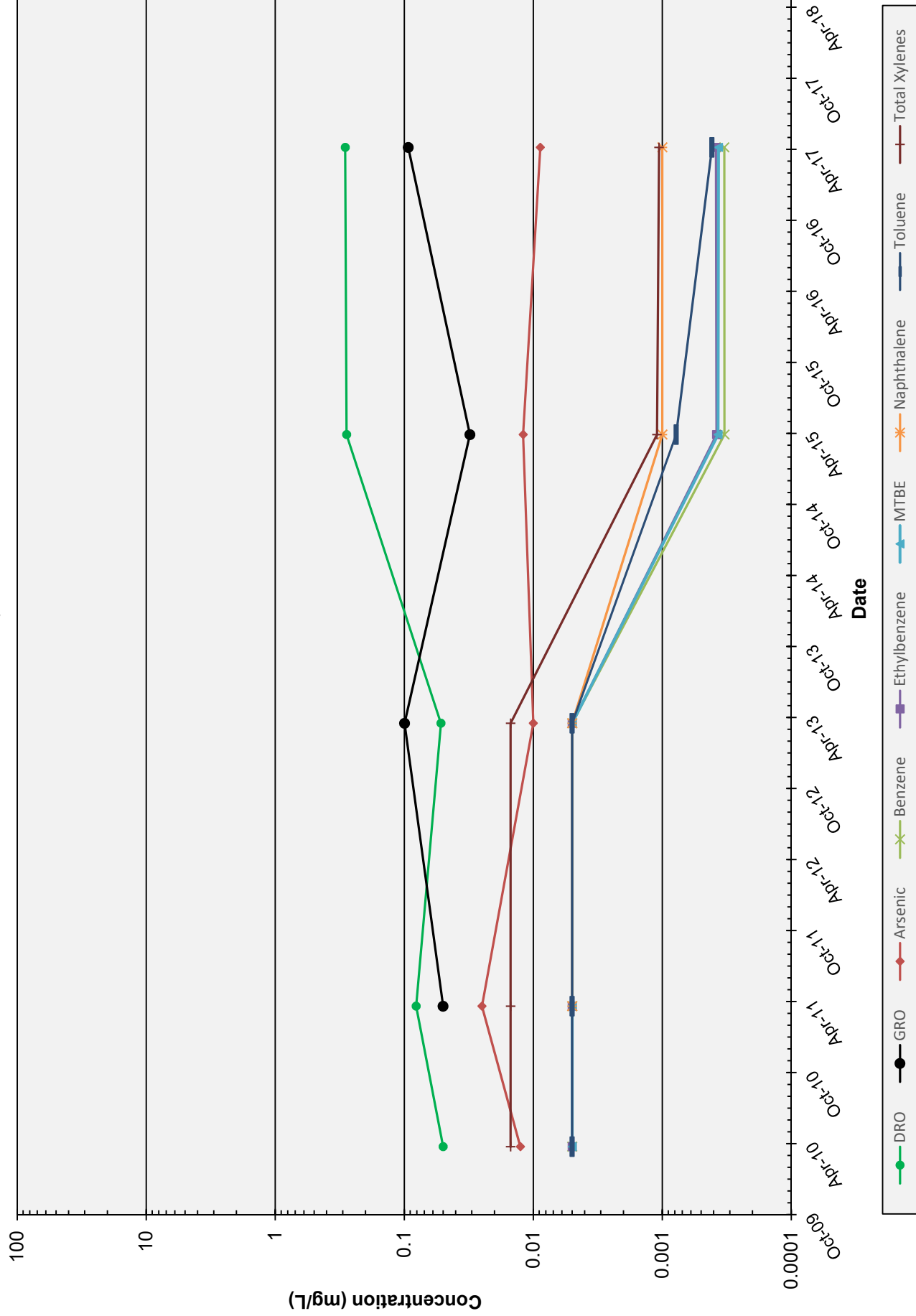
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



MW-18B: COC Concentrations

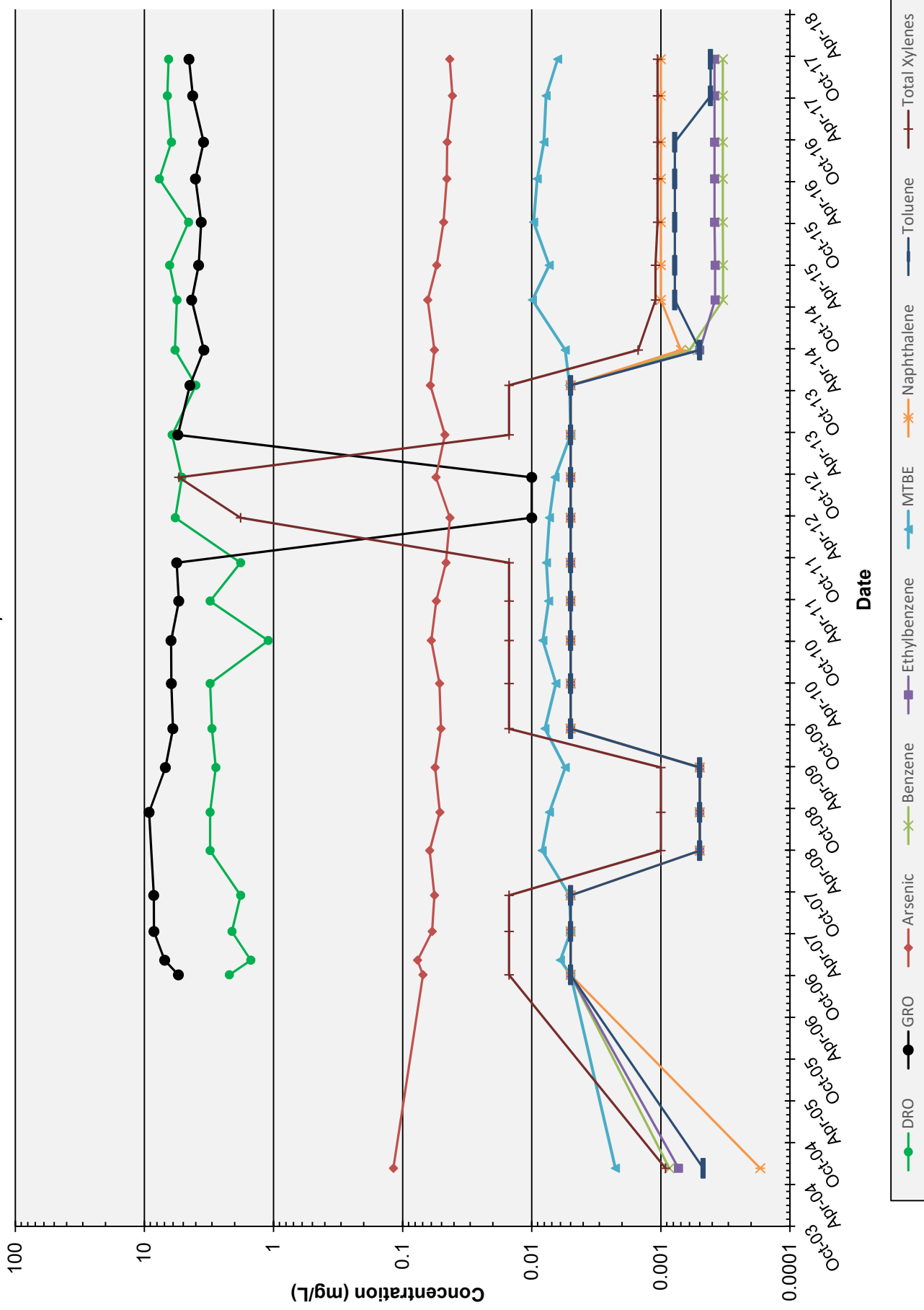
HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds



MW-22A: COC Concentrations

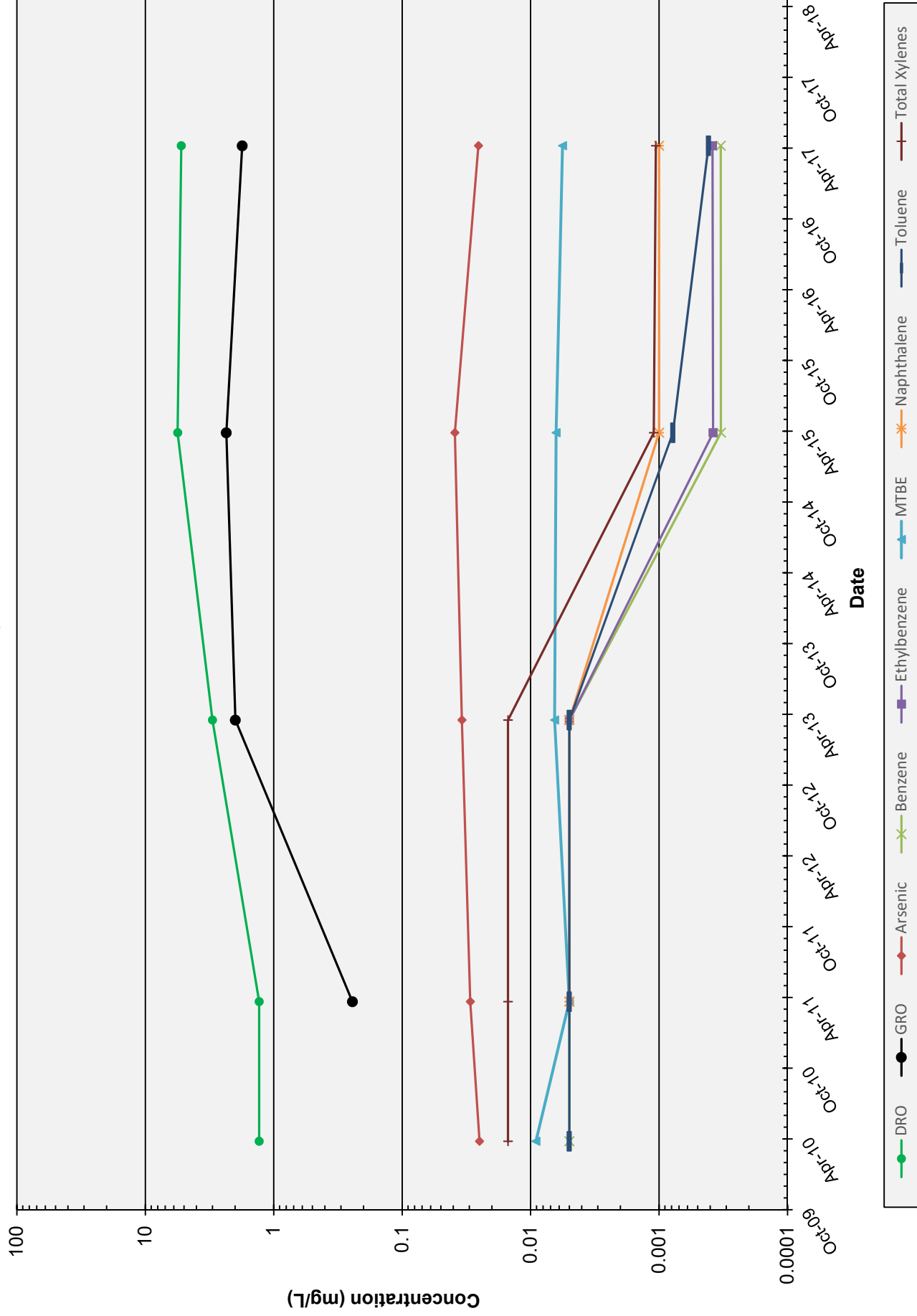
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



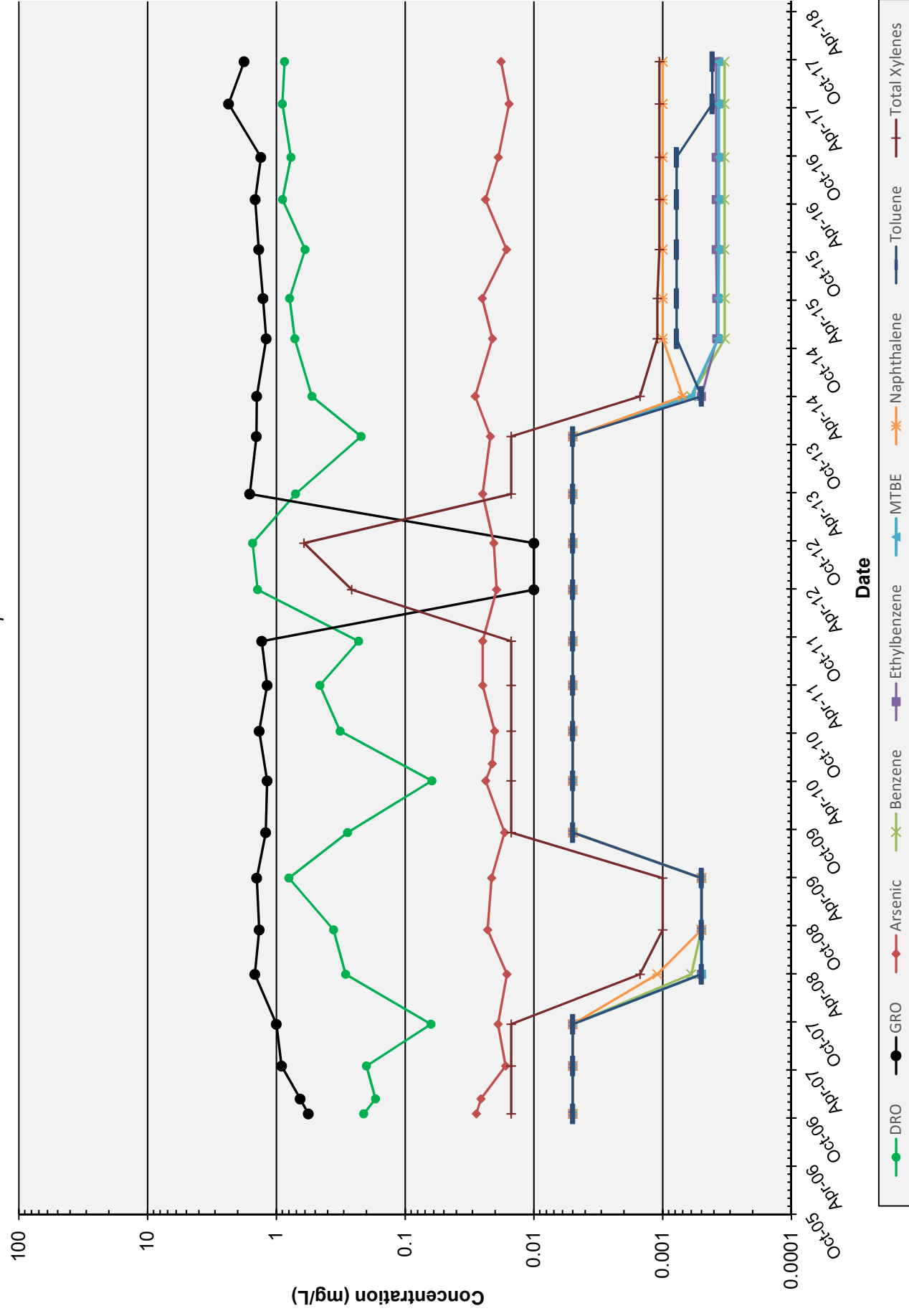
MW-22B: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery

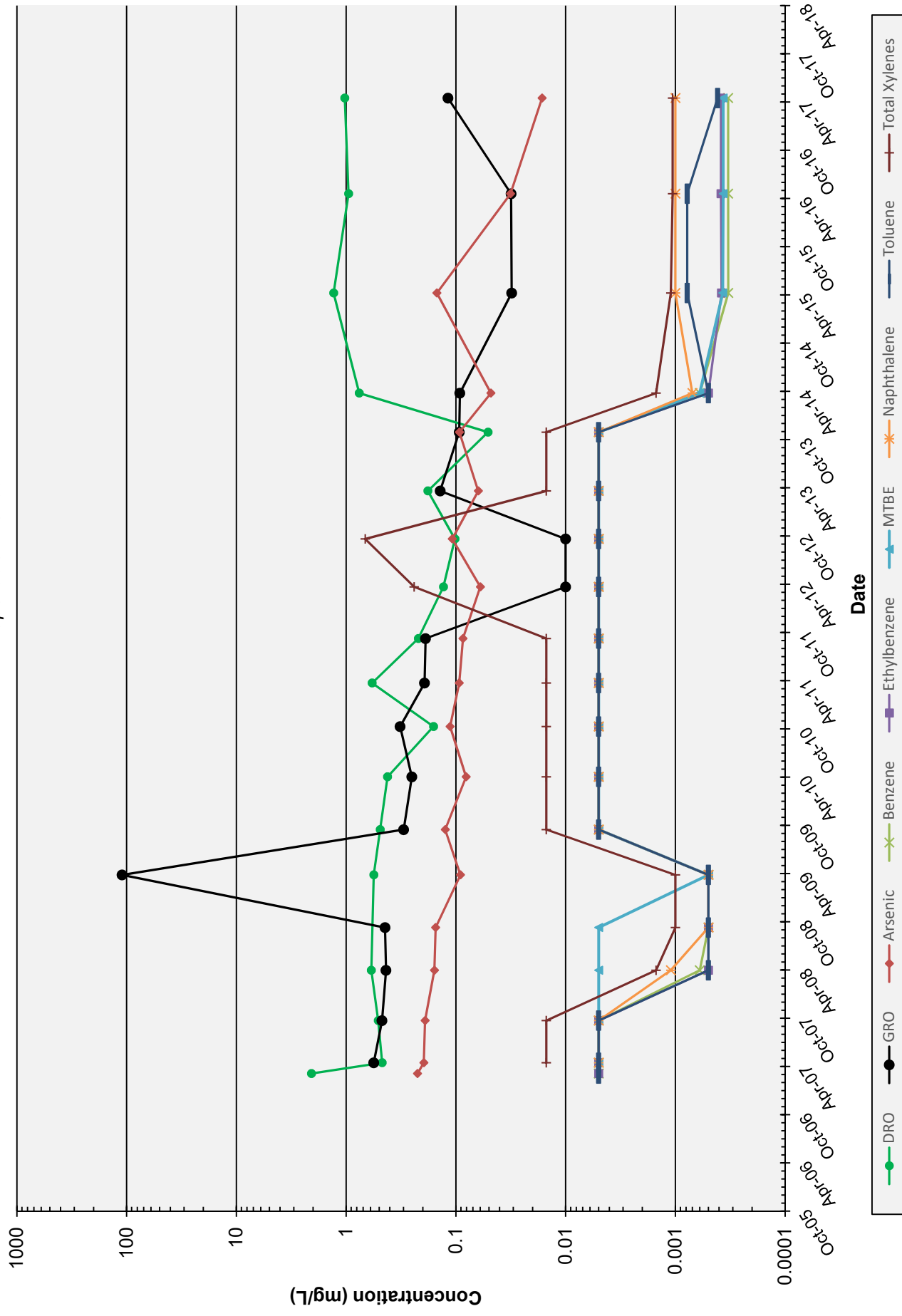
Evaporation Ponds



HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



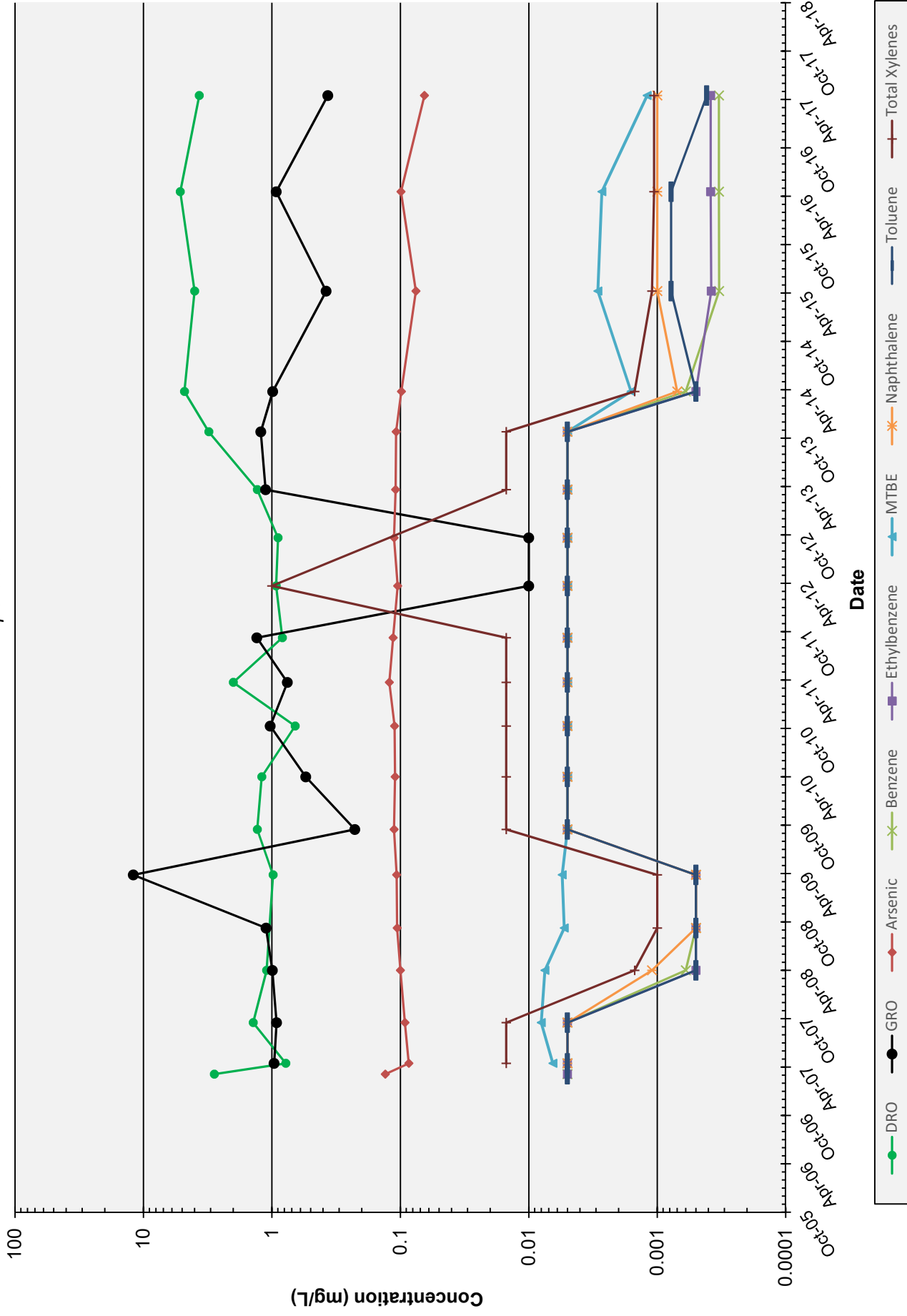
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



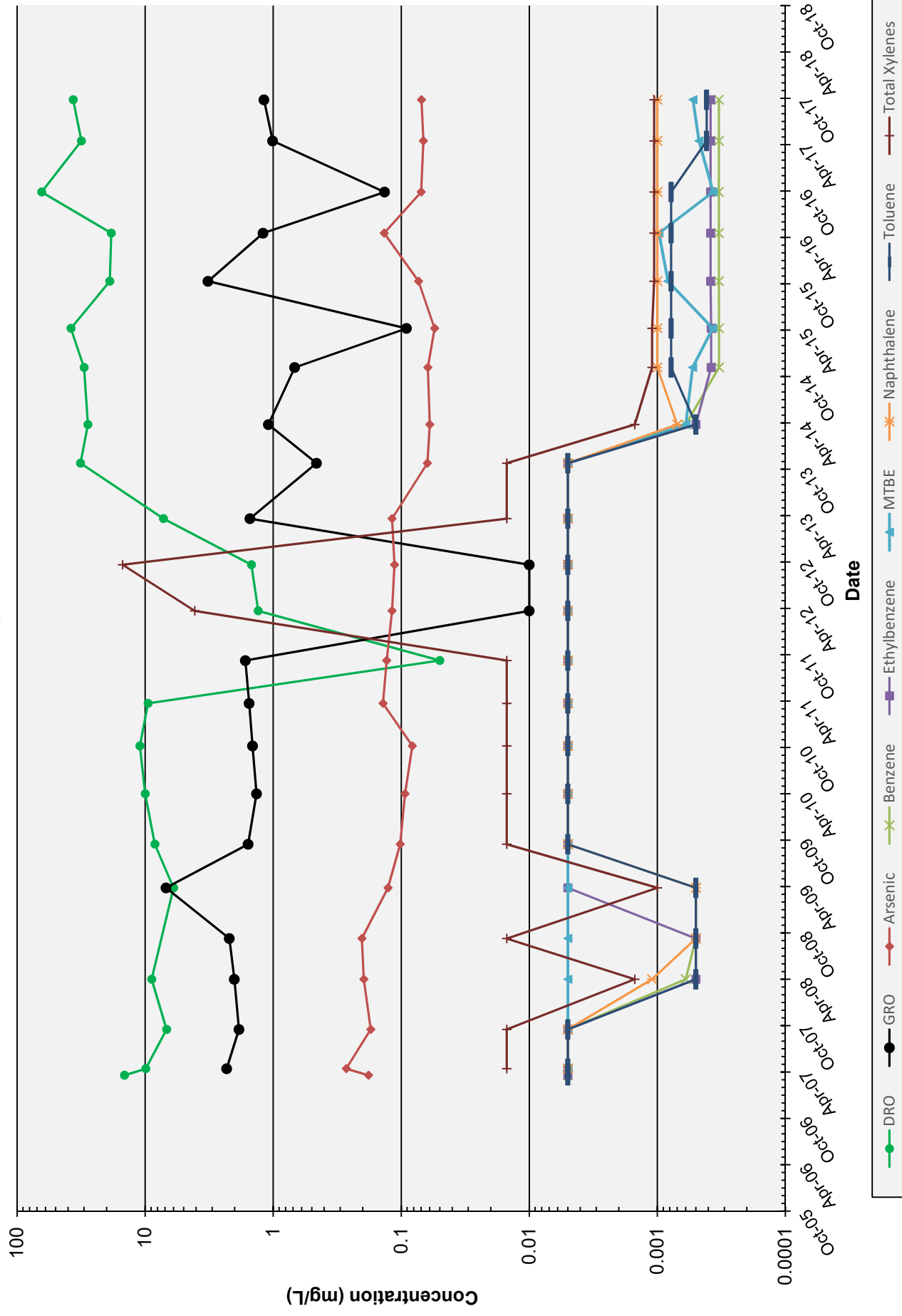
MW-73: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery

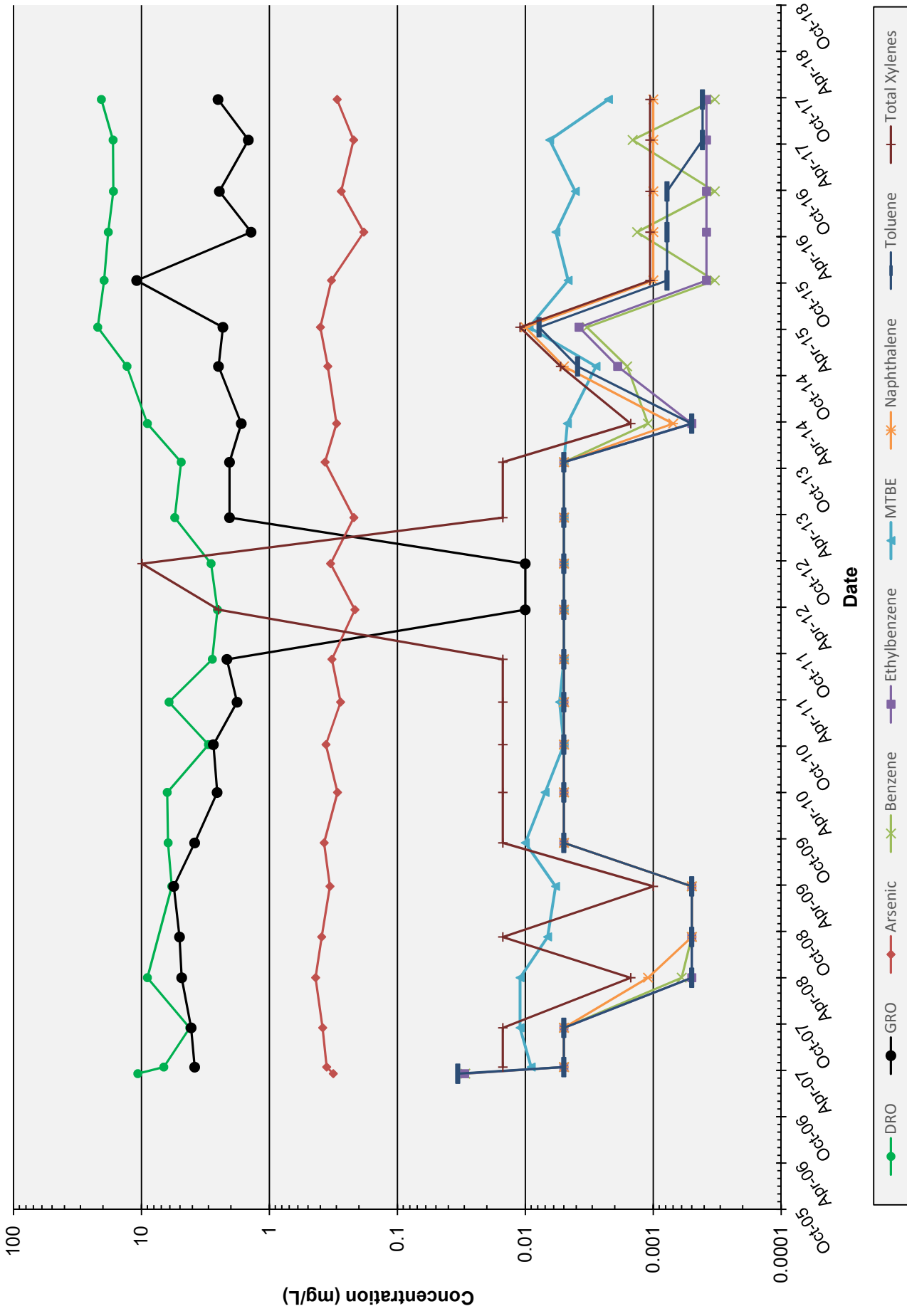
Evaporation Ponds



Evaporation Ponds



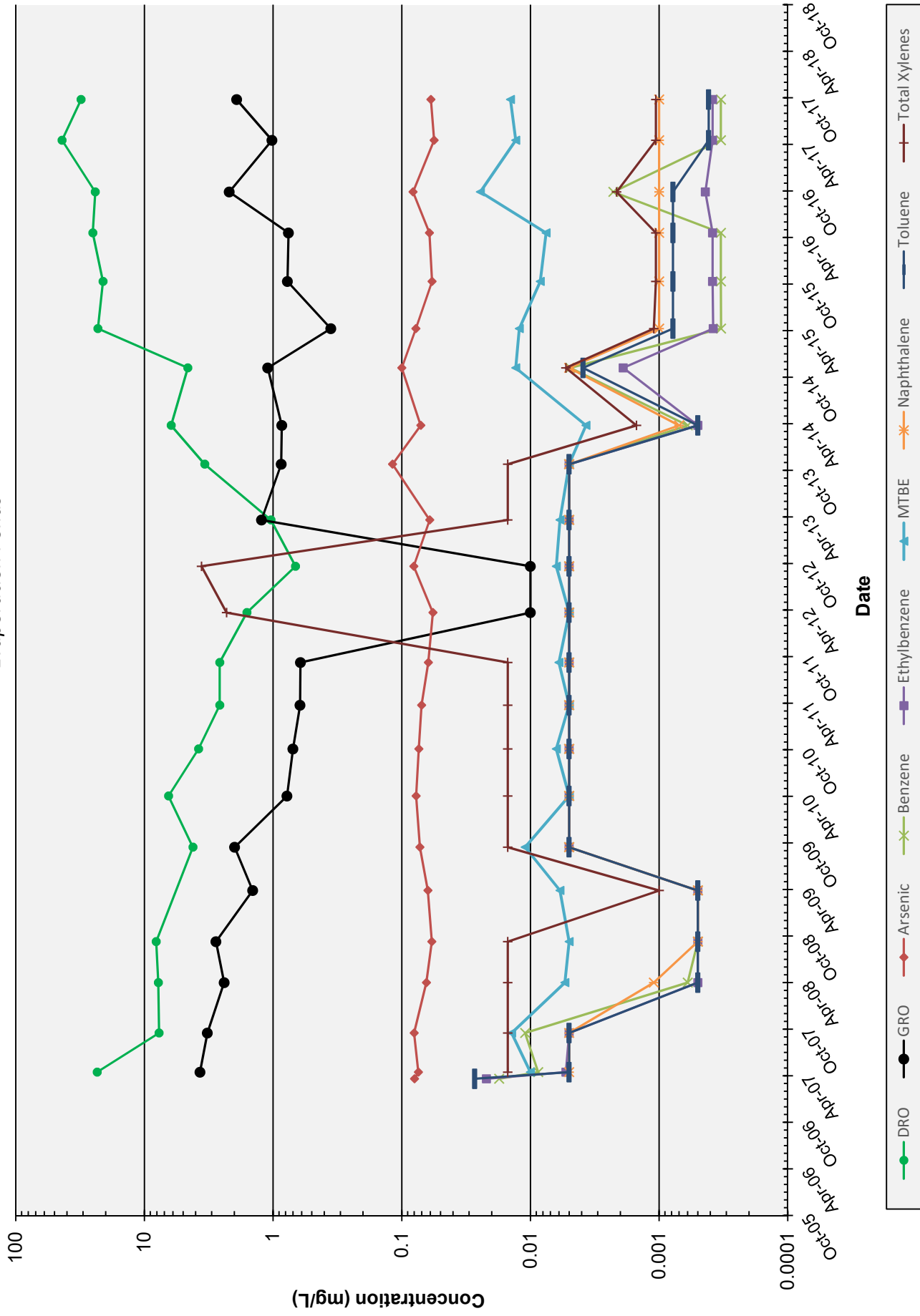
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



MW-76: COC Concentrations

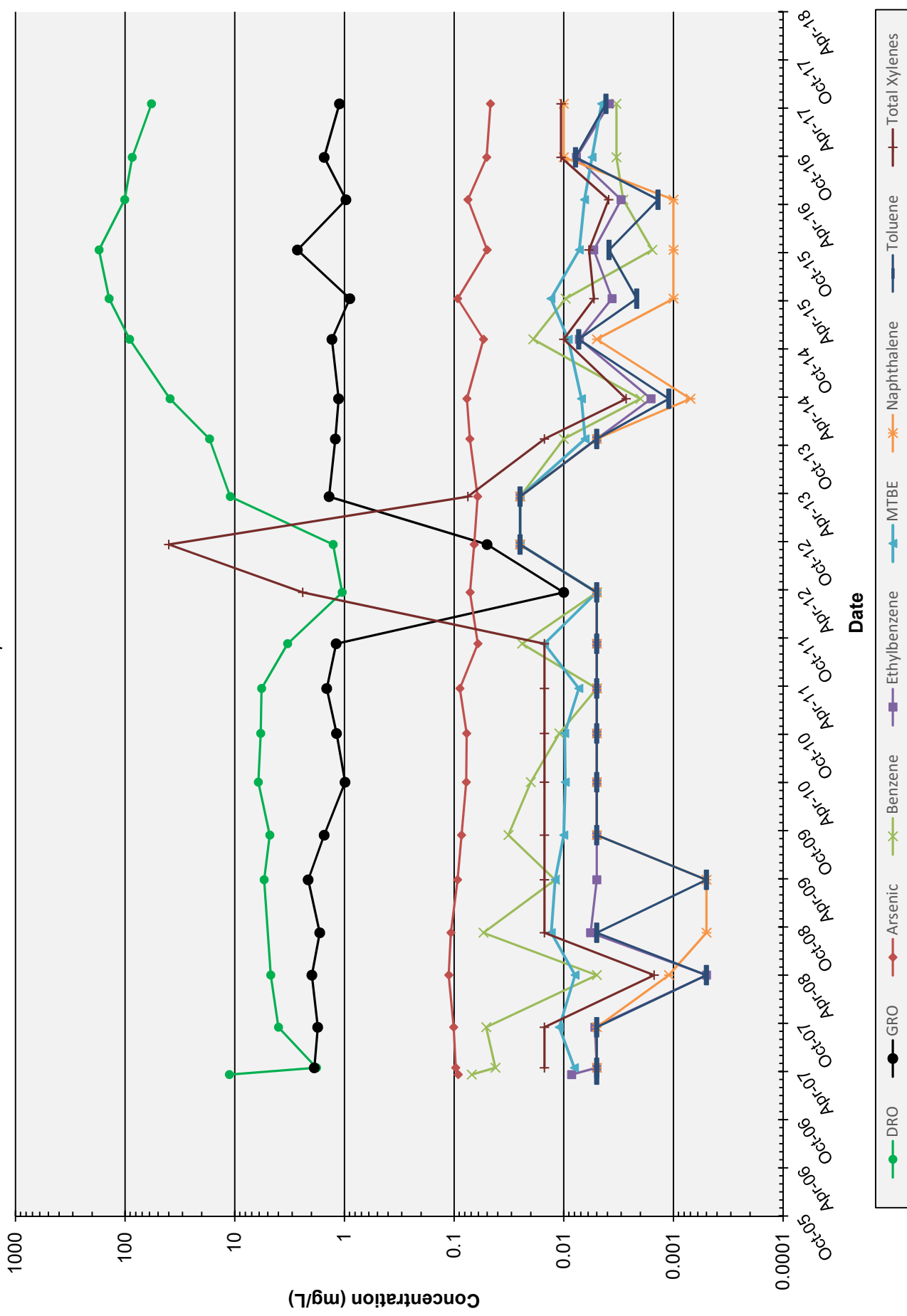
HollyFrontier Navajo Refining LLC - Artesia Refinery

Evaporation Ponds

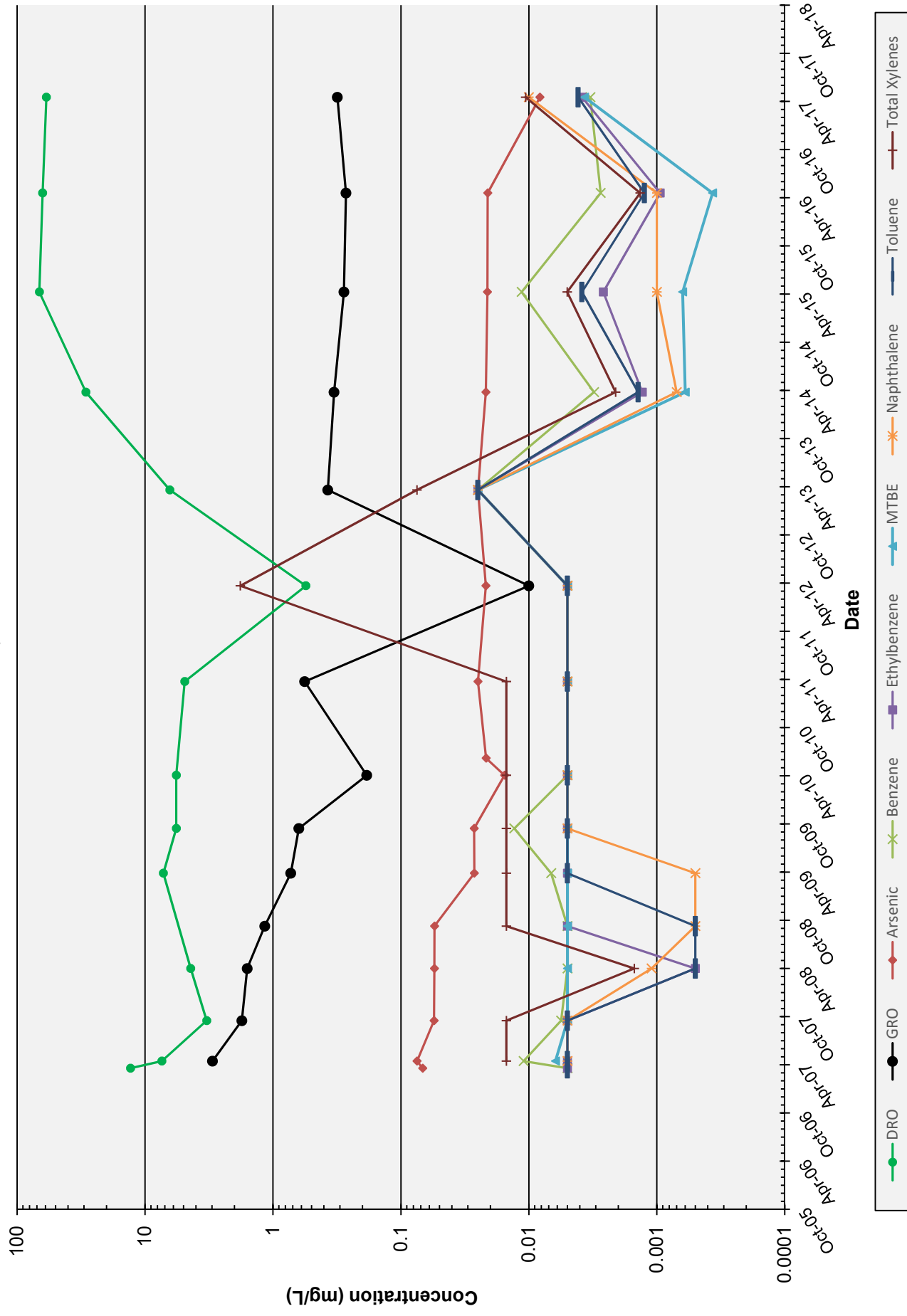


MW-77: COC Concentrations

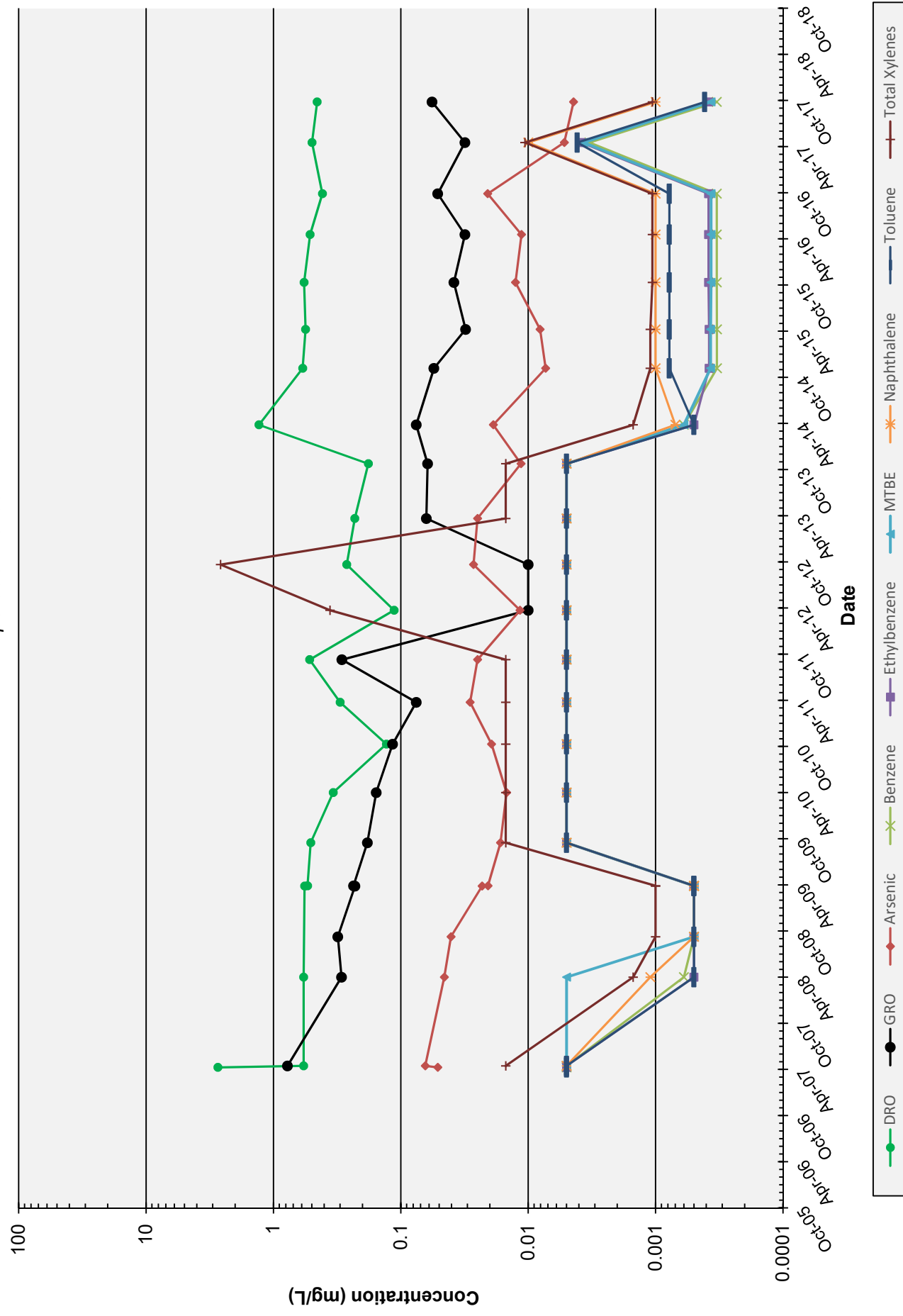
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



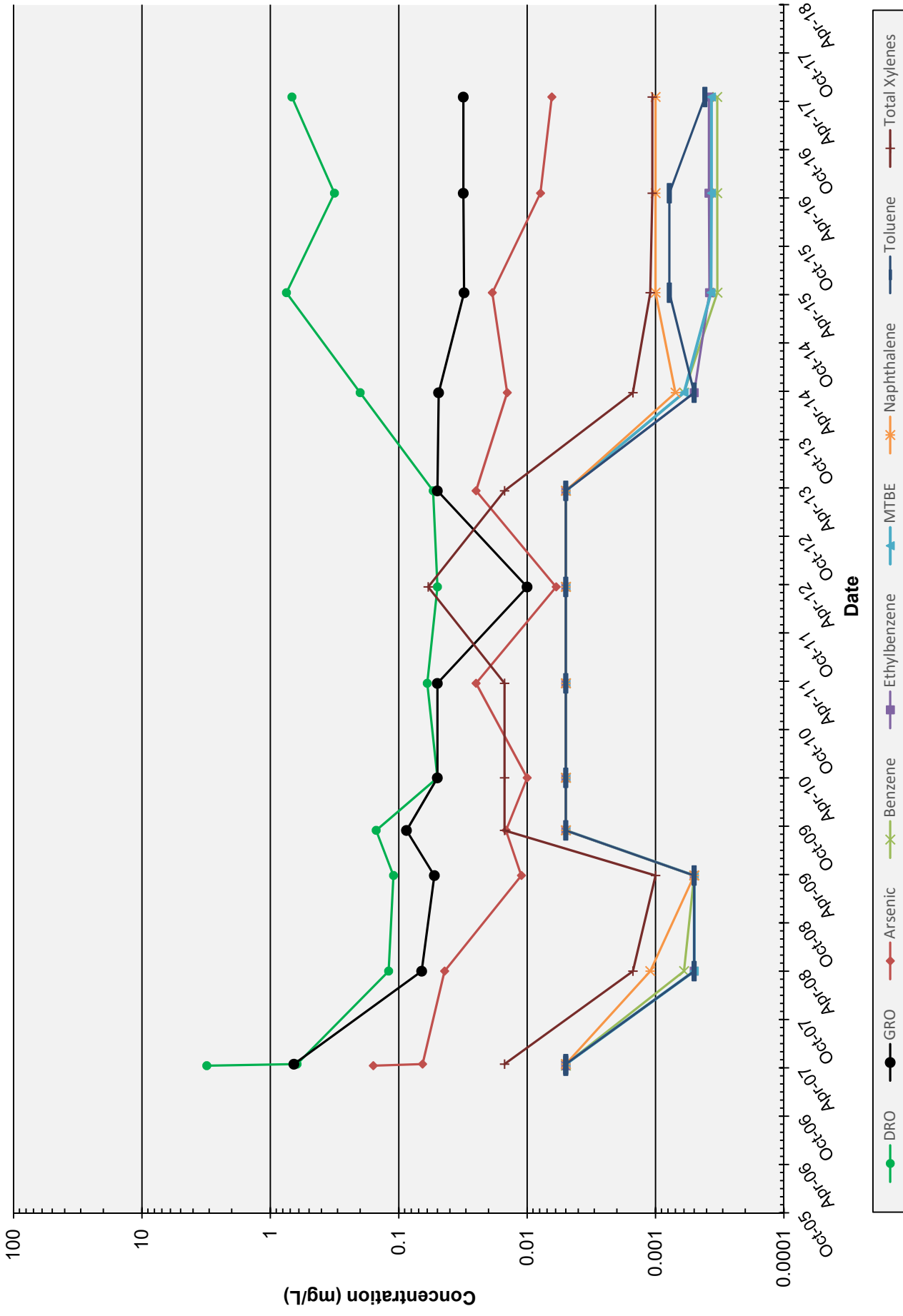
Evaporation Ponds



HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds

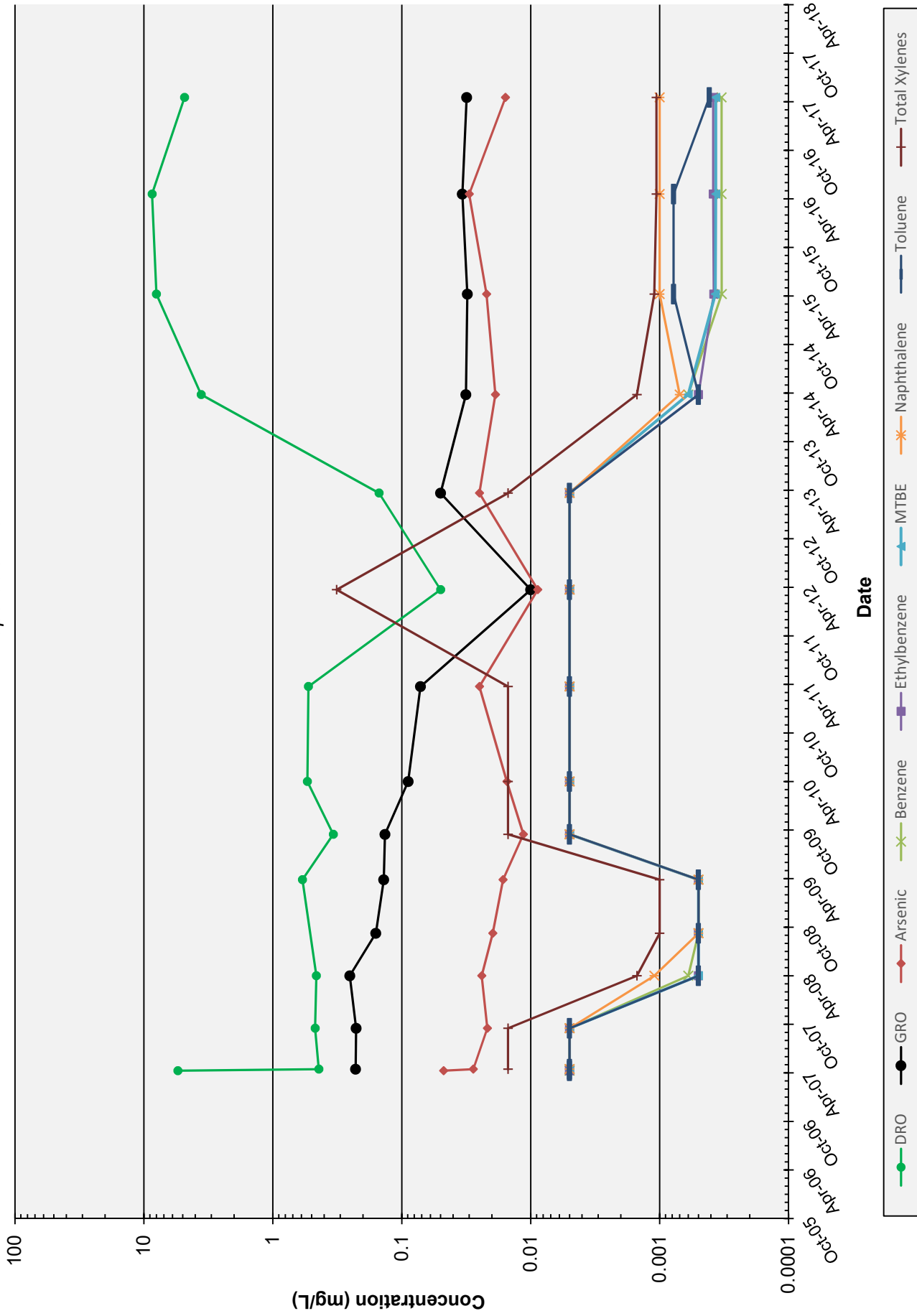


HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds

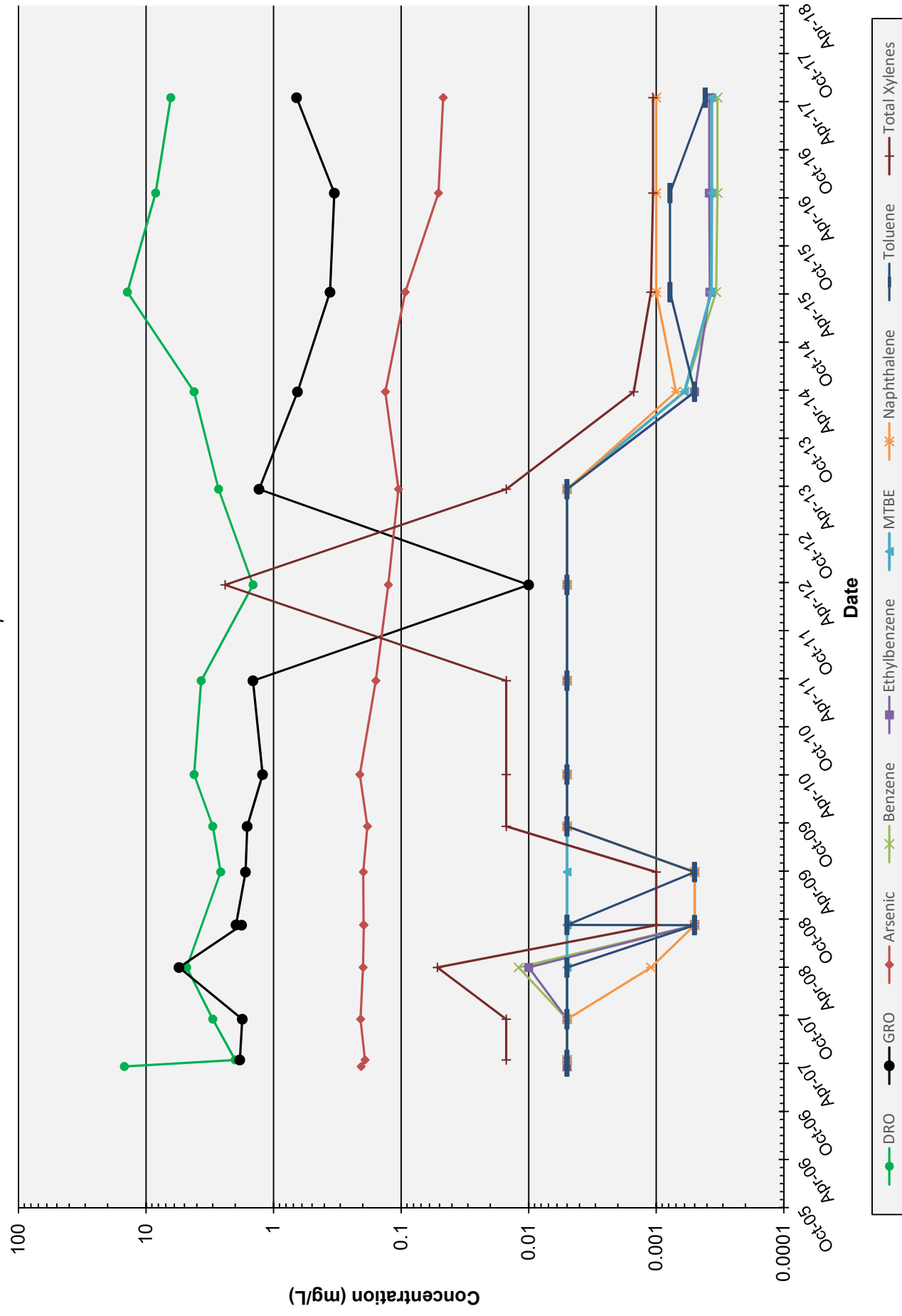


MW-81: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds

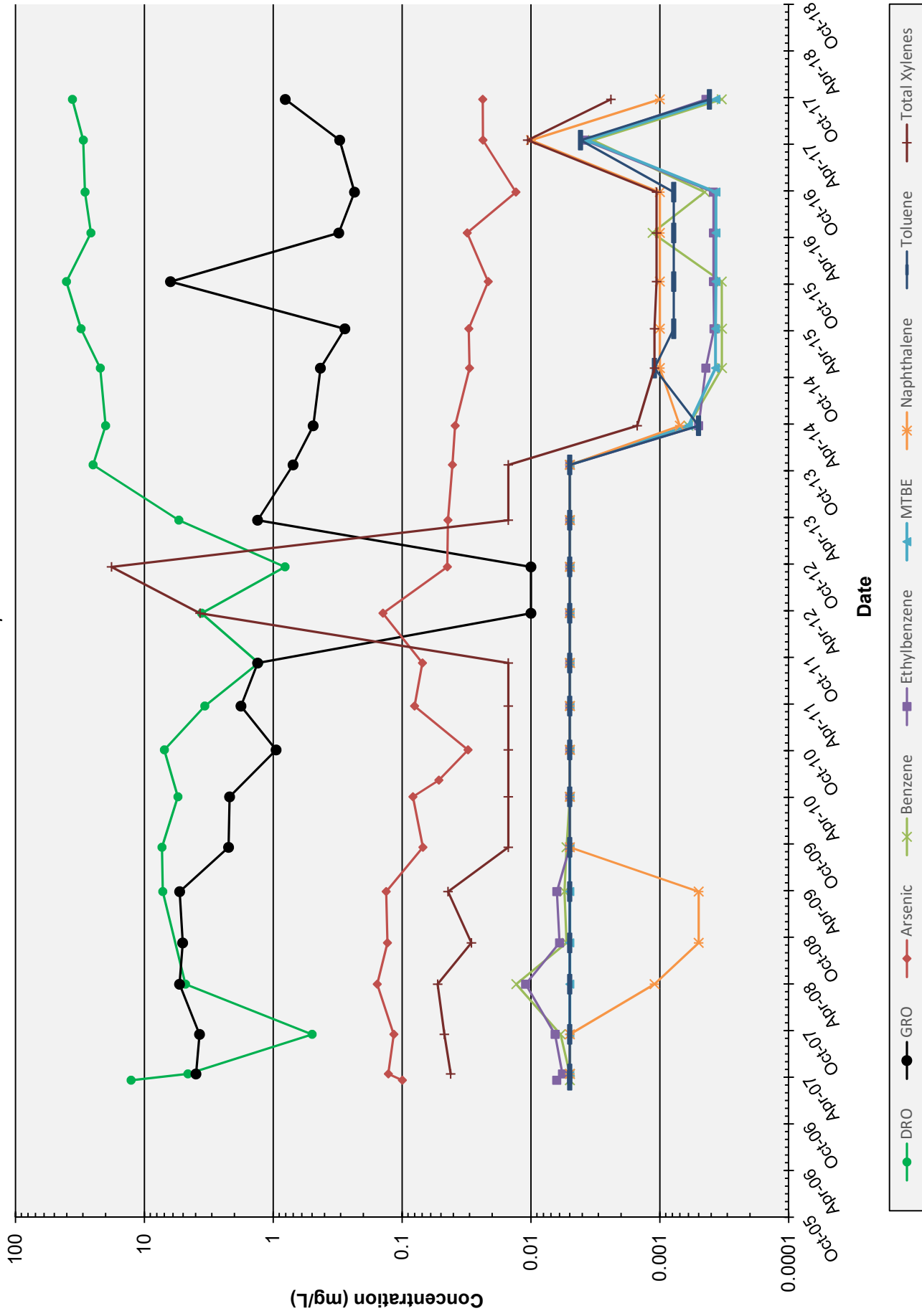


HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



MW-83: COC Concentrations

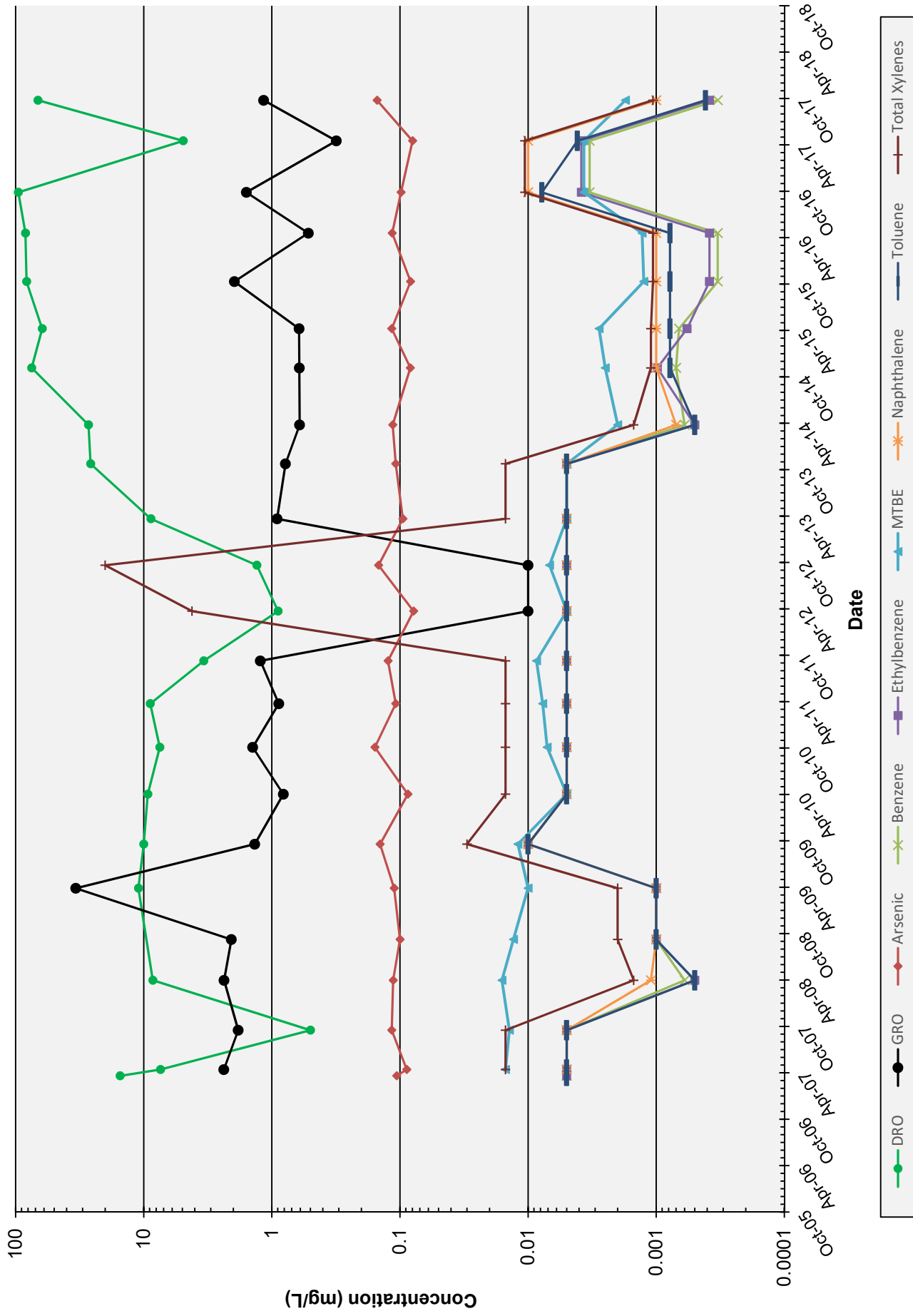
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



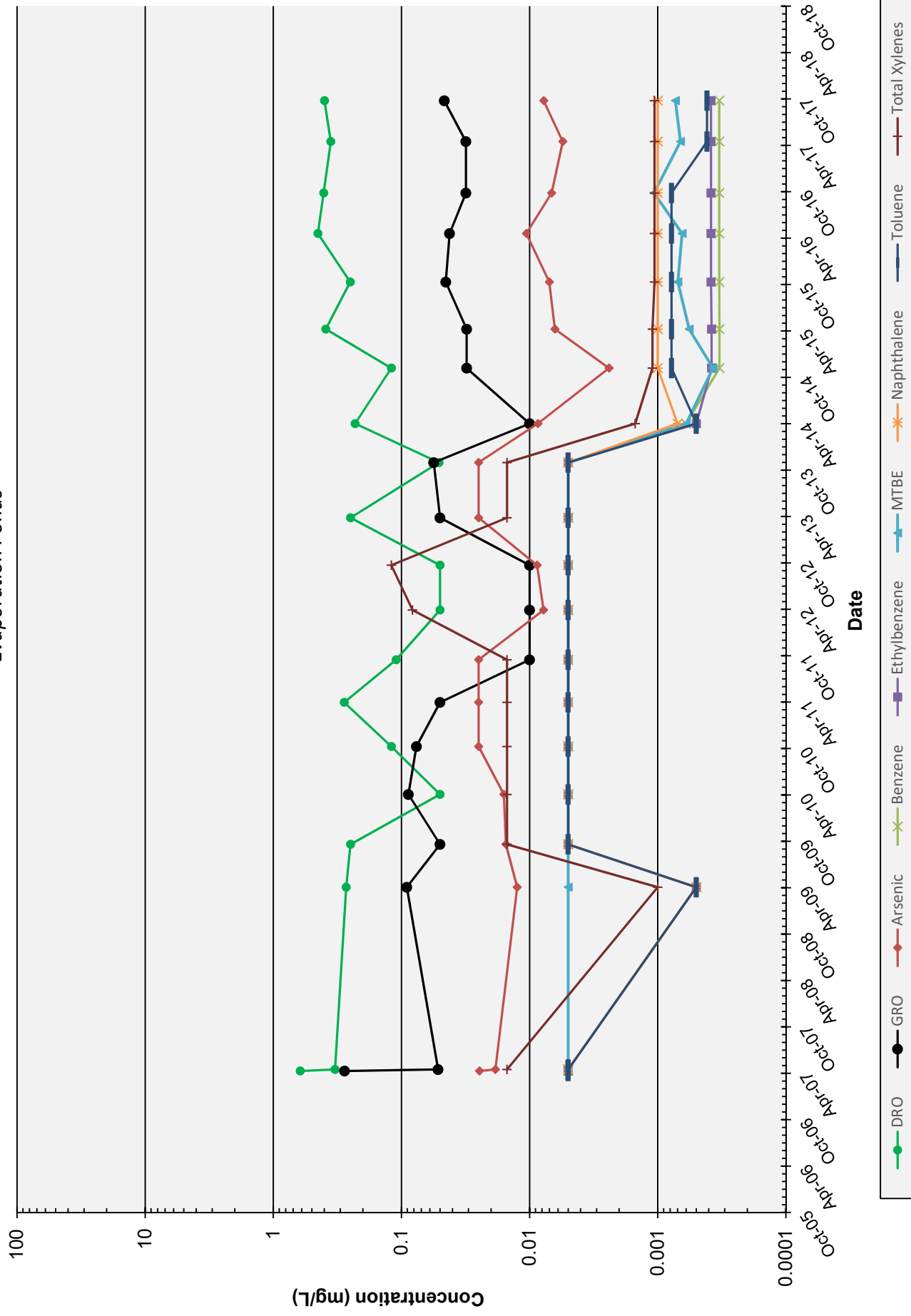
MW-84: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery

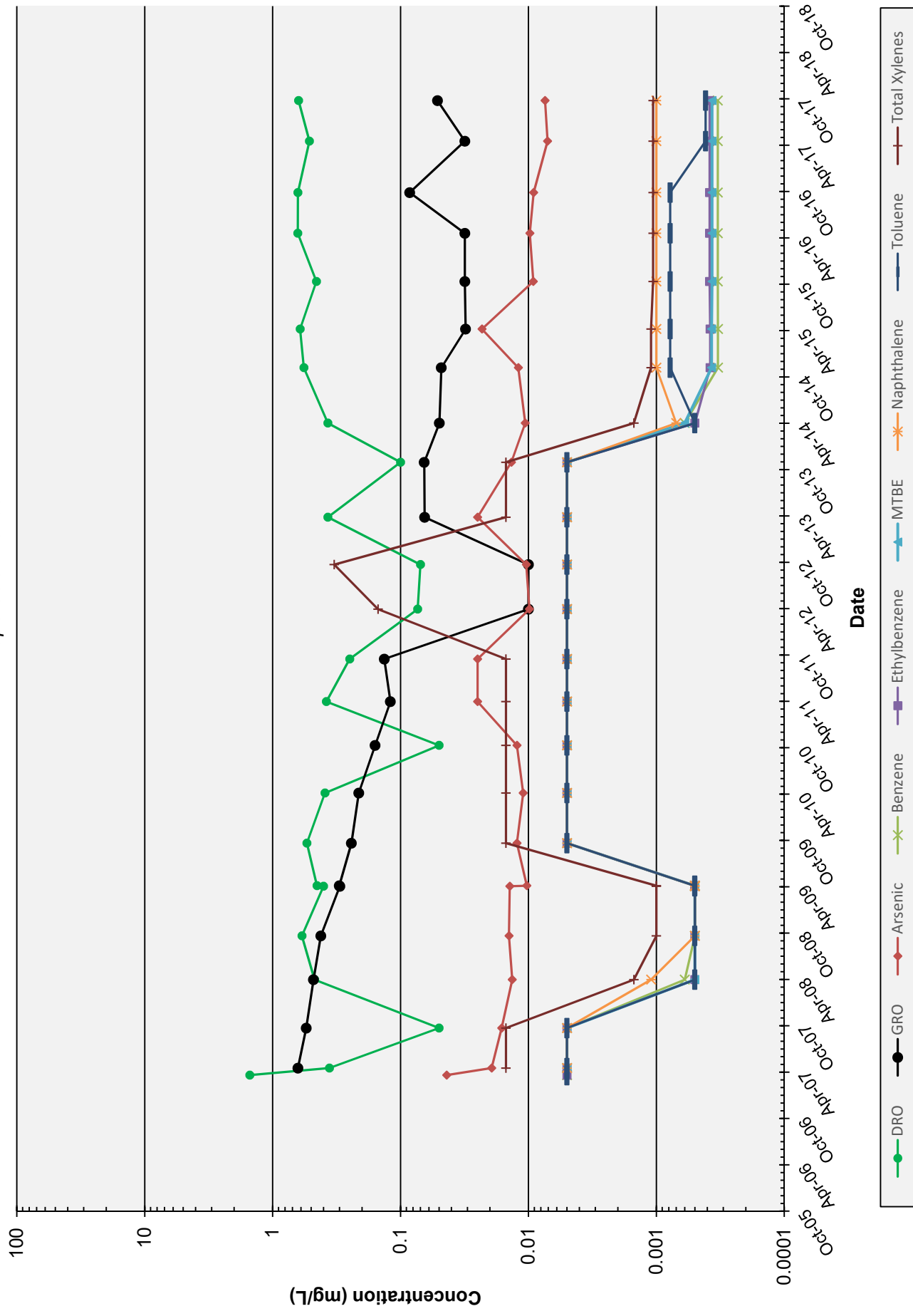
Evaporation Ponds



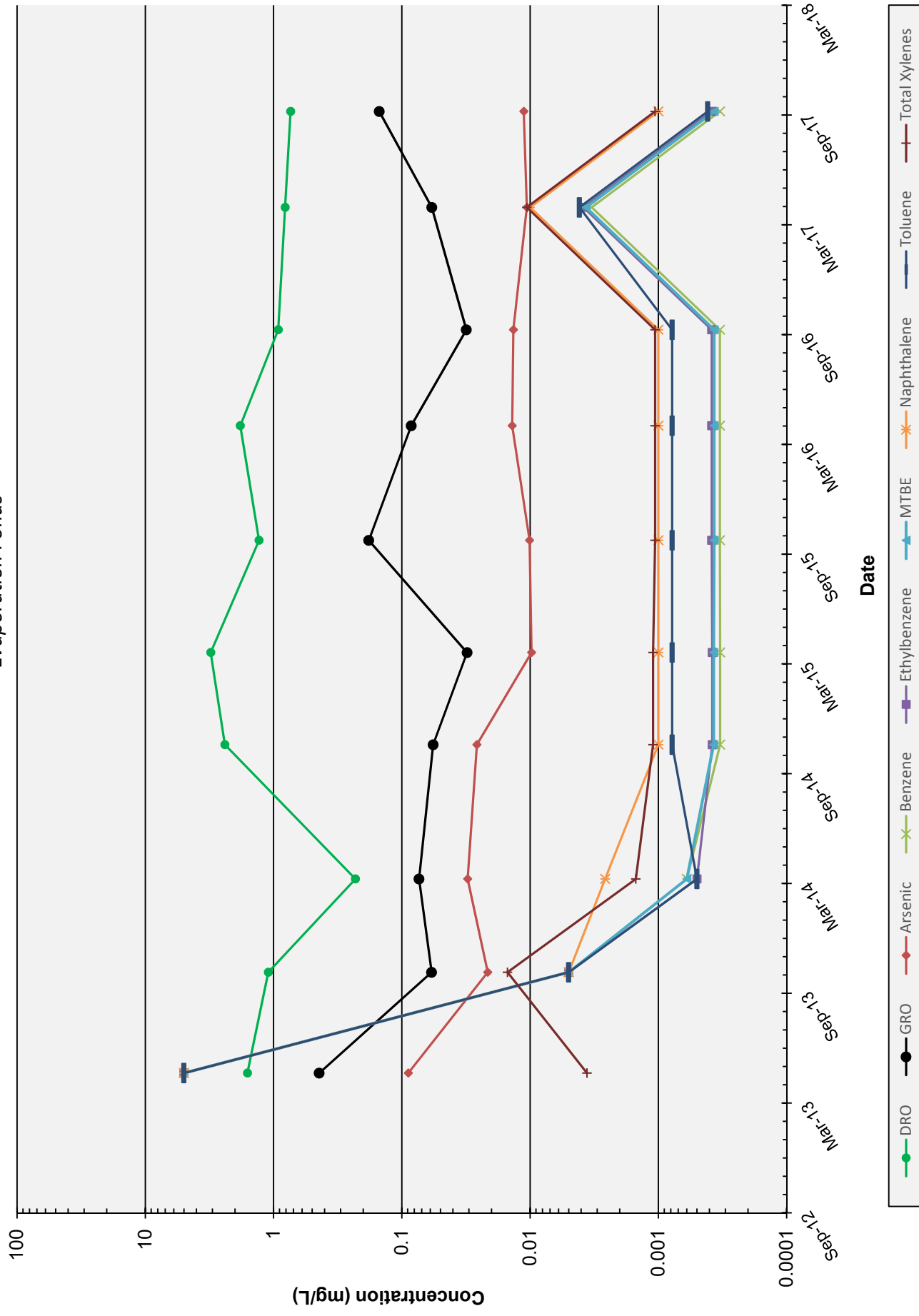
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



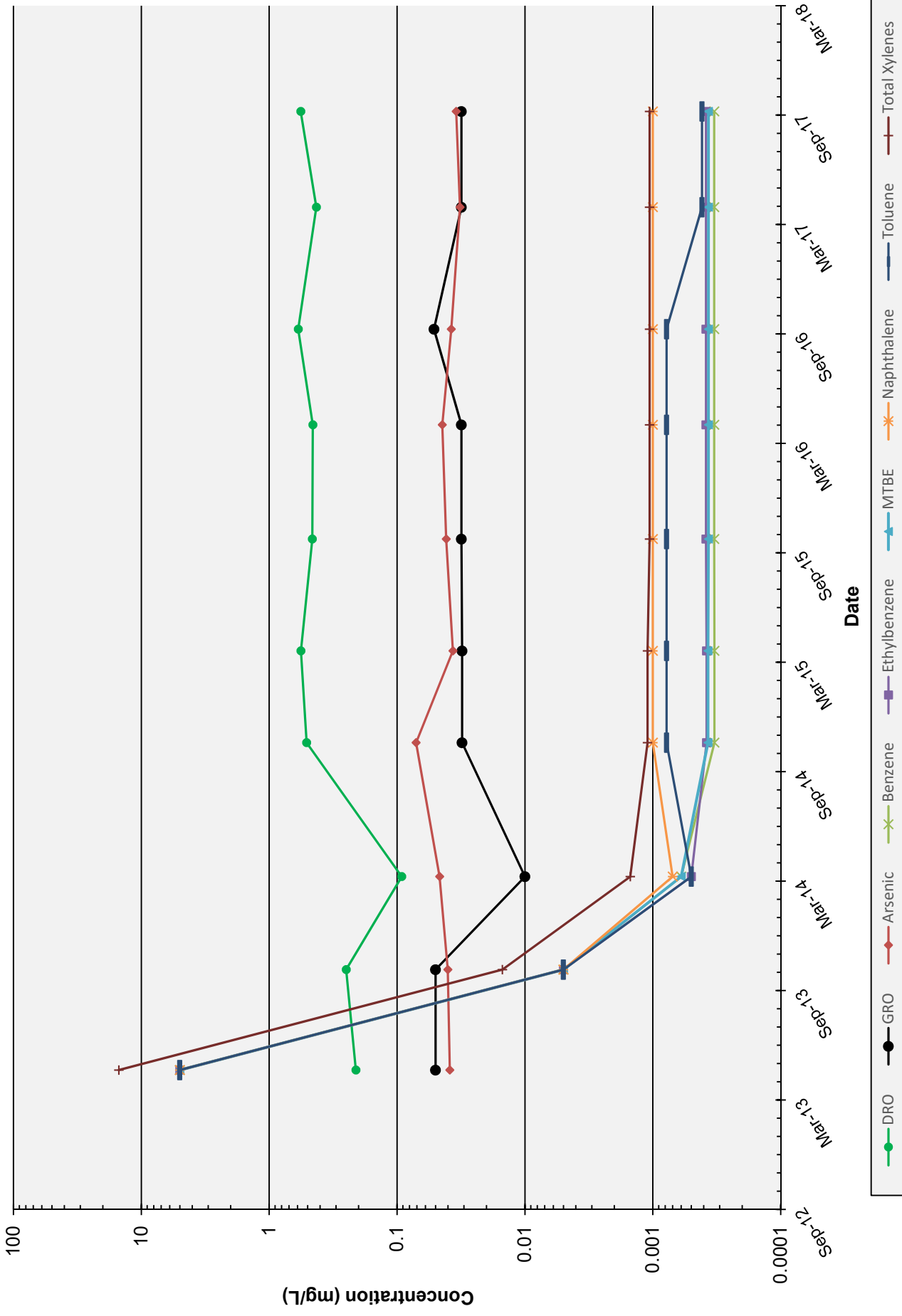
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



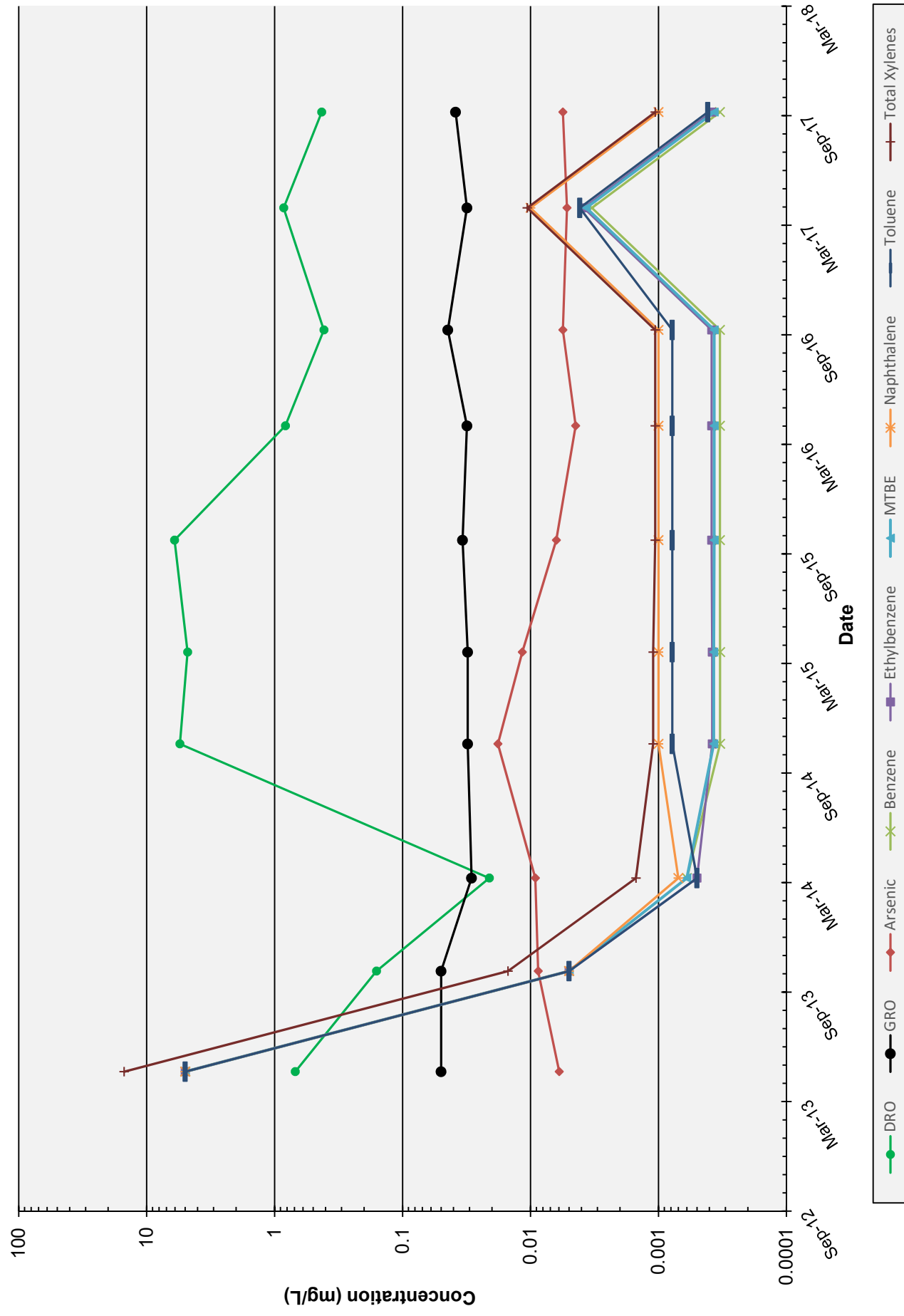
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



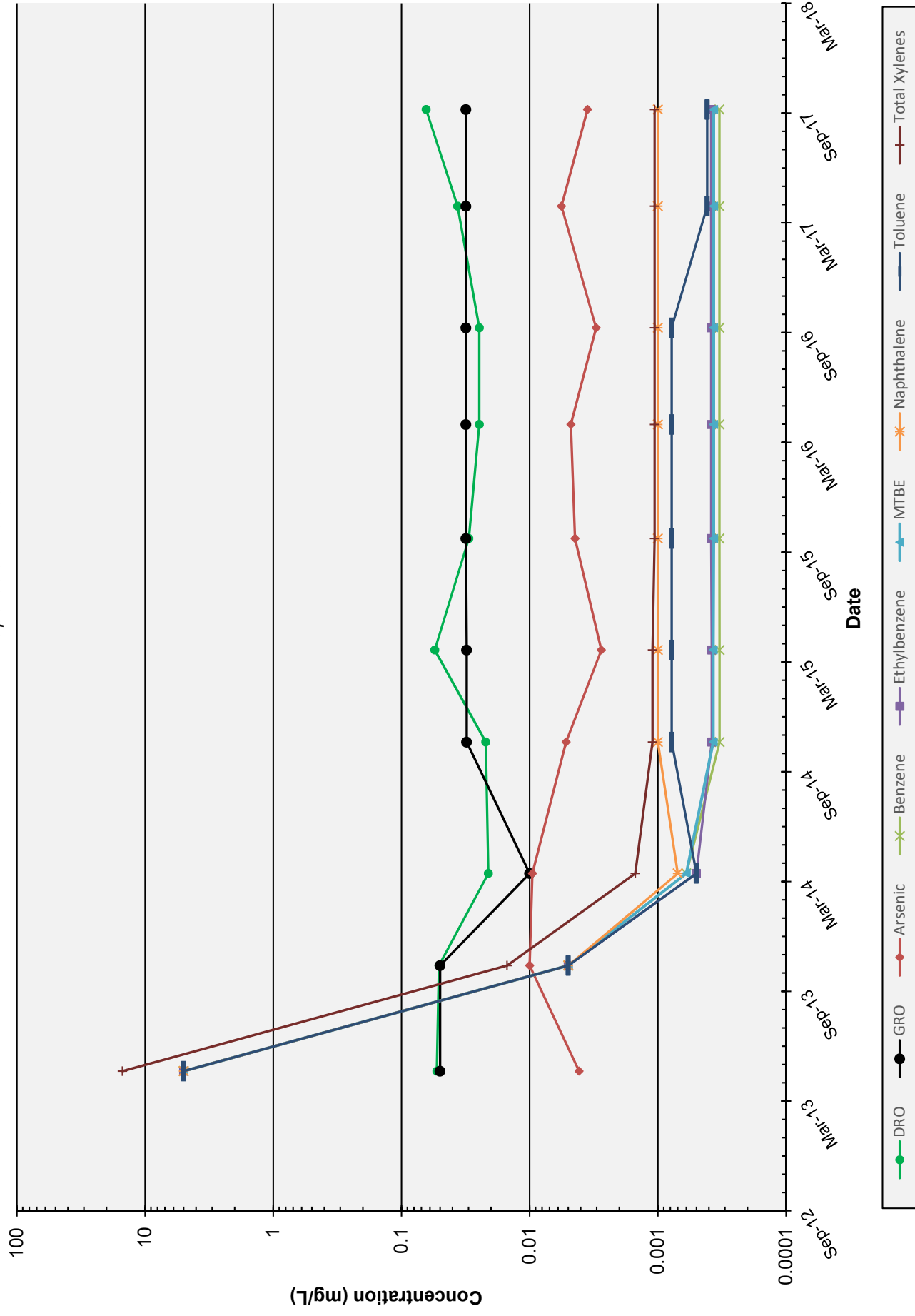
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



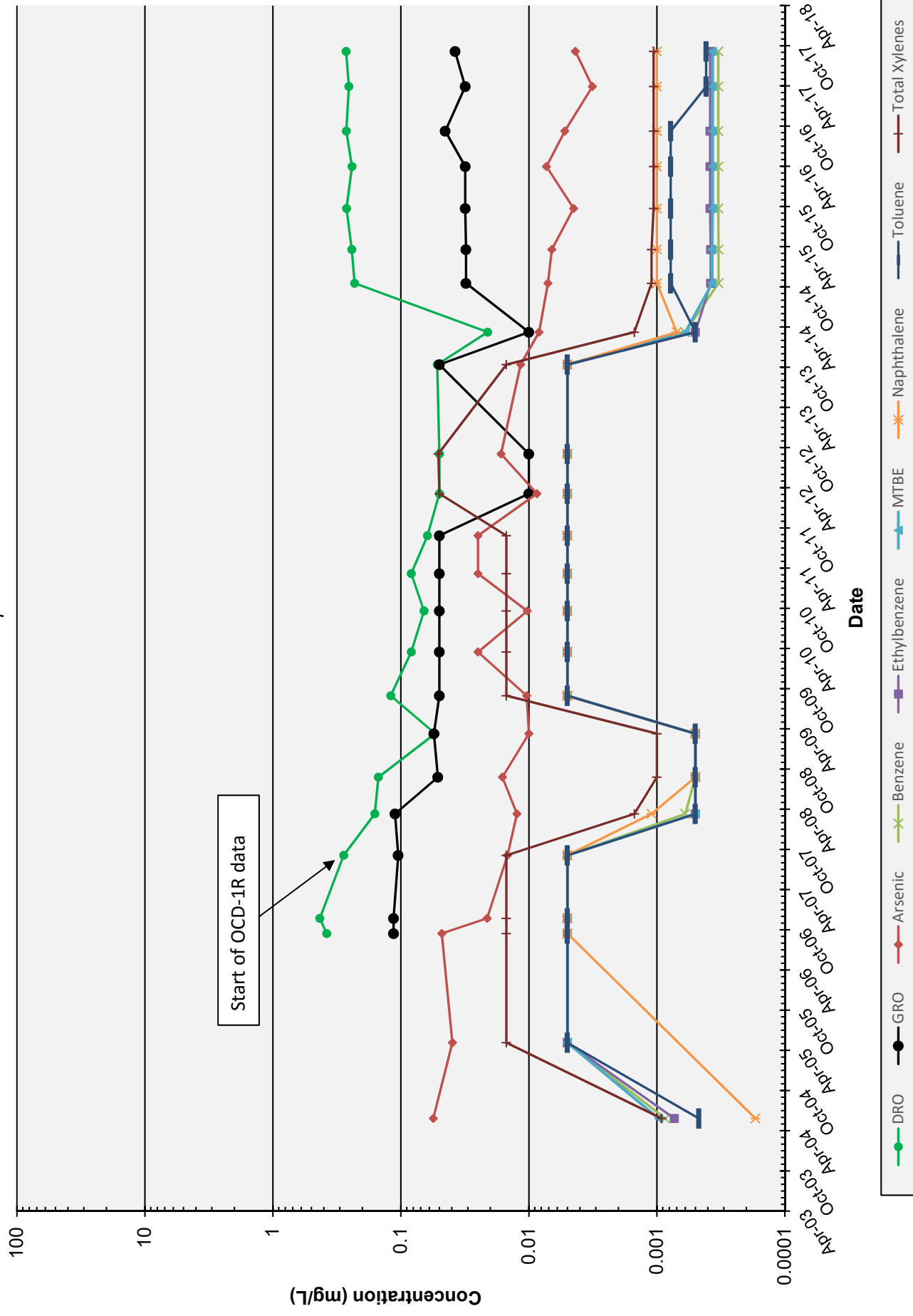
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



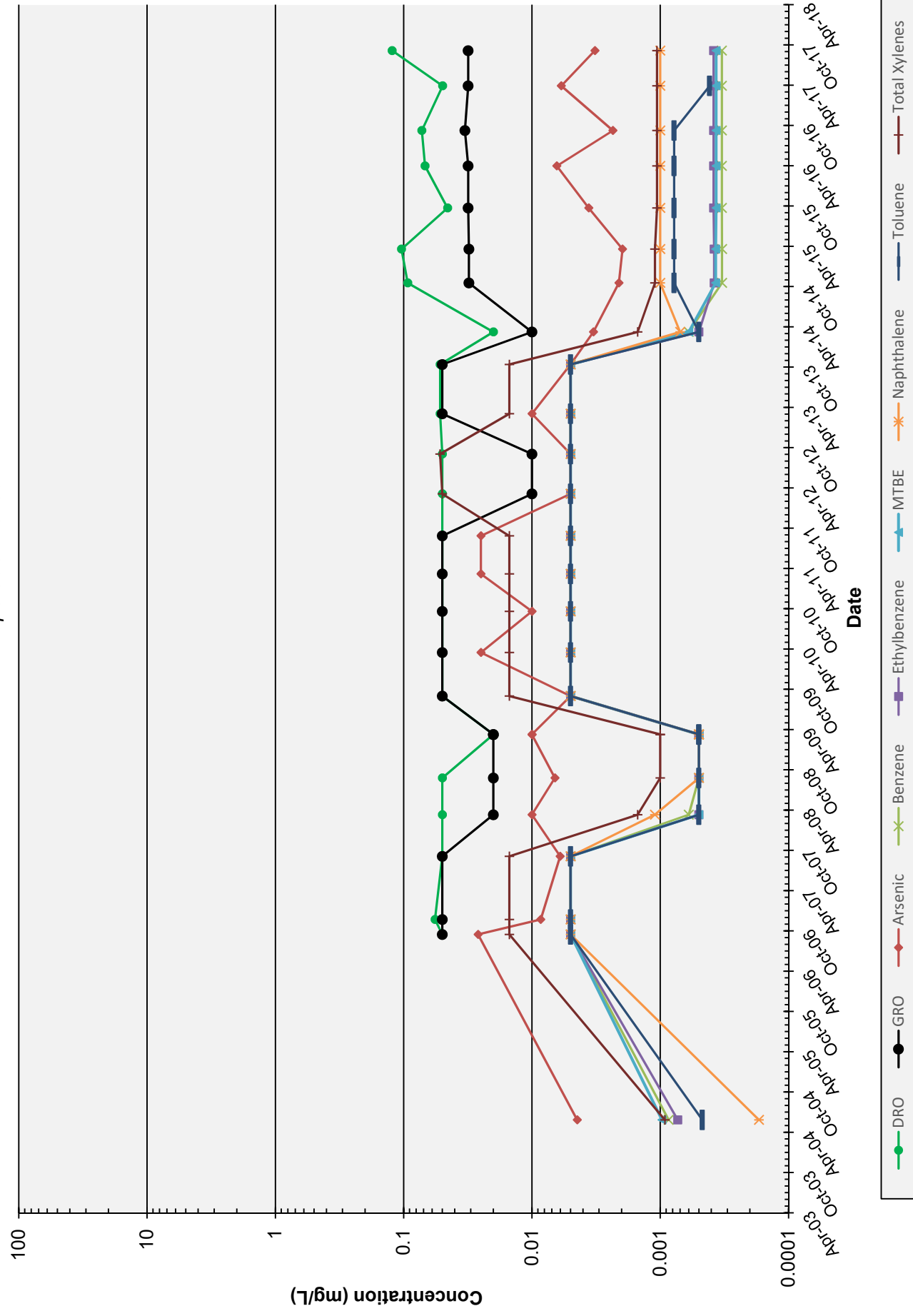
Evaporation Ponds



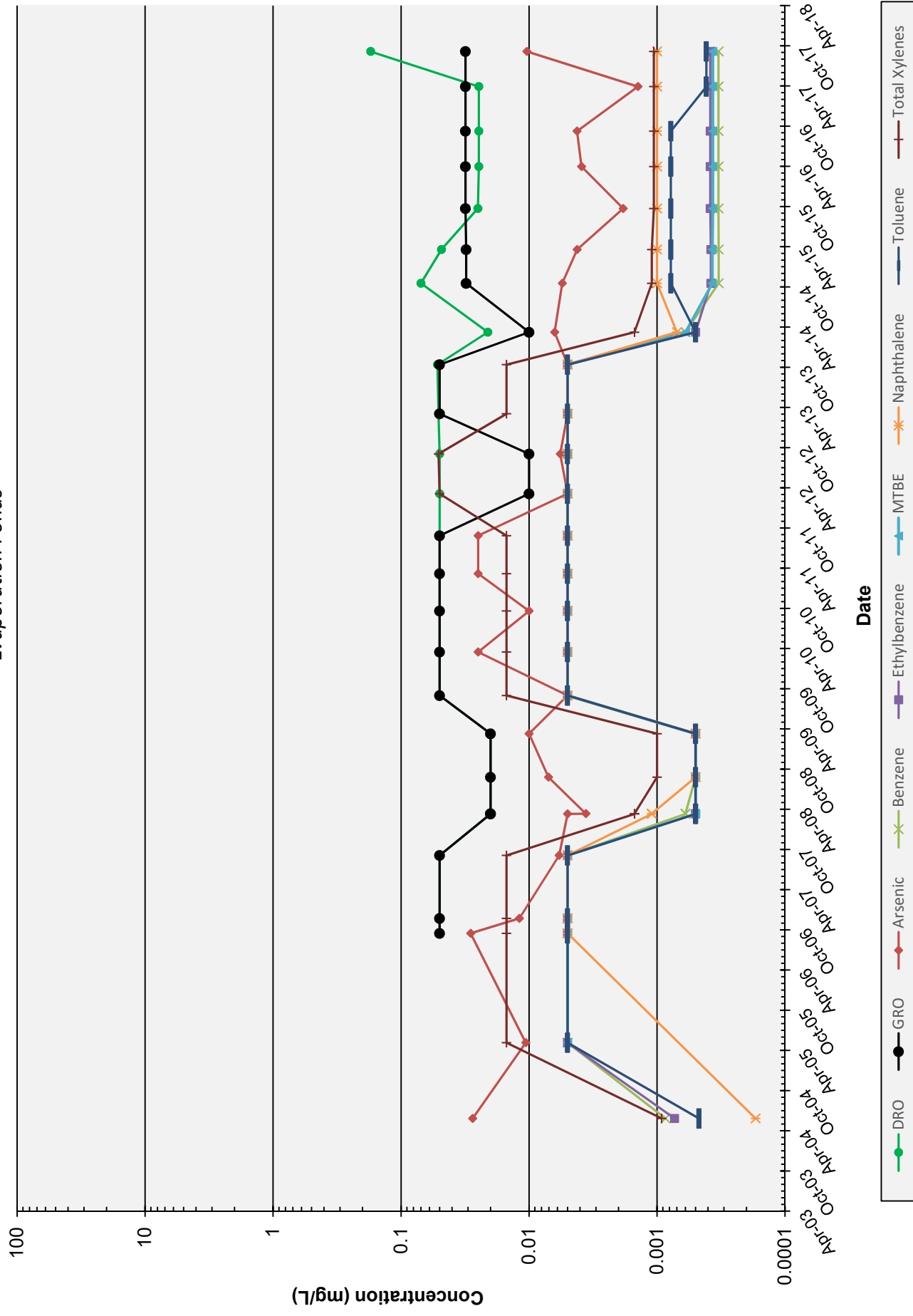
Evaporation Ponds



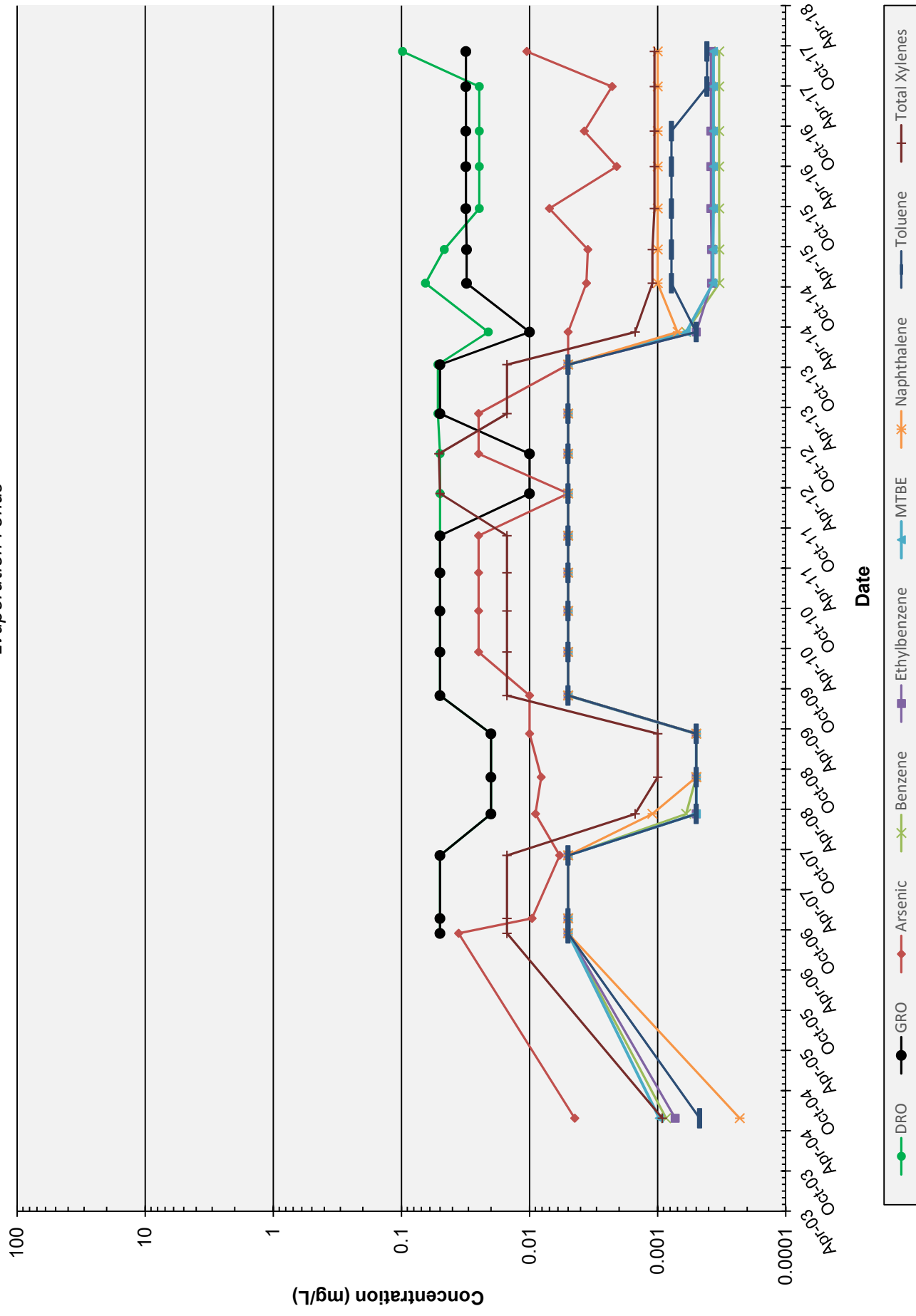
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds

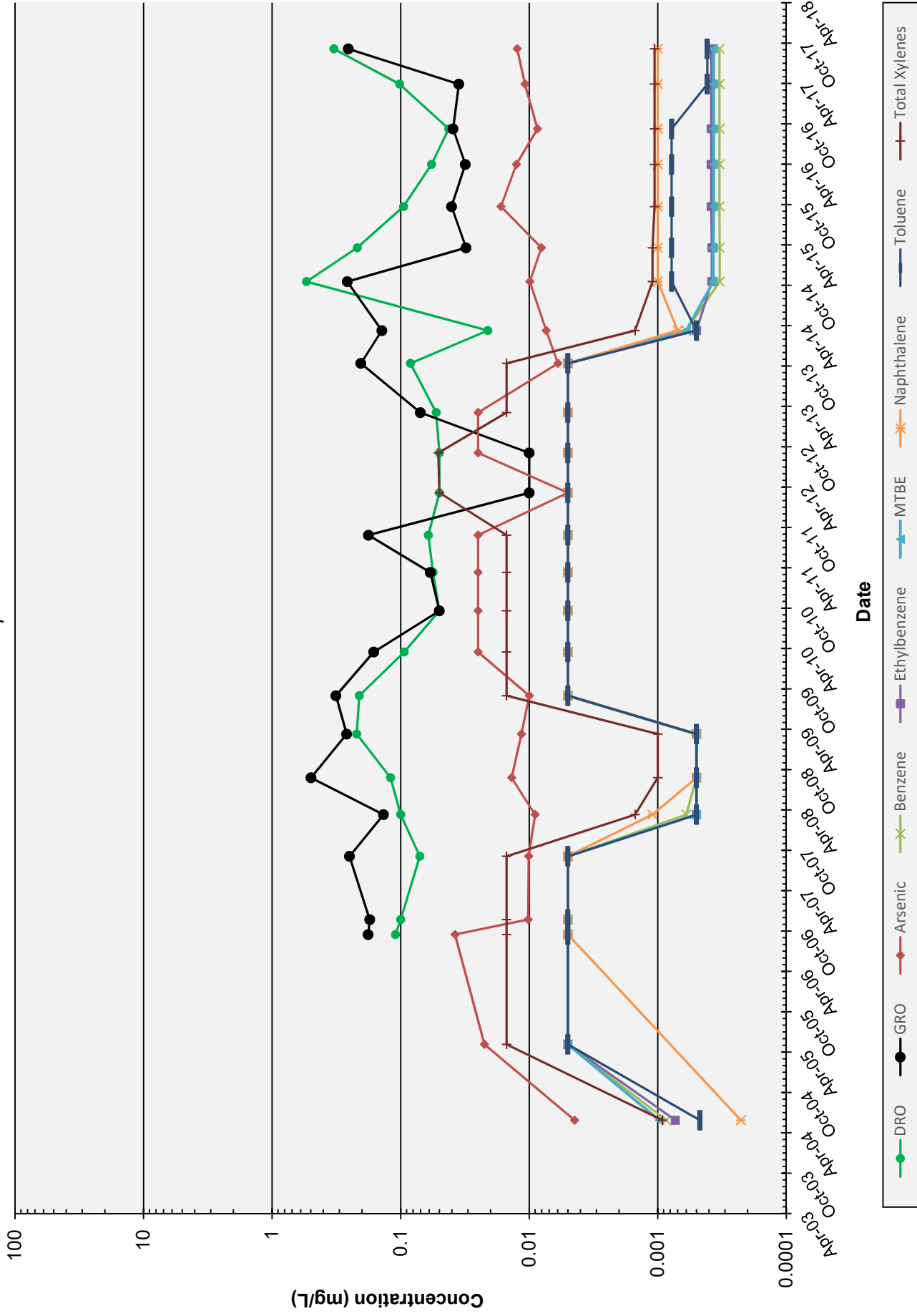


HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds

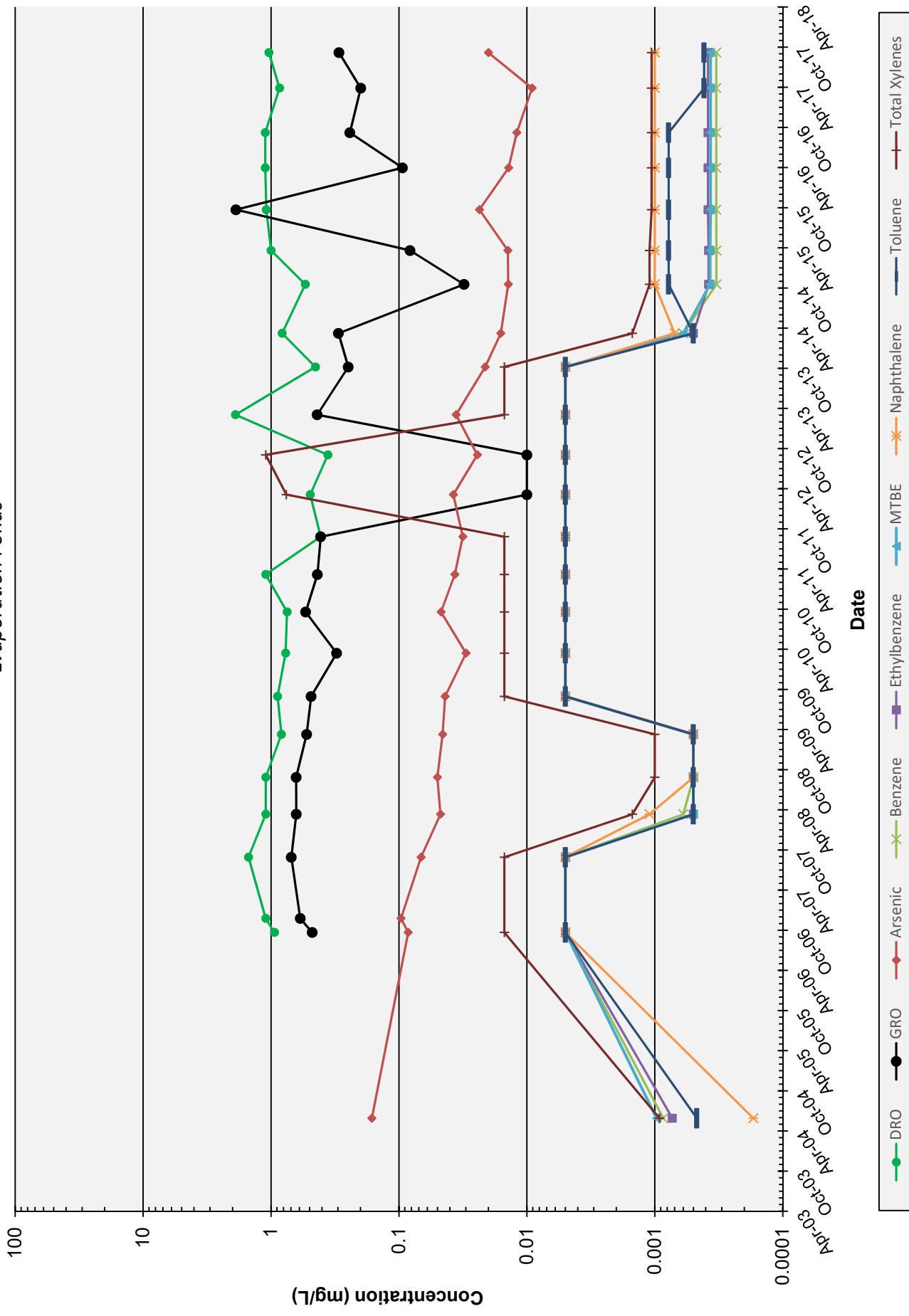


OCD-5: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds

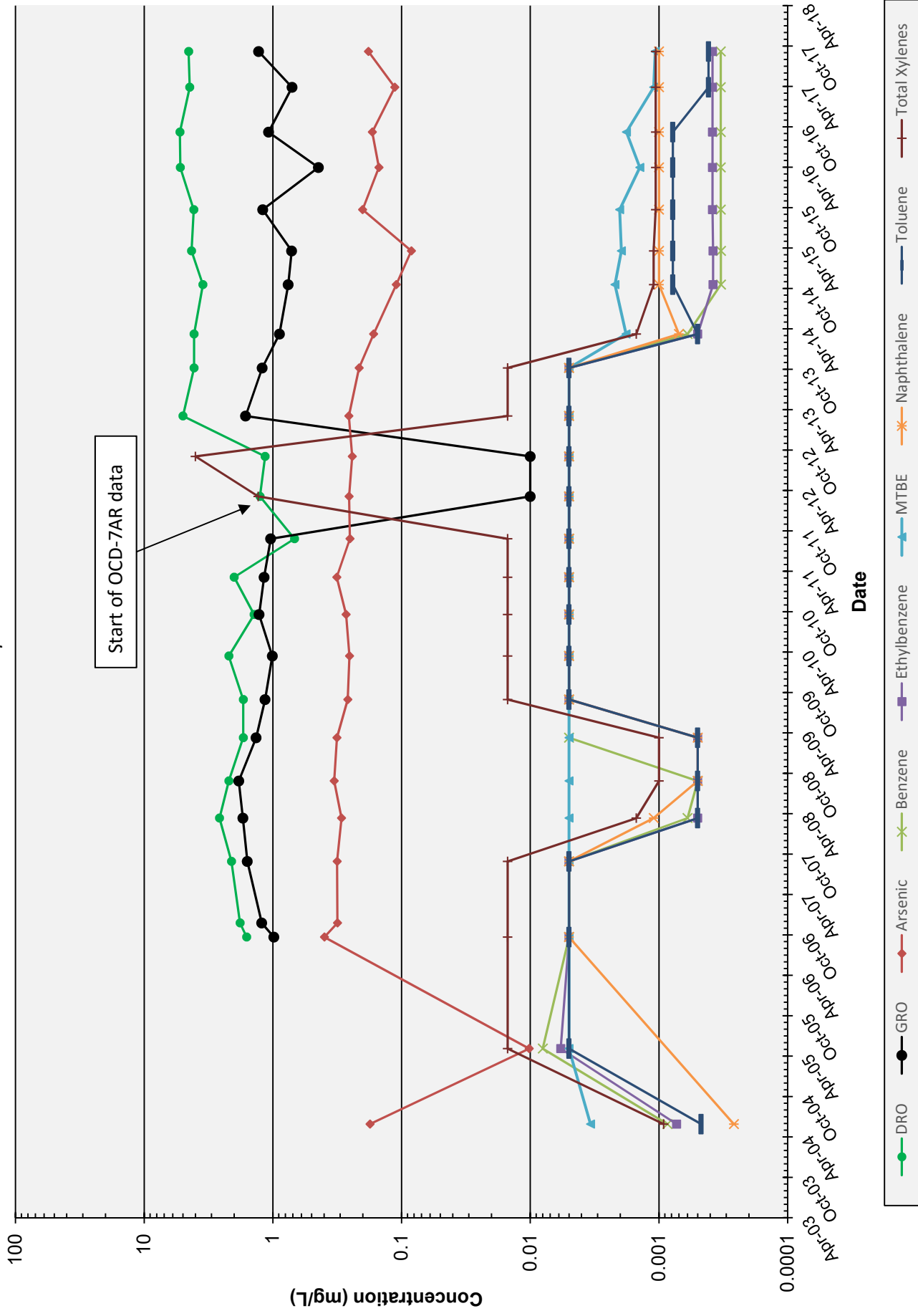


Evaporation Ponds



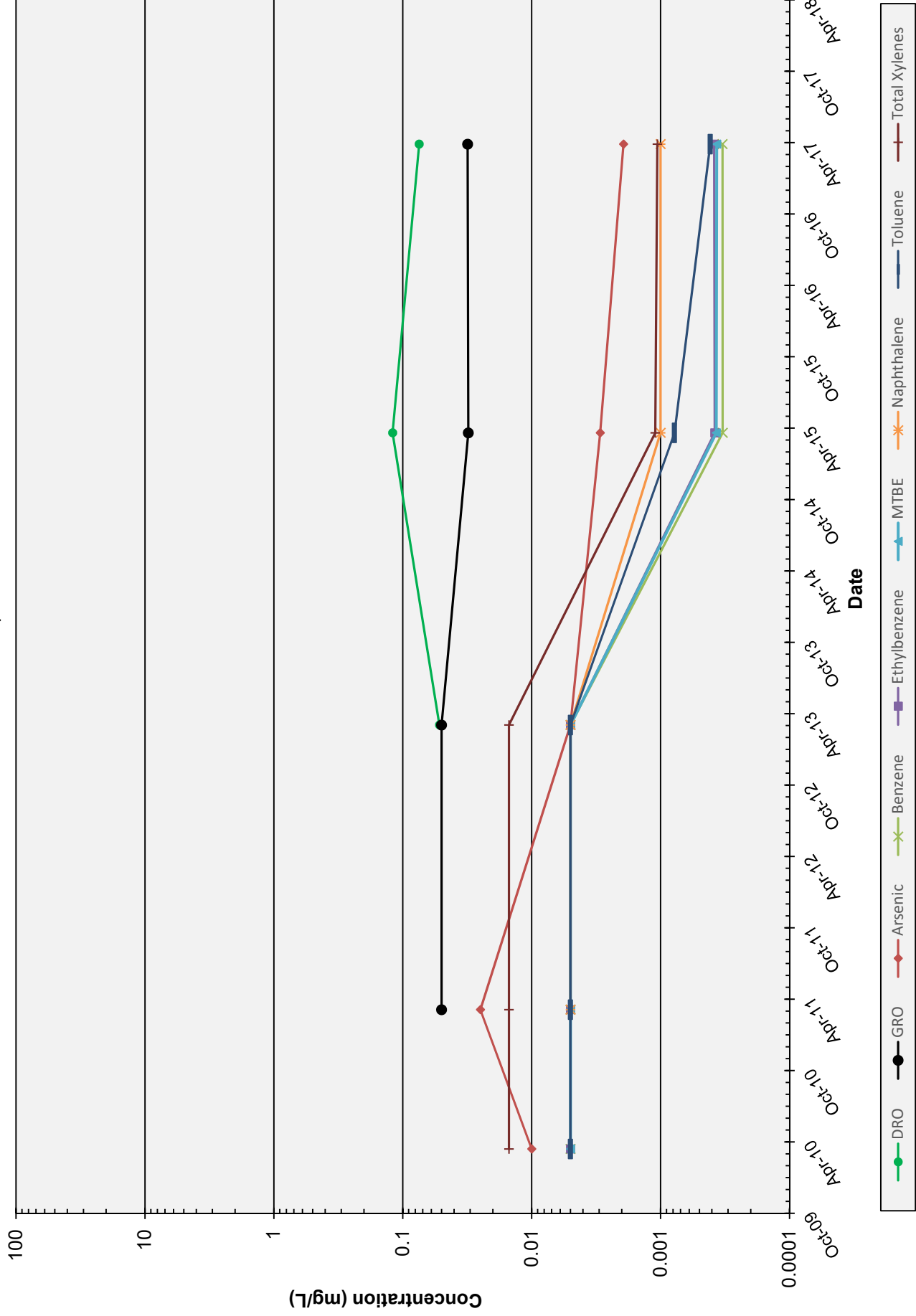
OCD-7A & OCD-7AR: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



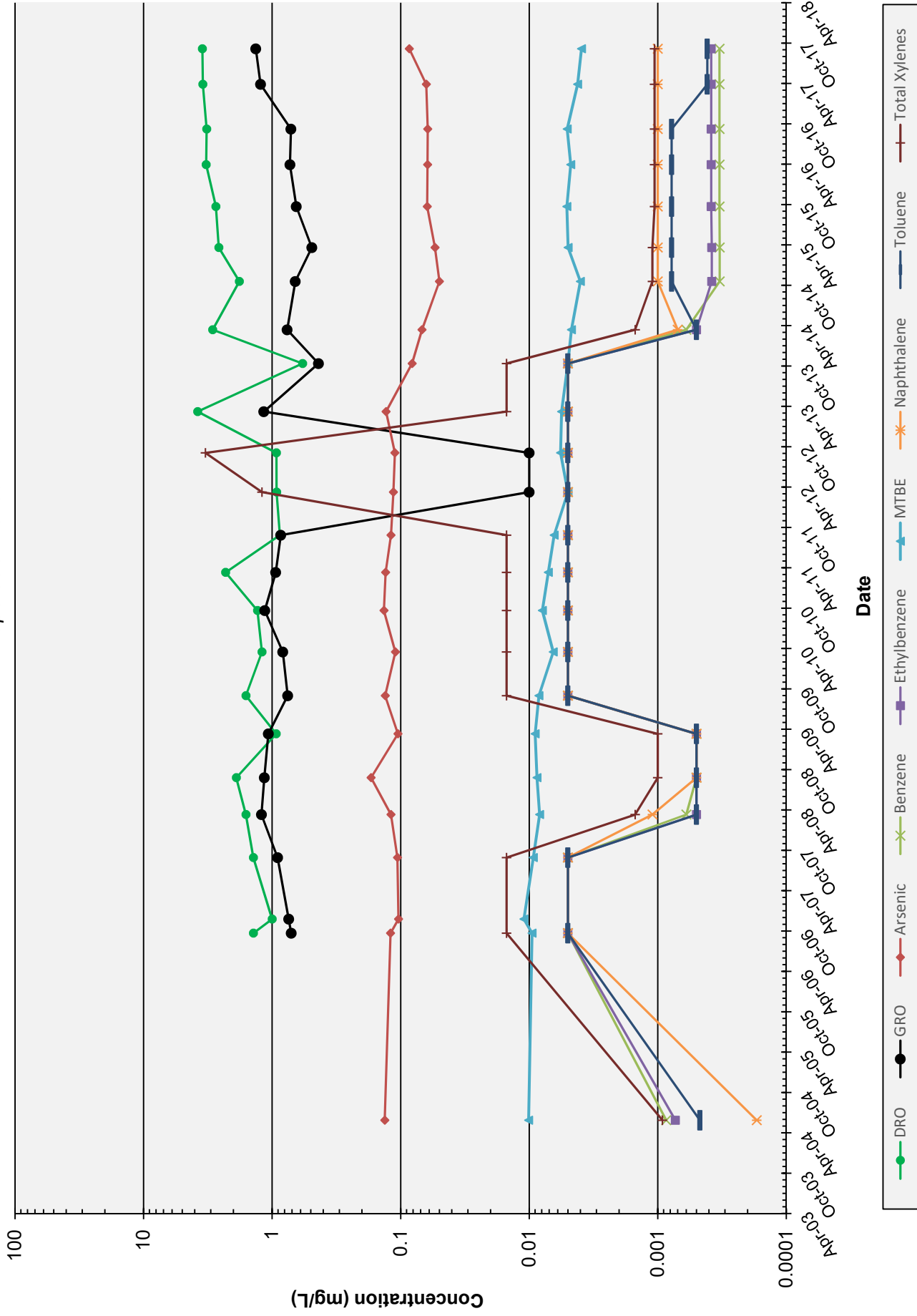
OCD-7B: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds

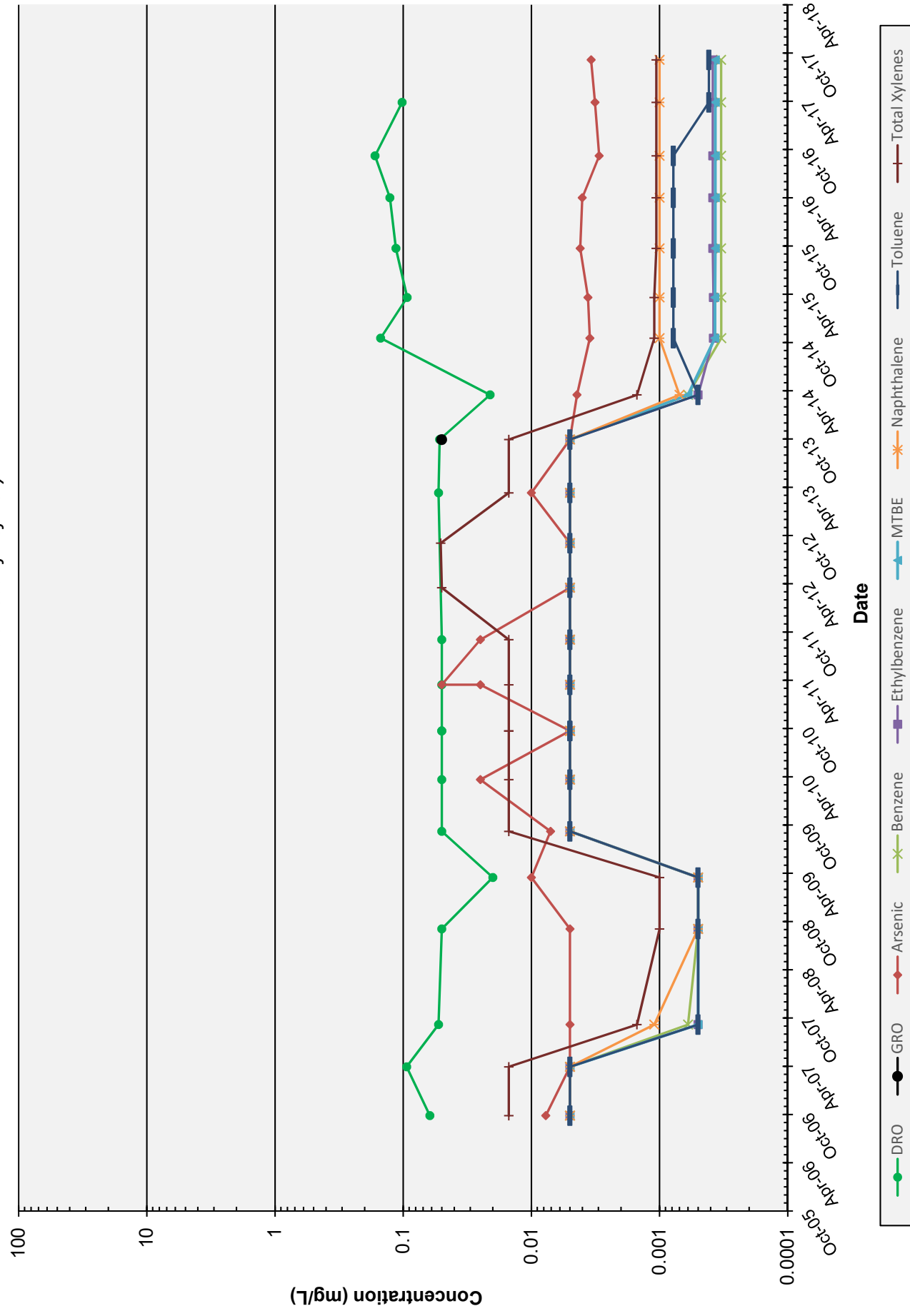


OCD-8A: COC Concentrations

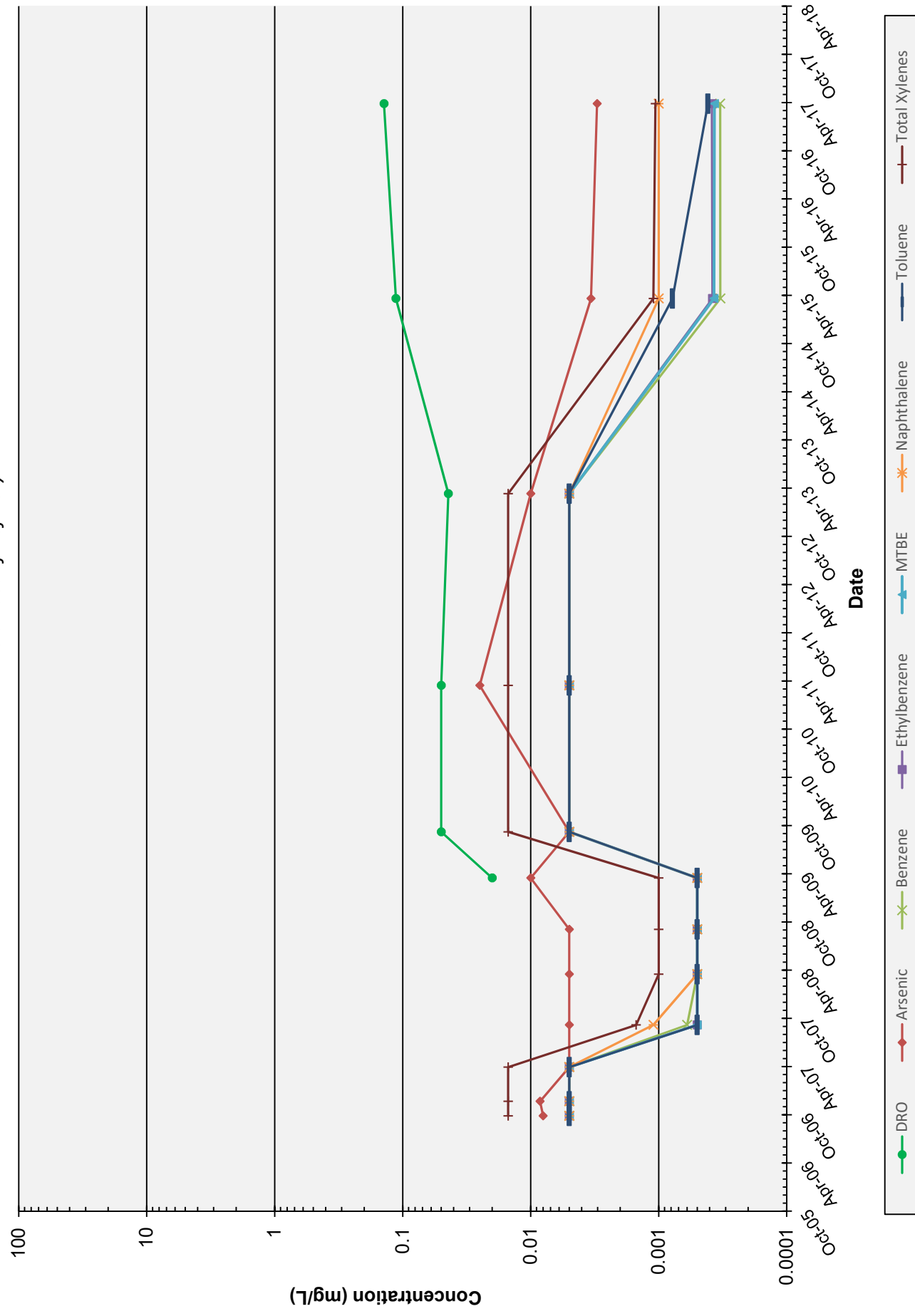
HollyFrontier Navajo Refining LLC - Artesia Refinery
Evaporation Ponds



HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery

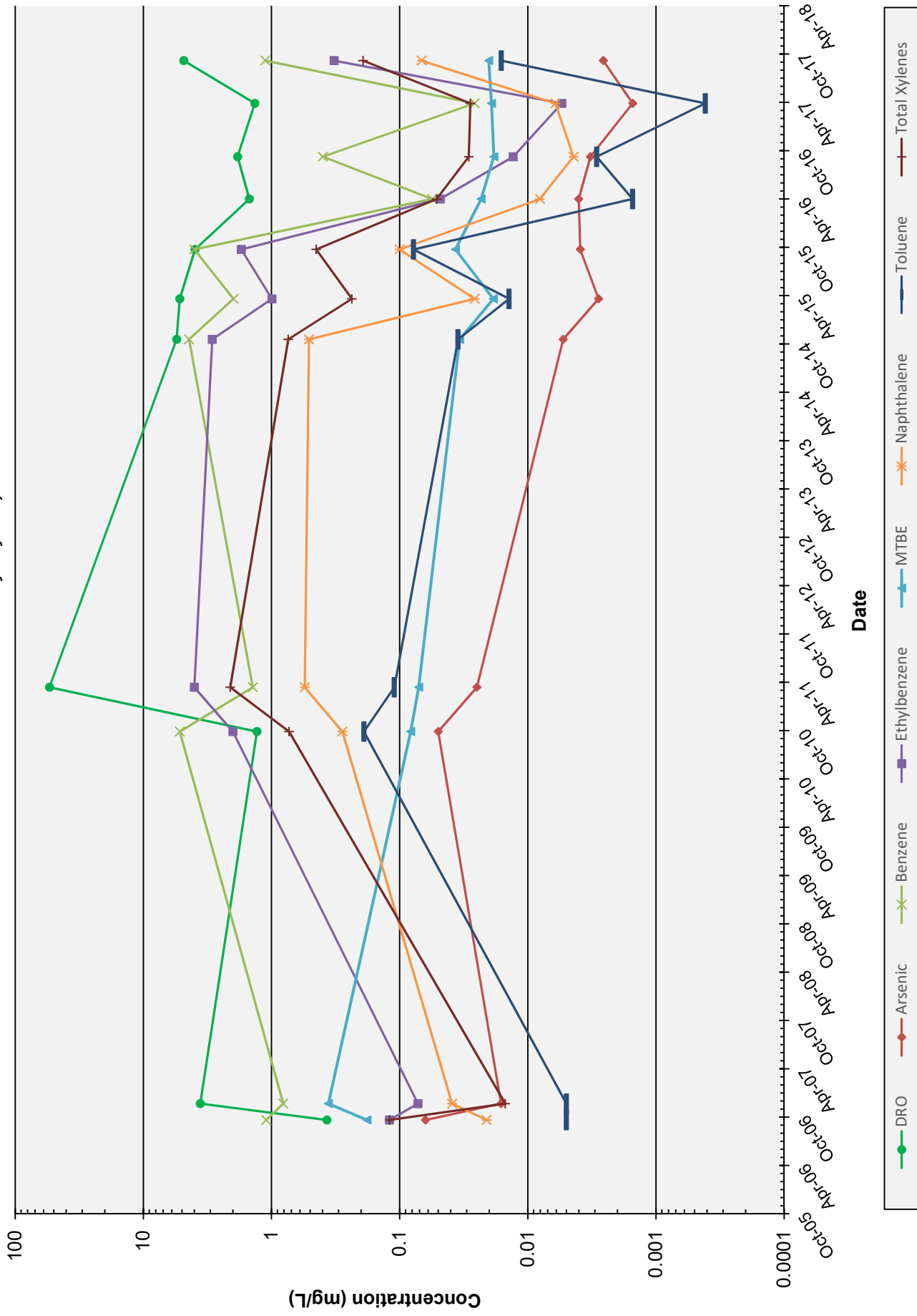


HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



KWB-2R: COC Concentrations

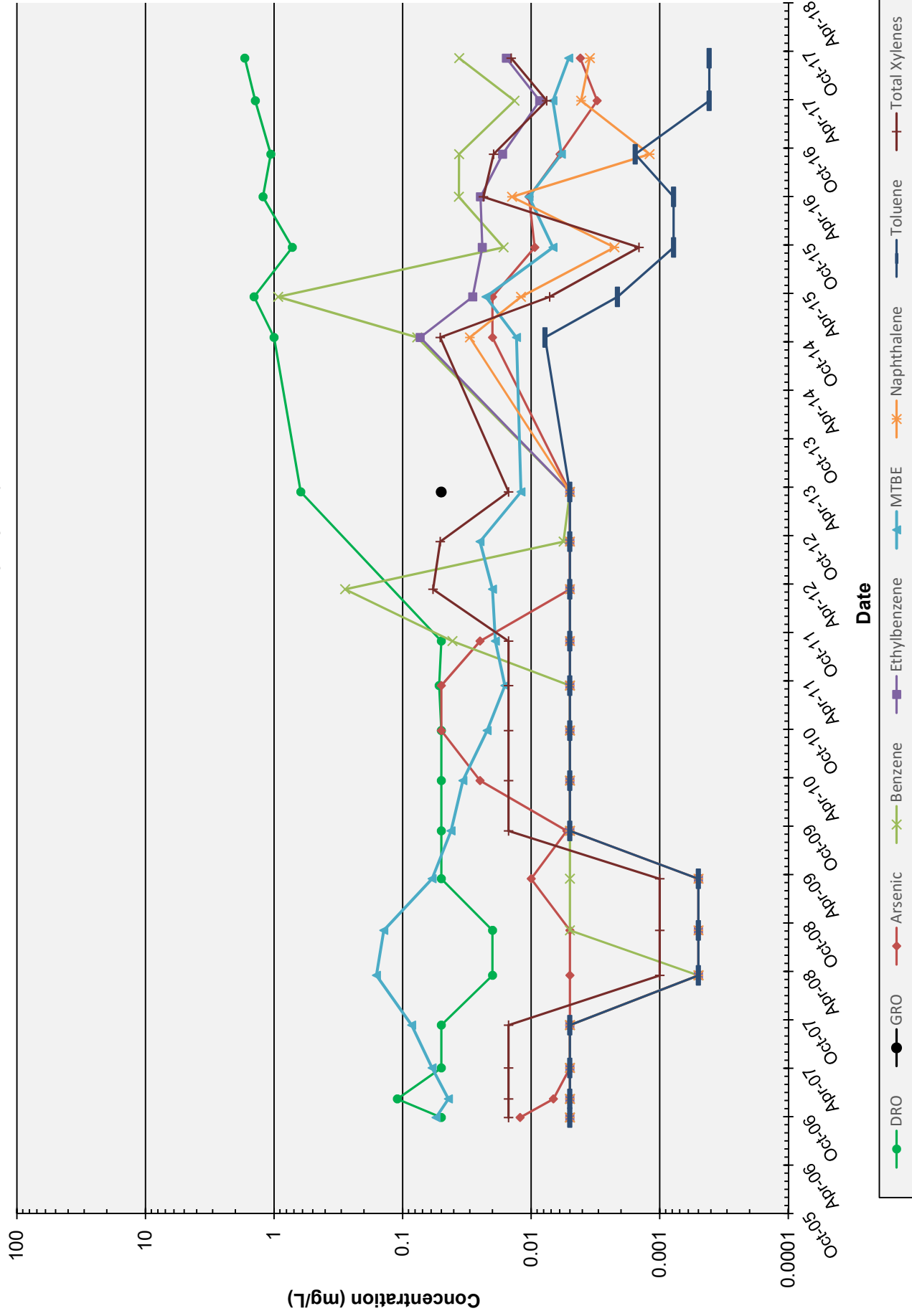
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



KWB-7: COC Concentrations

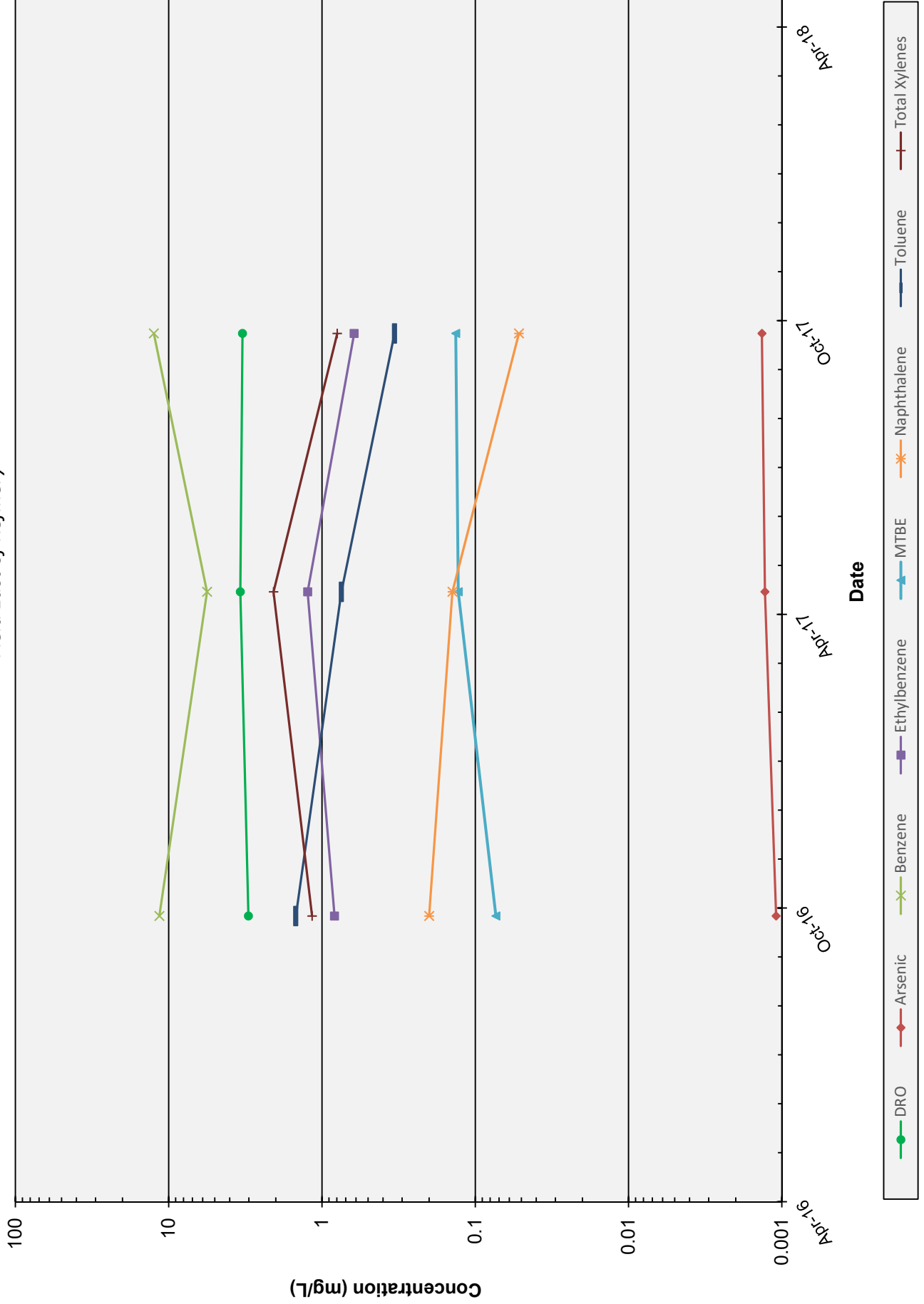
HollyFrontier Navajo Refining LLC - Artesia Refinery

Field East of Refinery

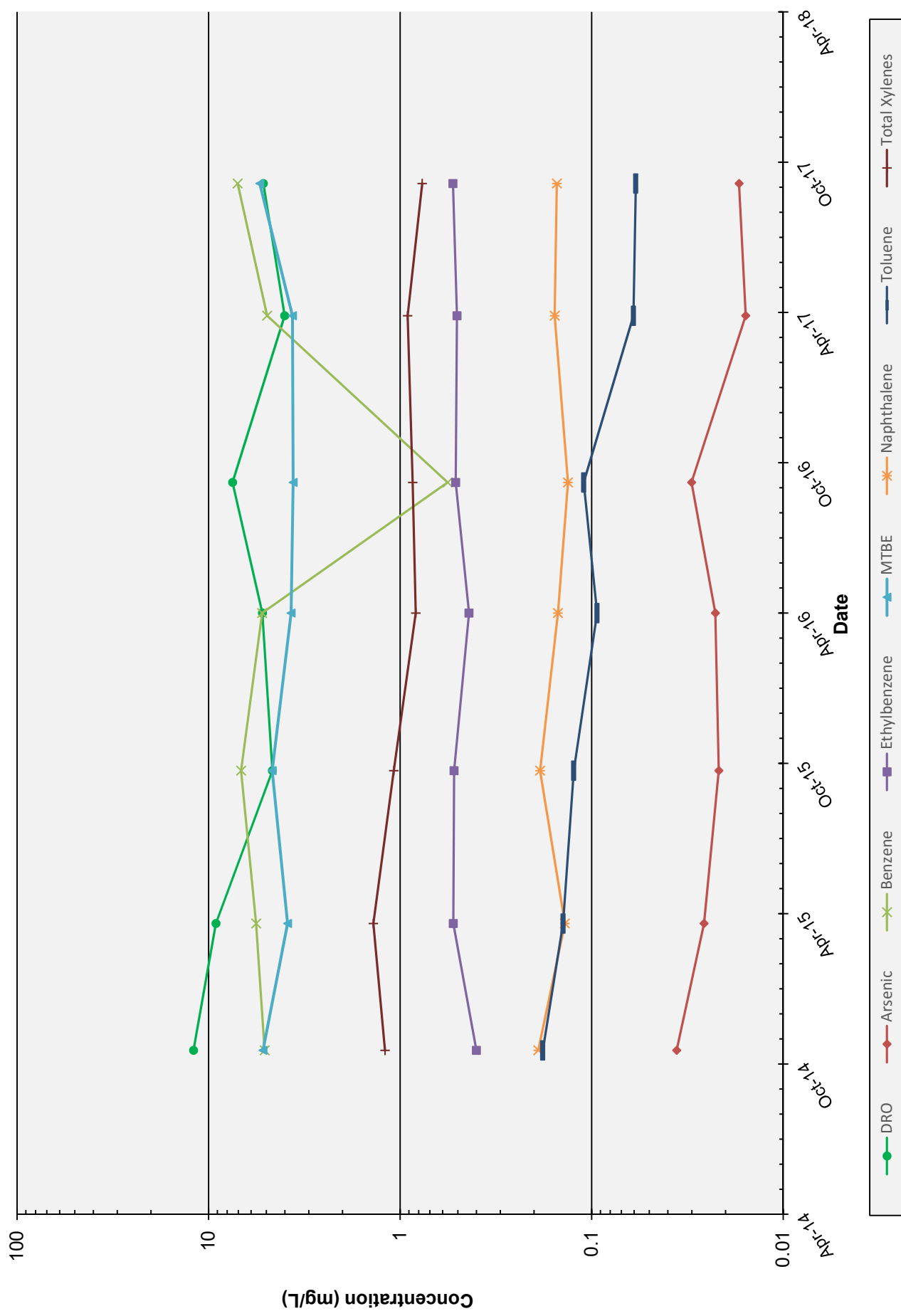


KWB-8: COC Concentrations

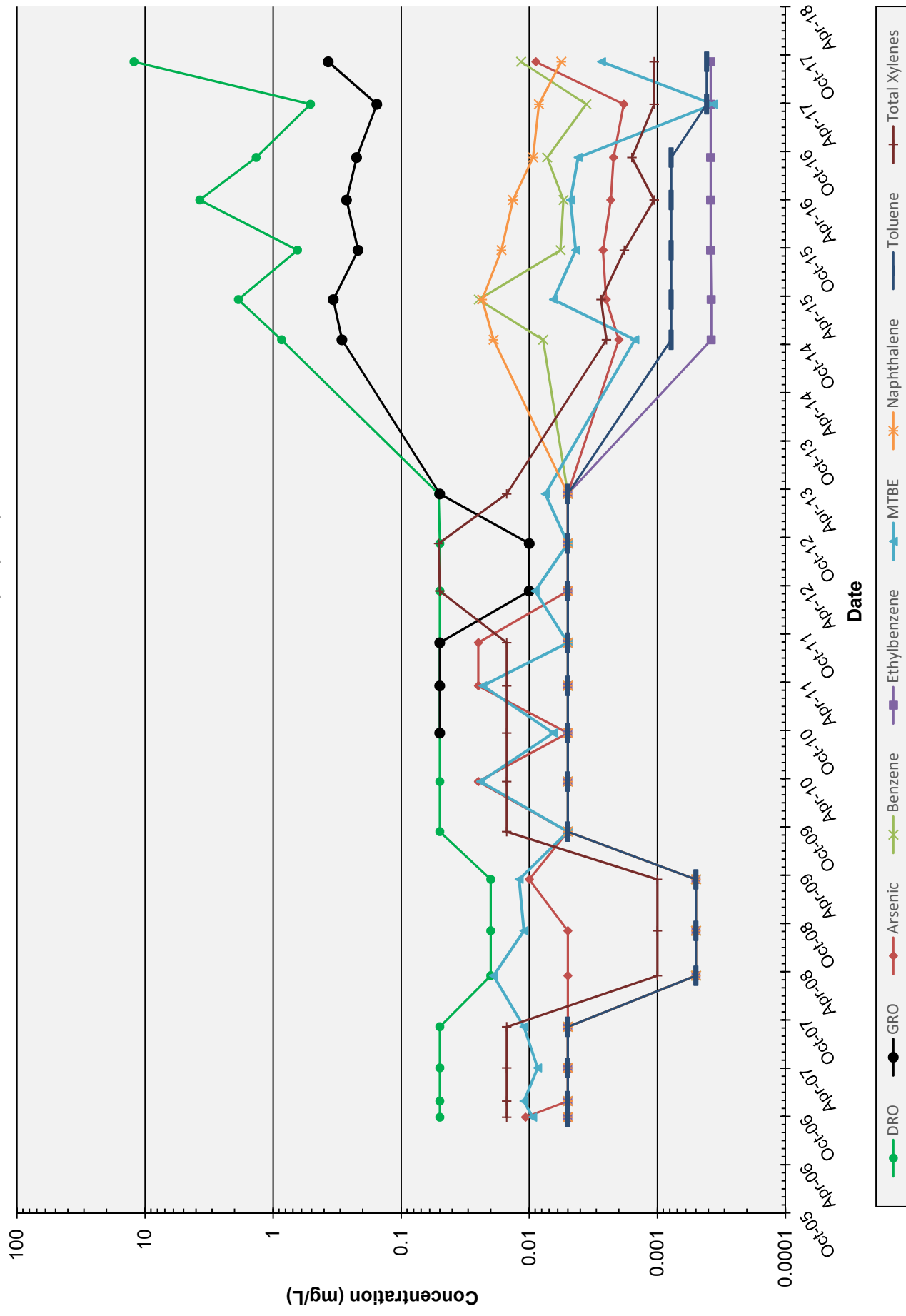
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



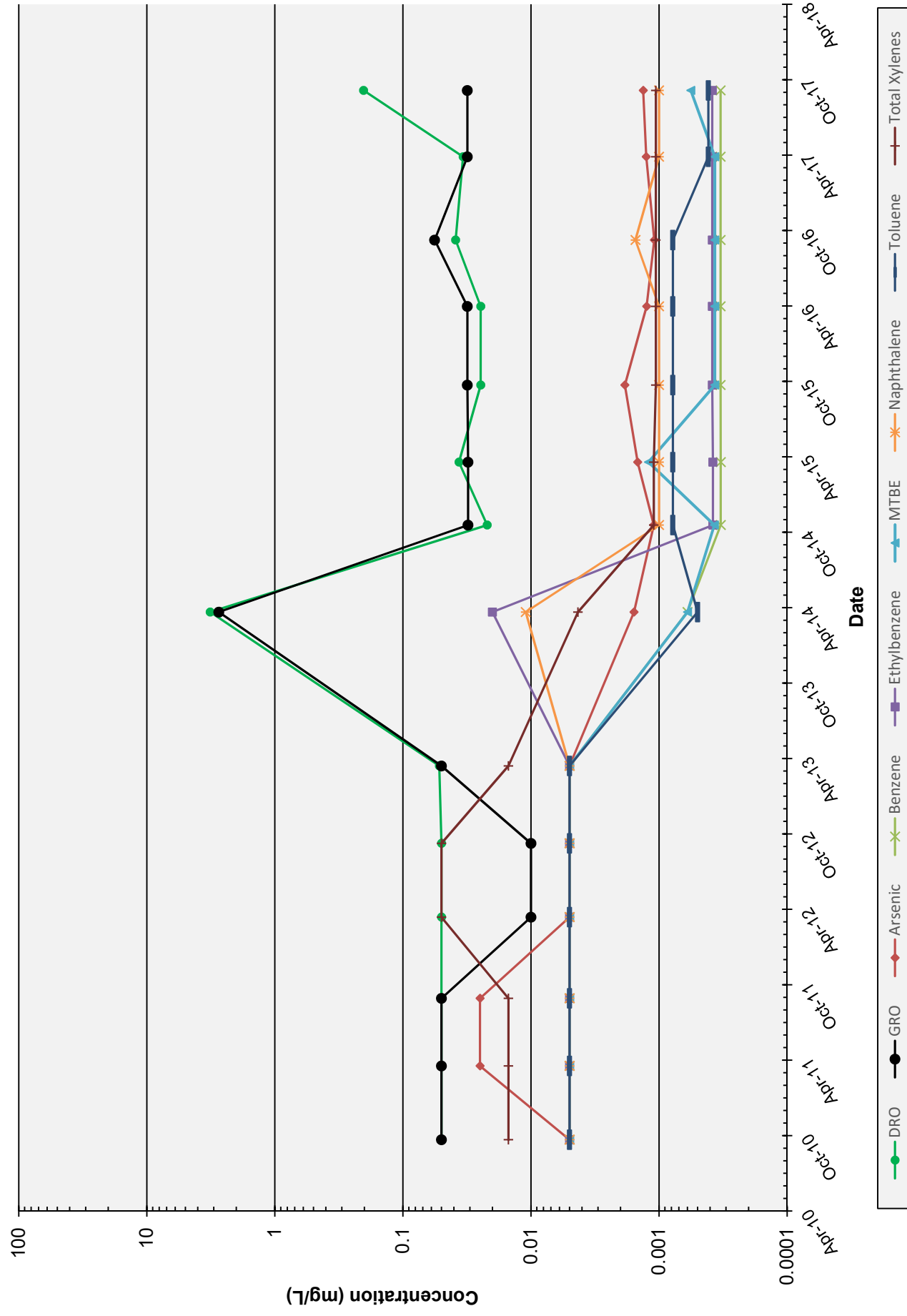
KWB-10R: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



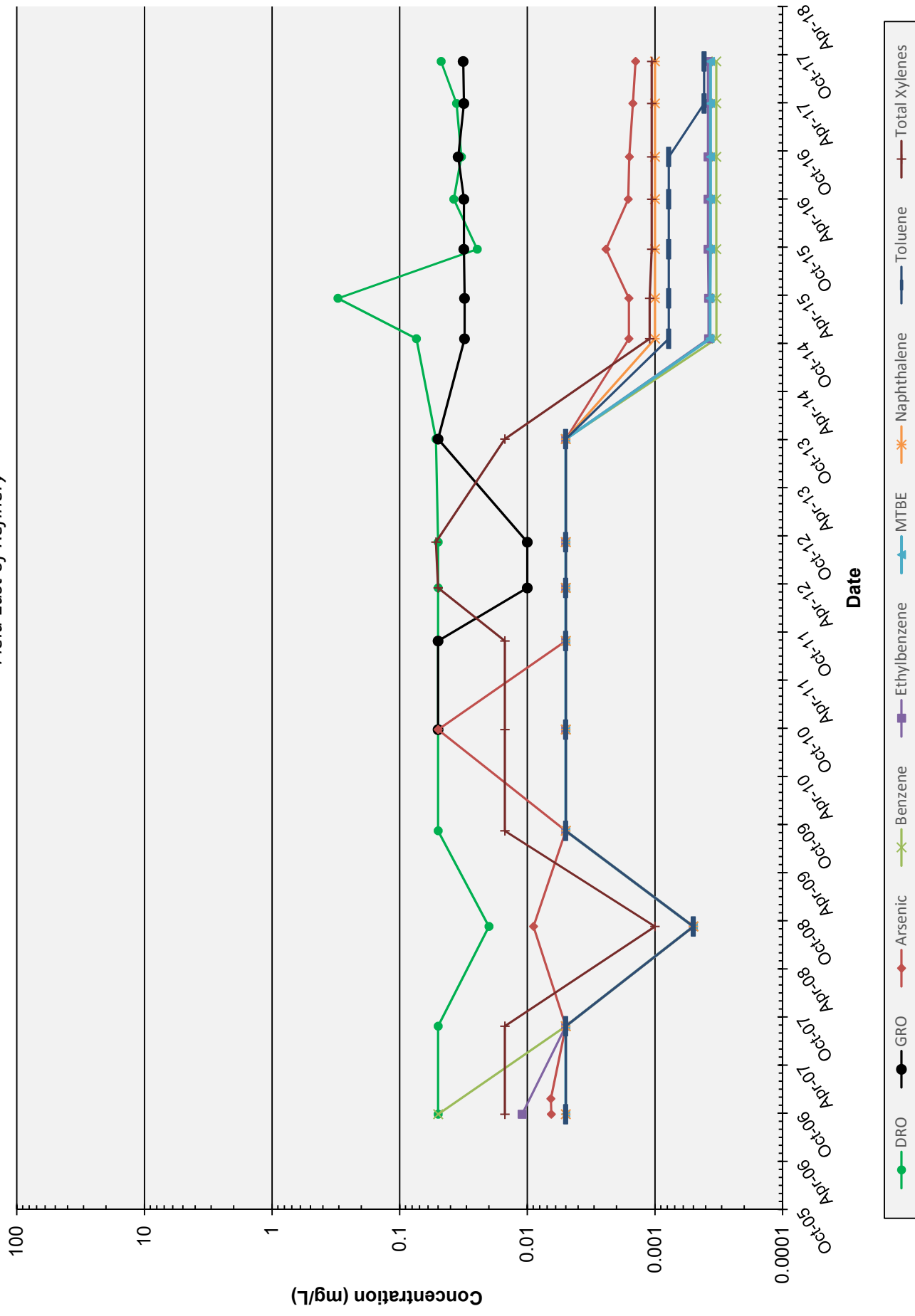
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



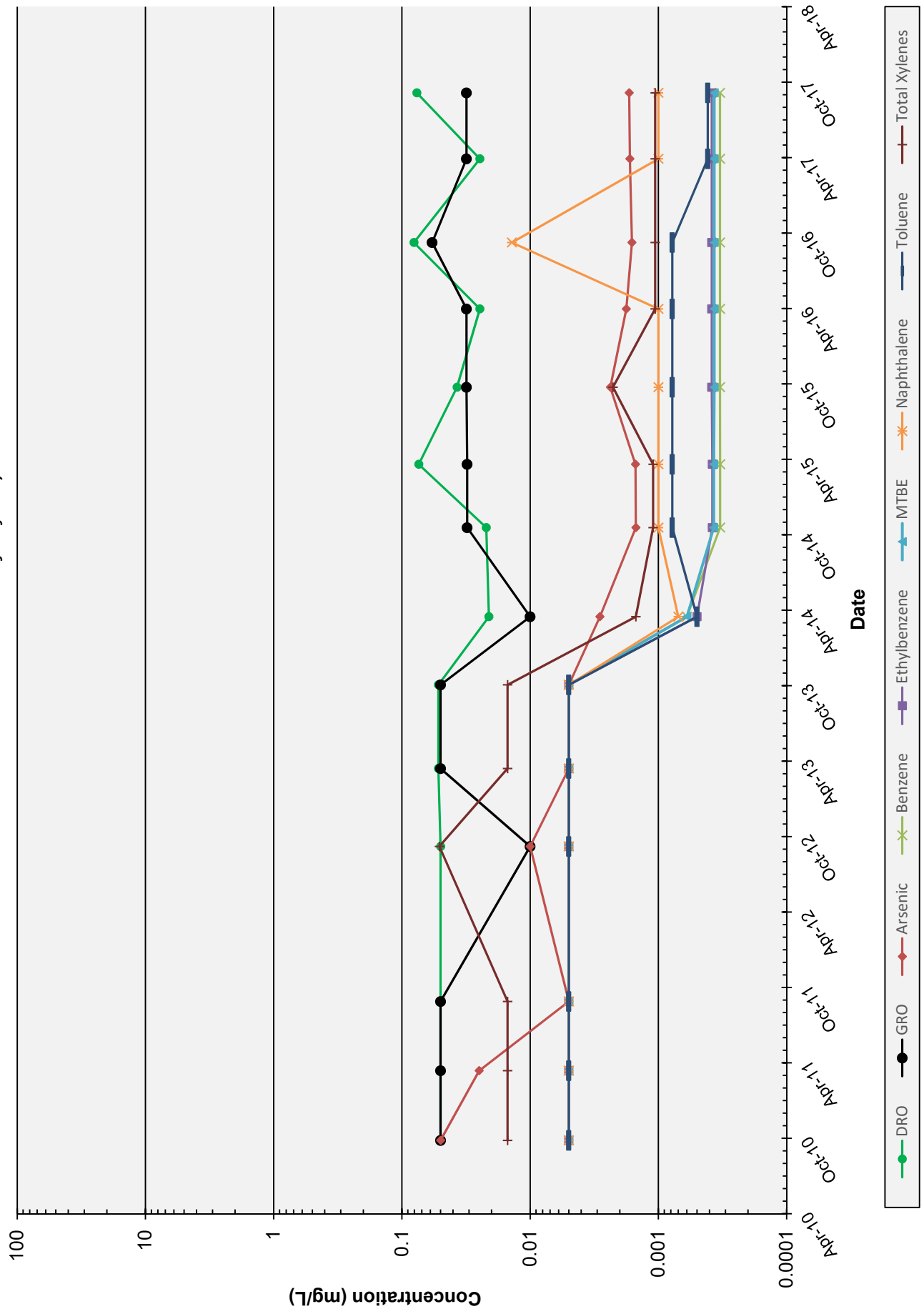
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



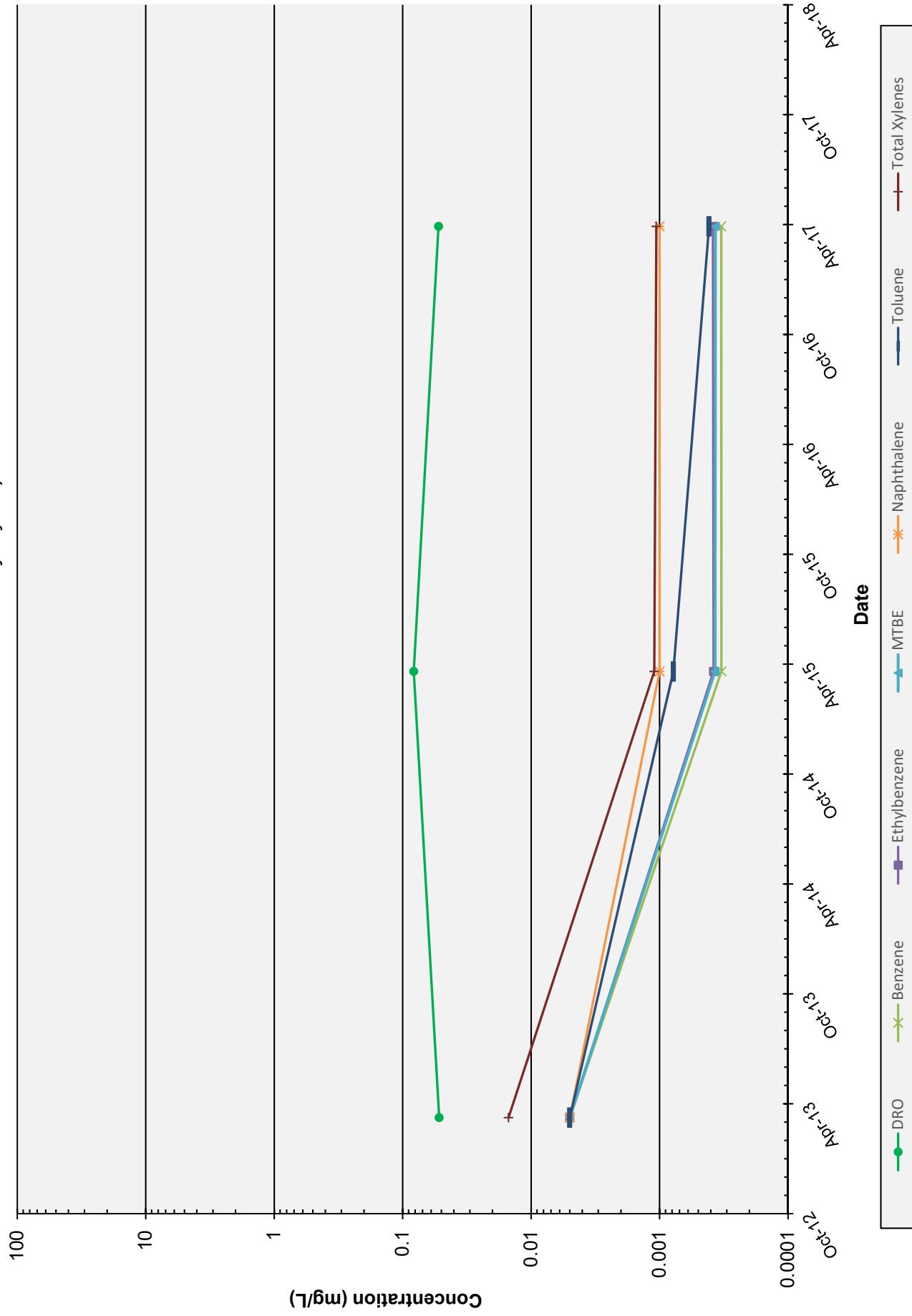
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



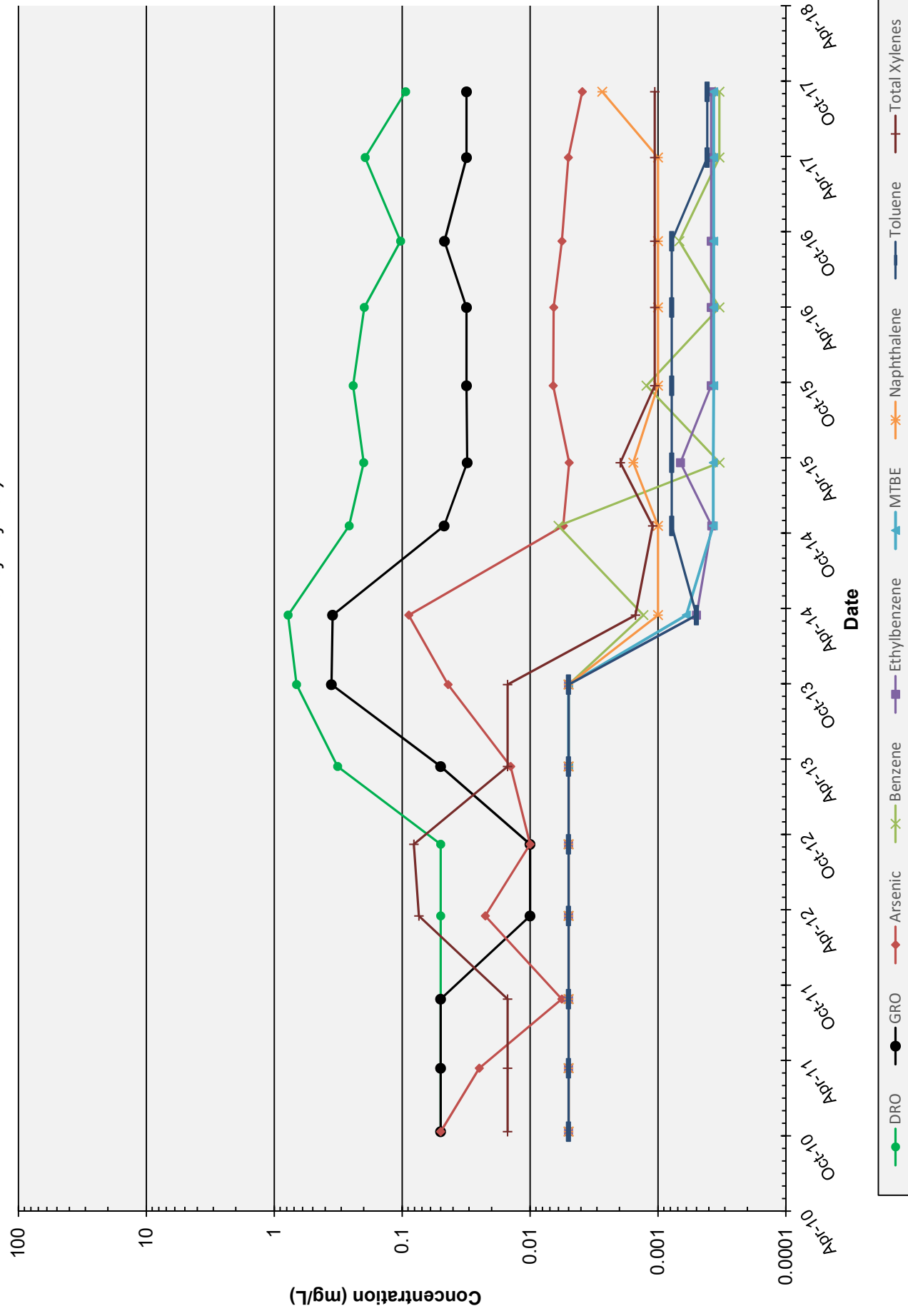
KWB-12B: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



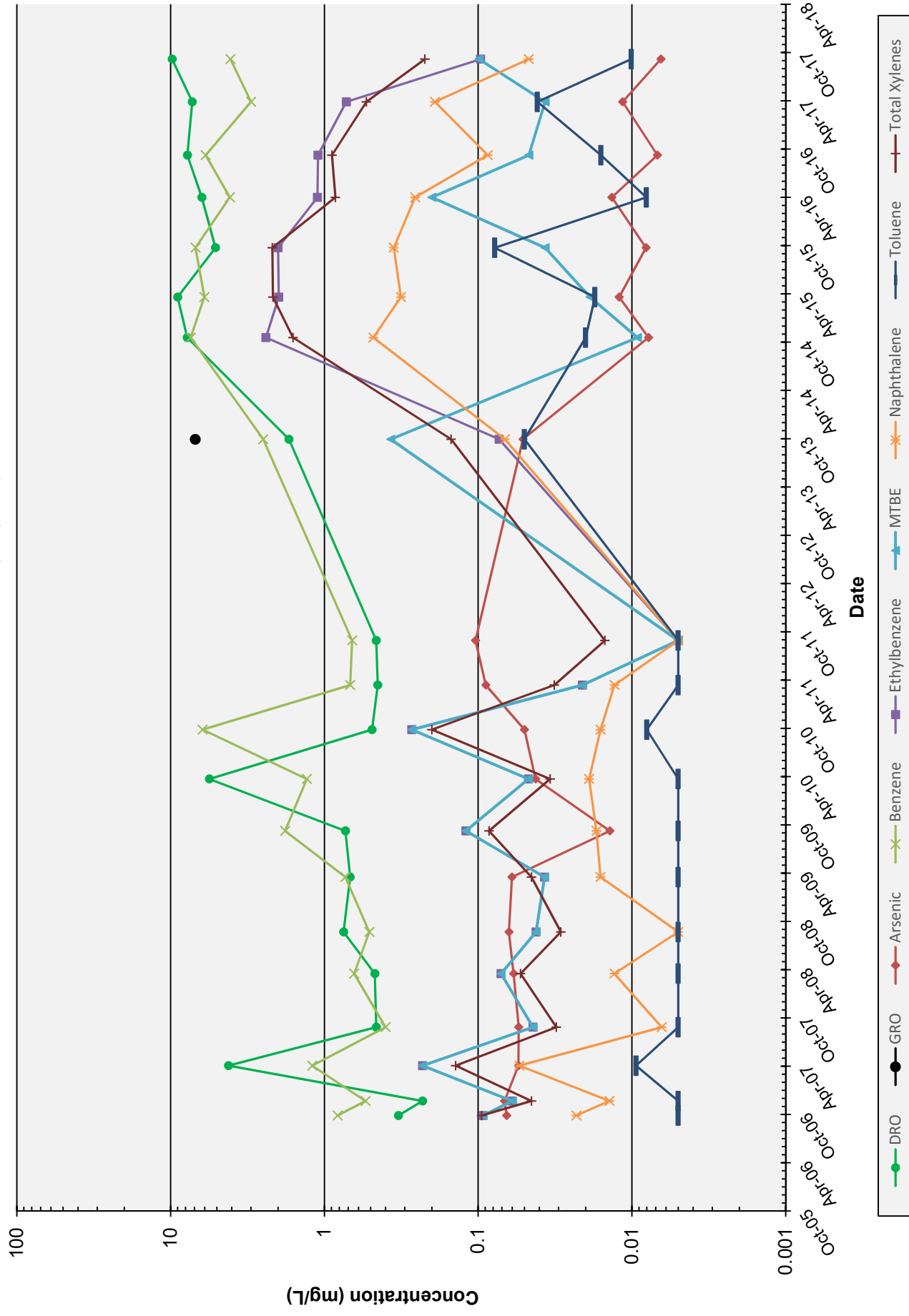
KWB-P4: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



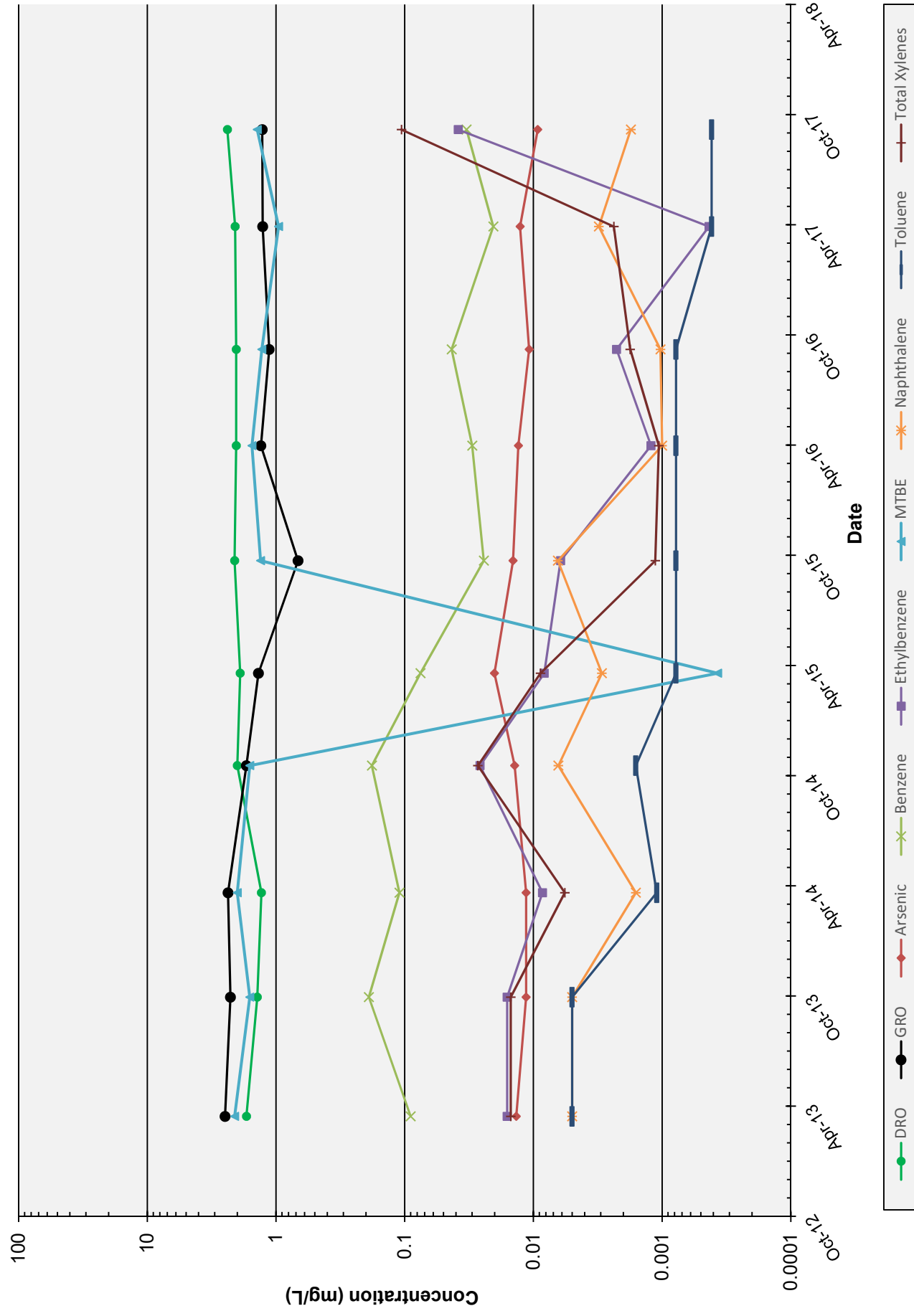
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



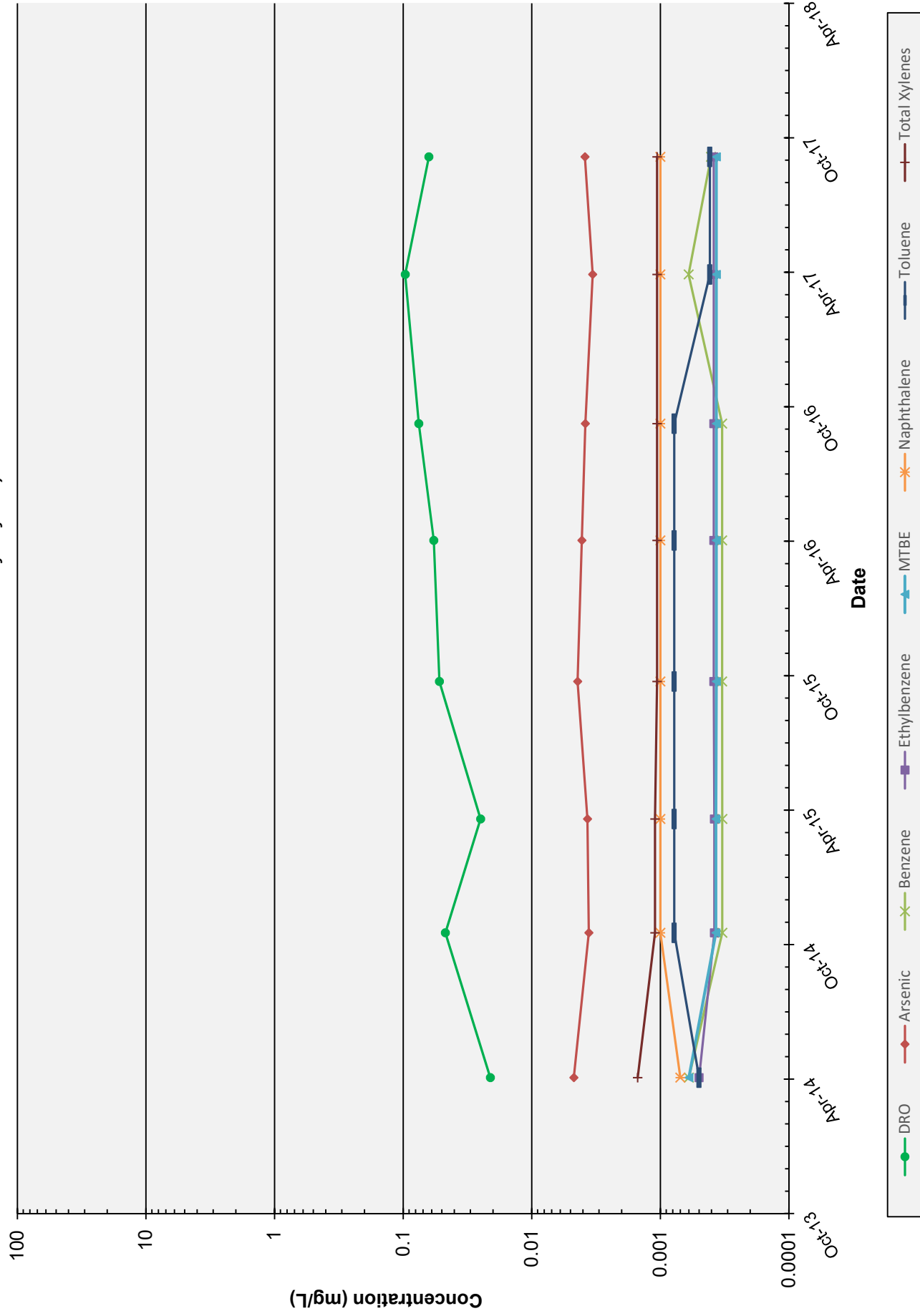
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



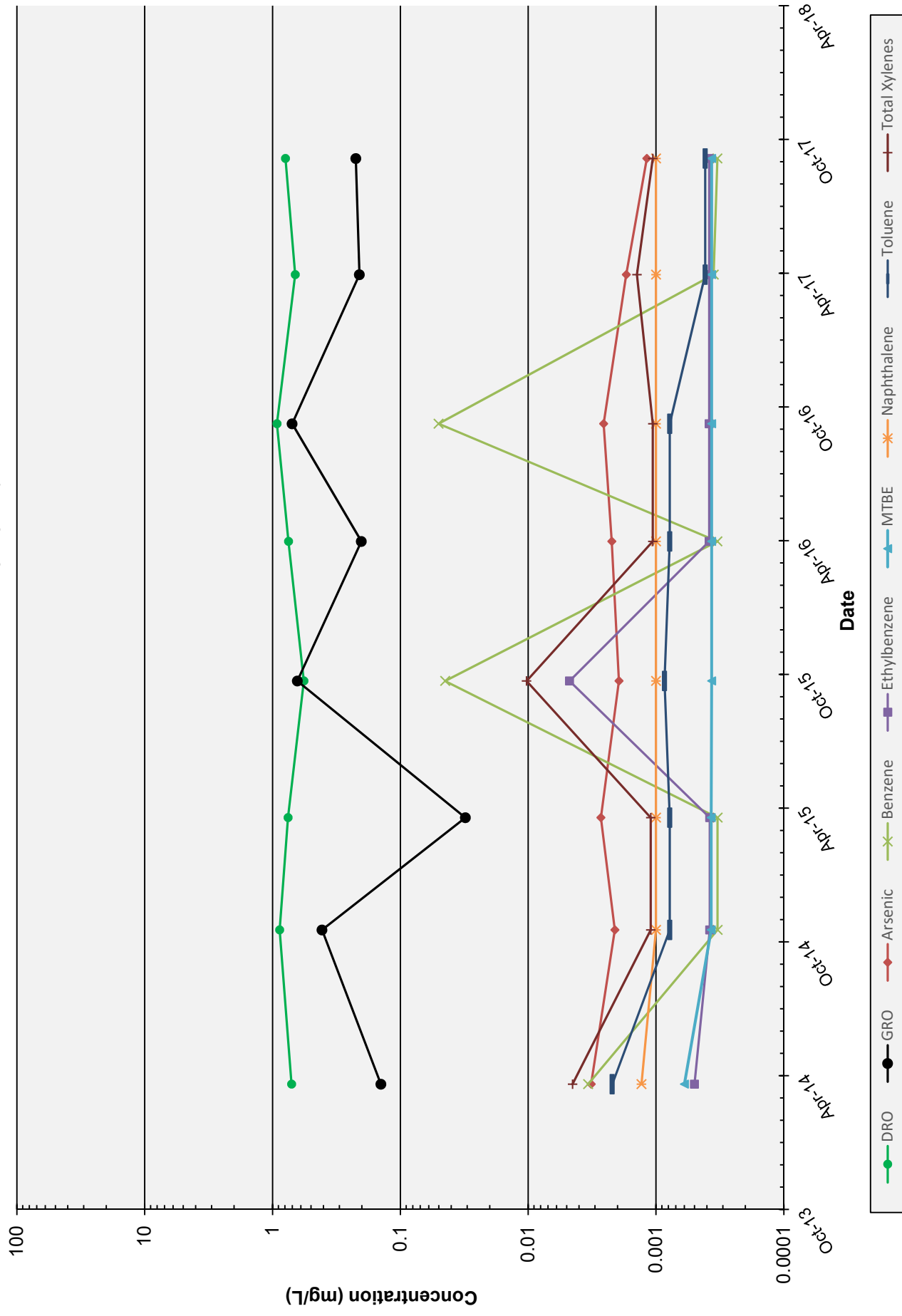
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



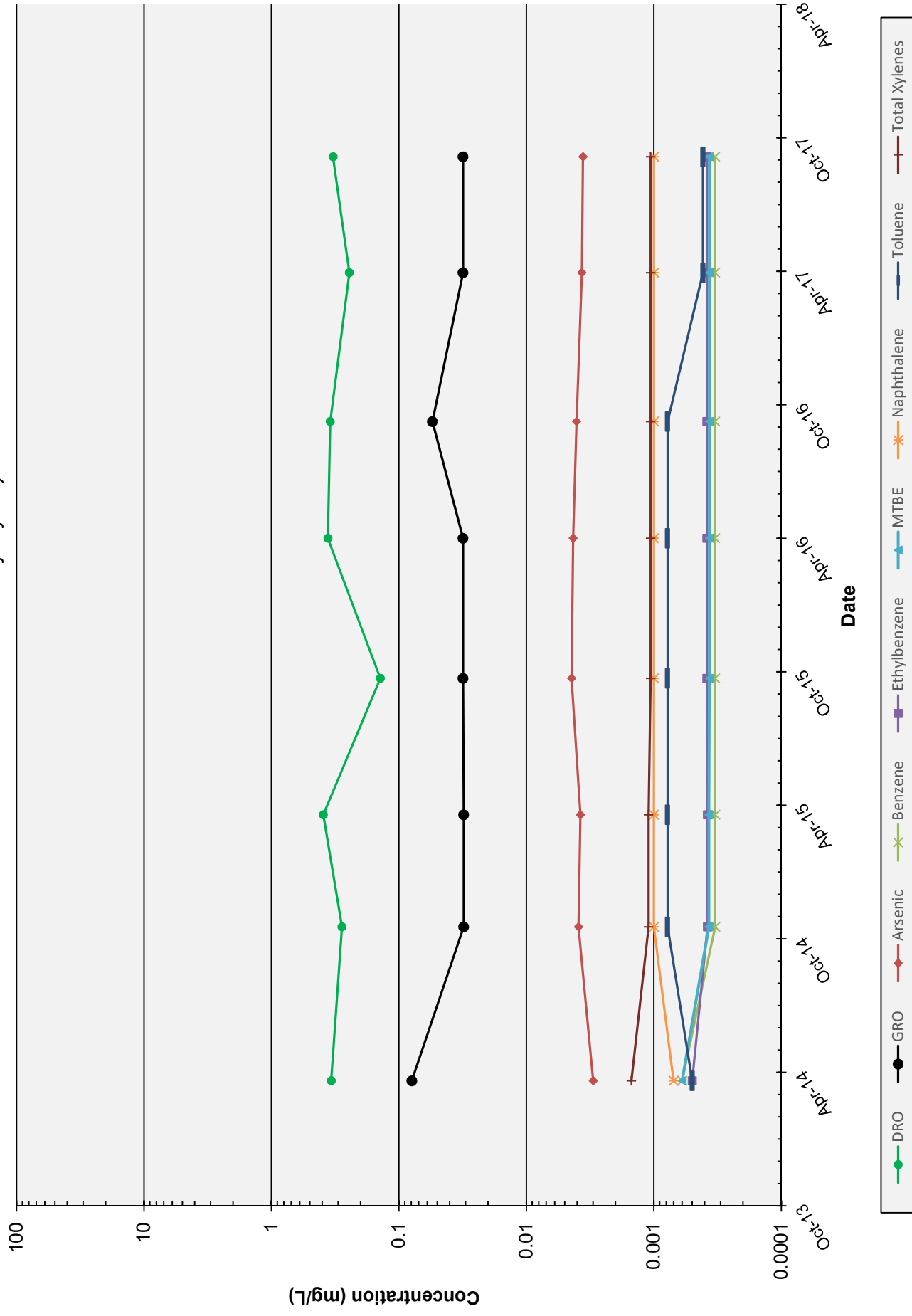
MW-125: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



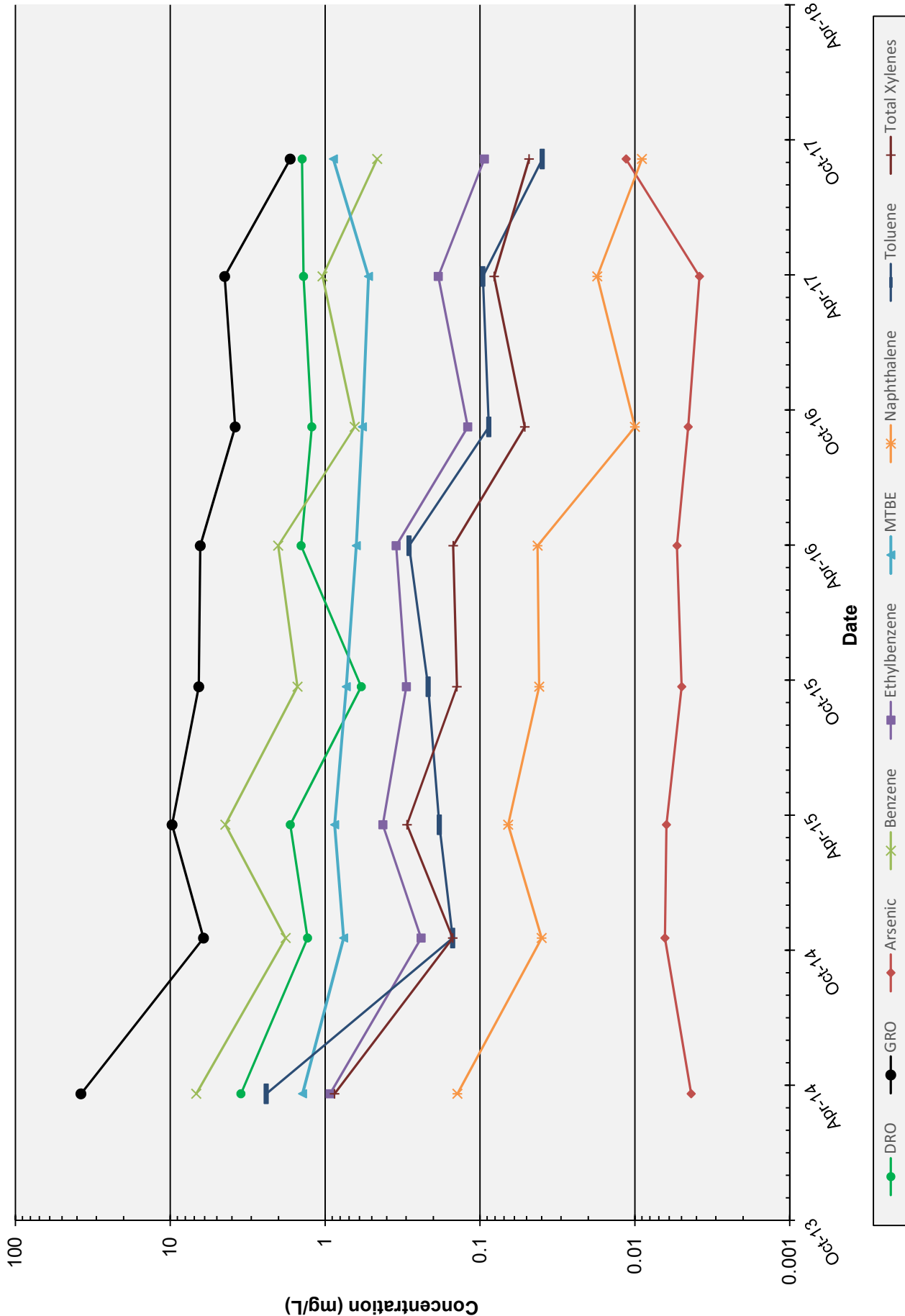
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



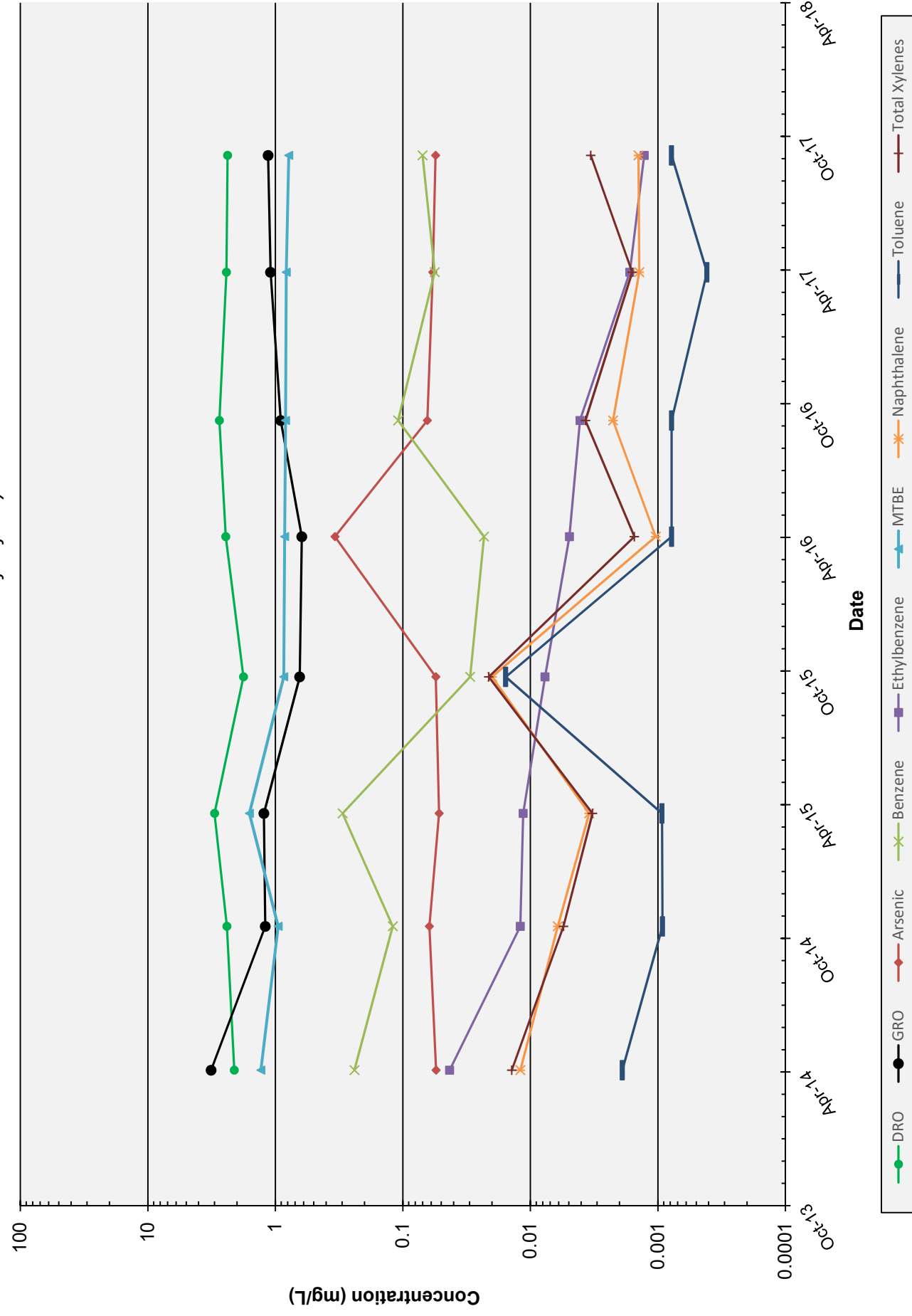
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery

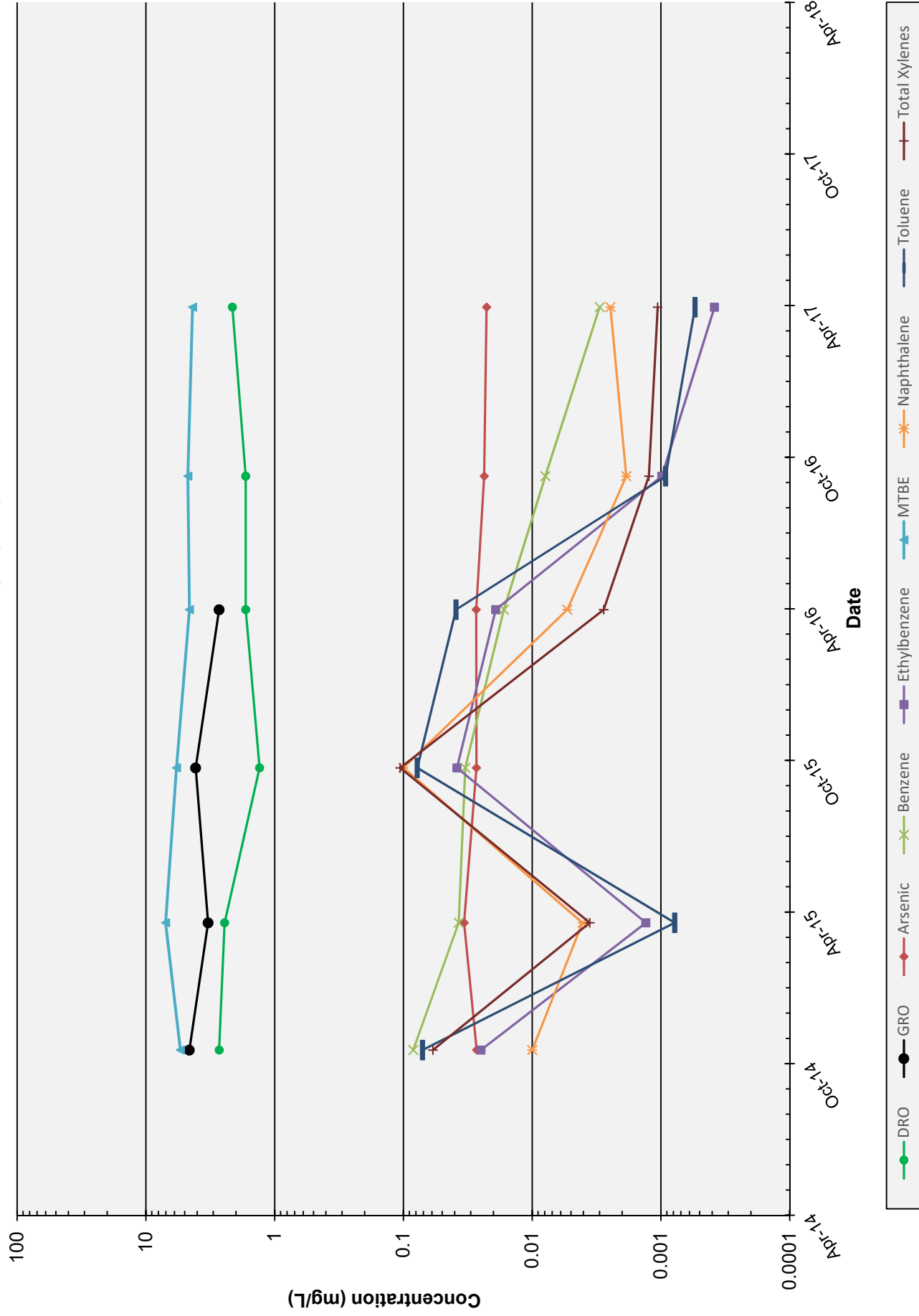


HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



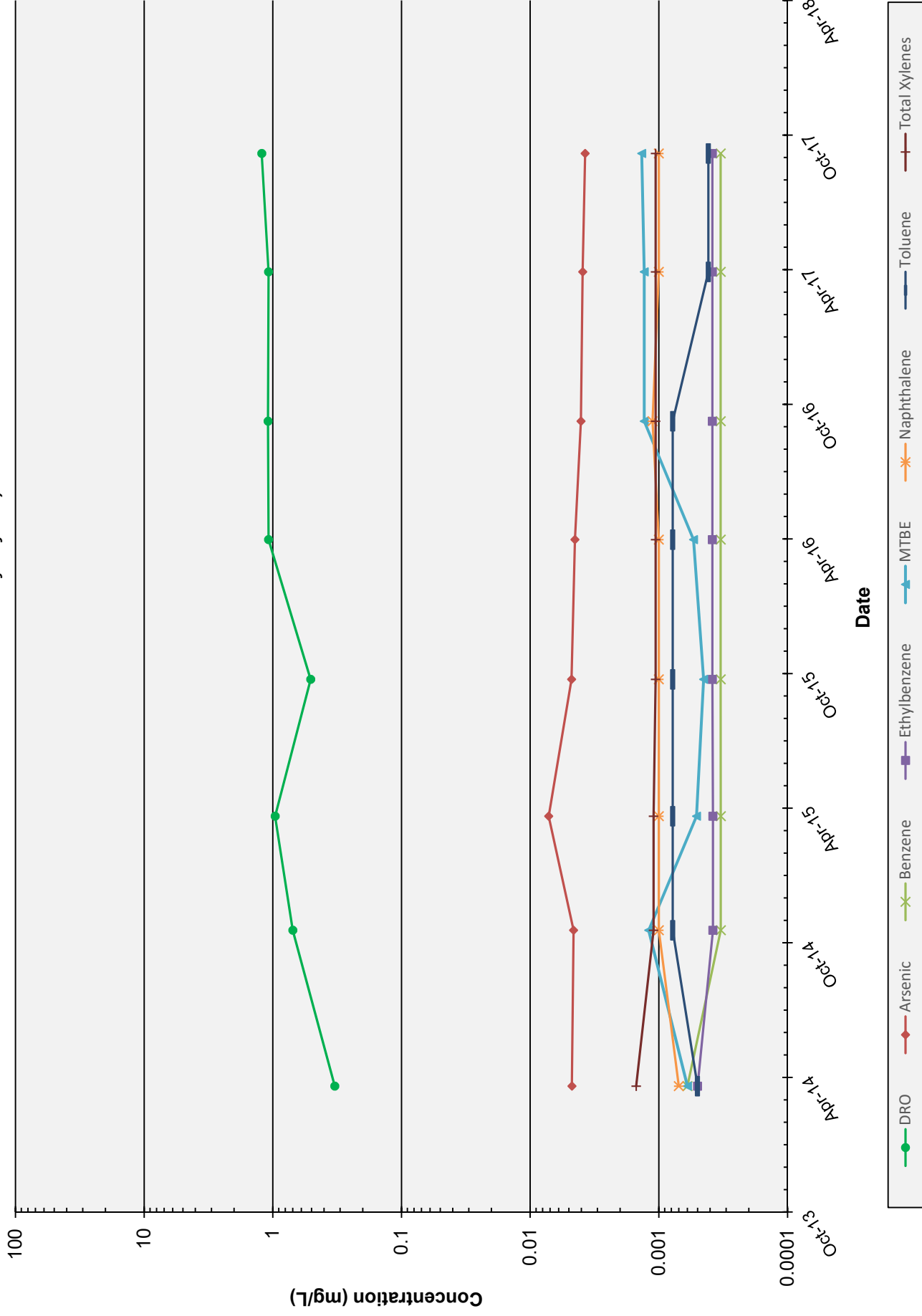
MW-129: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery

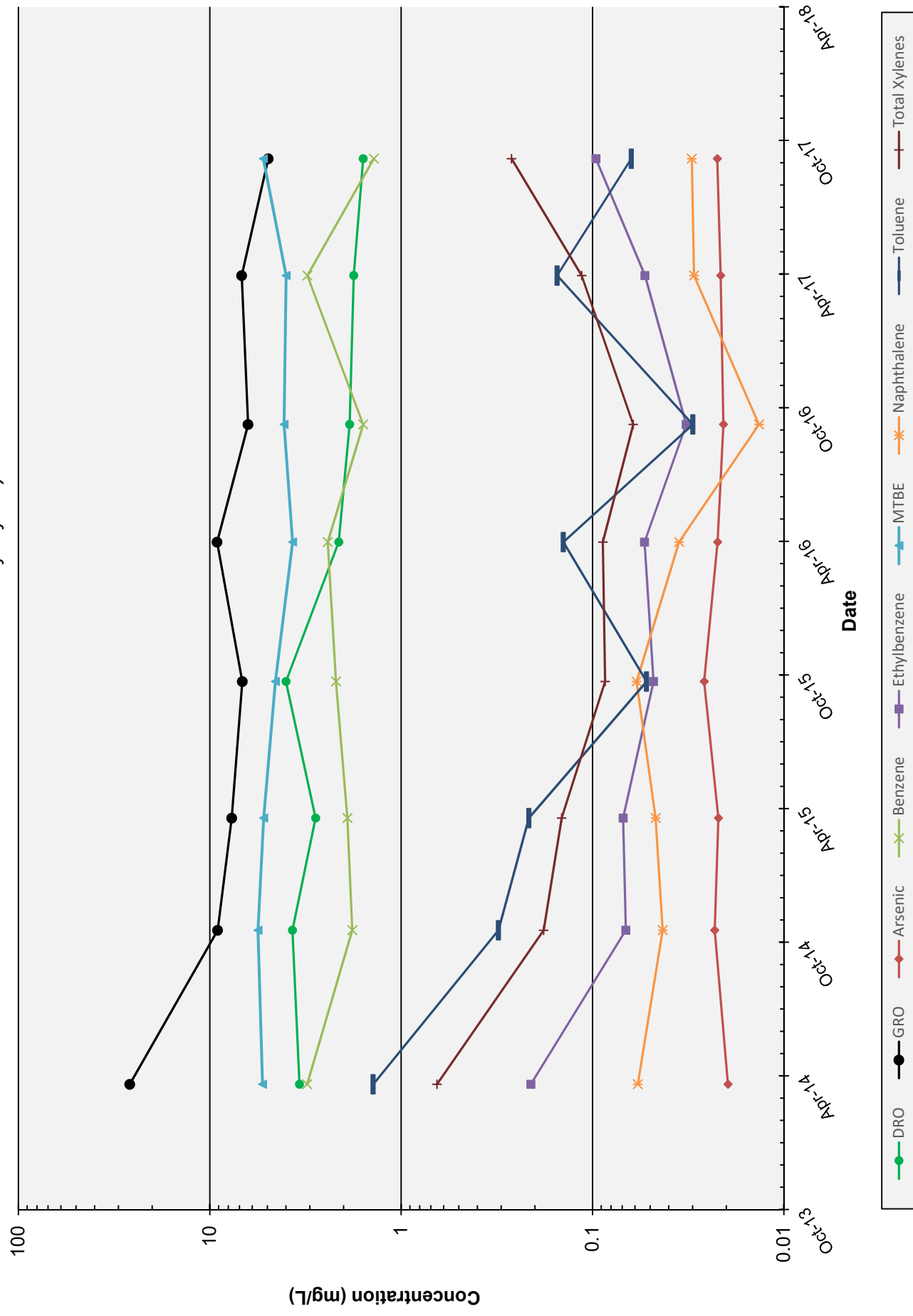


MW-130: COC Concentrations

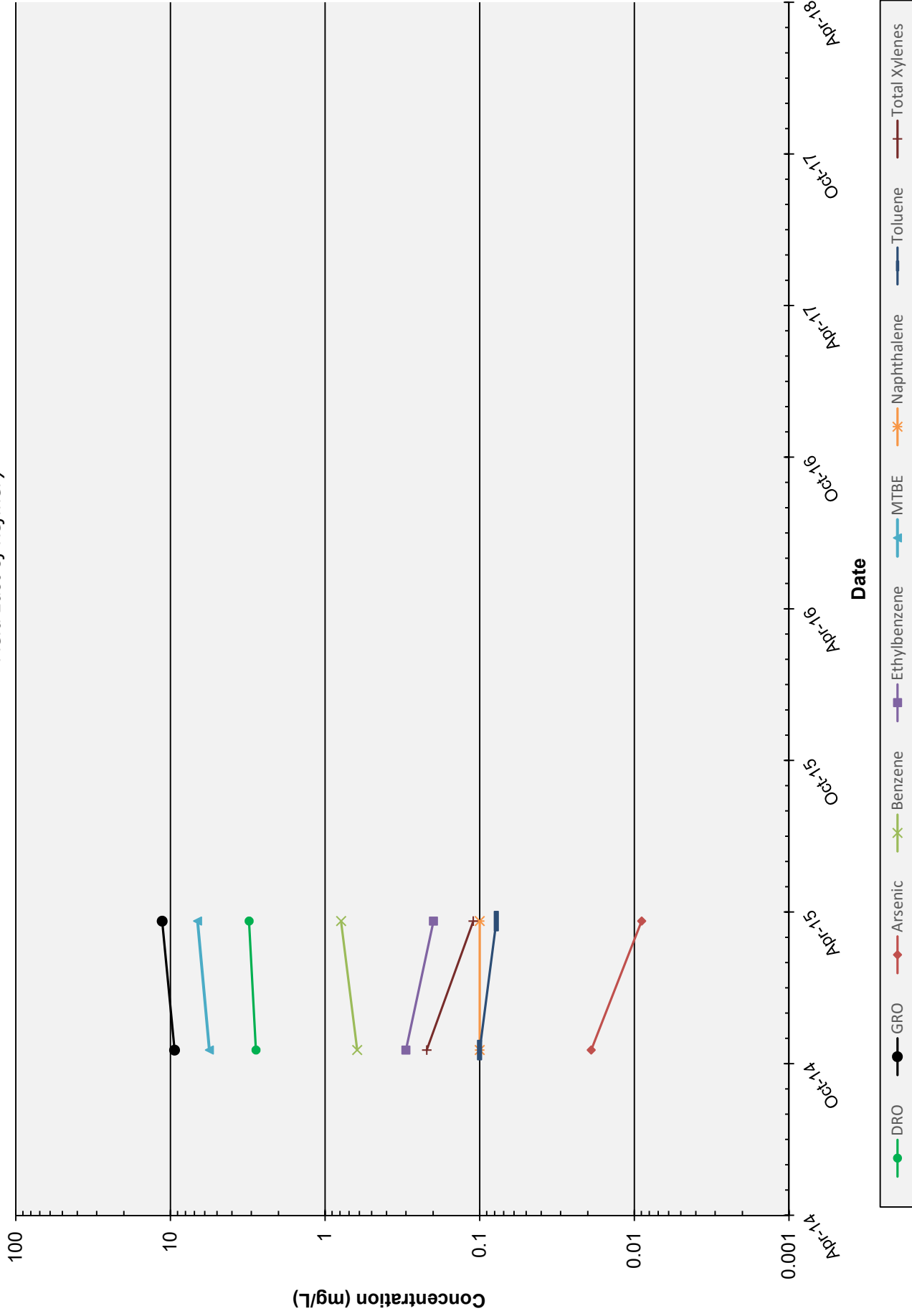
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



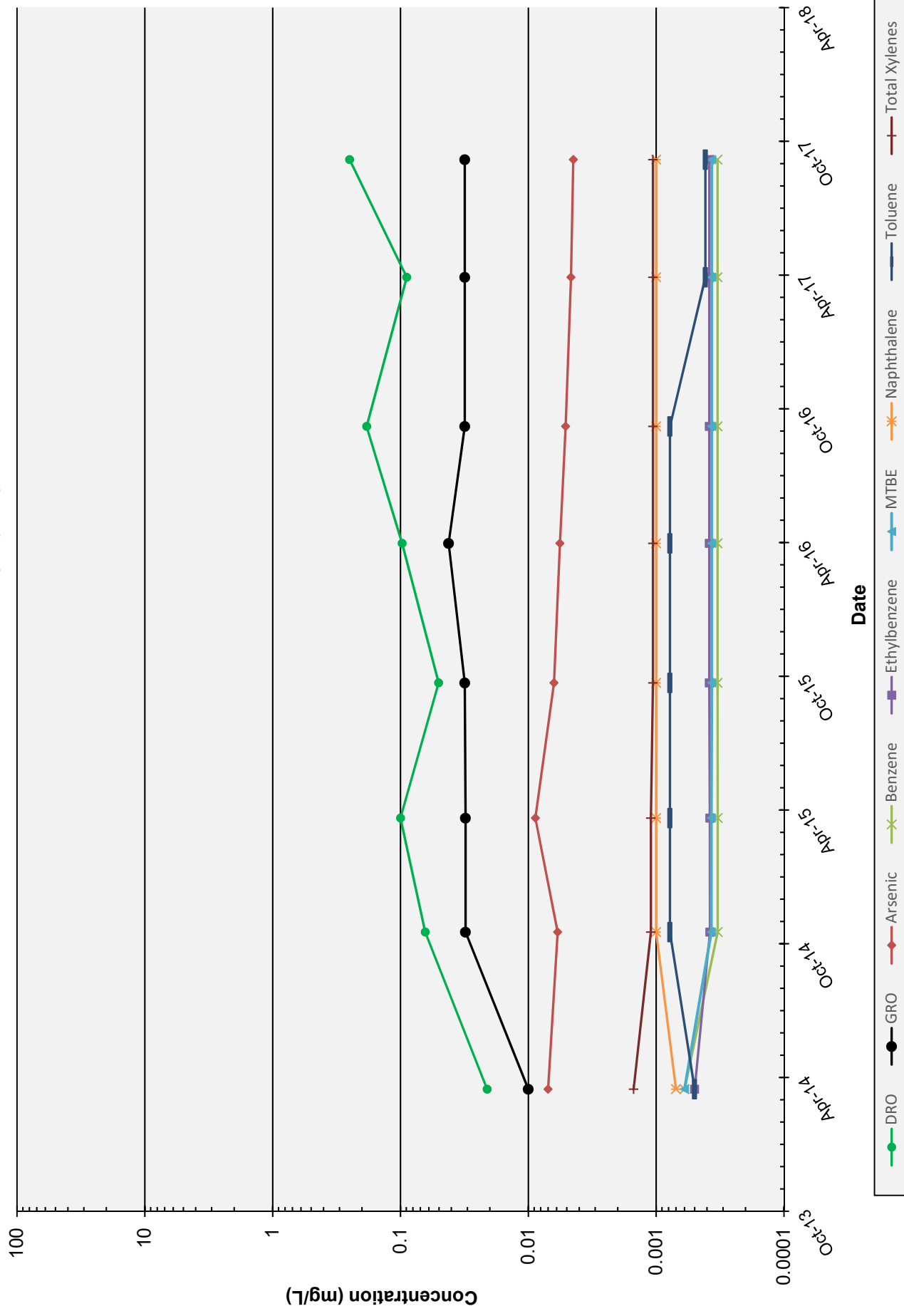
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



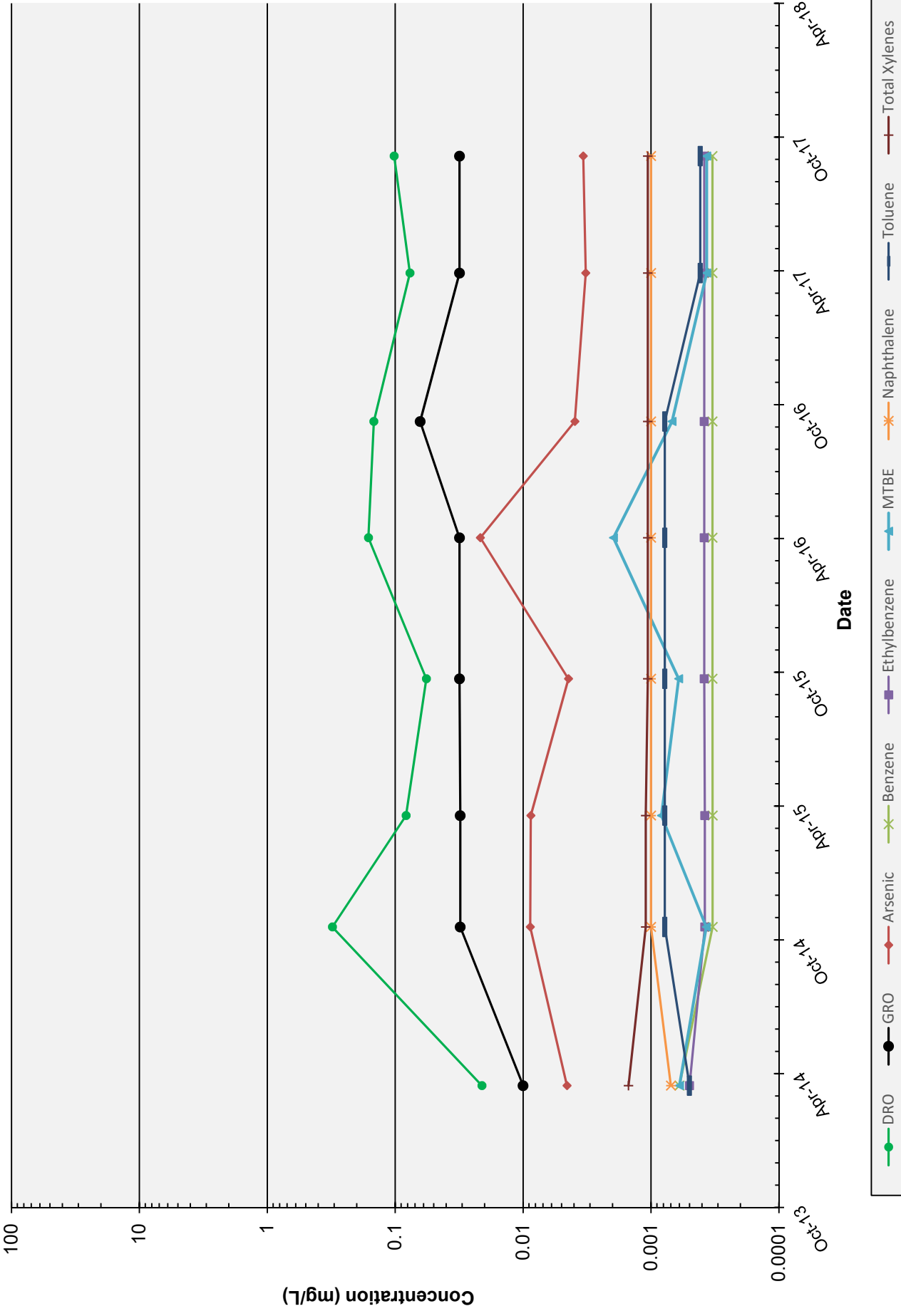
MW-133: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery

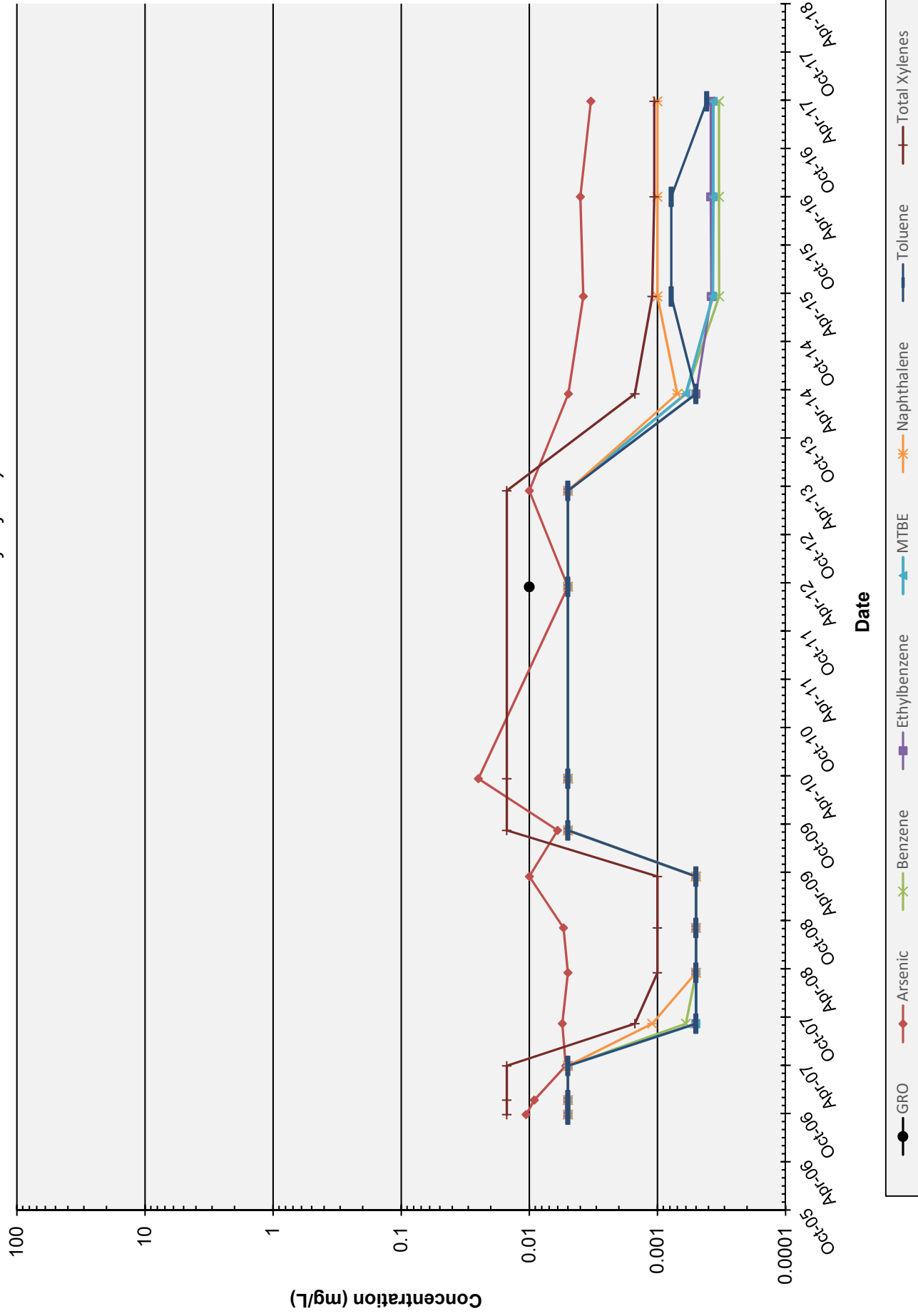


HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



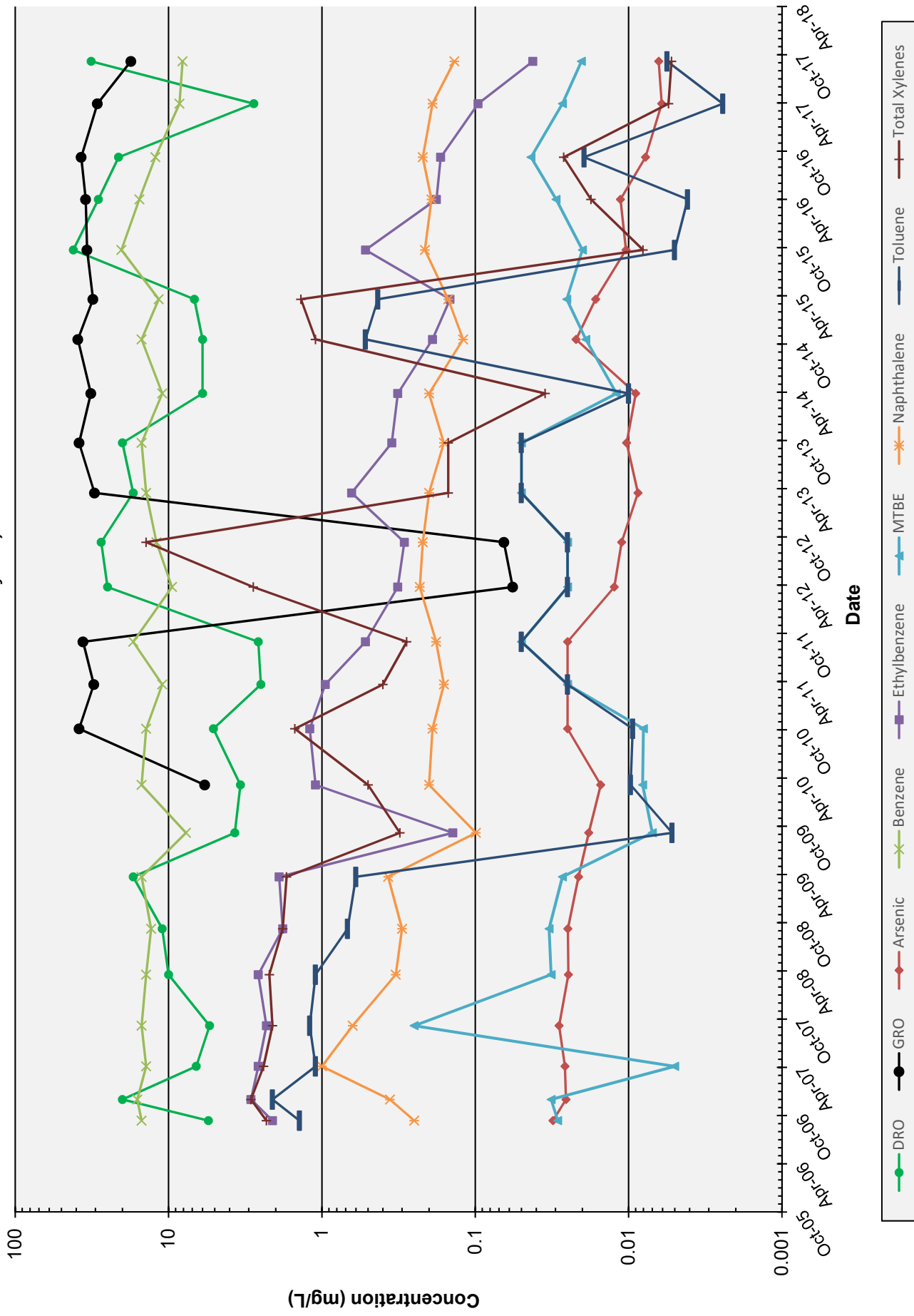
RW-18: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
Field East of Refinery



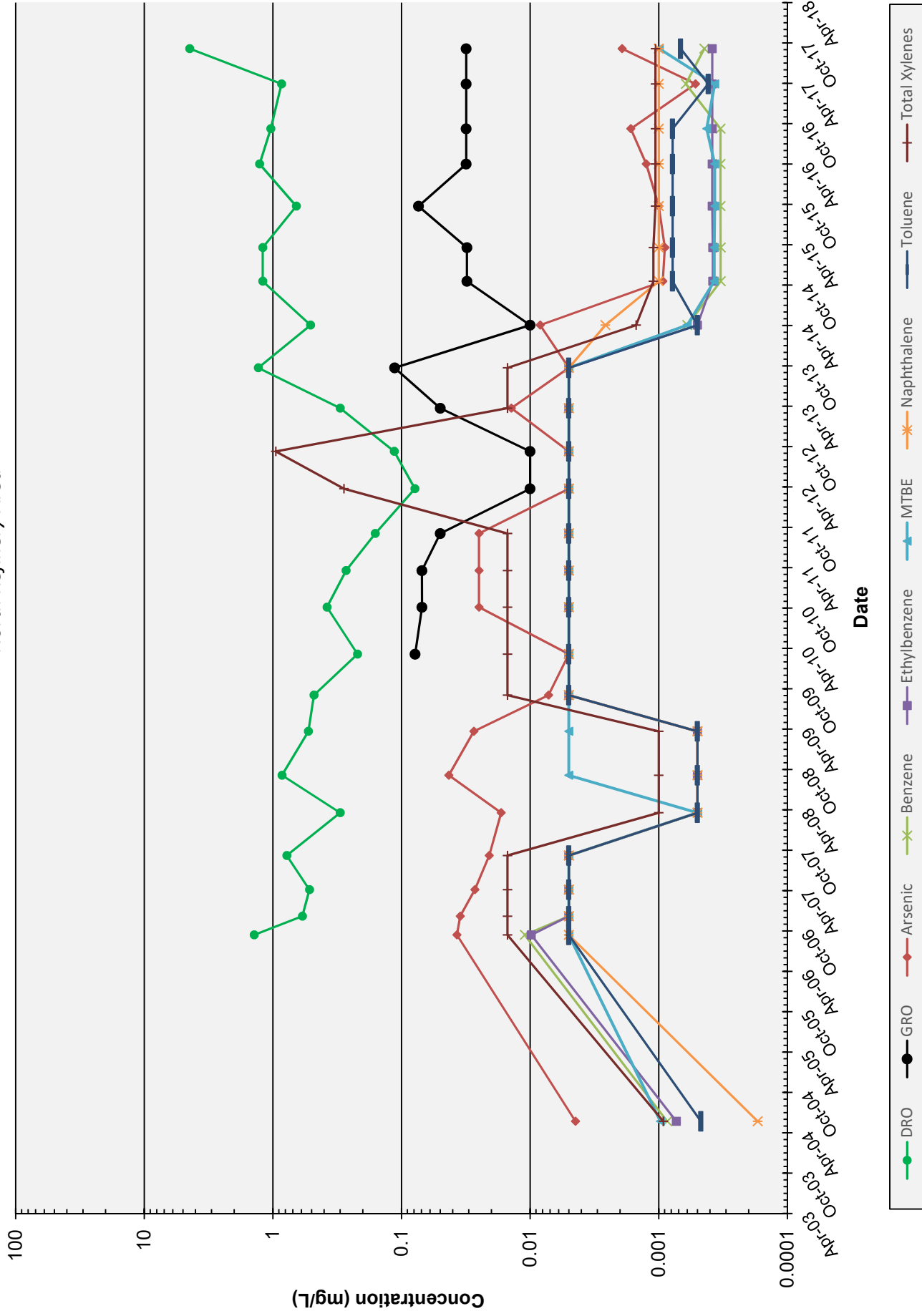
MW-23: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area

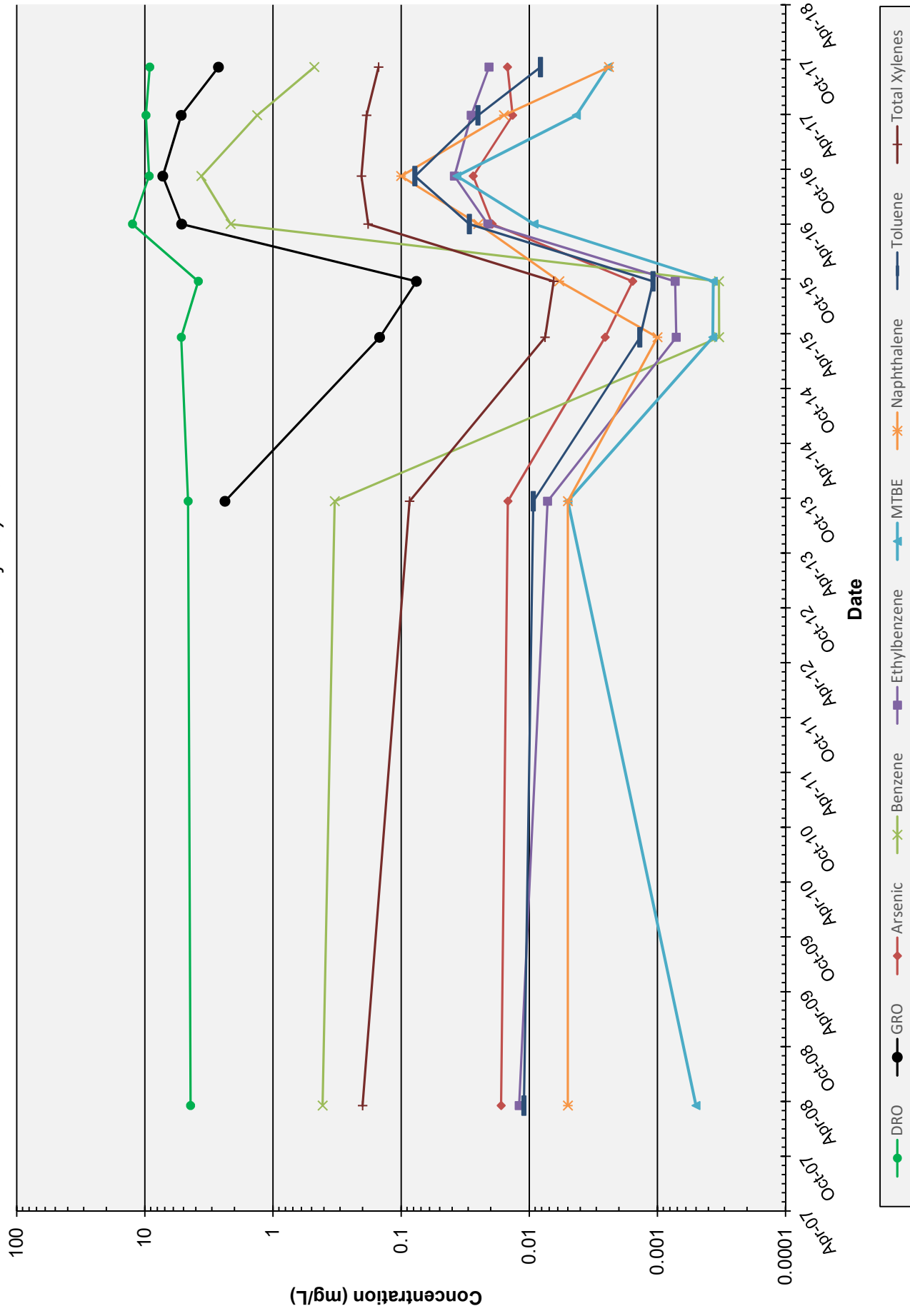


MW-29: COC Concentrations

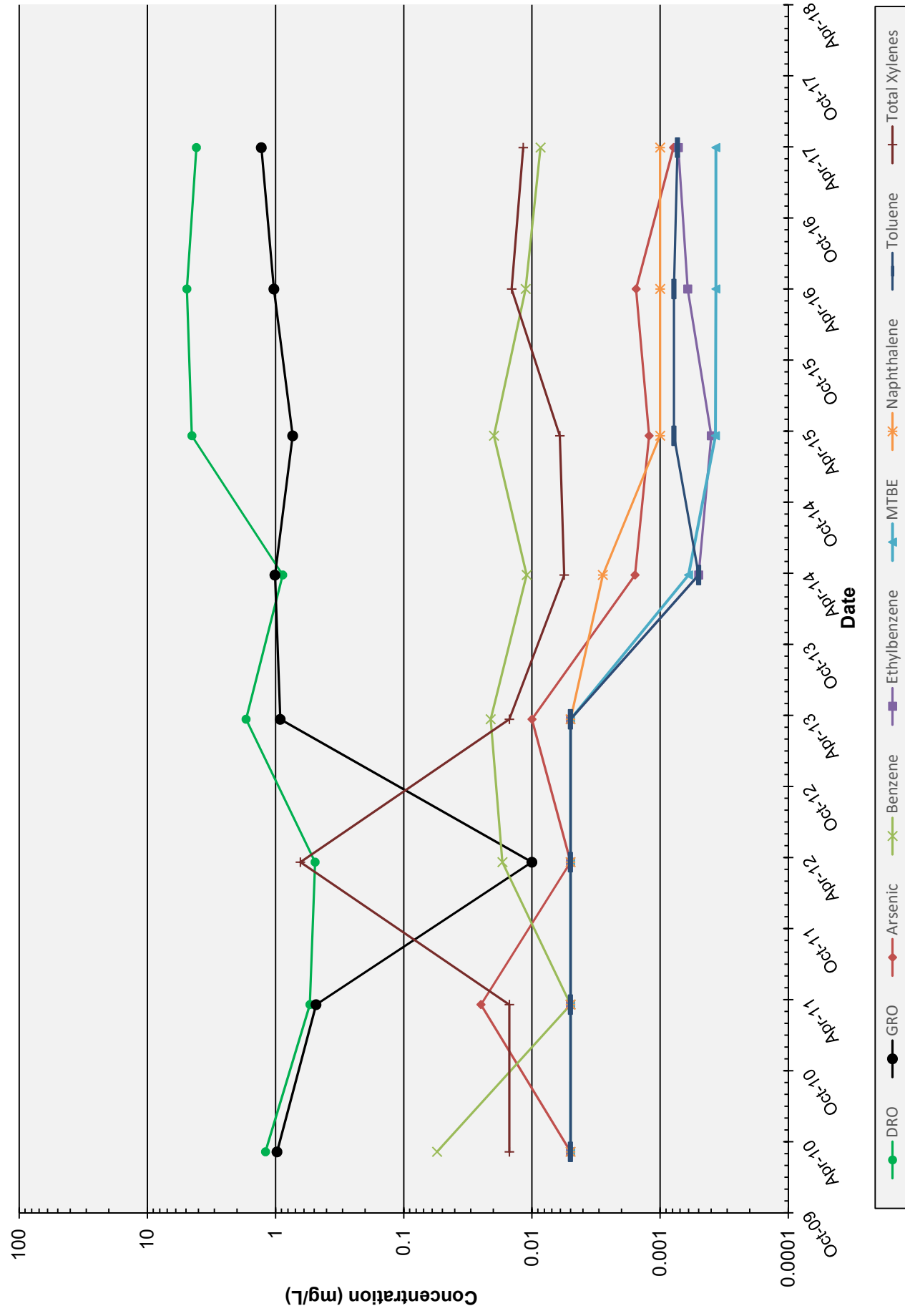
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area

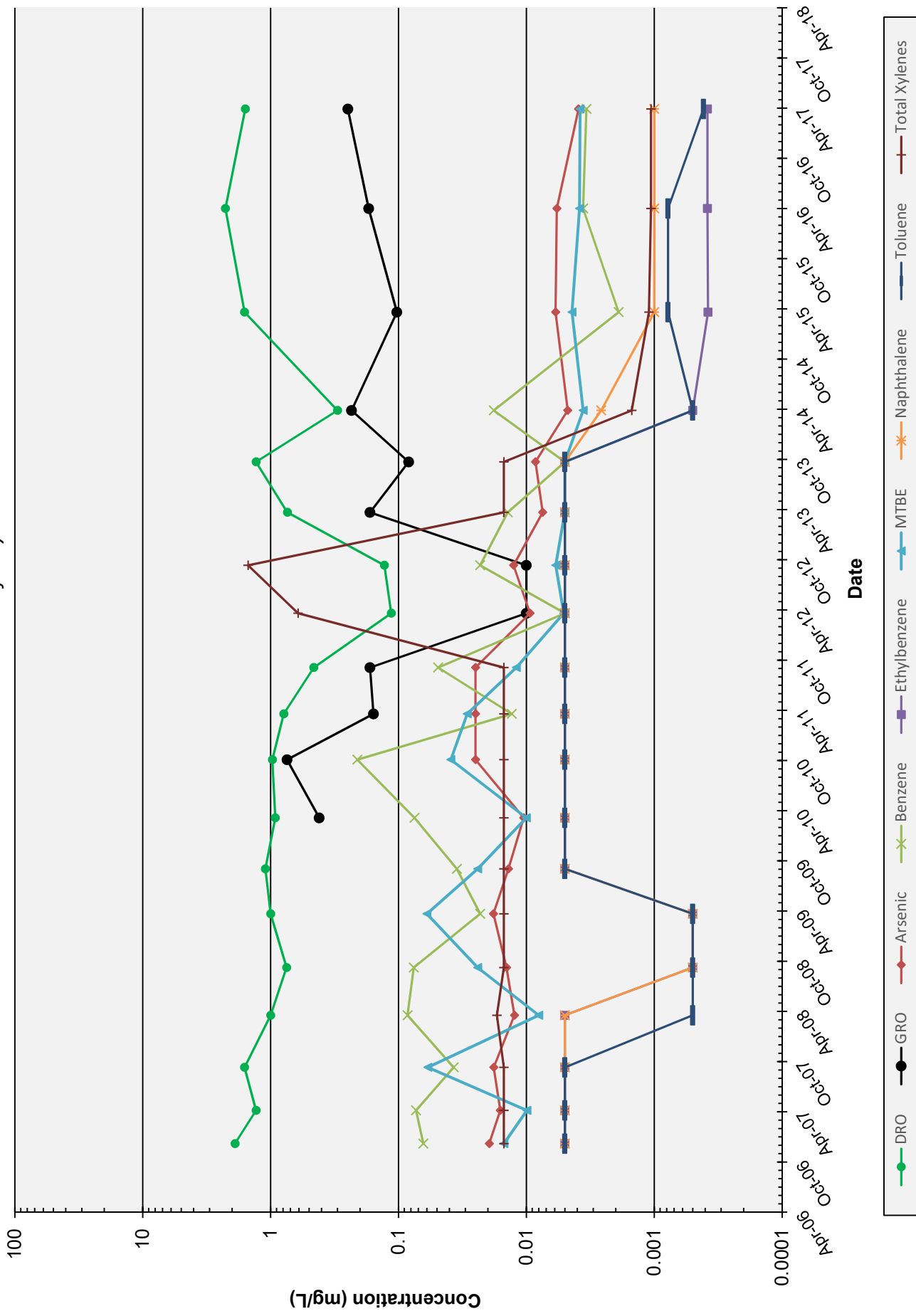


HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



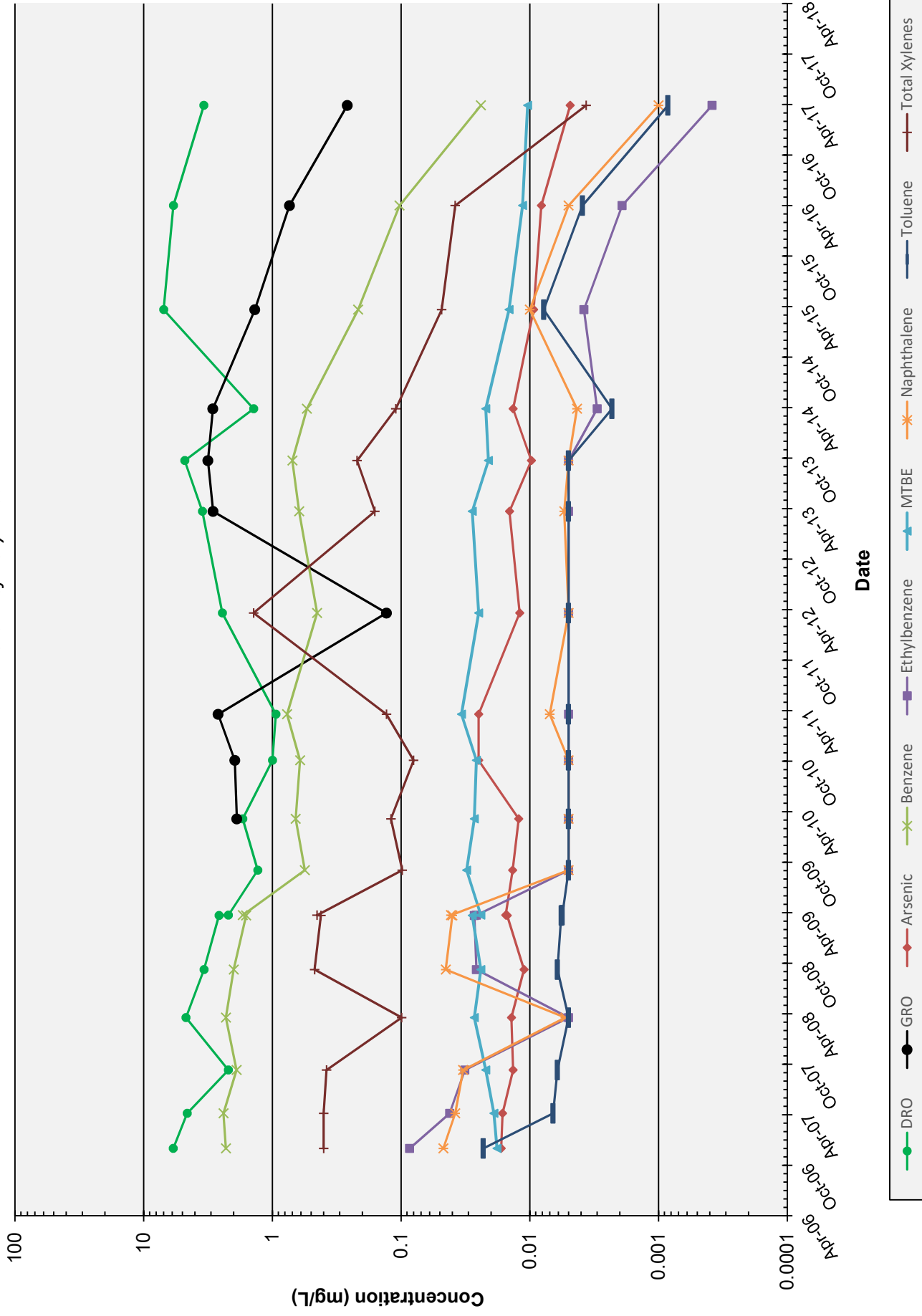
MW-41: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



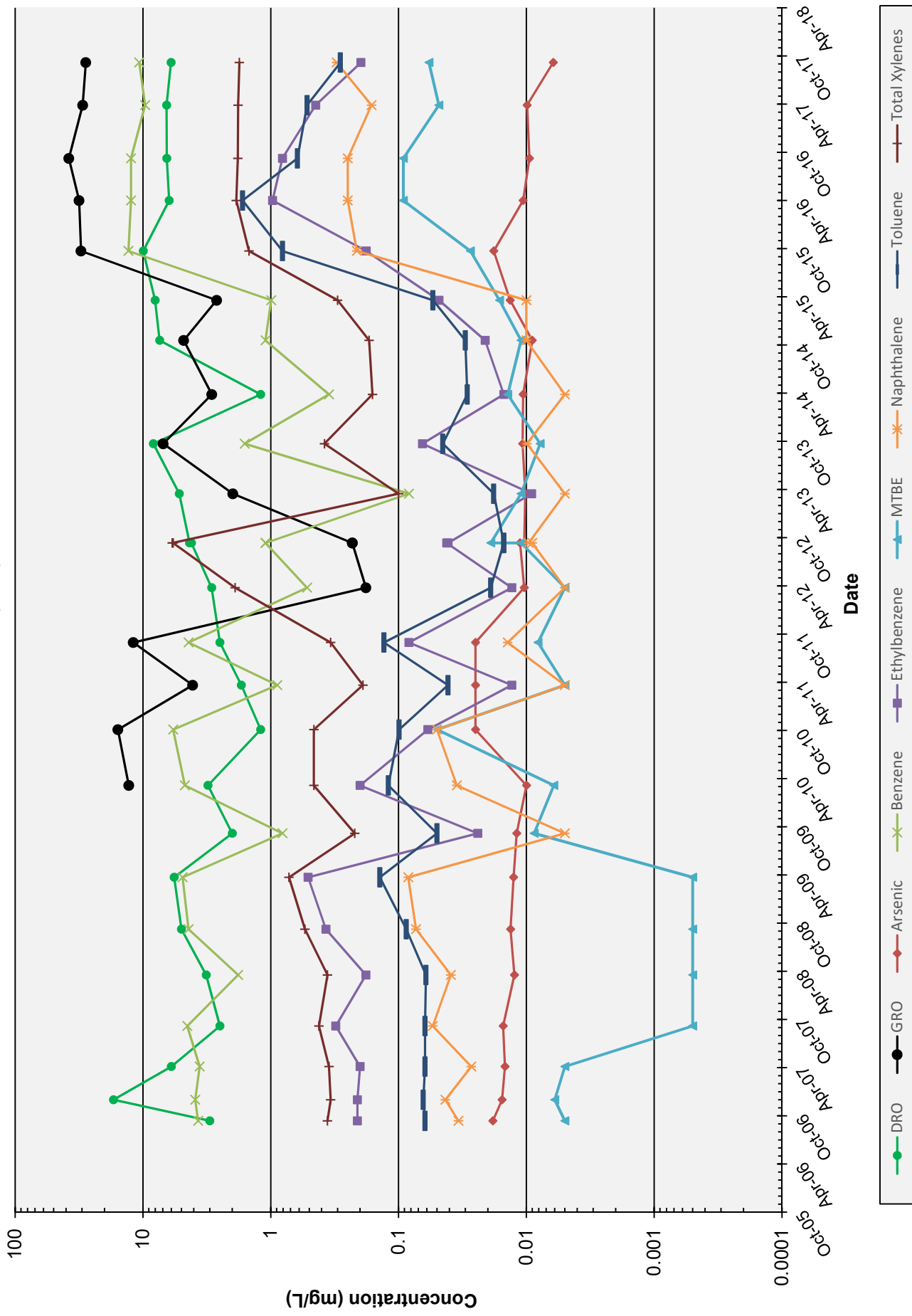
MW-42: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



MW-43: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



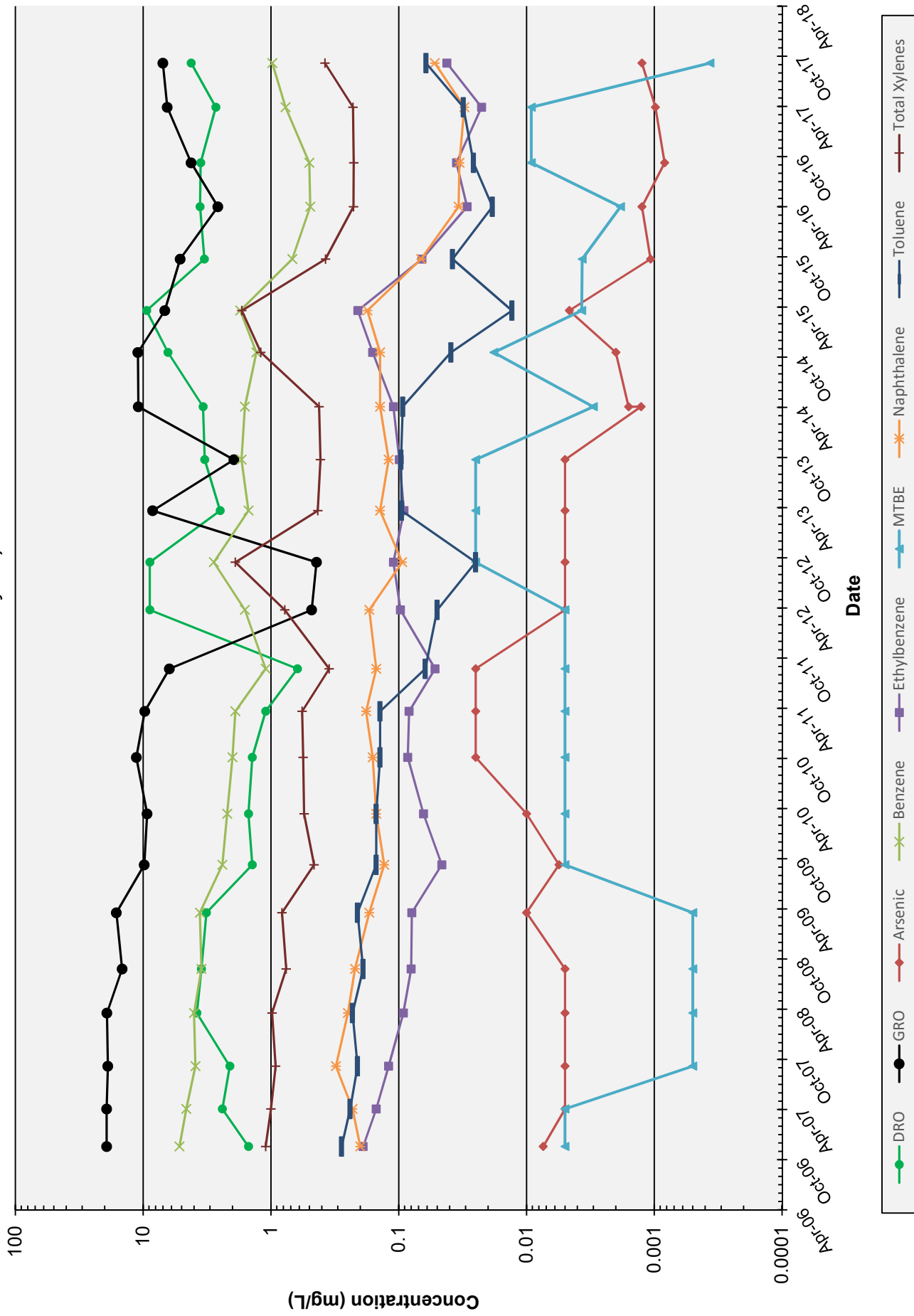
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



MW-61: COC Concentrations

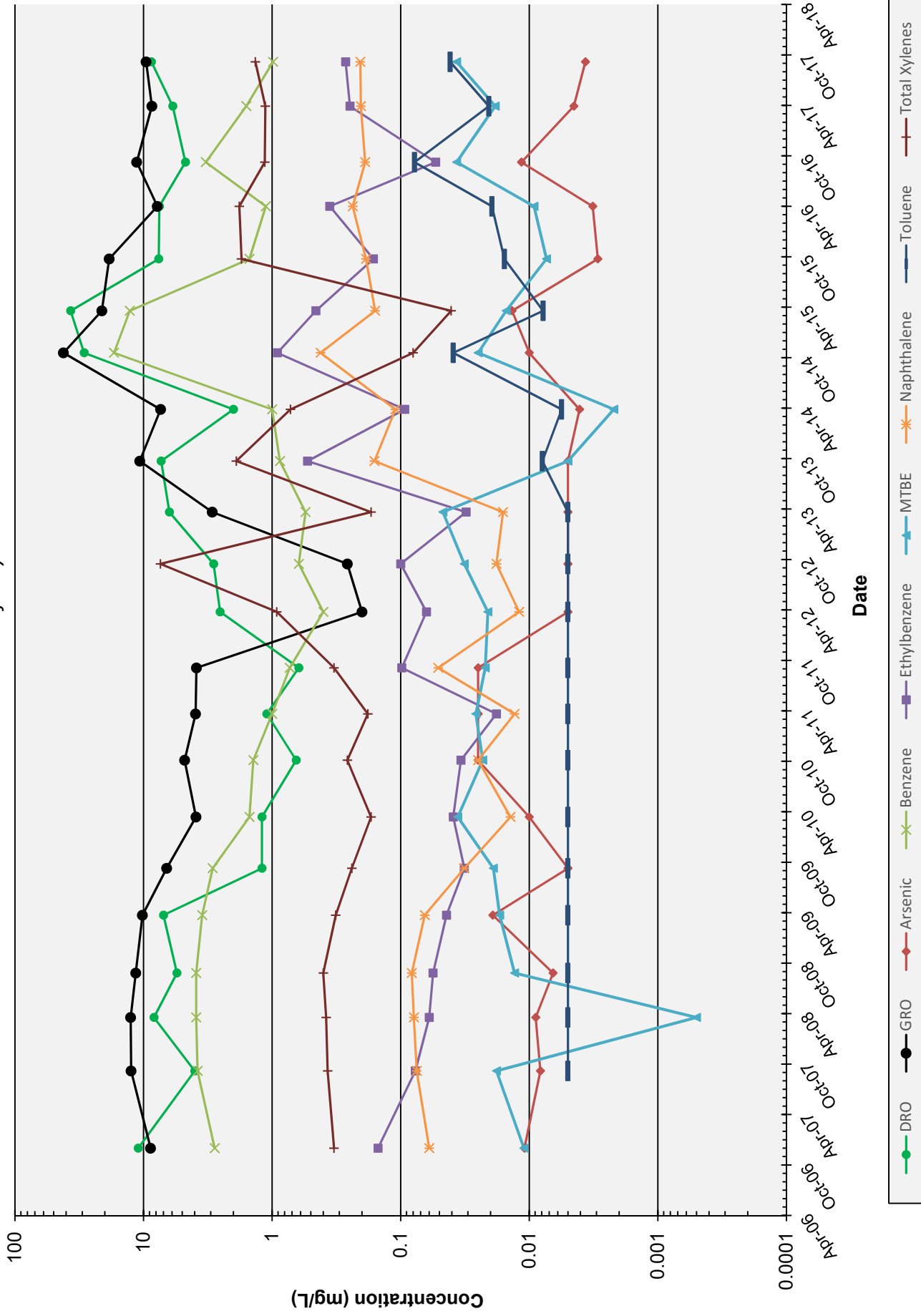
HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area



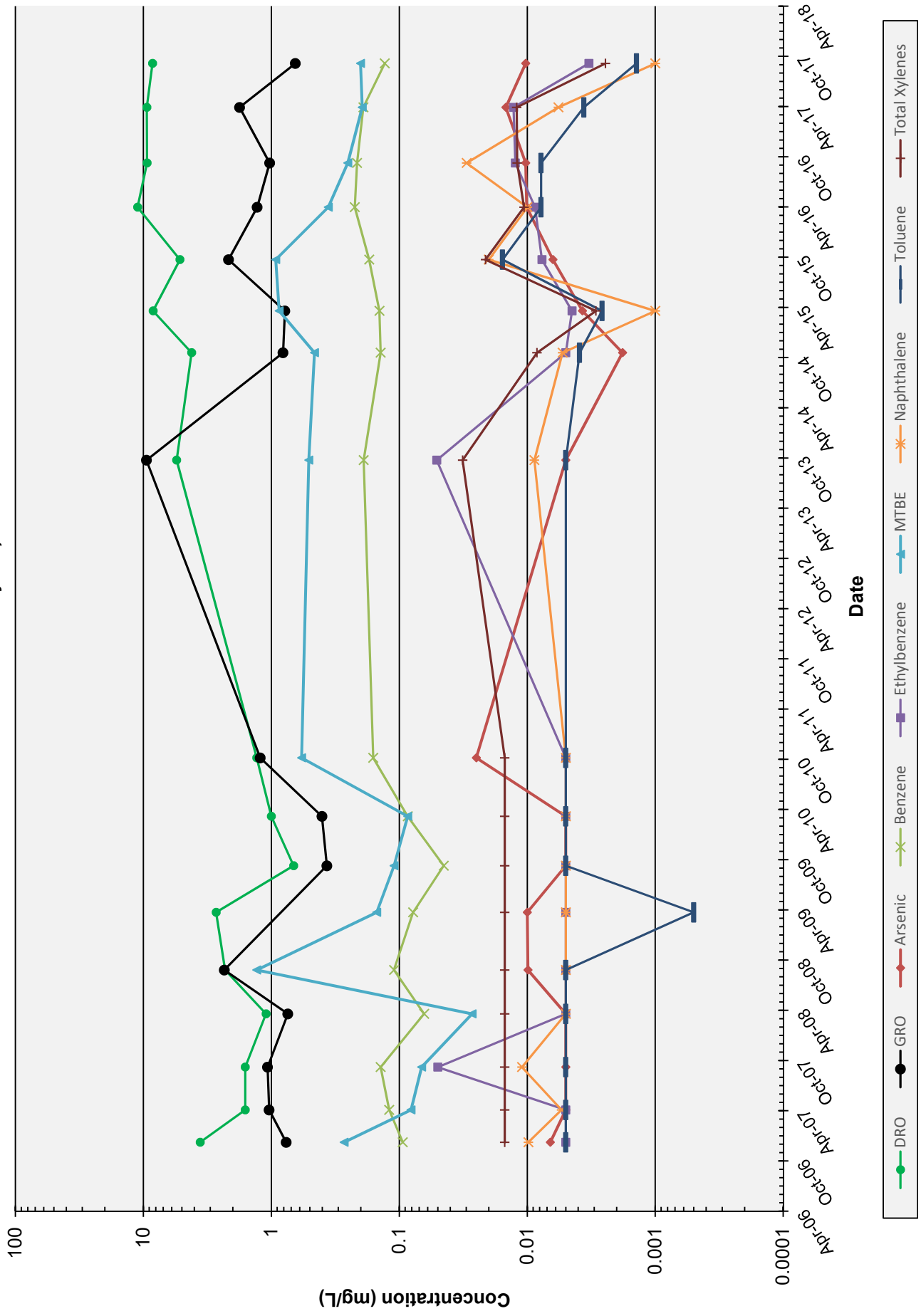
MW-62: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area

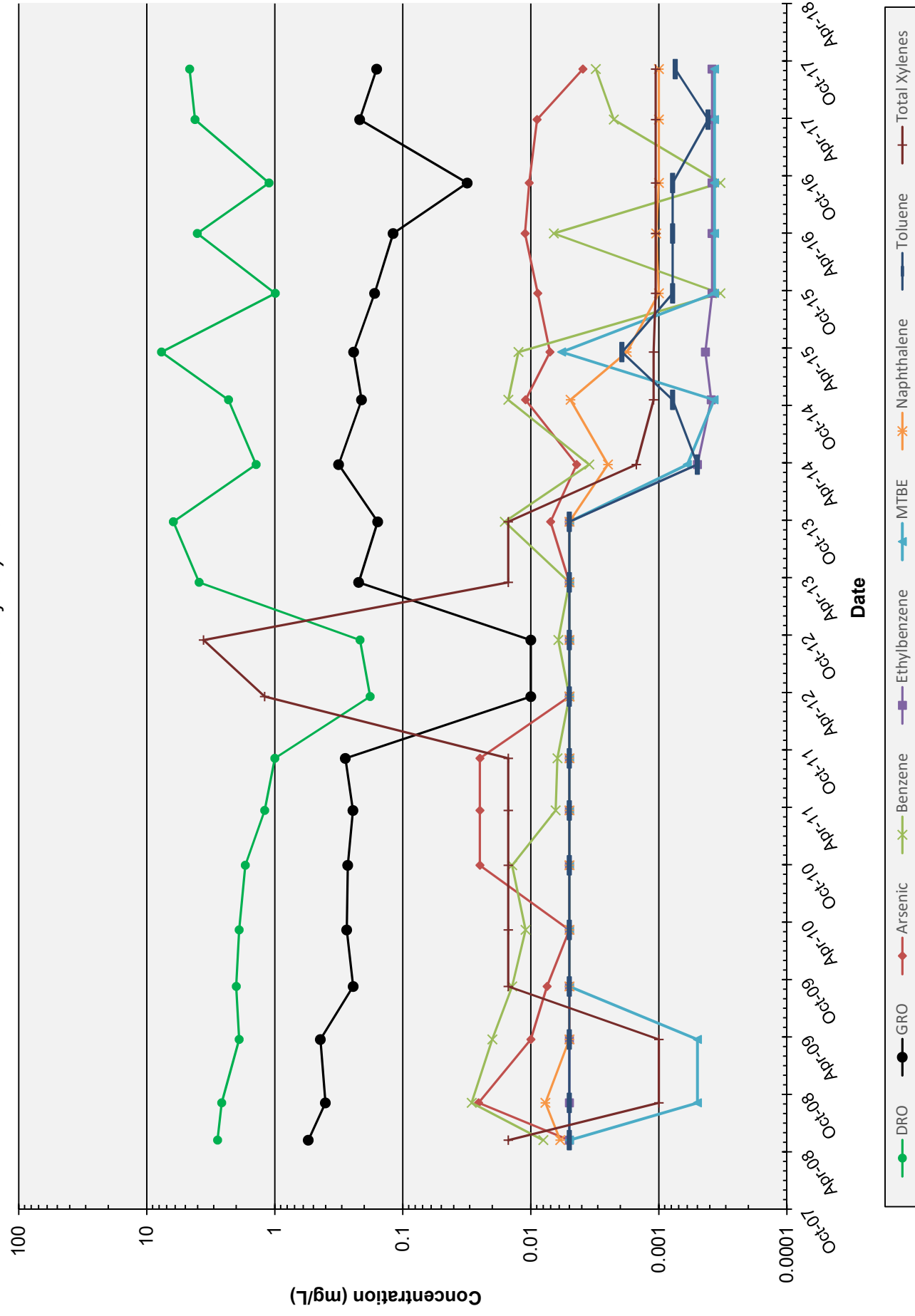


MW-67: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area

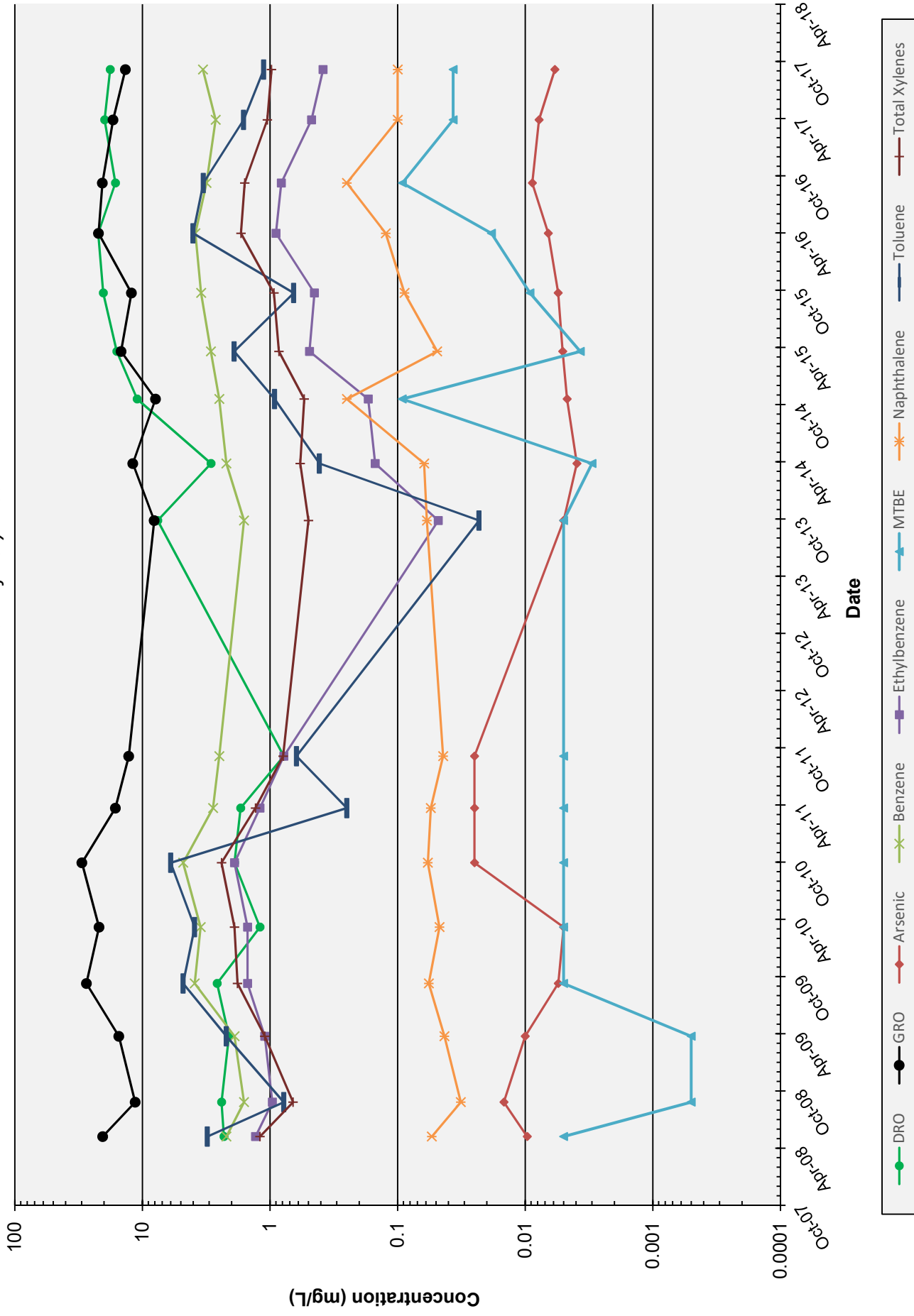


HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



MW-91: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area

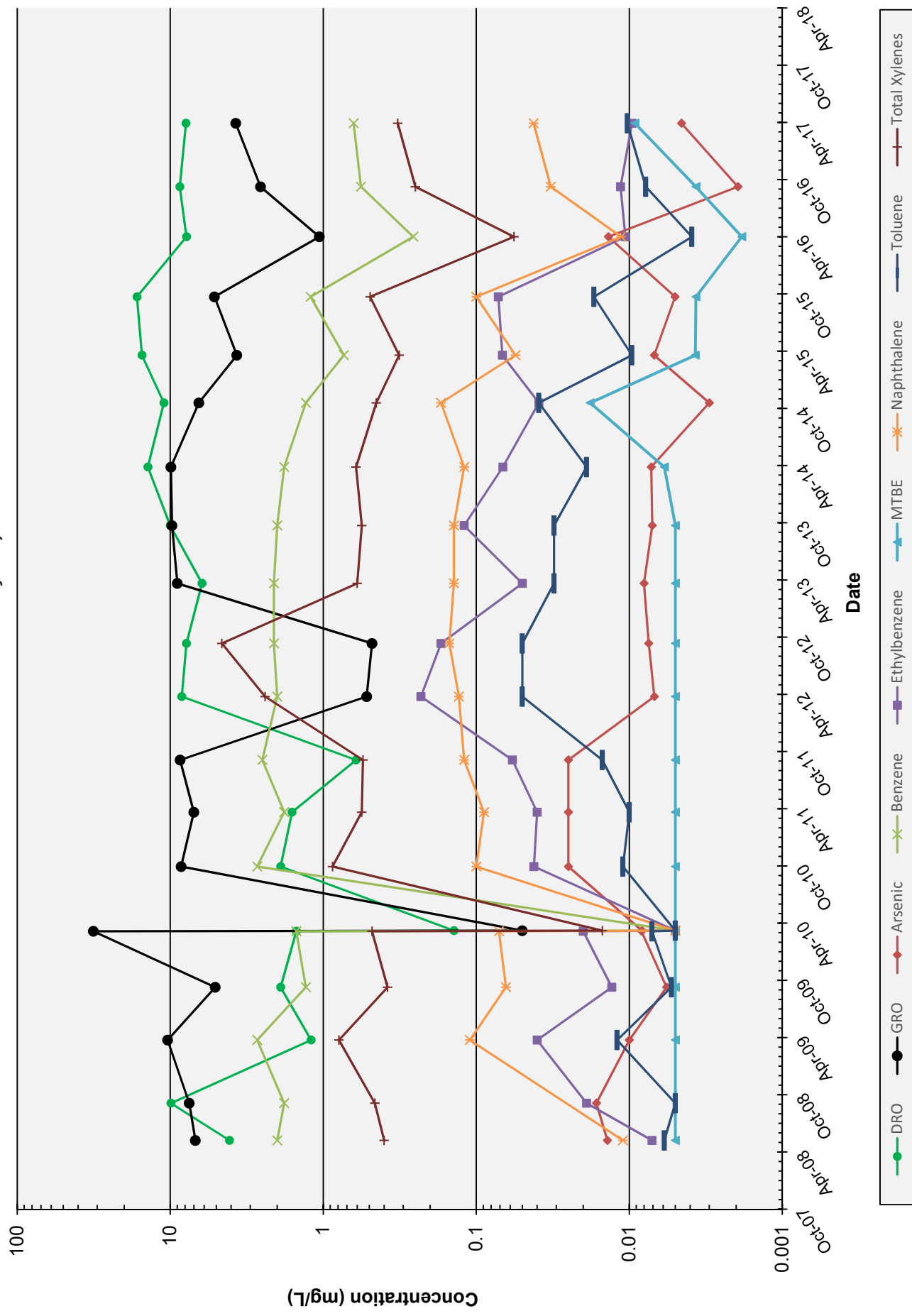


HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area

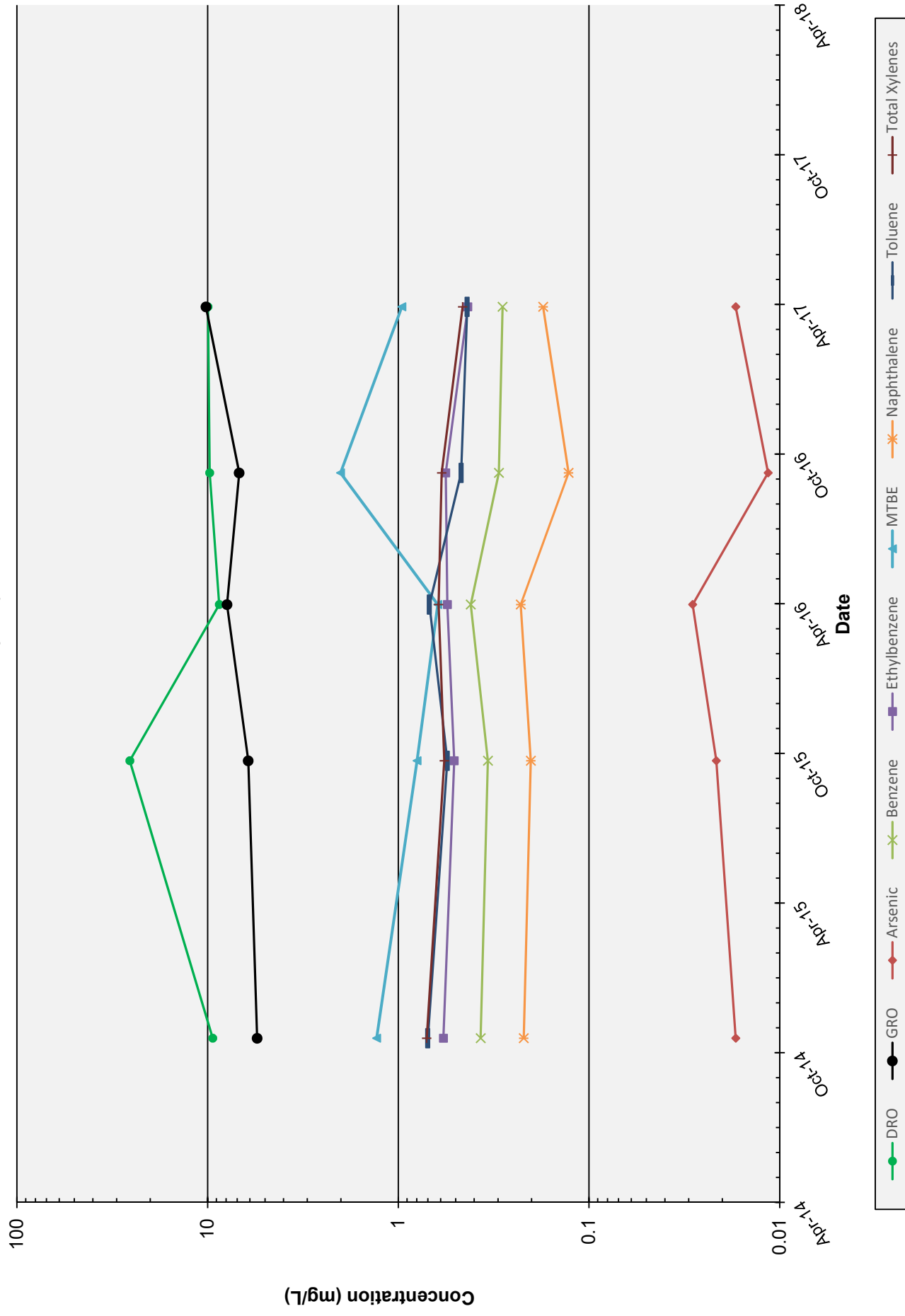


MW-93: COC Concentrations

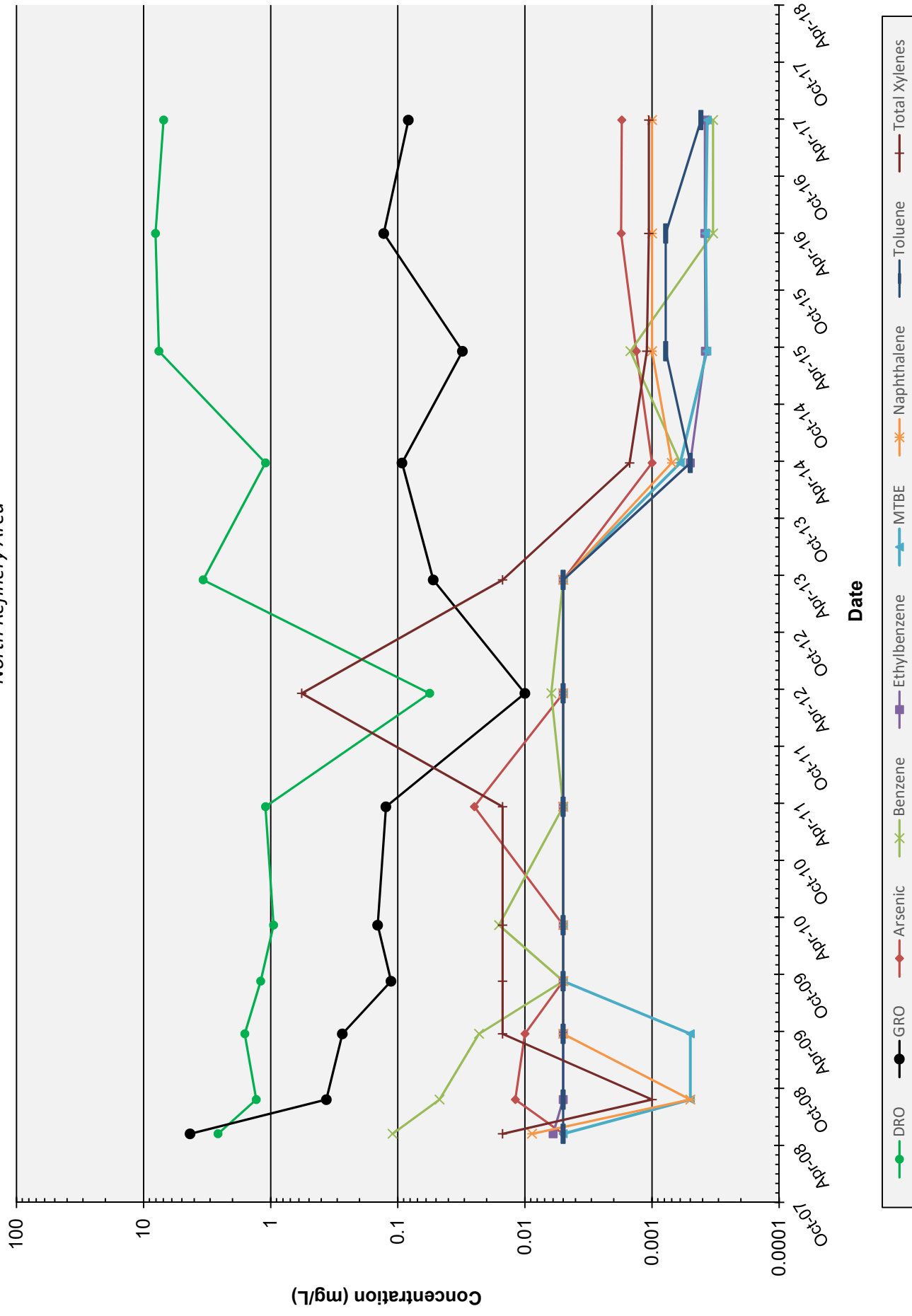
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



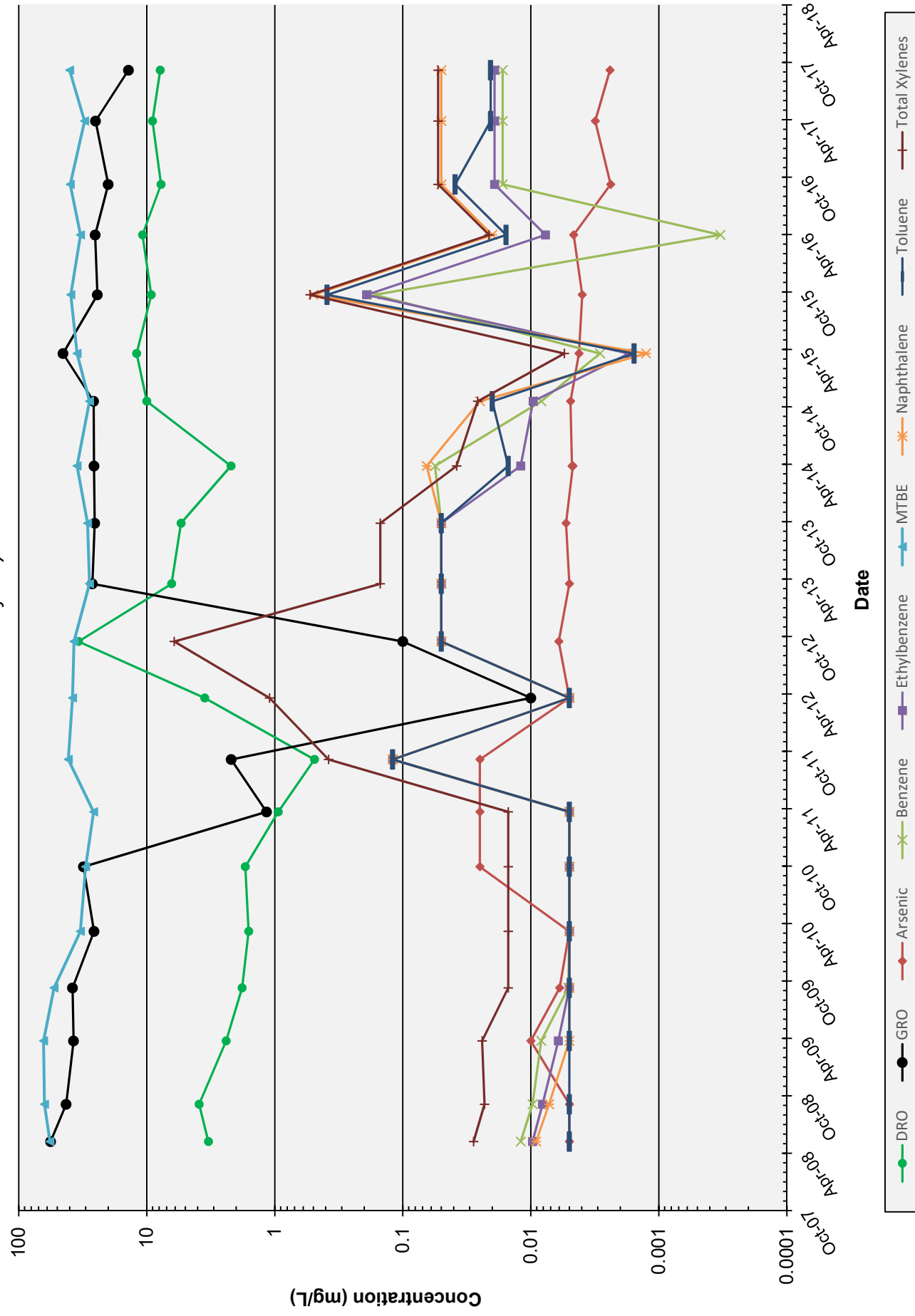
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area

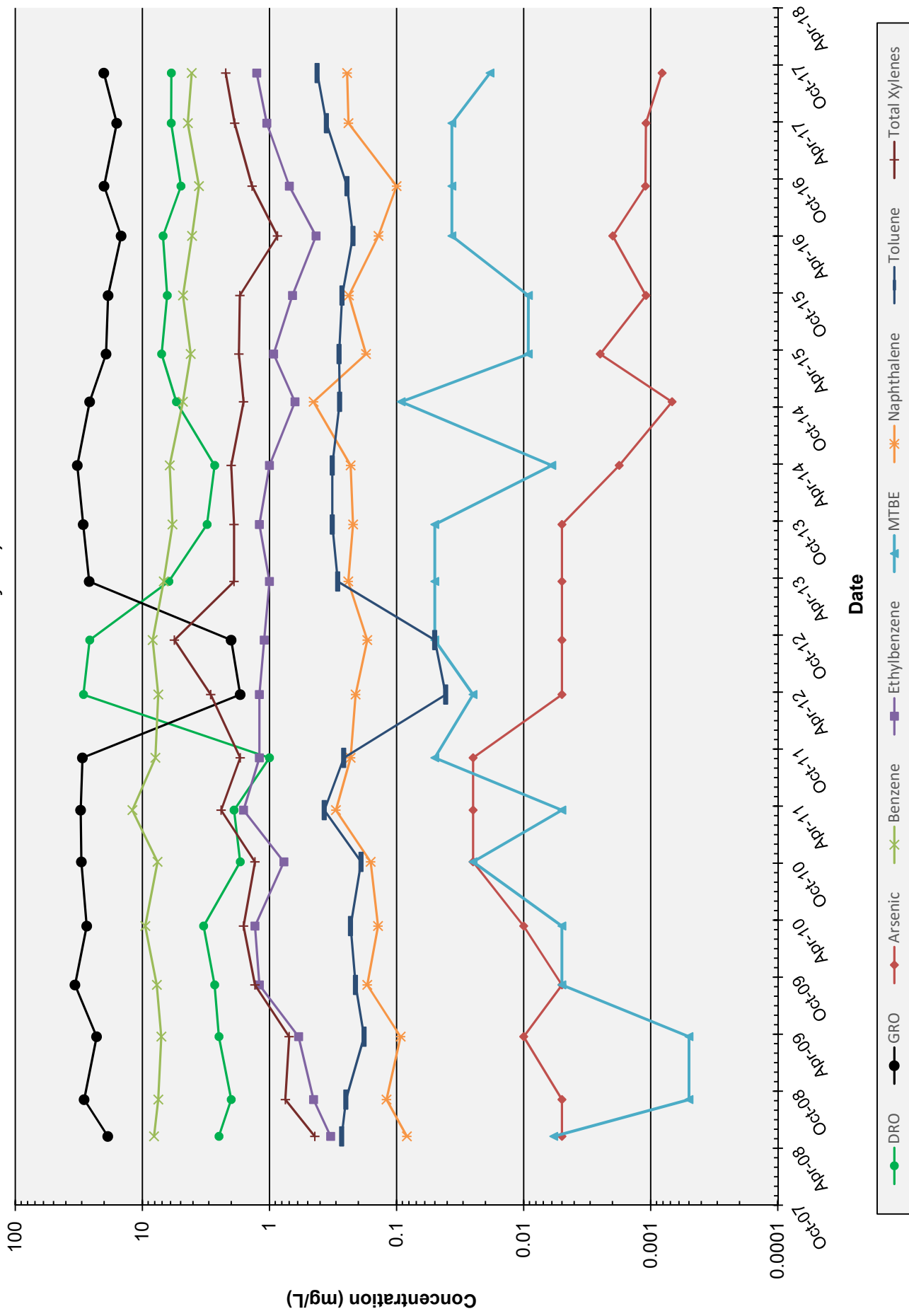


HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



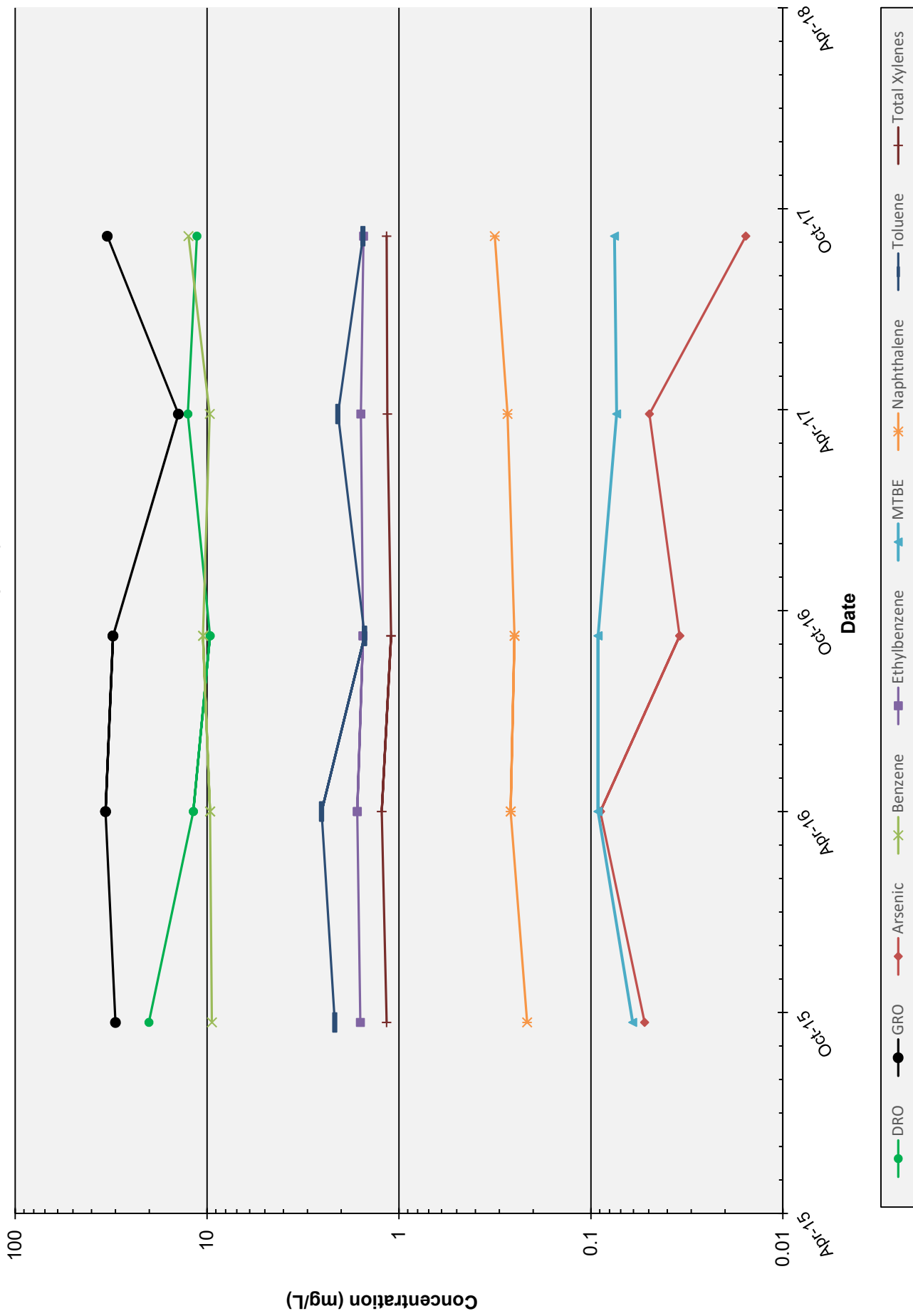
MW-98: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



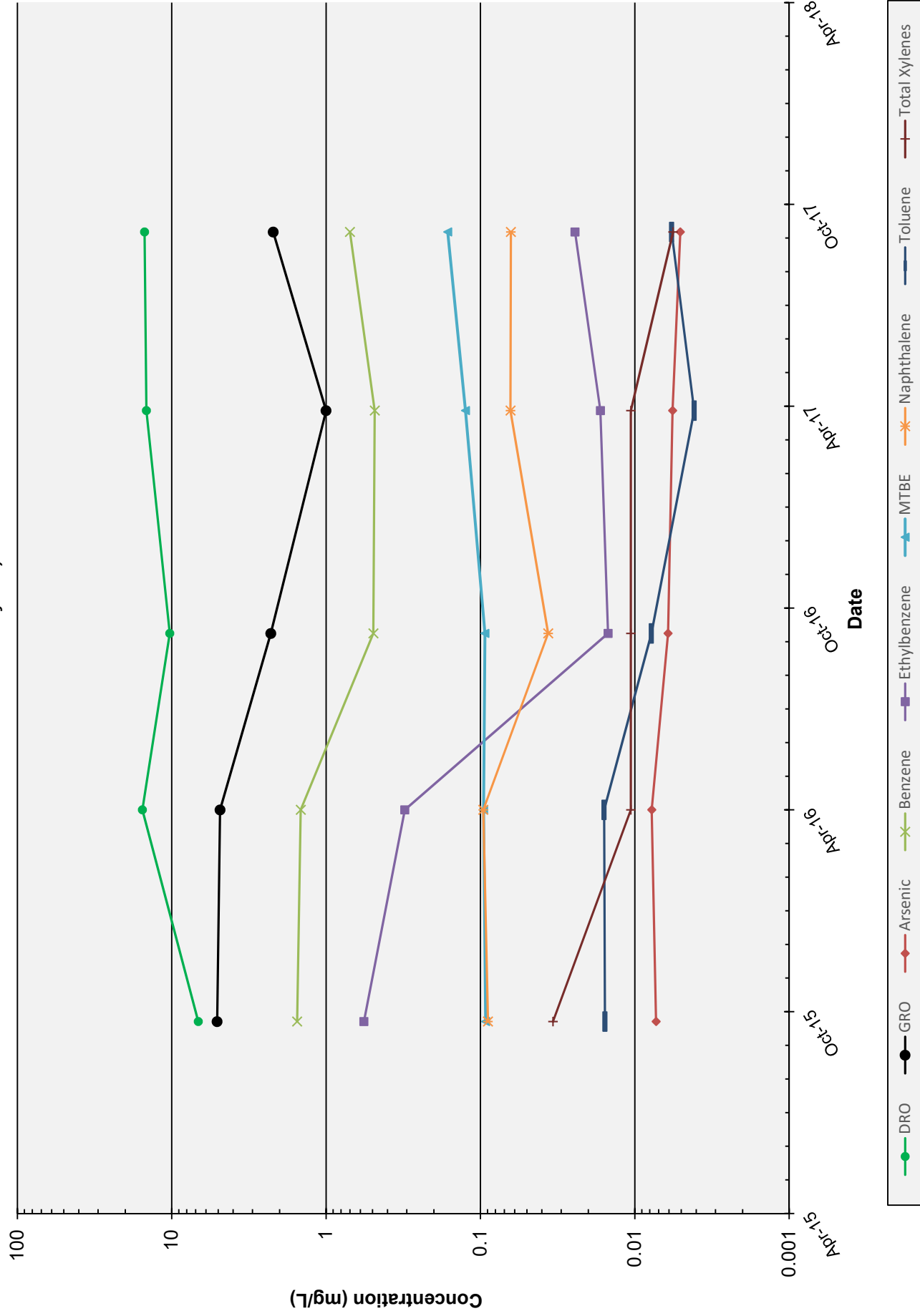
MW-137: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



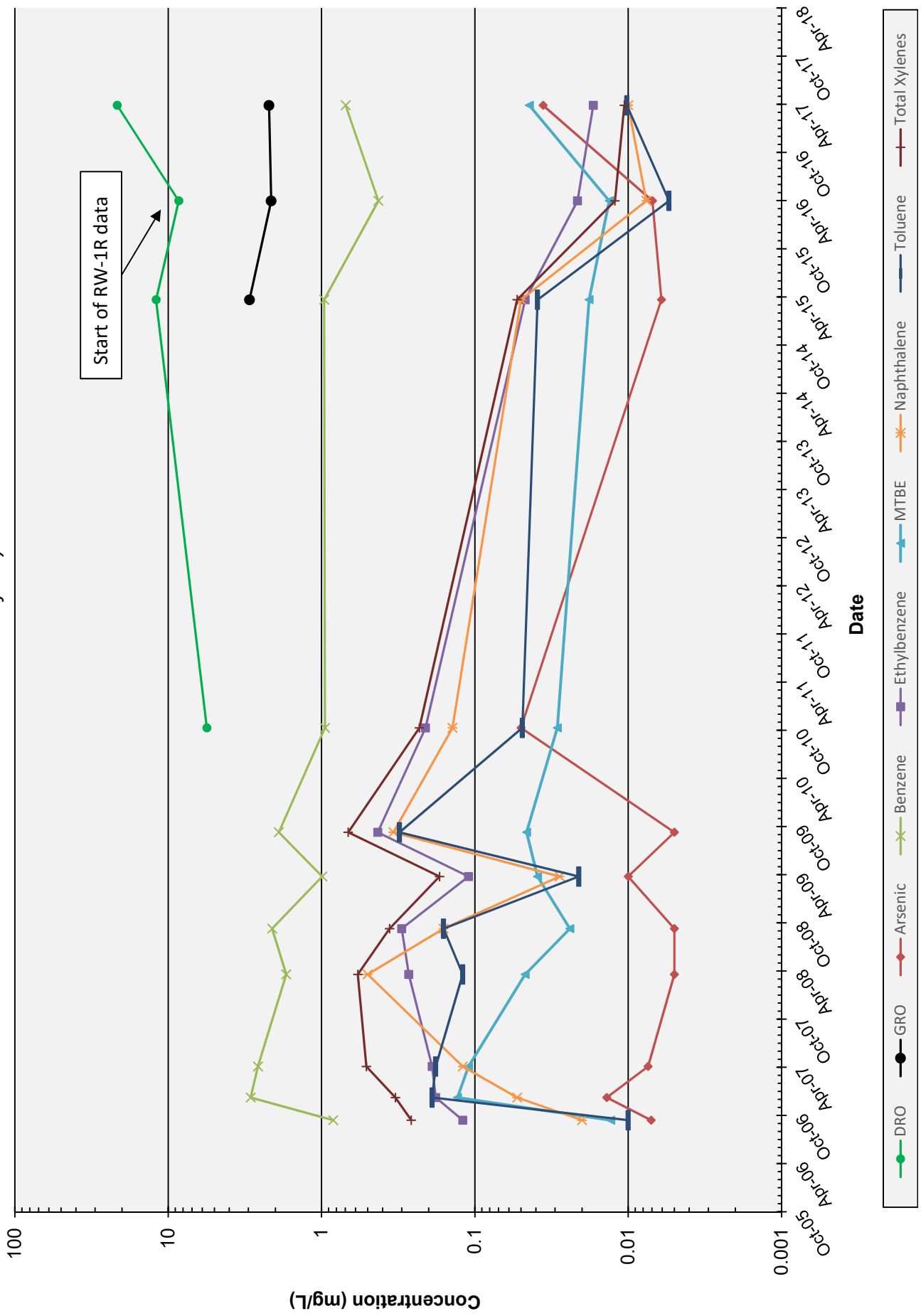
MW-138: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



RW-1 and RW-1R: COC Concentrations

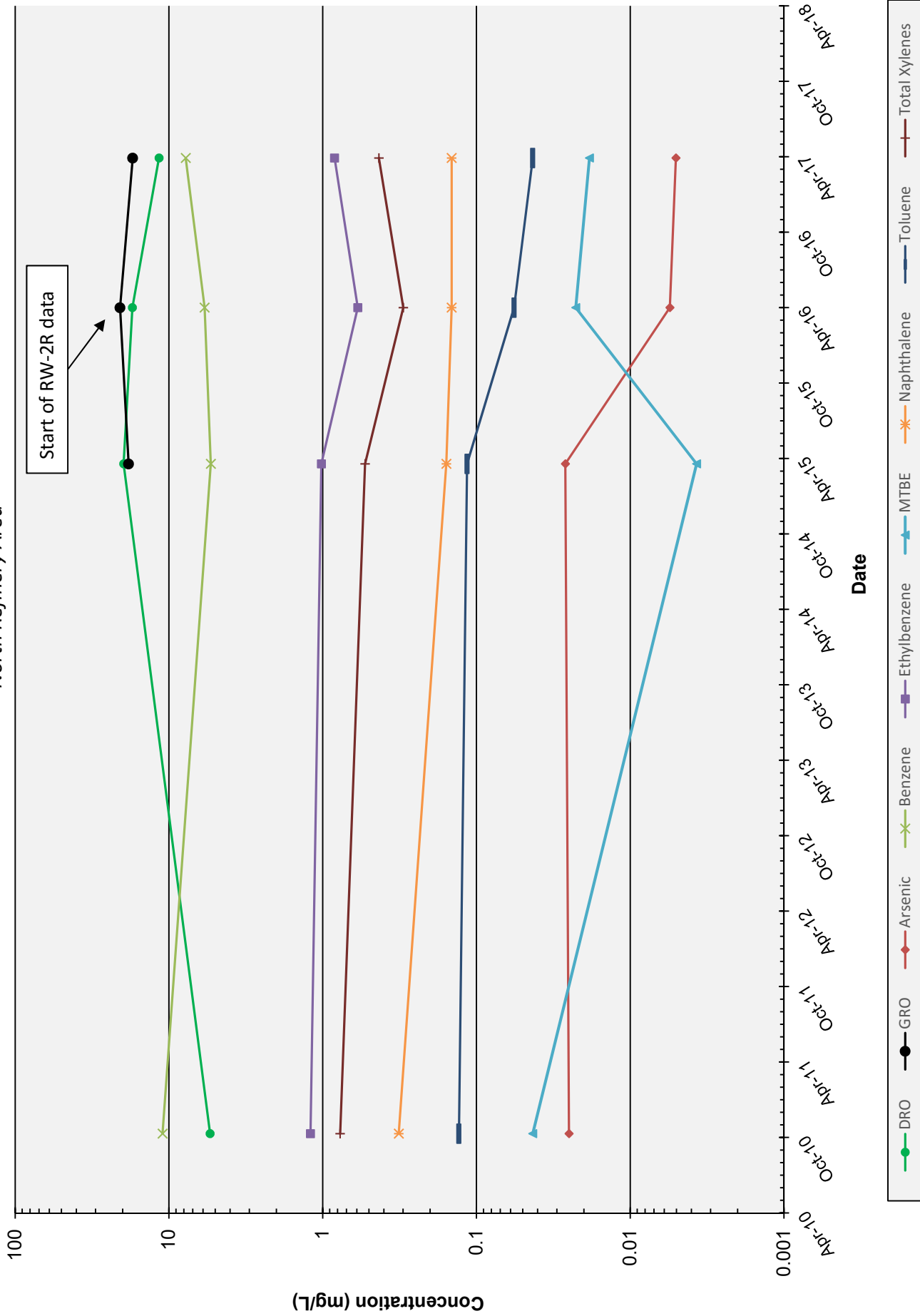
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



RW-2 and RW-2R: COC Concentrations

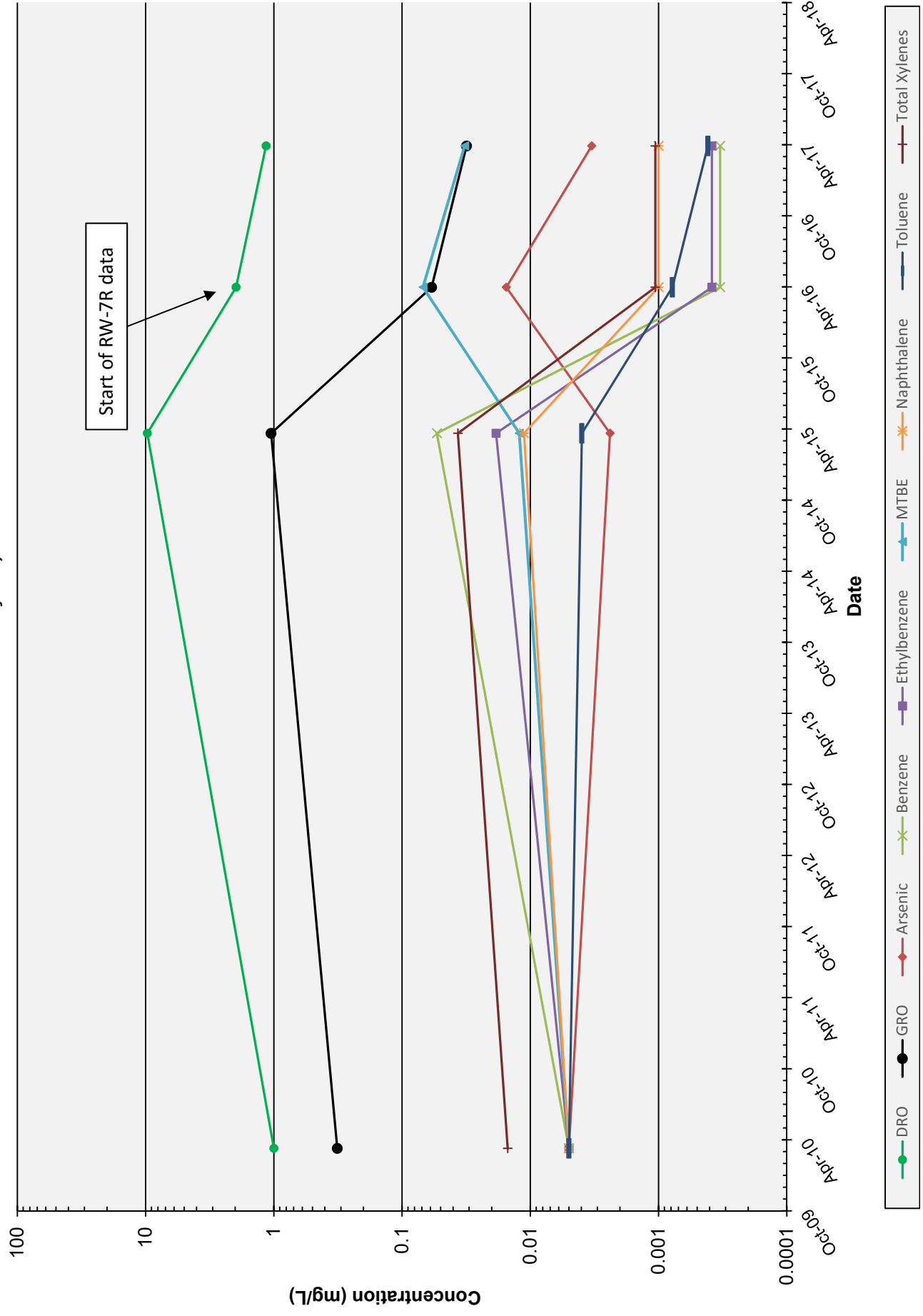
HollyFrontier Navajo Refining LLC - Artesia Refinery

North Refinery Area



RW-7 and RW-7R: COC Concentrations

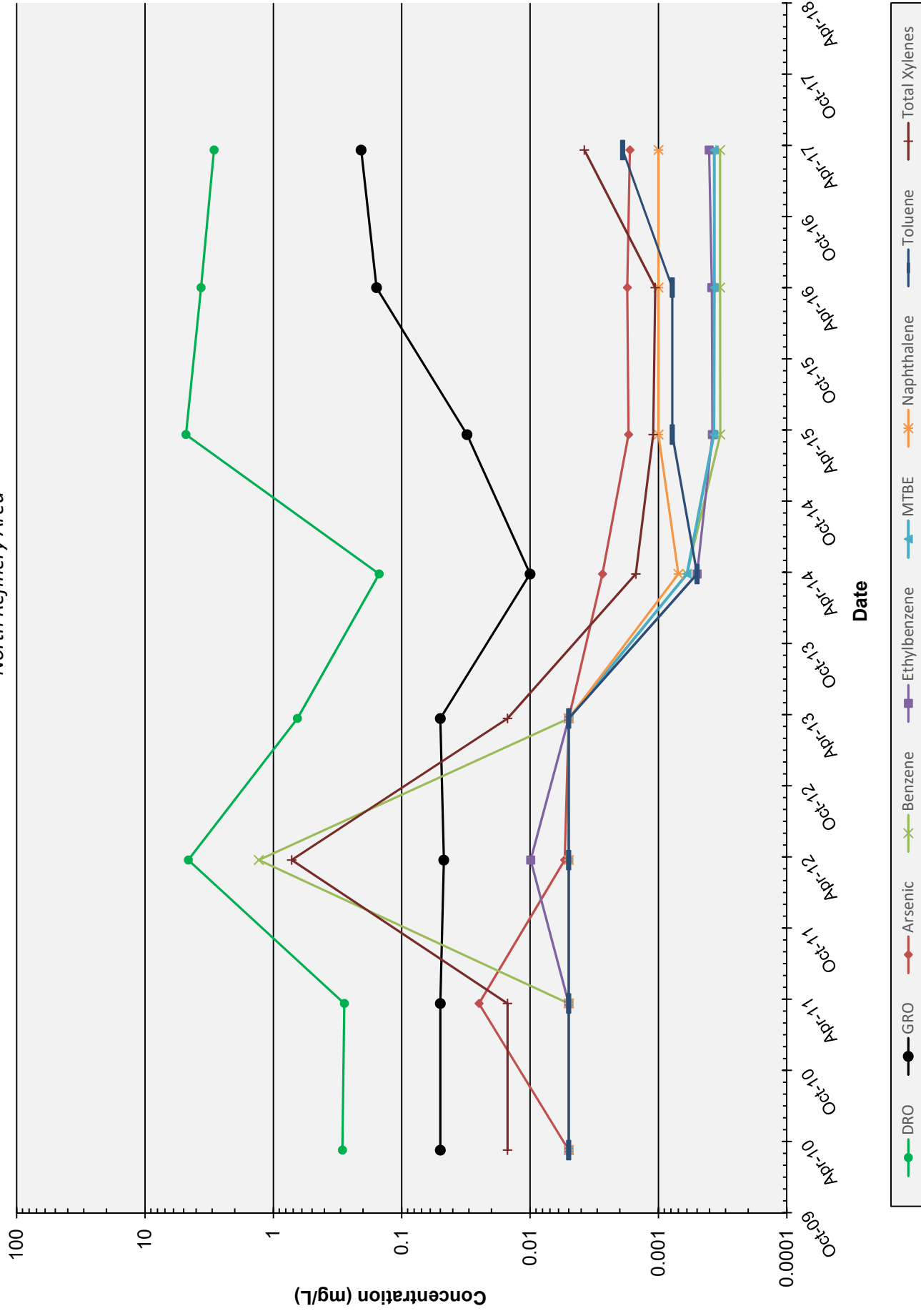
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



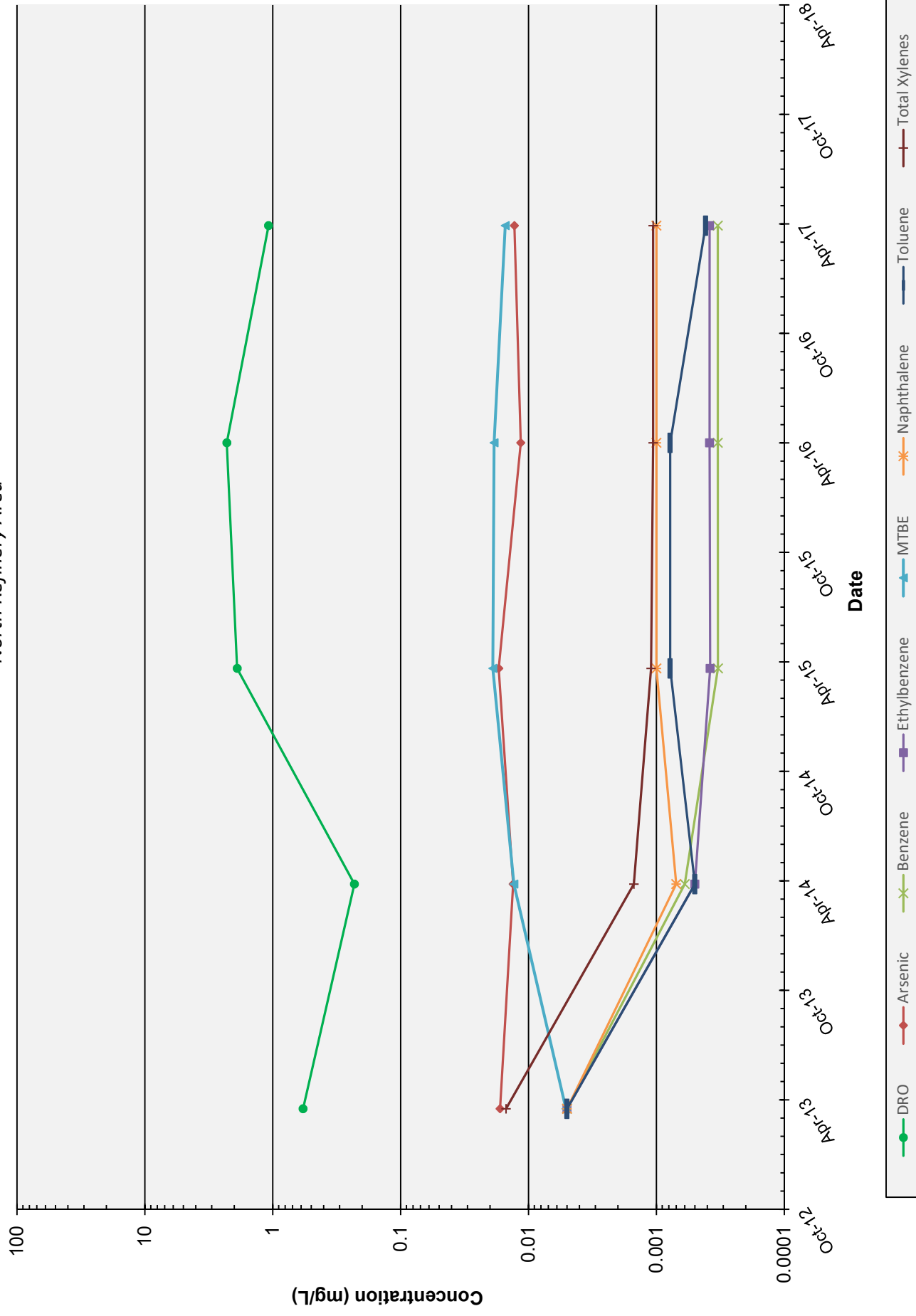
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



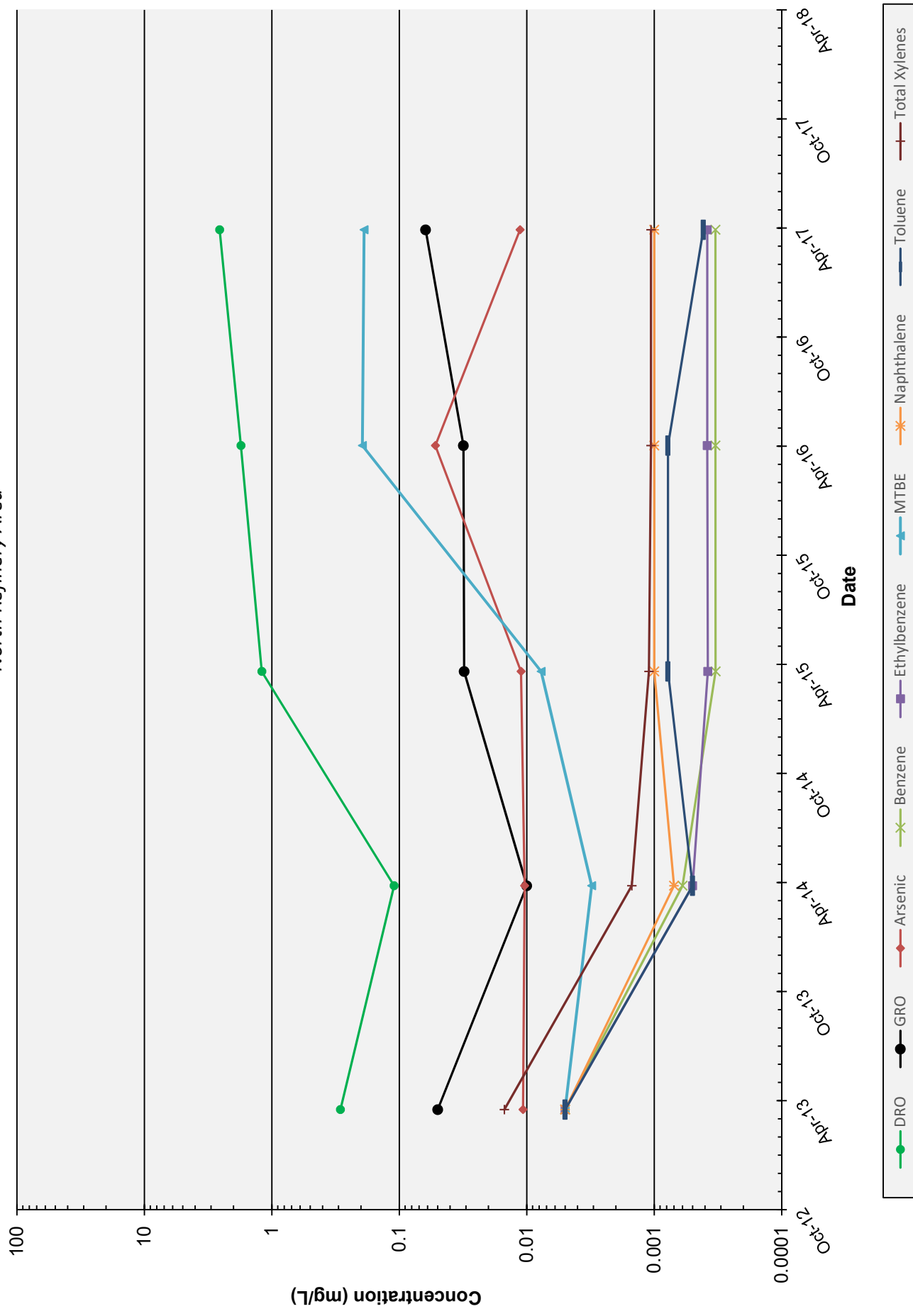
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area



HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area

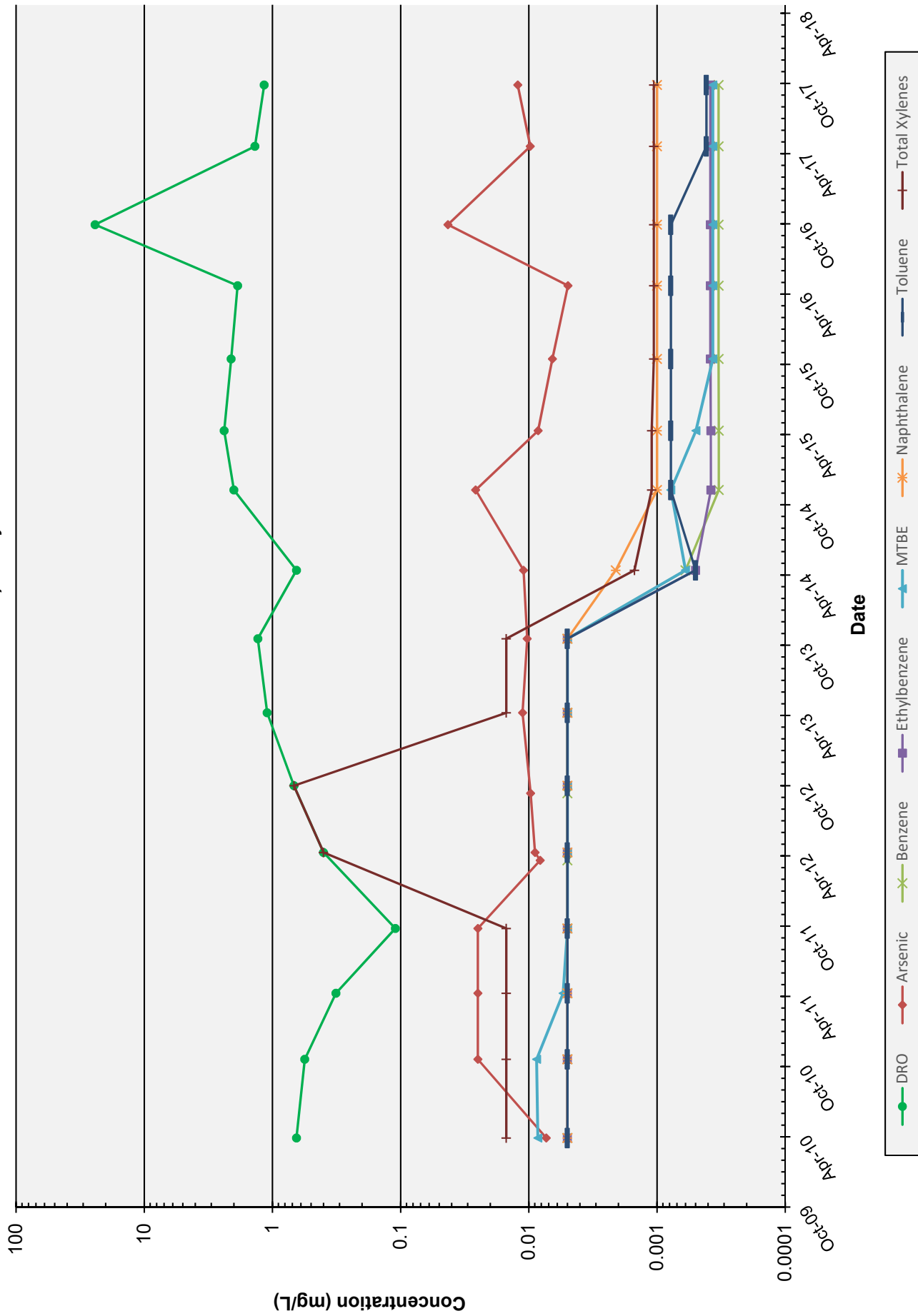


HollyFrontier Navajo Refining LLC - Artesia Refinery
North Refinery Area

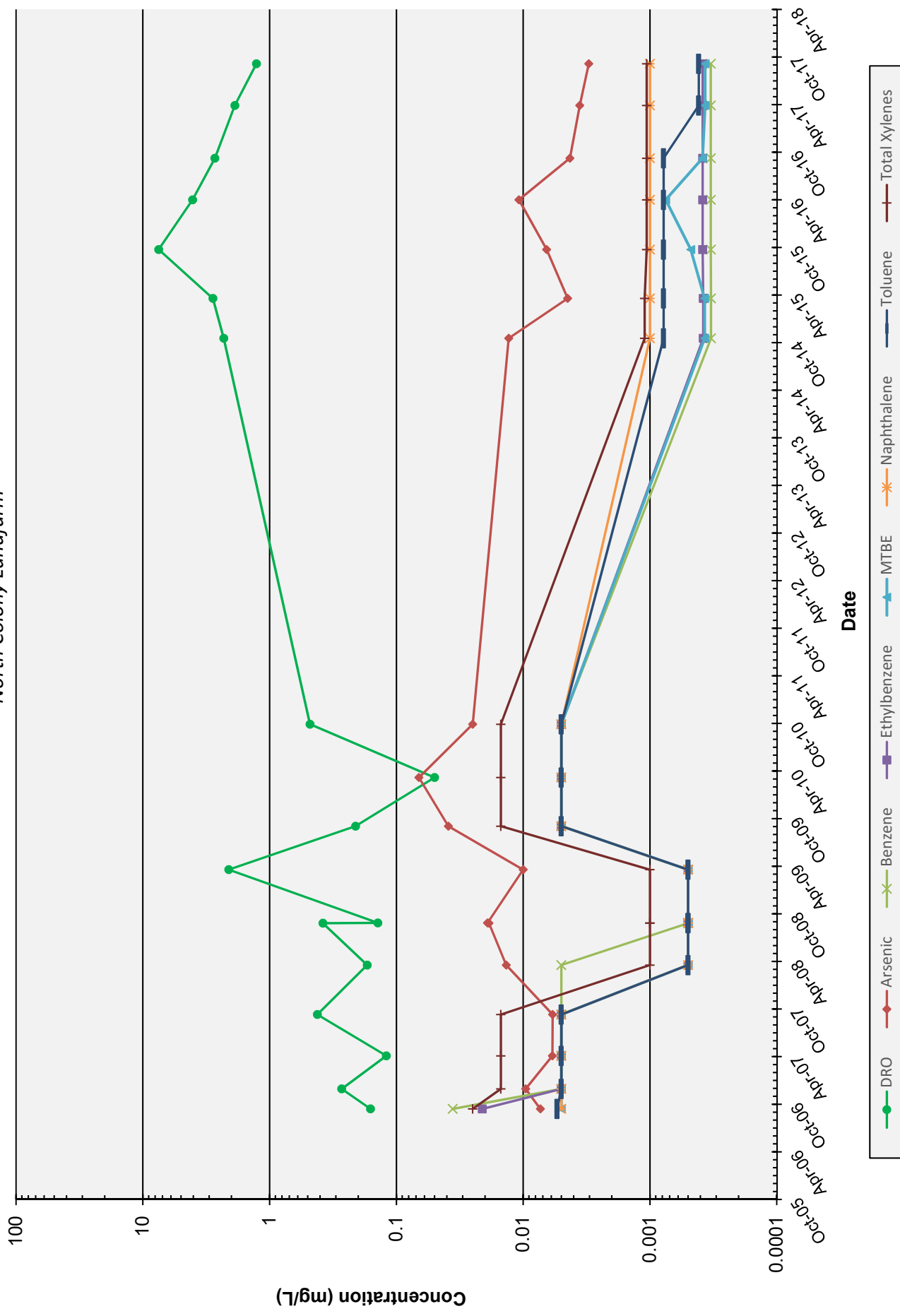


NCL-31: COC Concentrations

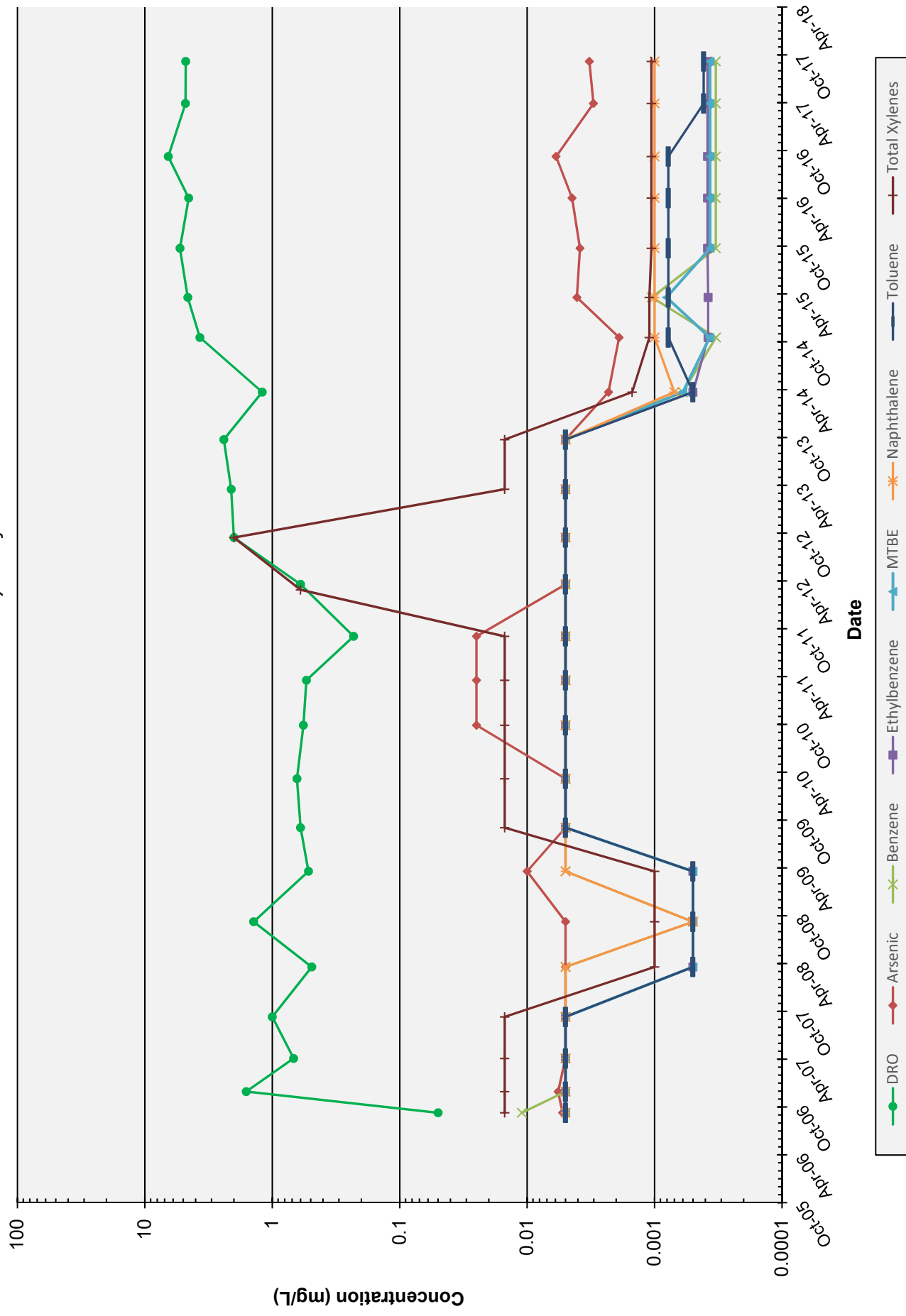
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm



HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm

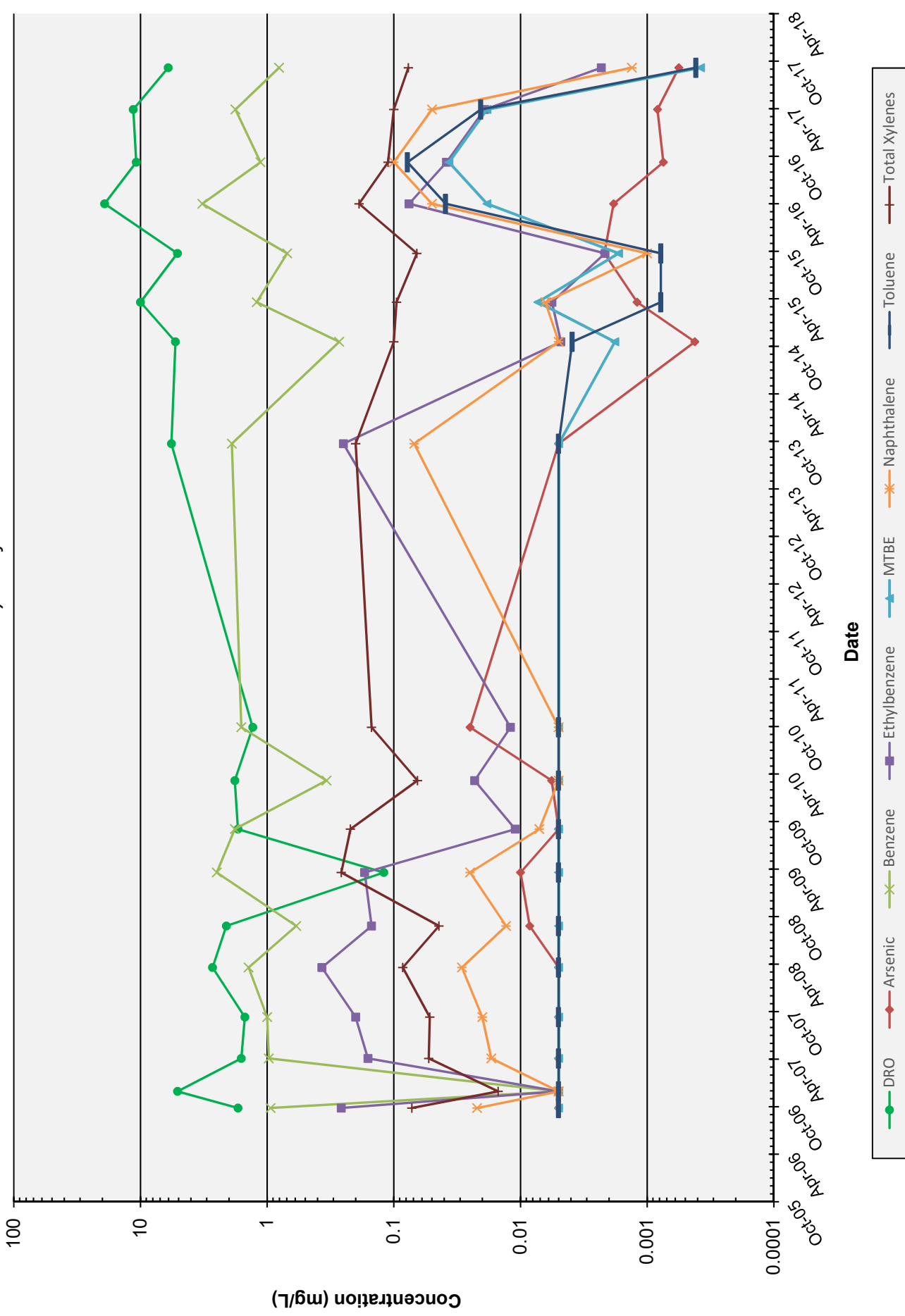


HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm

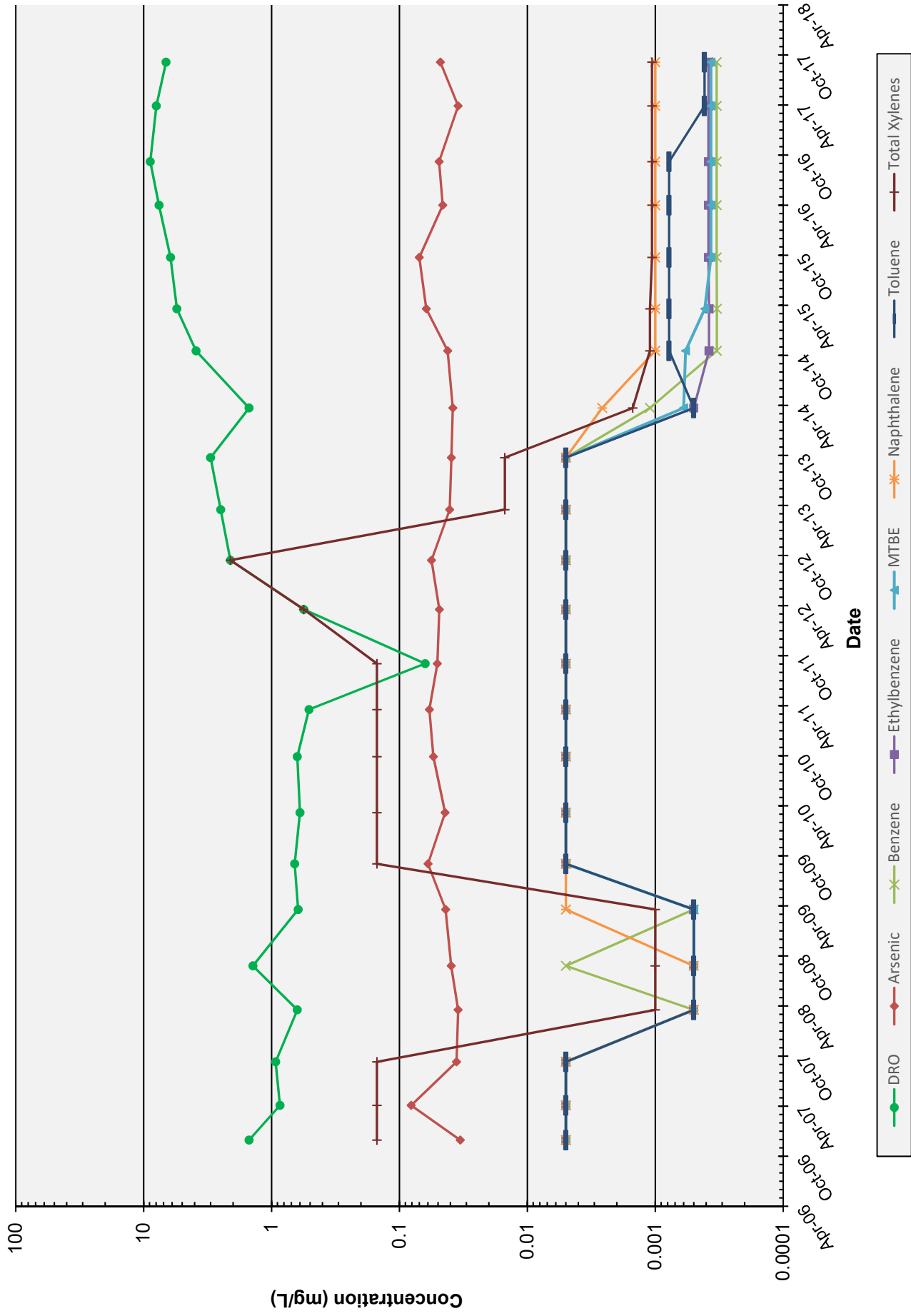


NCL-34A: COC Concentrations

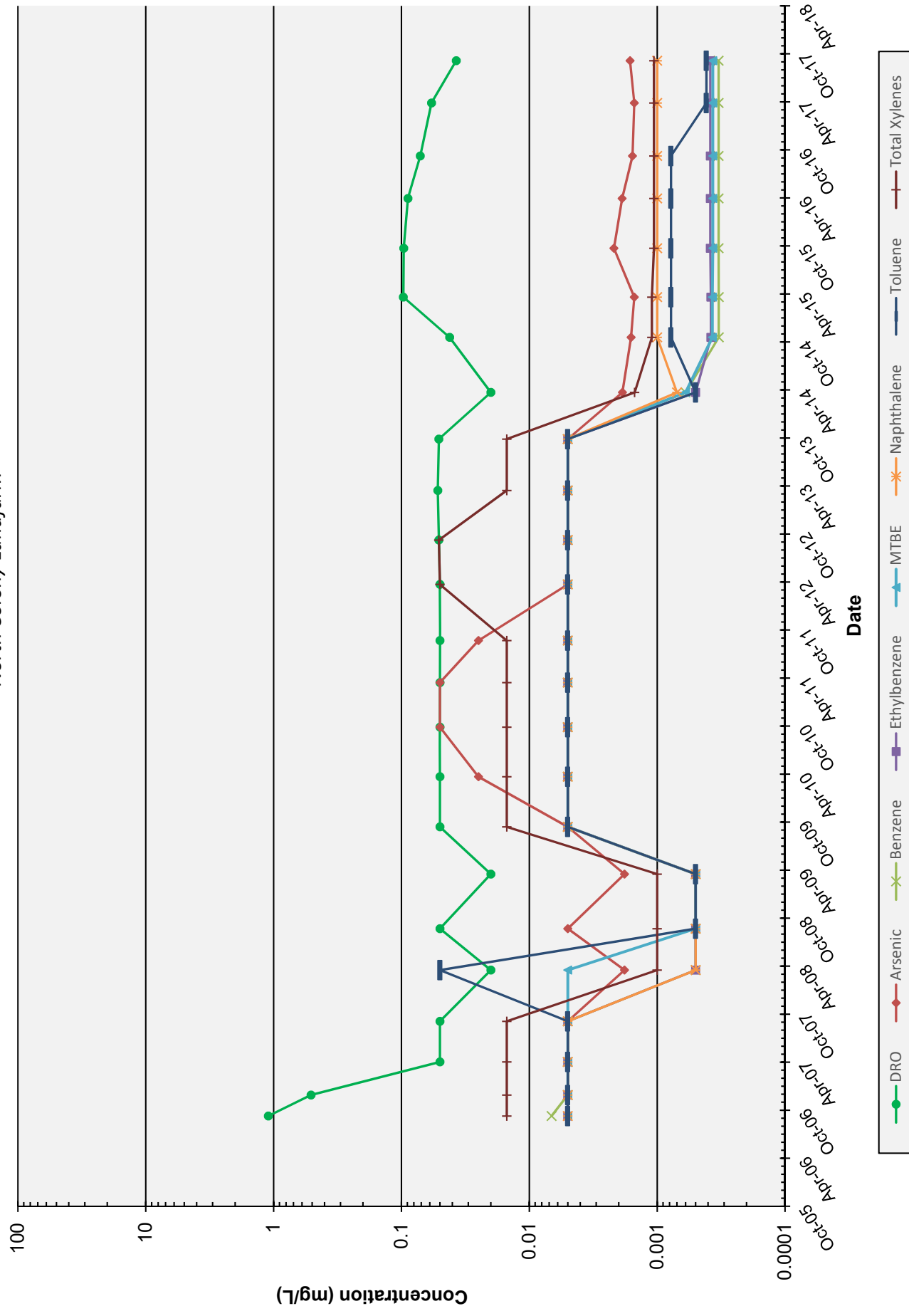
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm



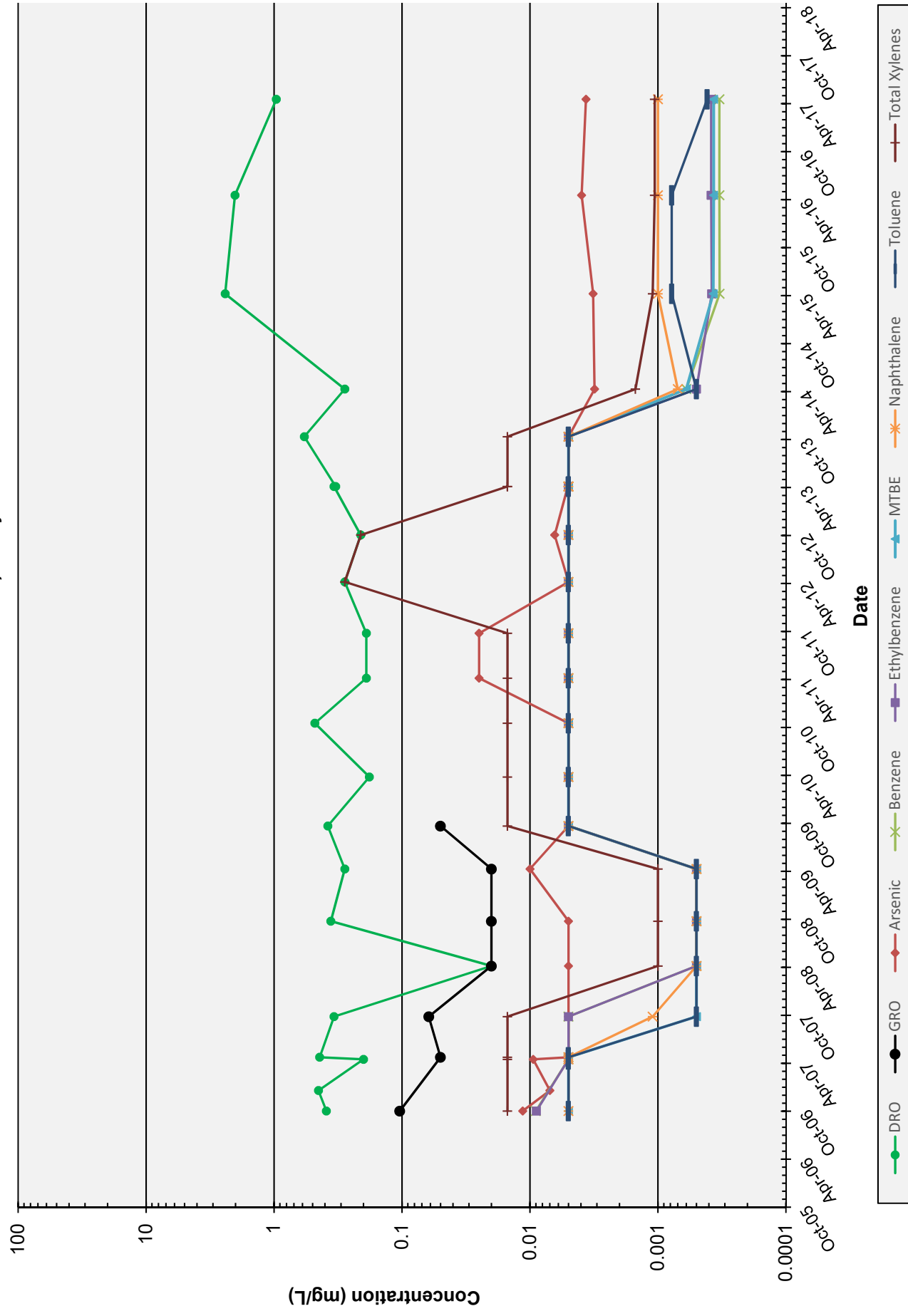
NCL-44: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm



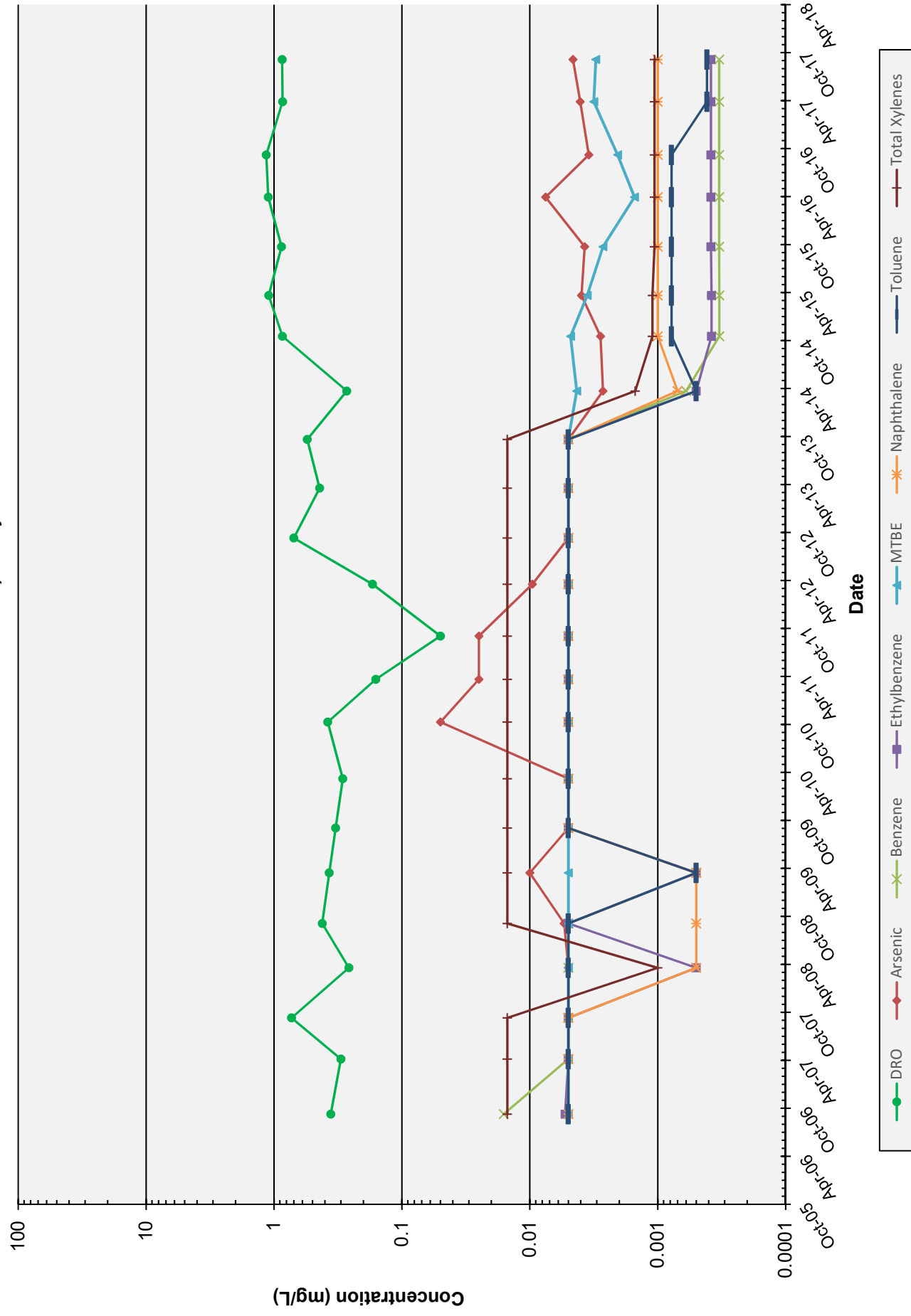
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm



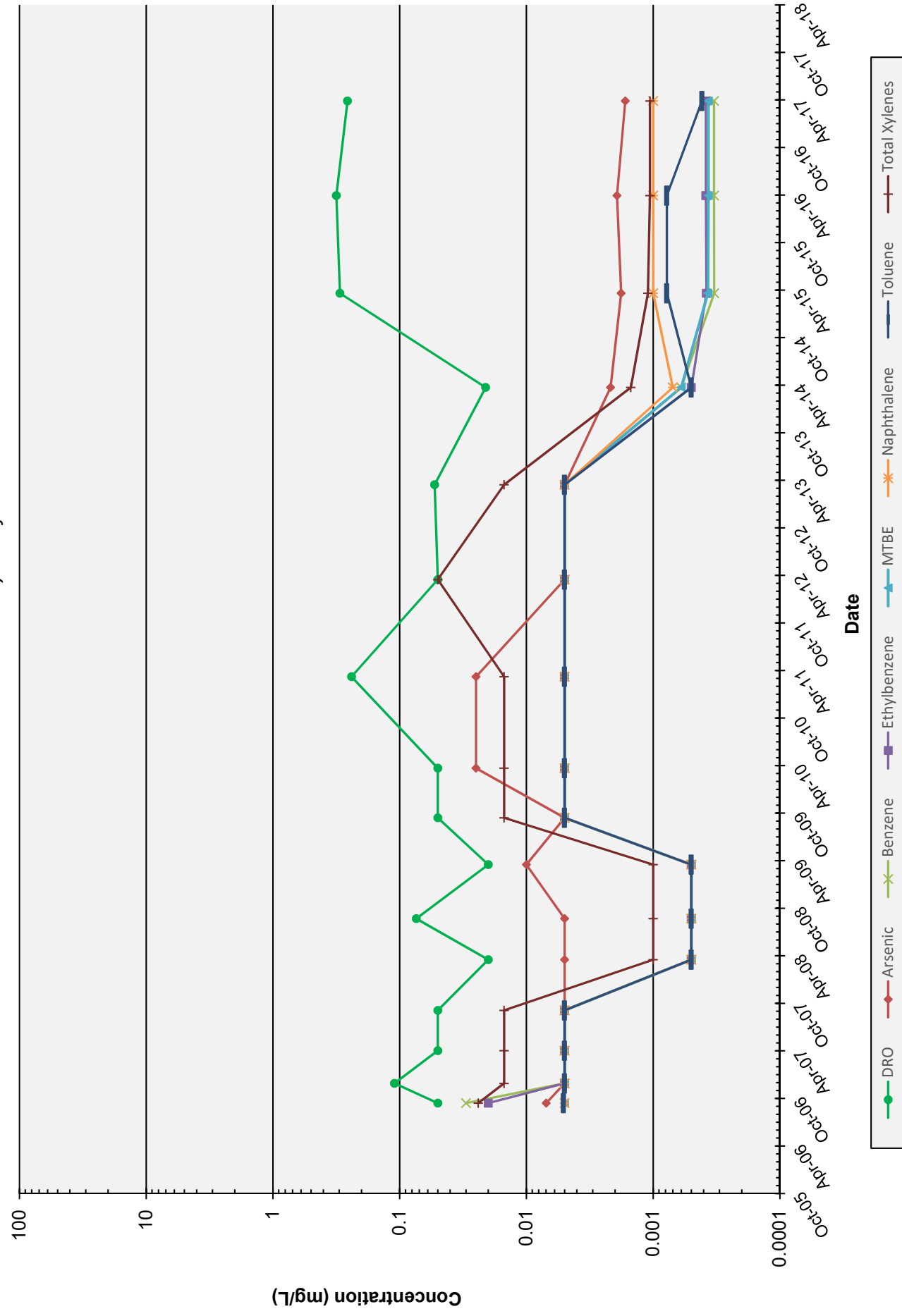
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm



HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm

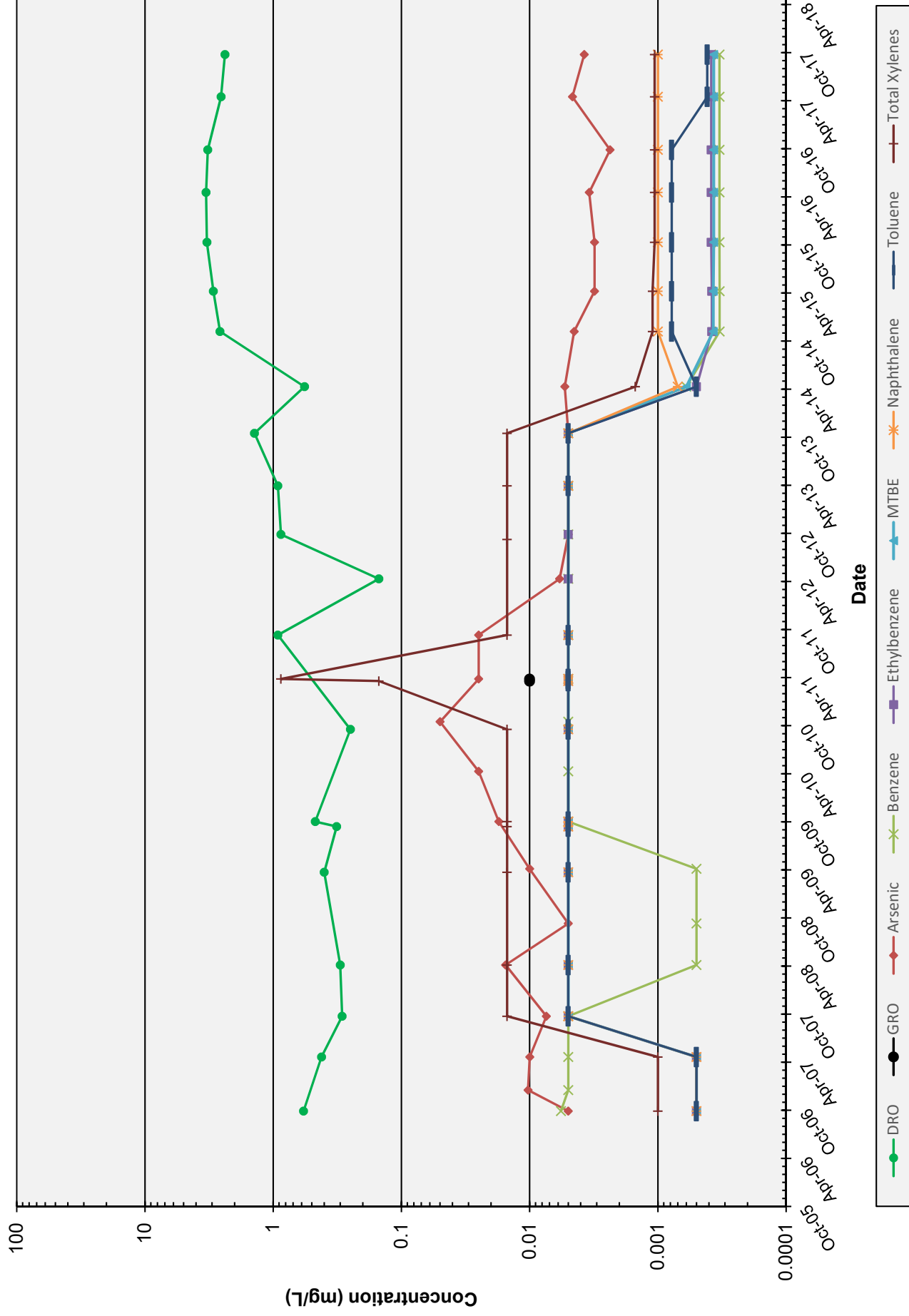


HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm

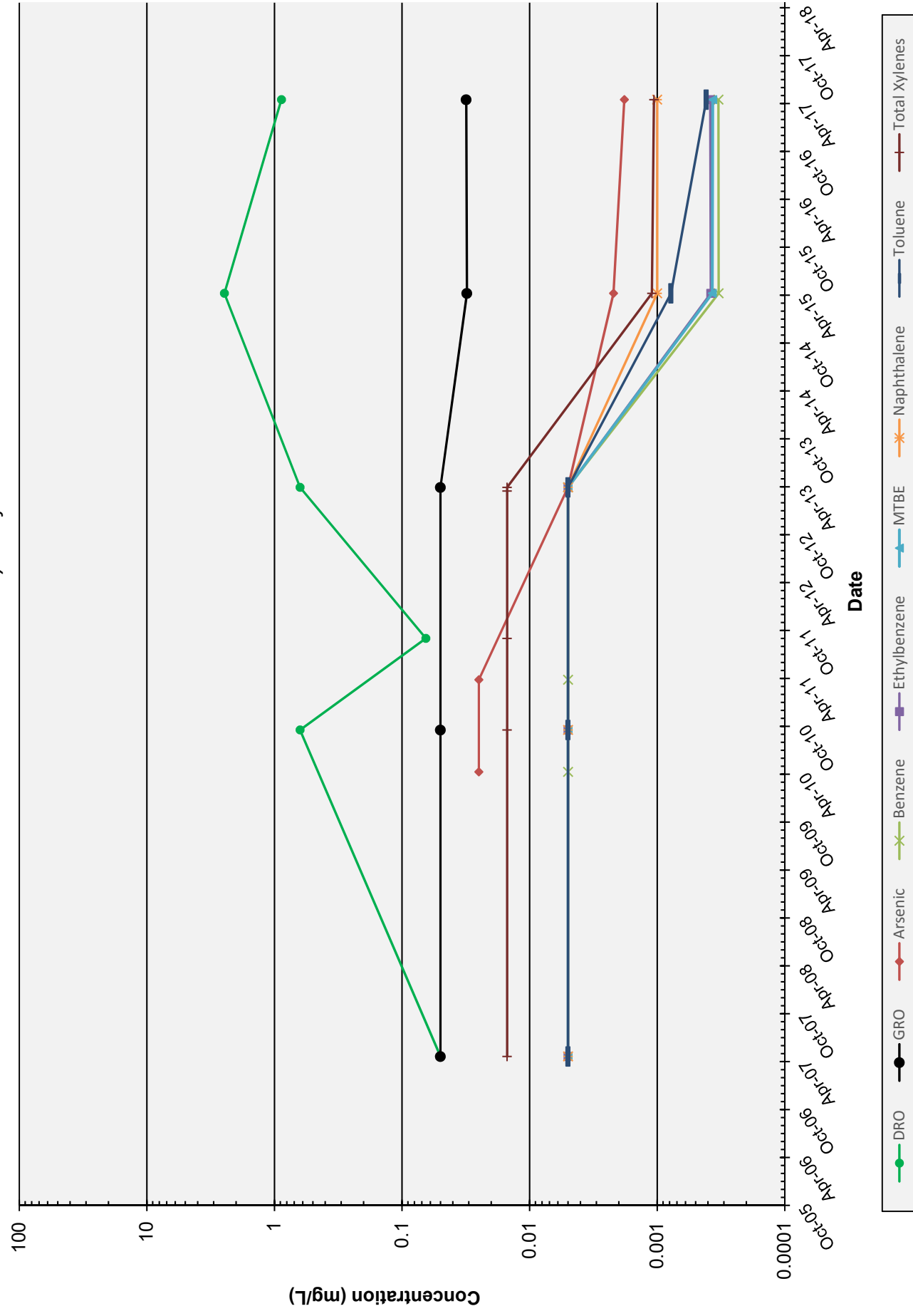


MW-54A: COC Concentrations

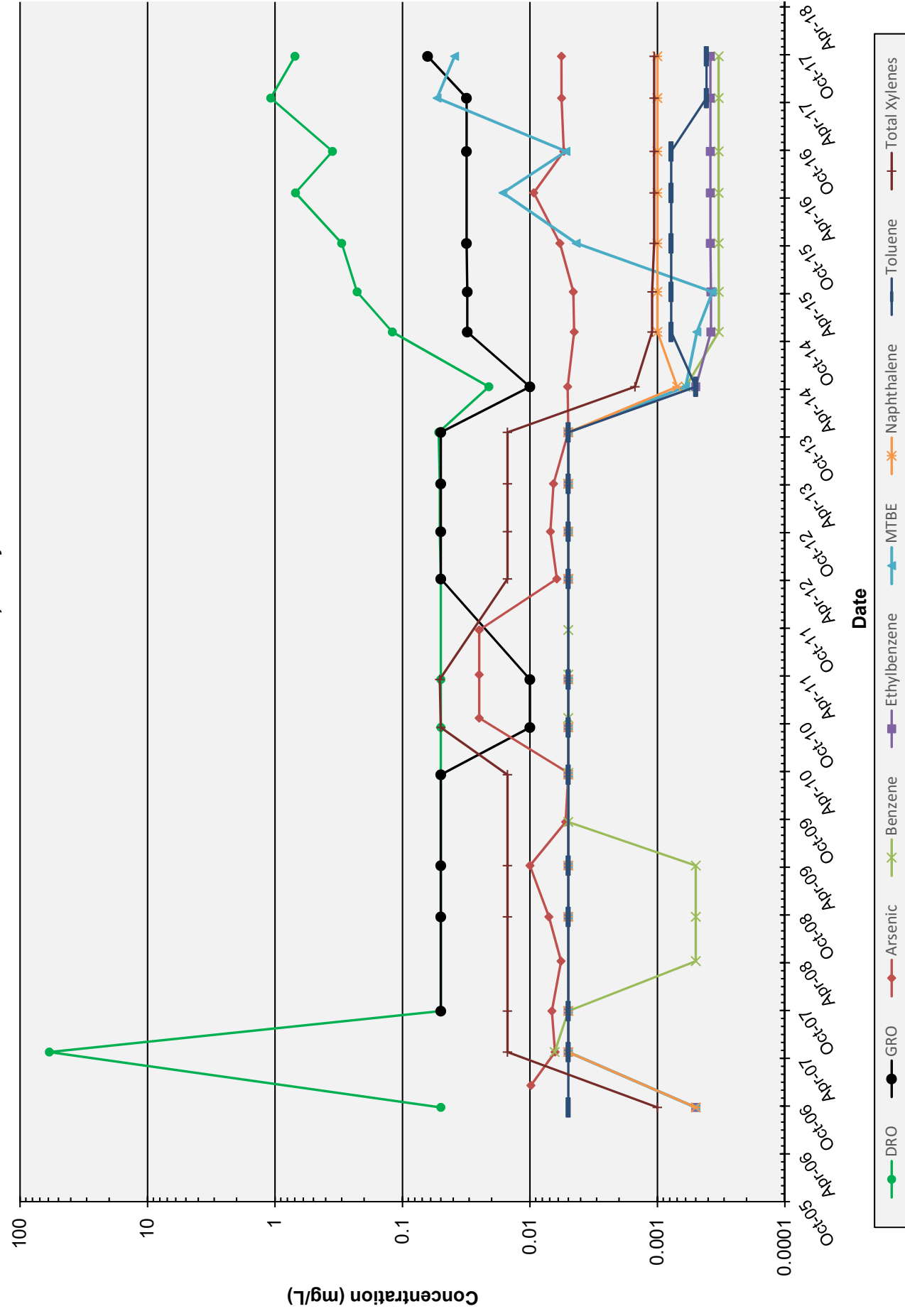
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm



HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm



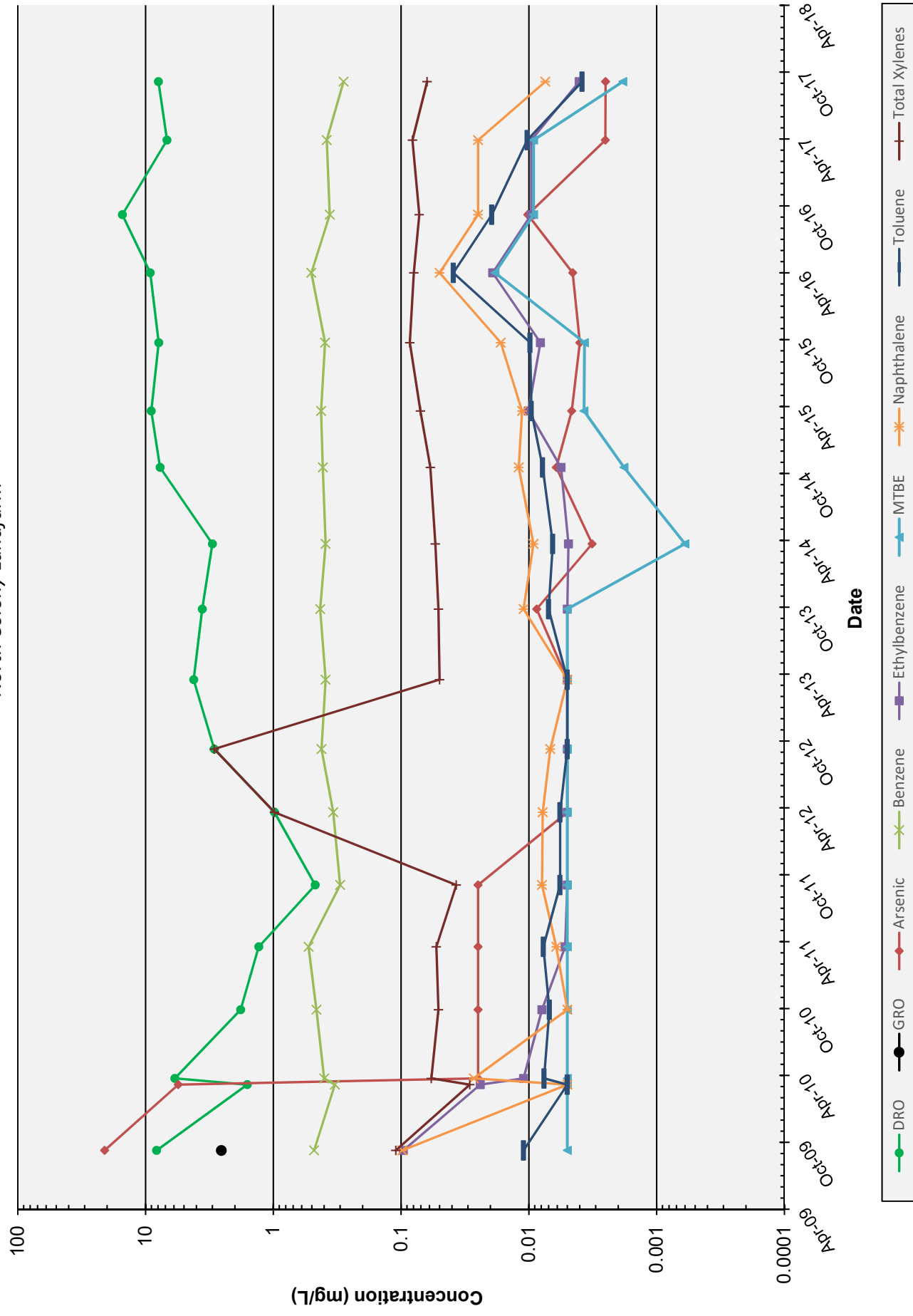
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm



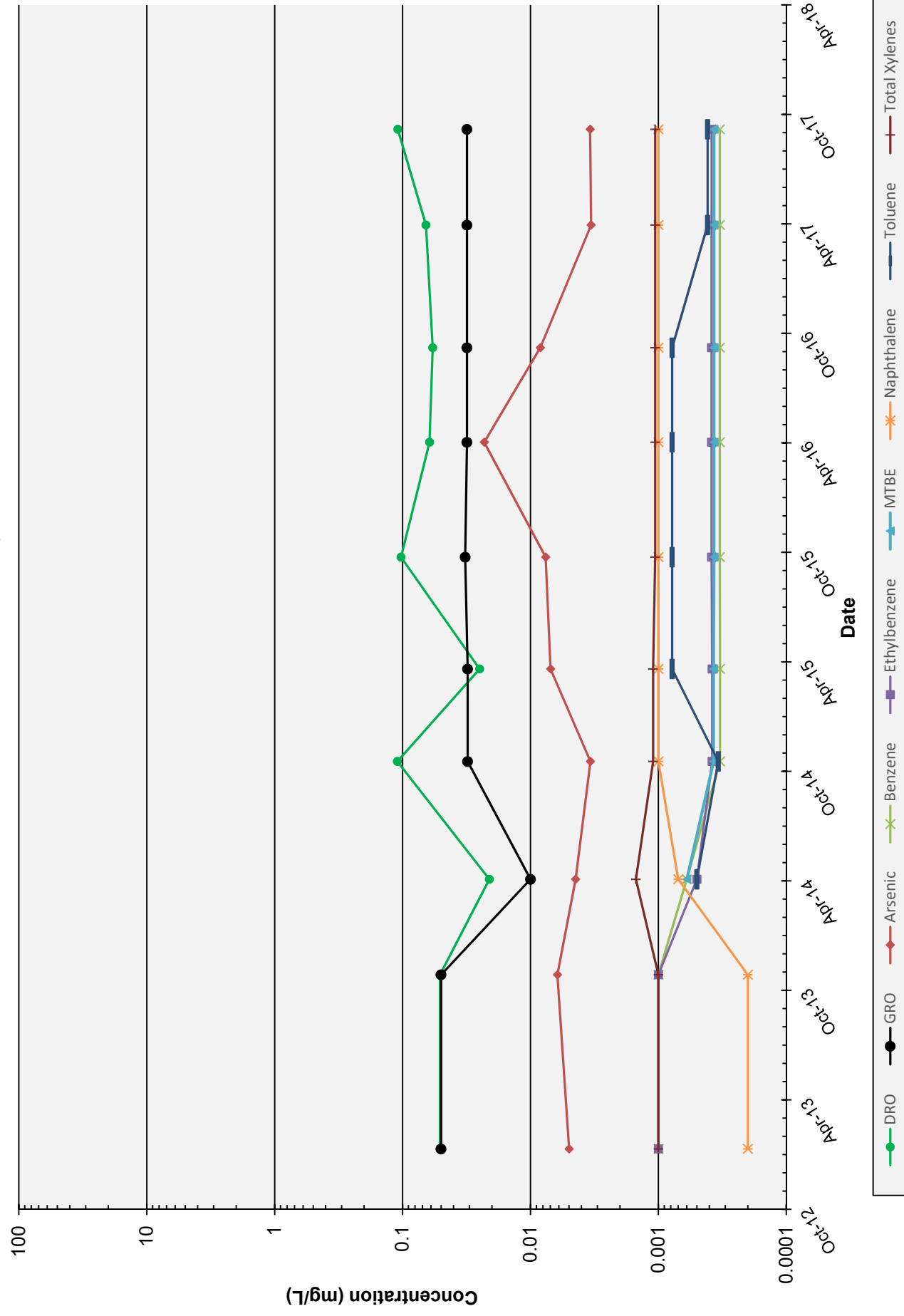
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm



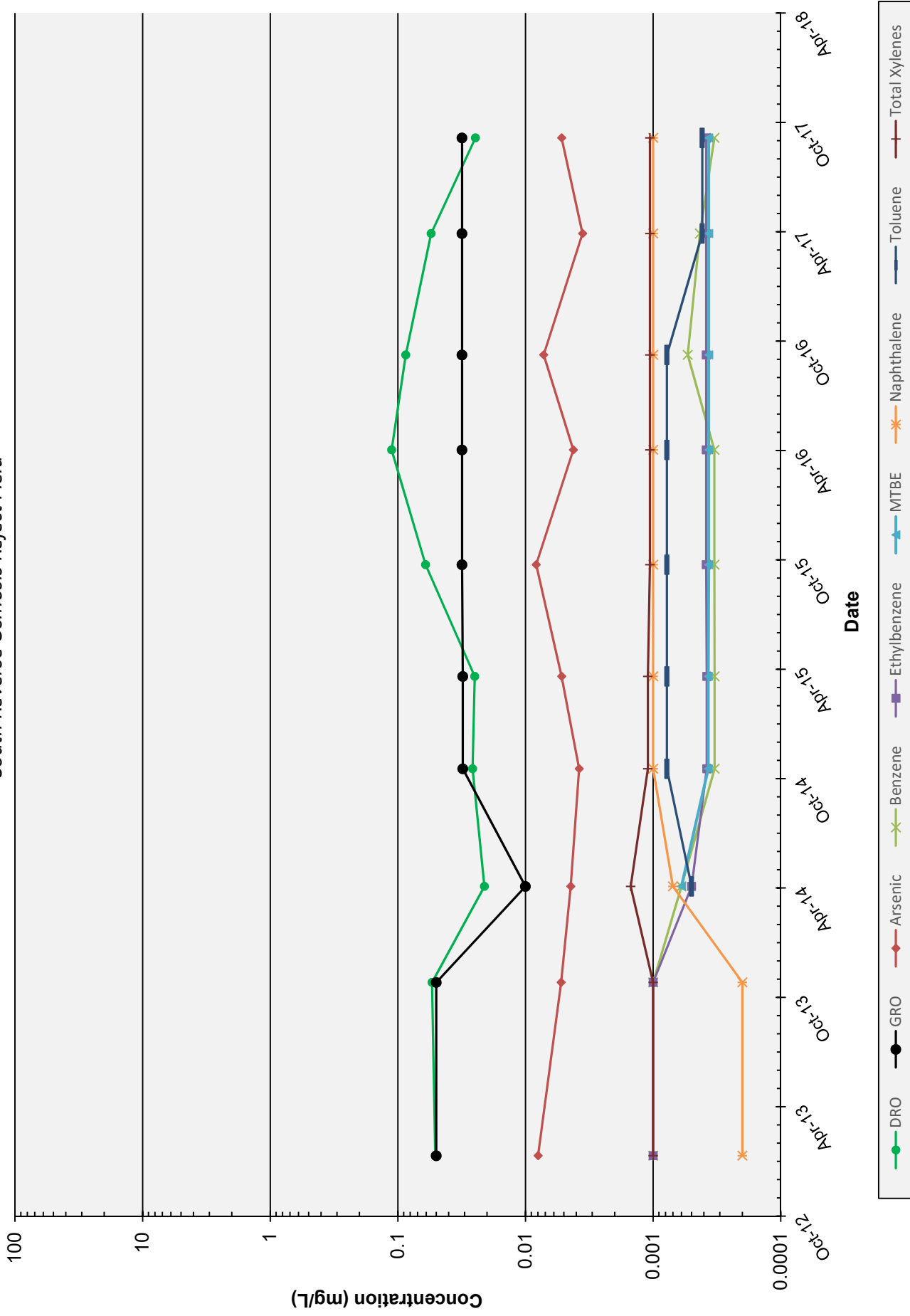
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Colony Landfarm



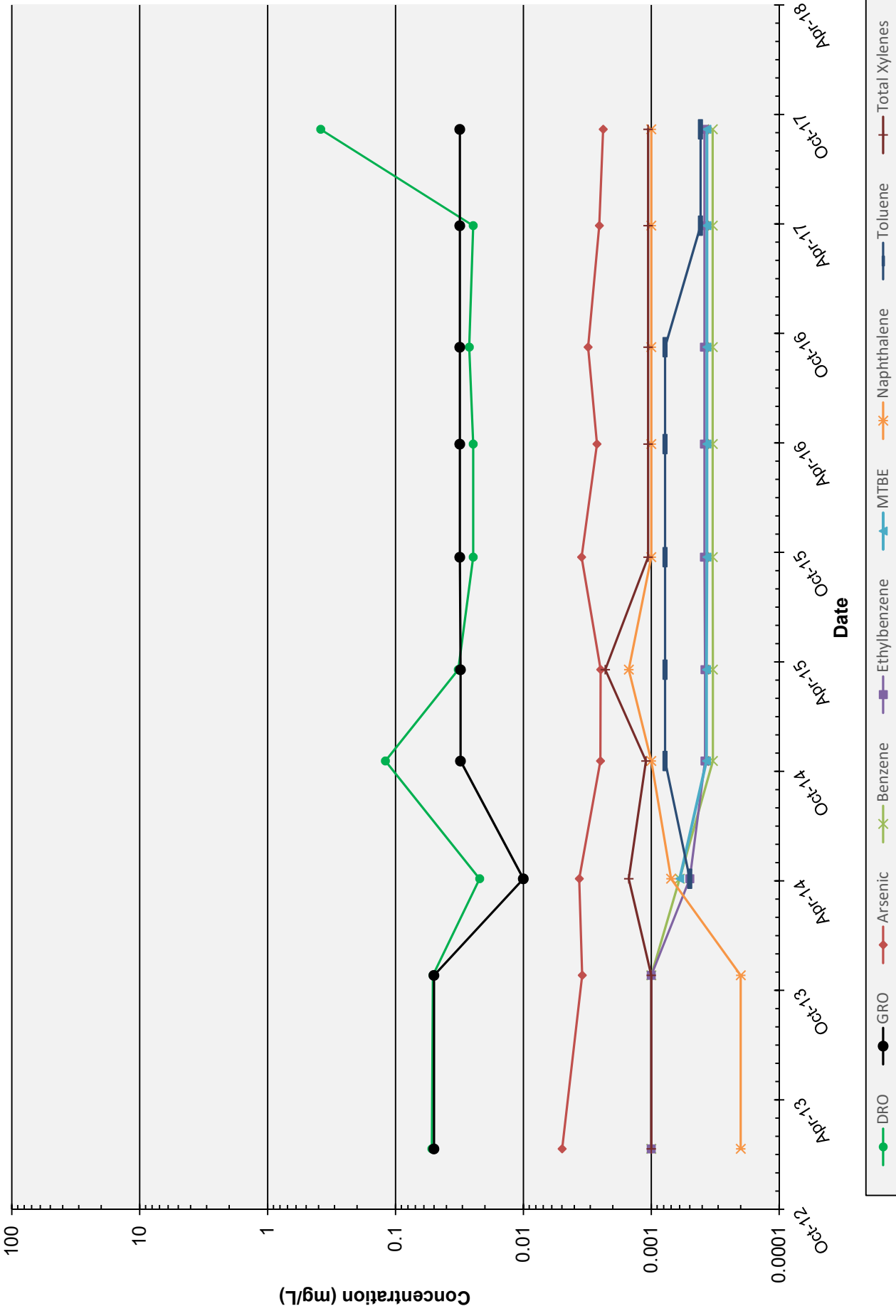
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Reverse Osmosis Reject Fields



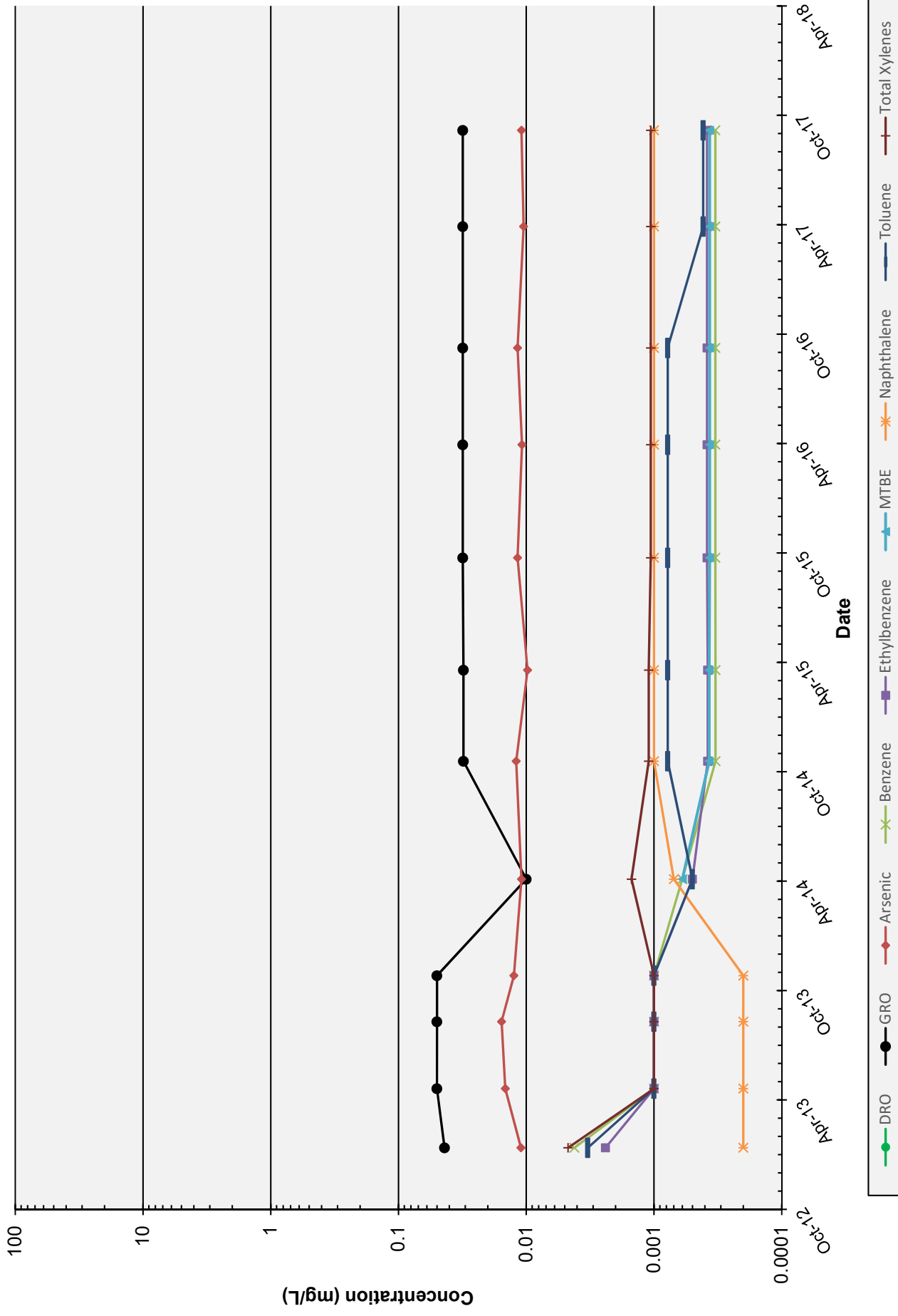
MW-116: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Reverse Osmosis Reject Field



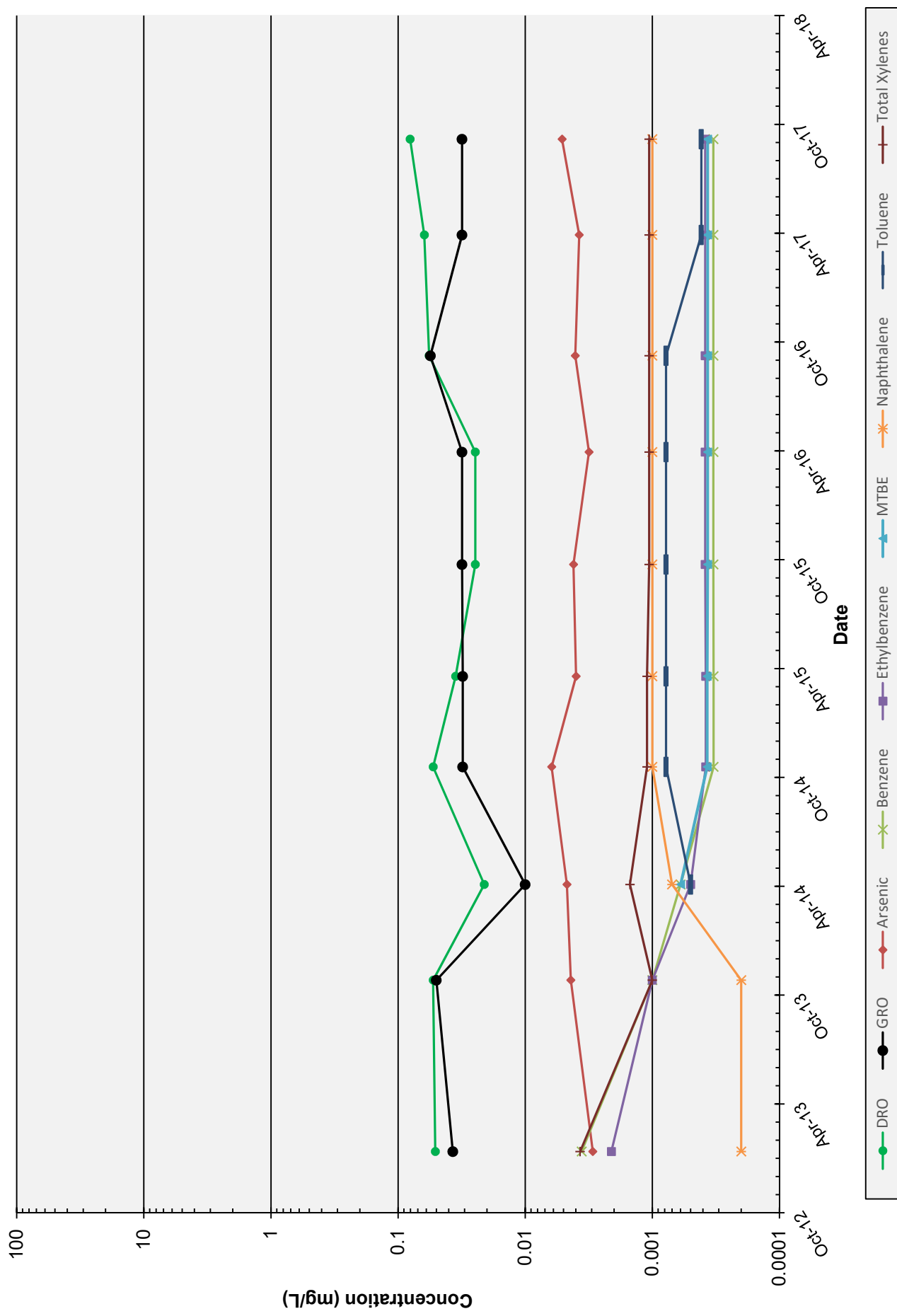
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Reverse Osmosis Reject Fields



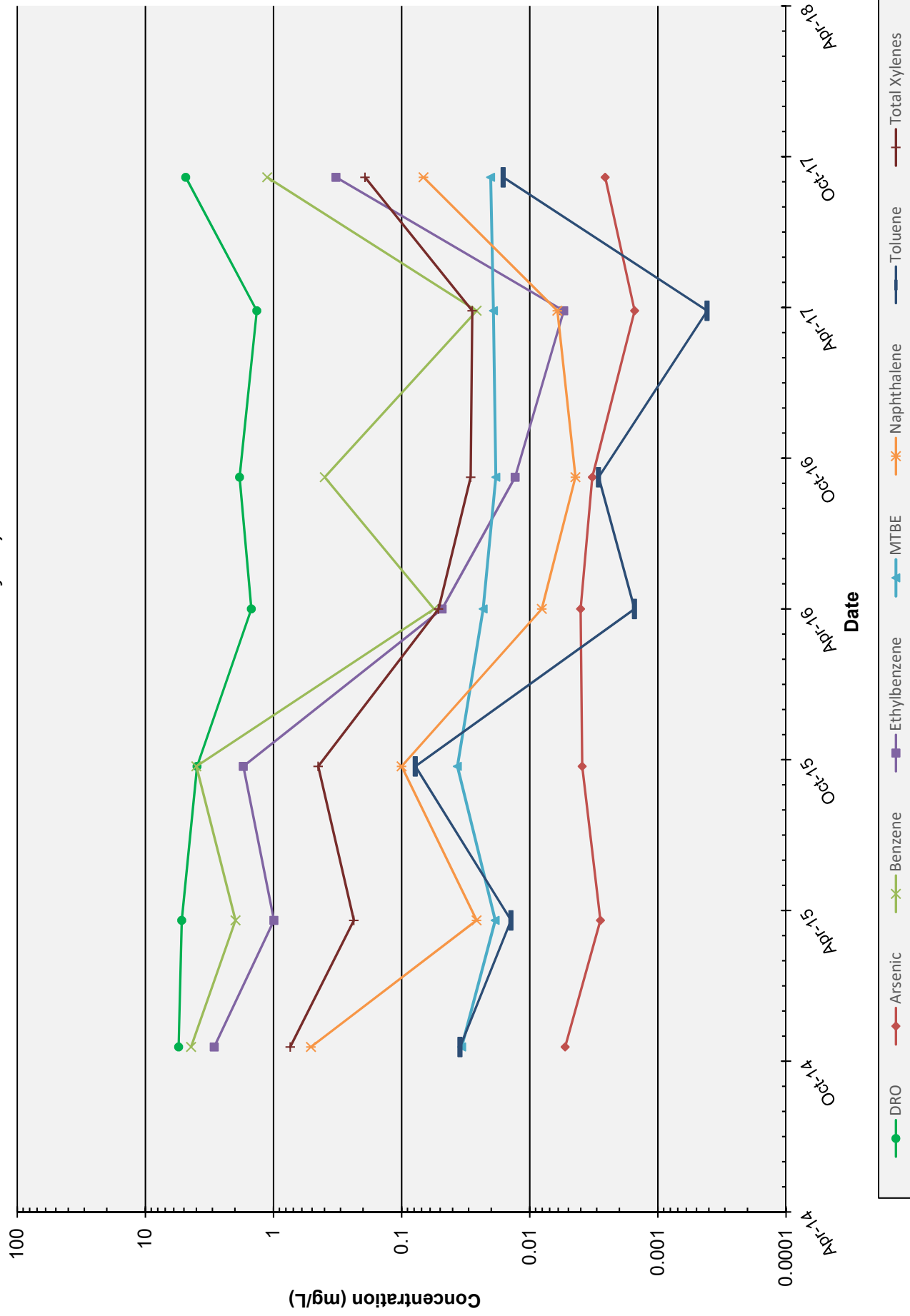
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Reverse Osmosis Reject Fields



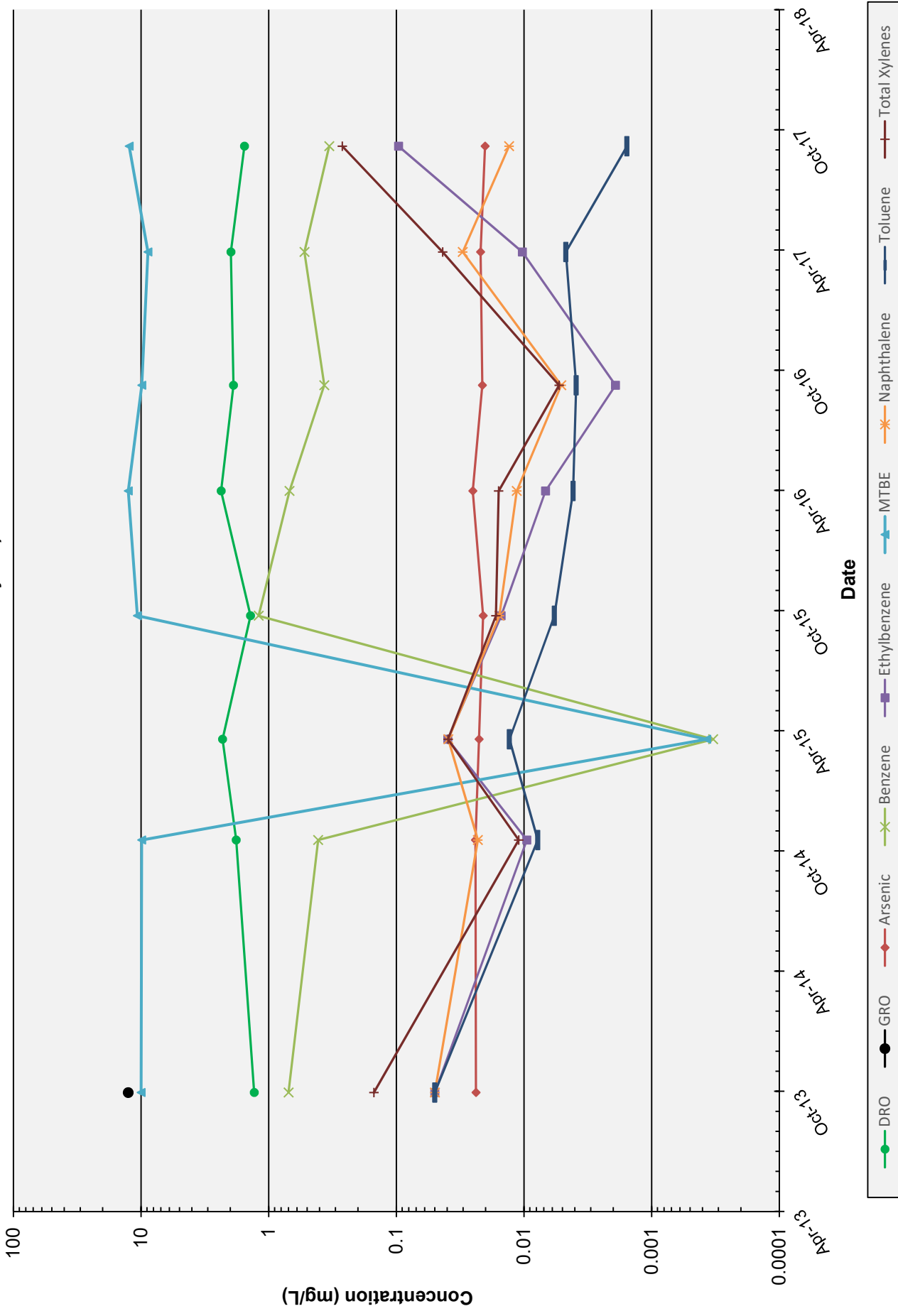
MW-119: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
North Reverse Osmosis Reject Fields



KWB-2R: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area

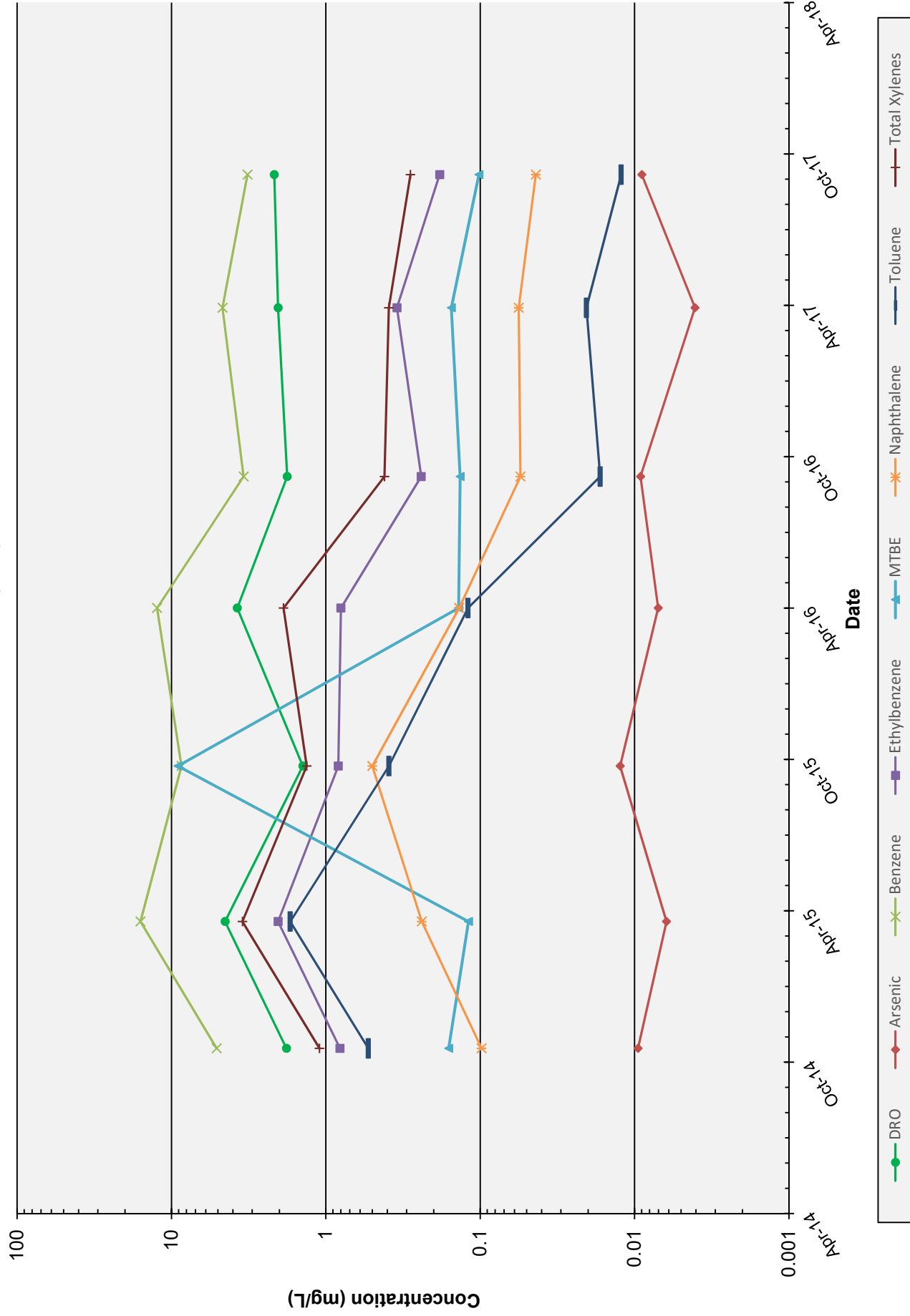


HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



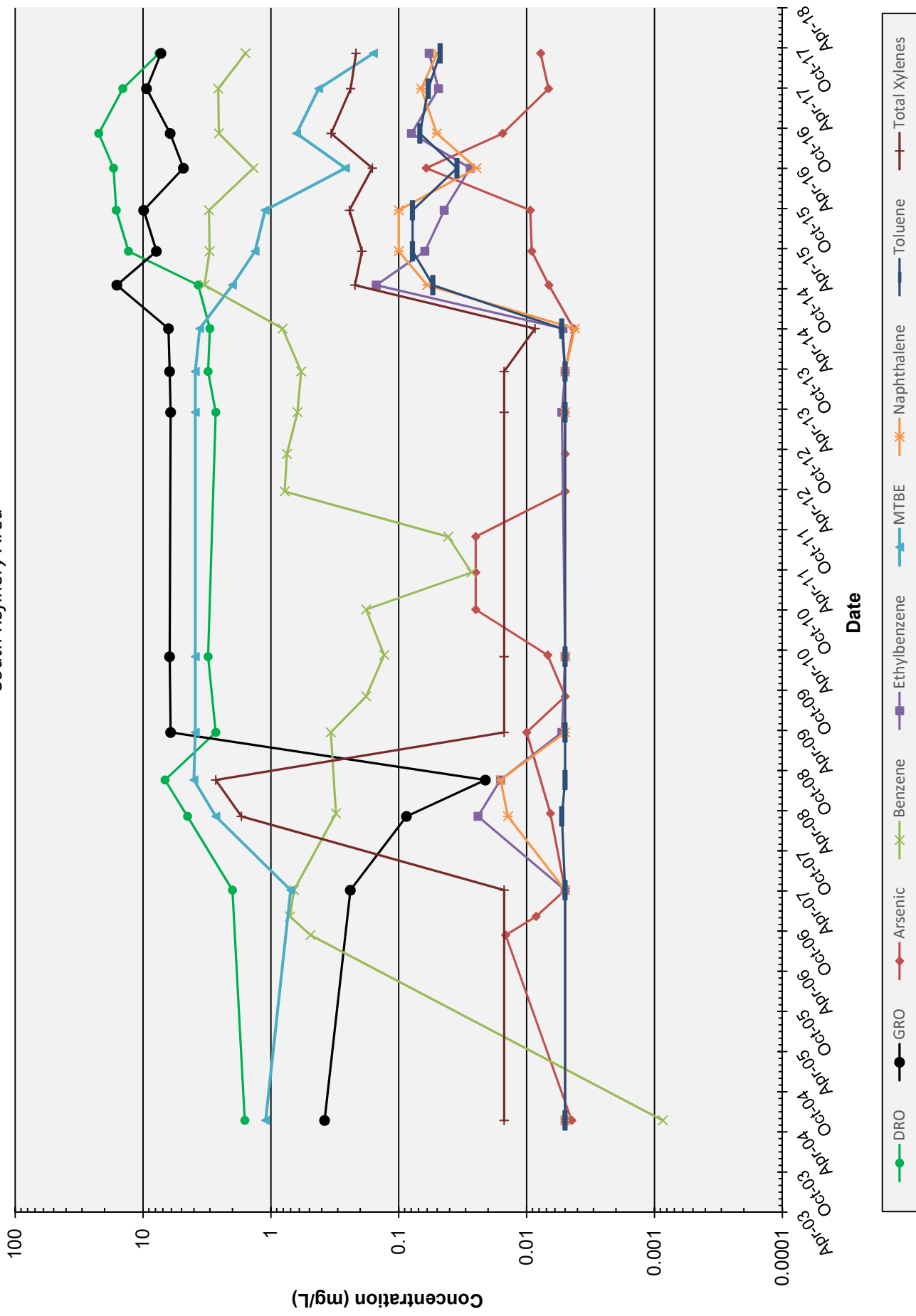
KWB-6: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area

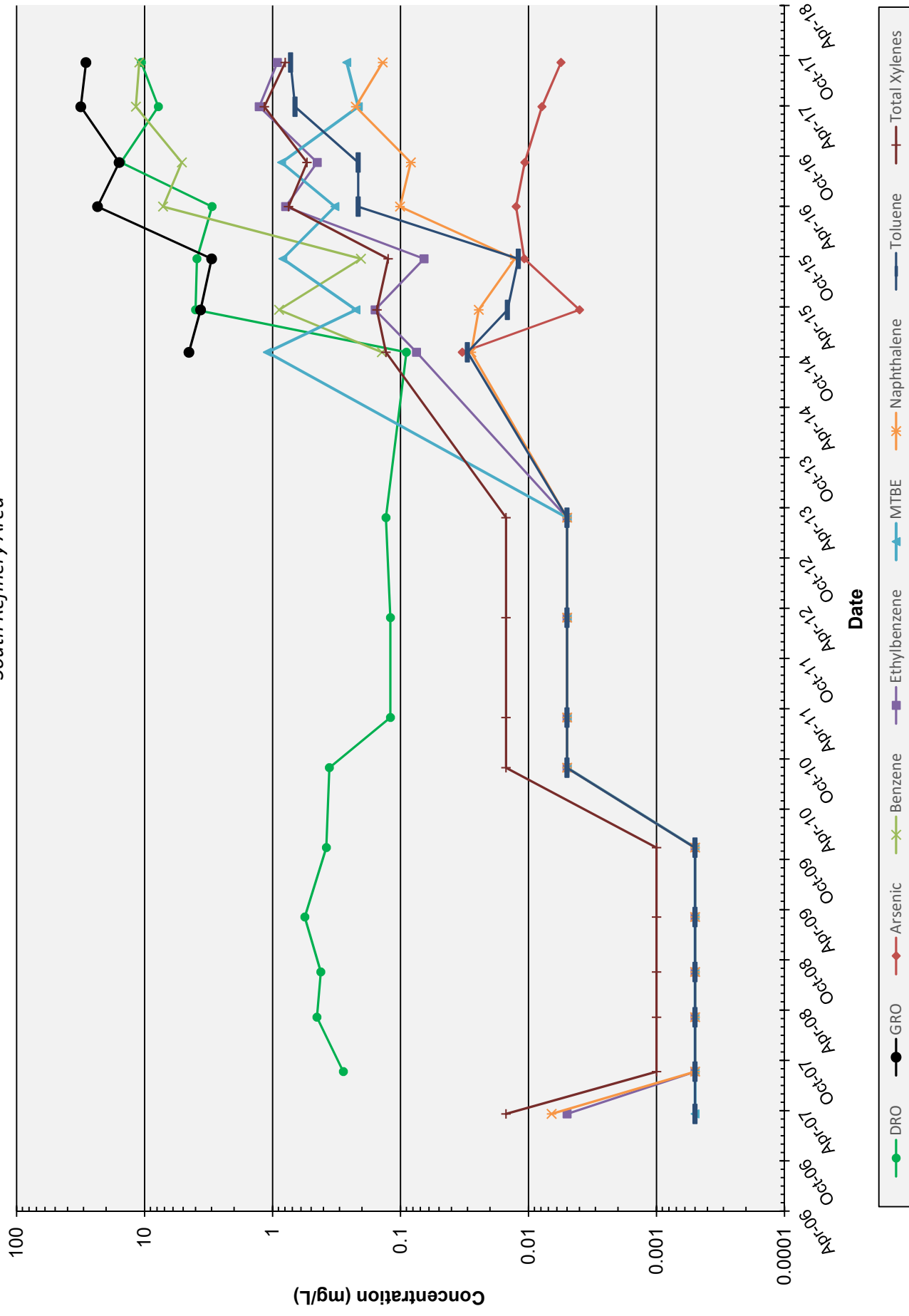


MW-28: COC Concentrations

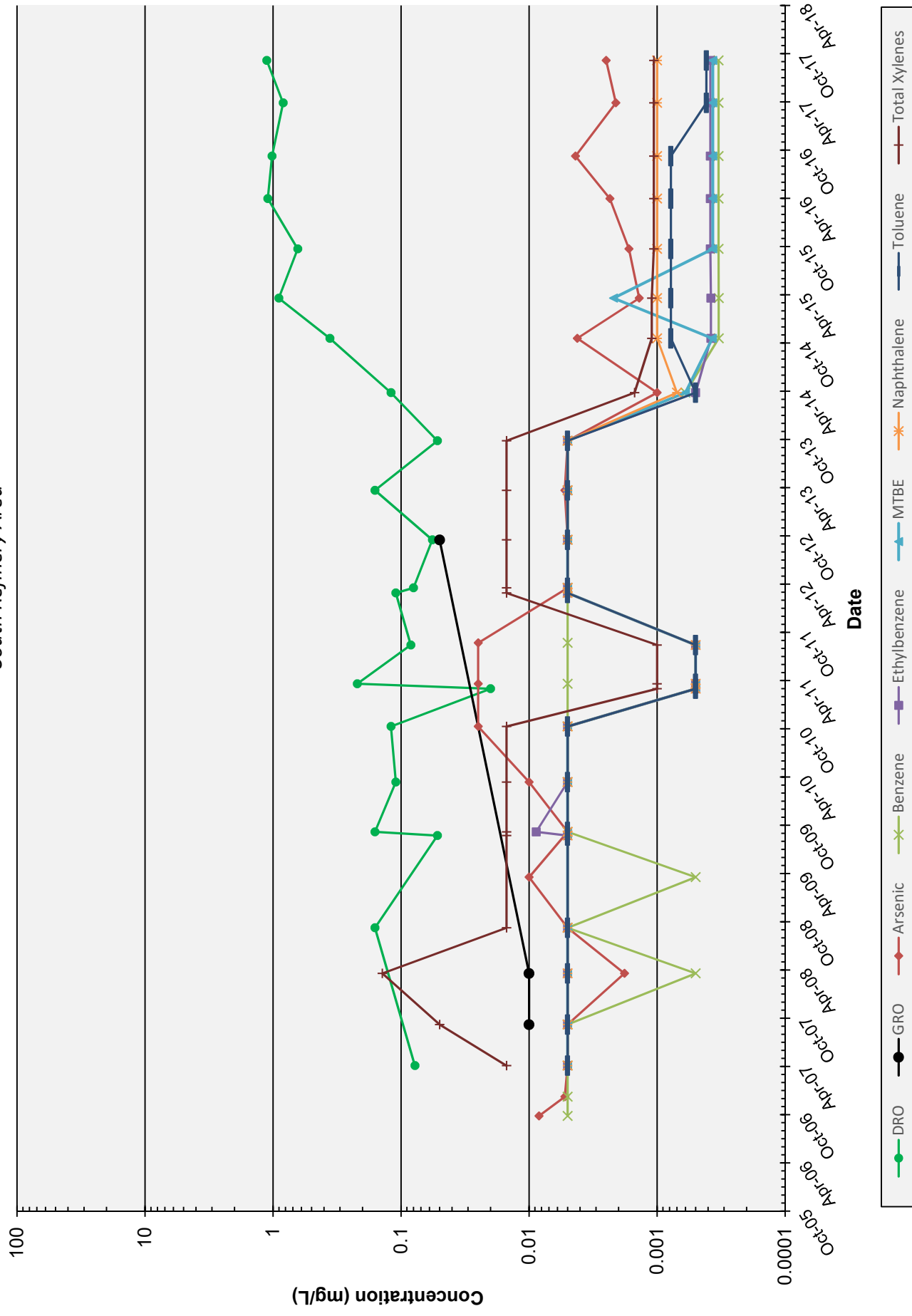
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



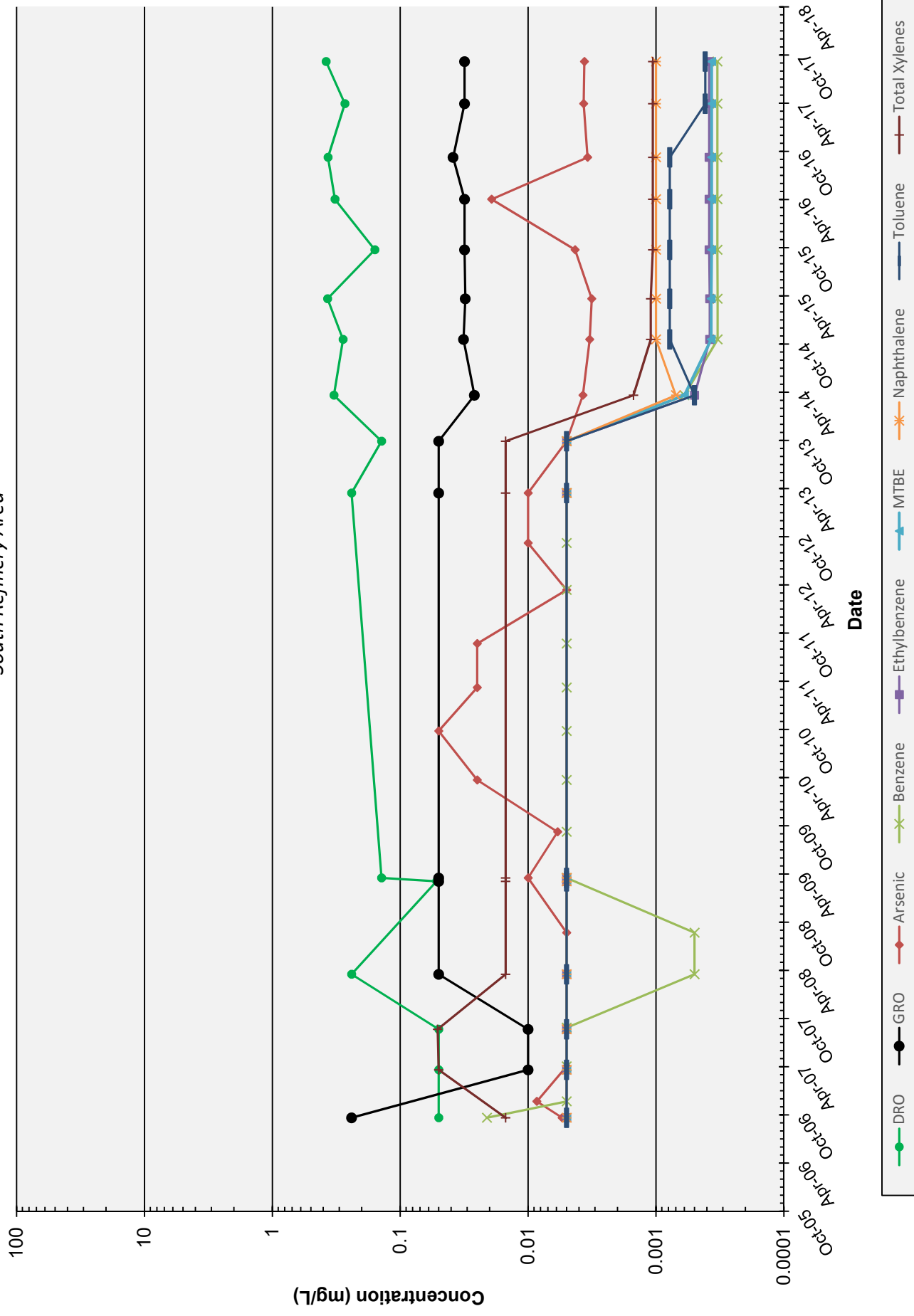
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



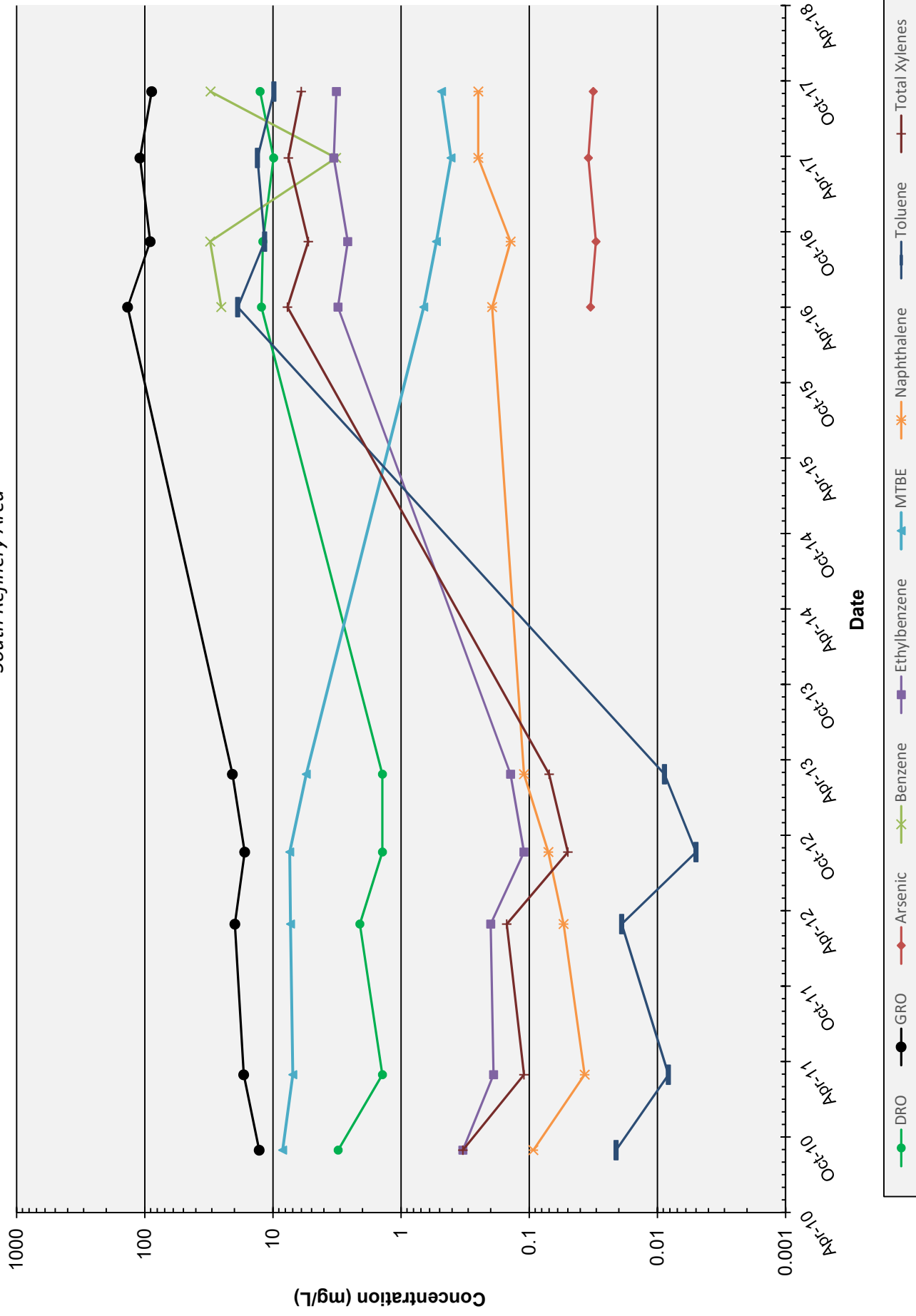
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area

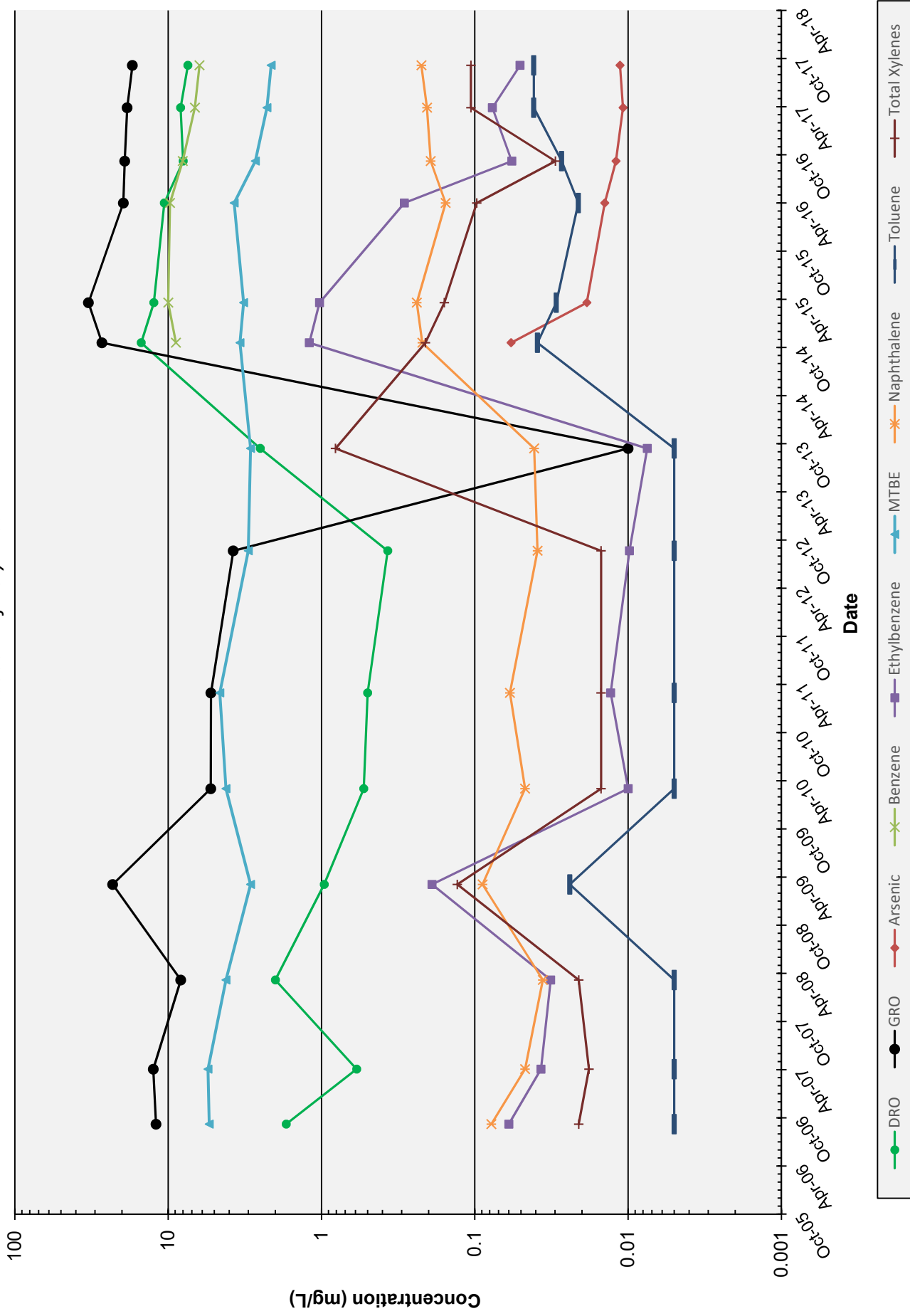


HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area

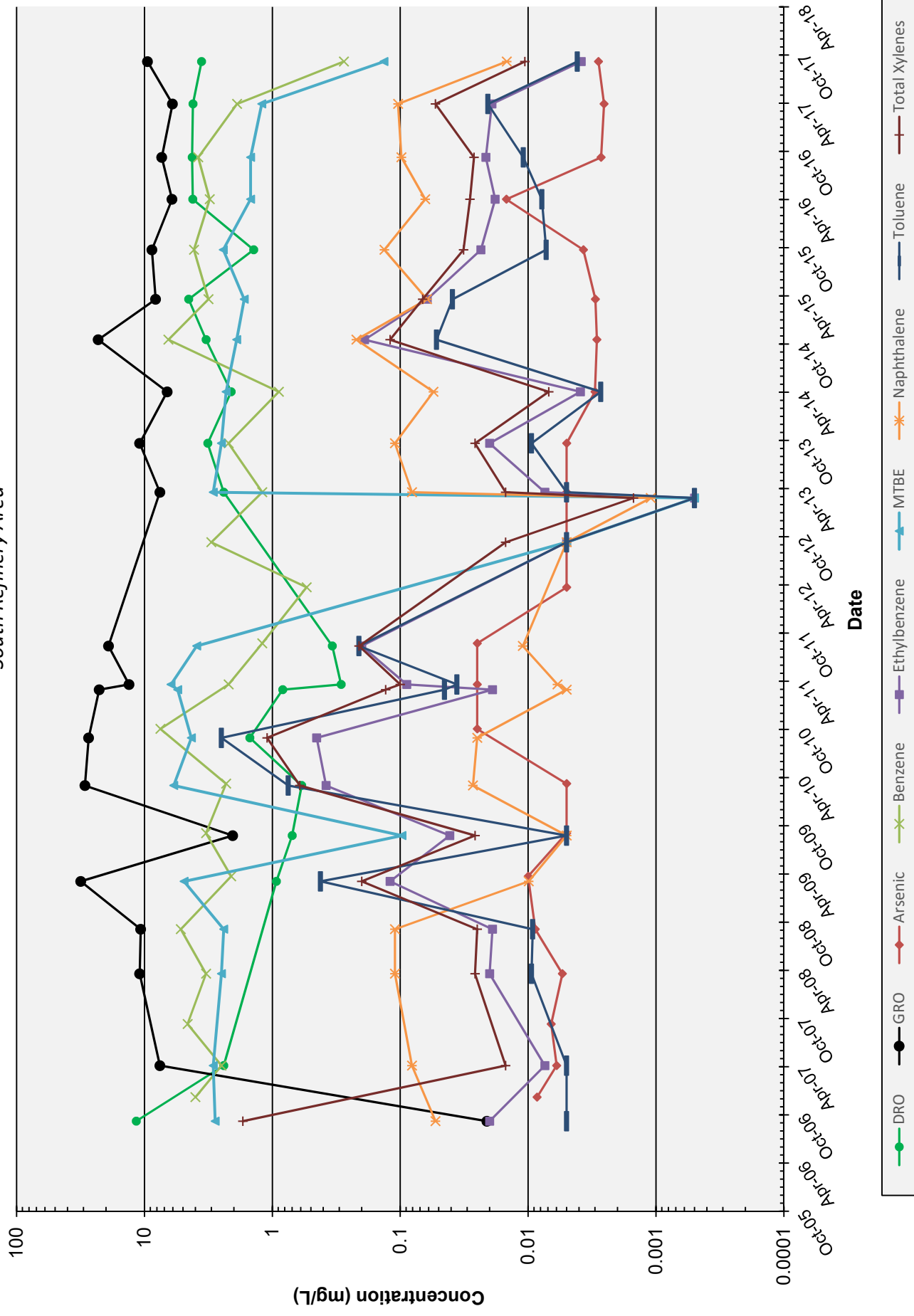


MW-65: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area

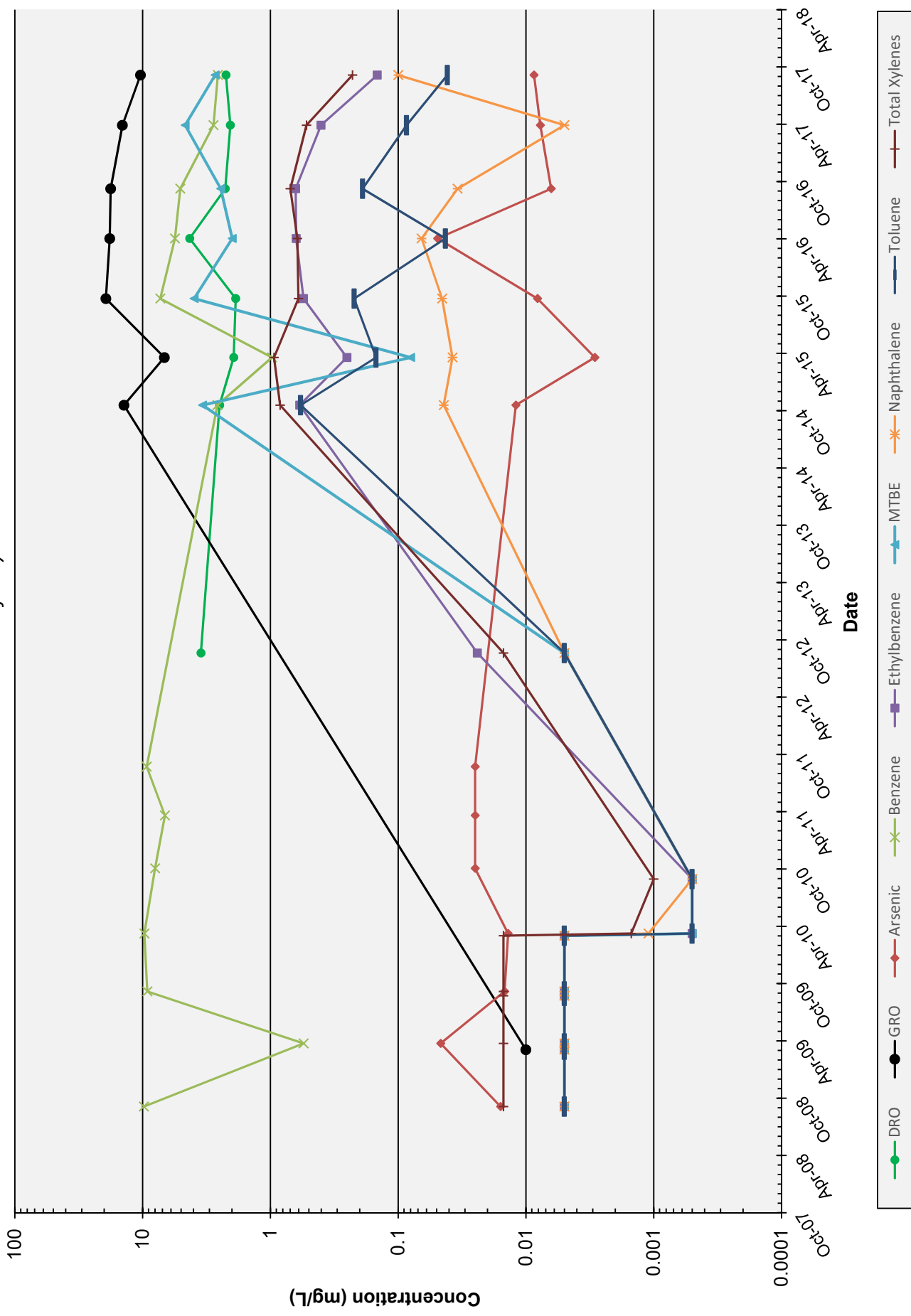


HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area

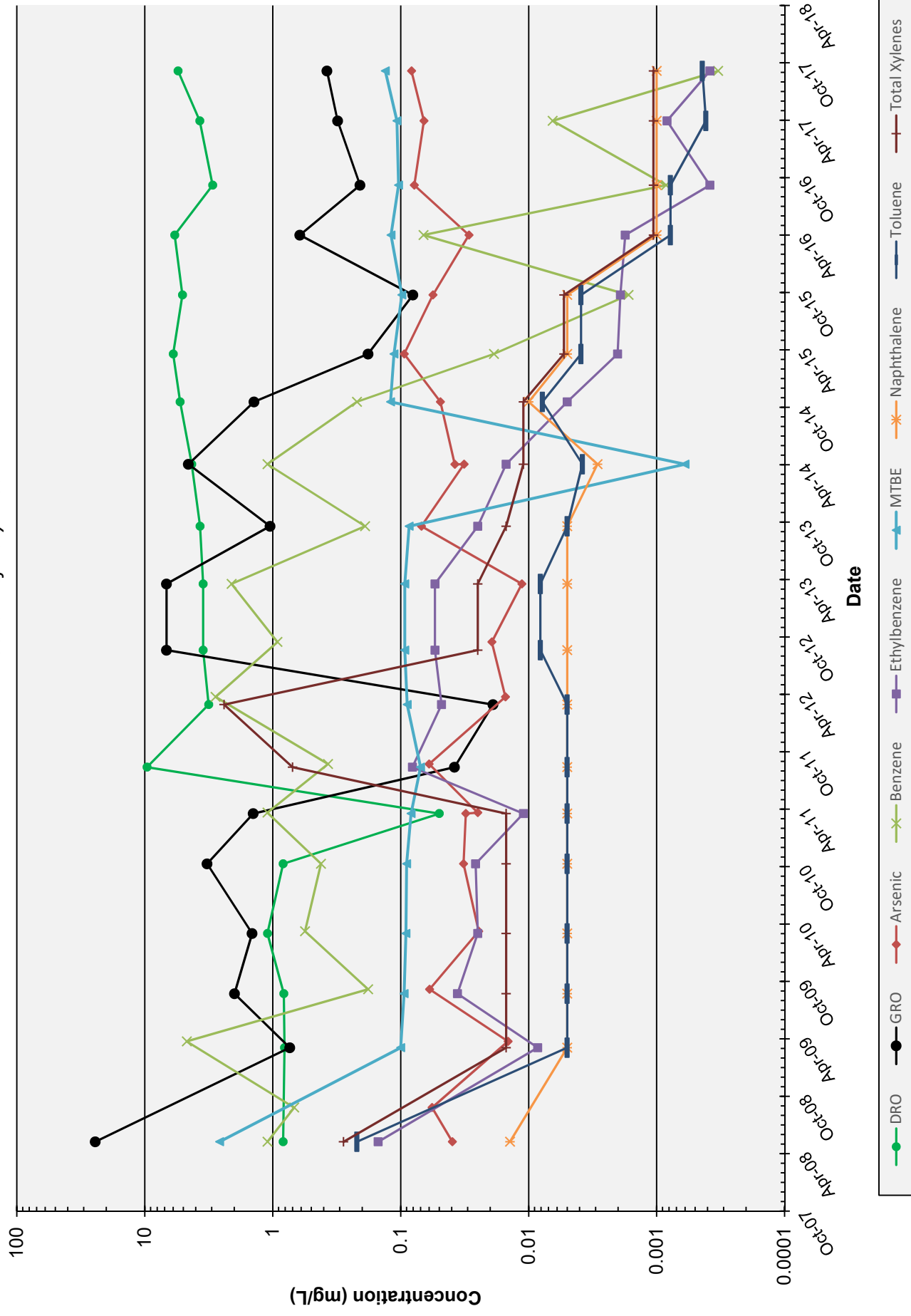


MW-99: COC Concentrations

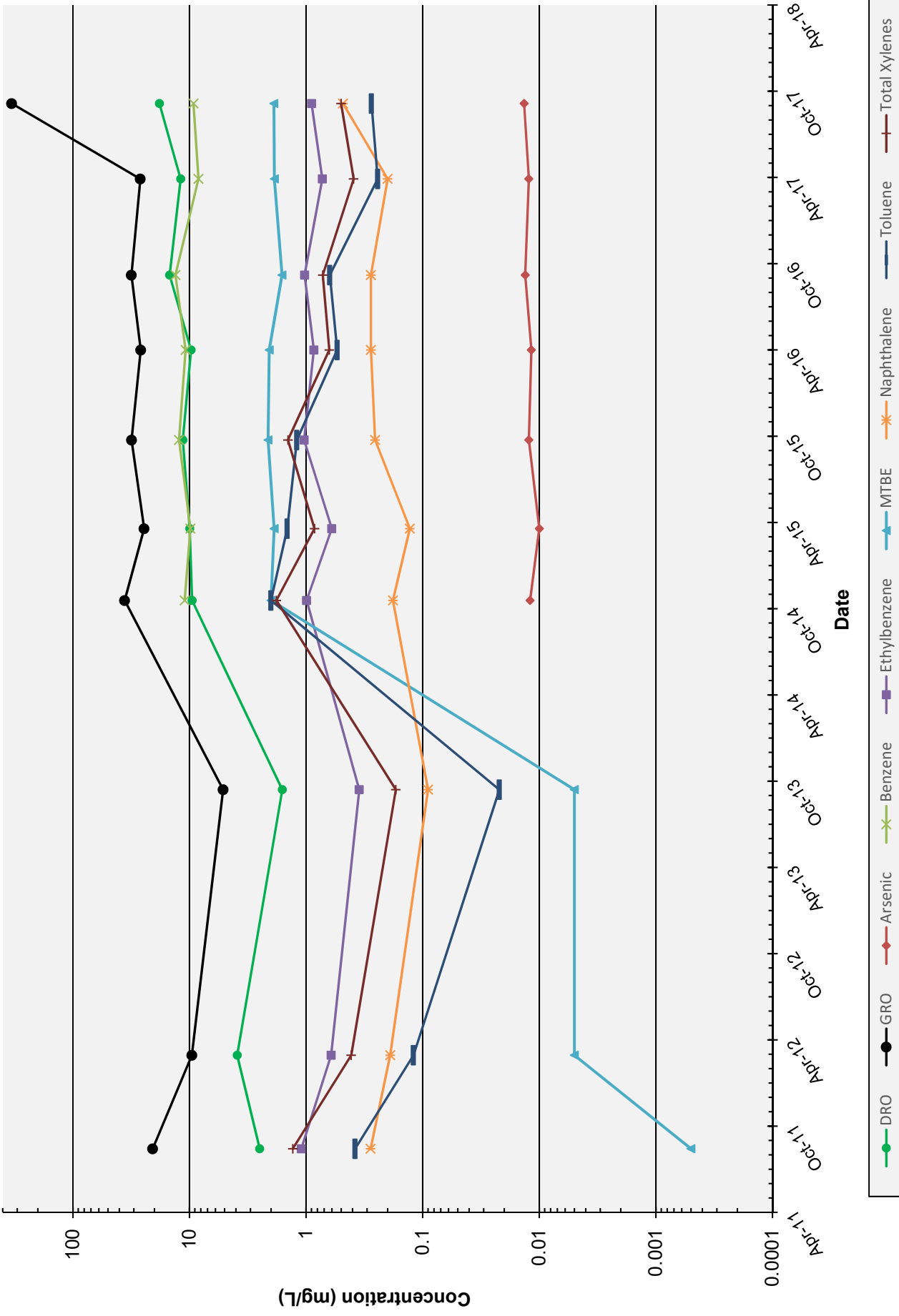
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



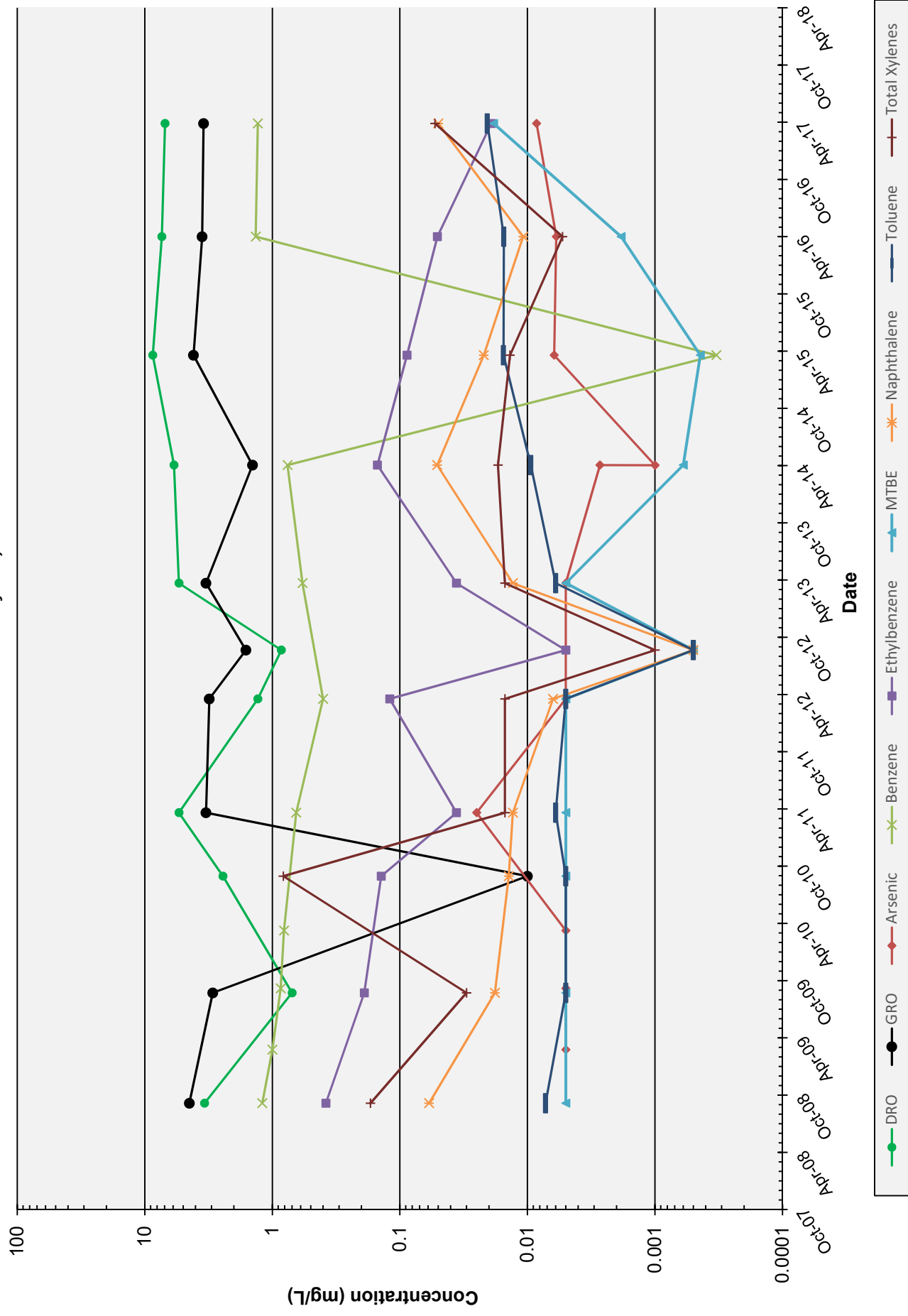
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



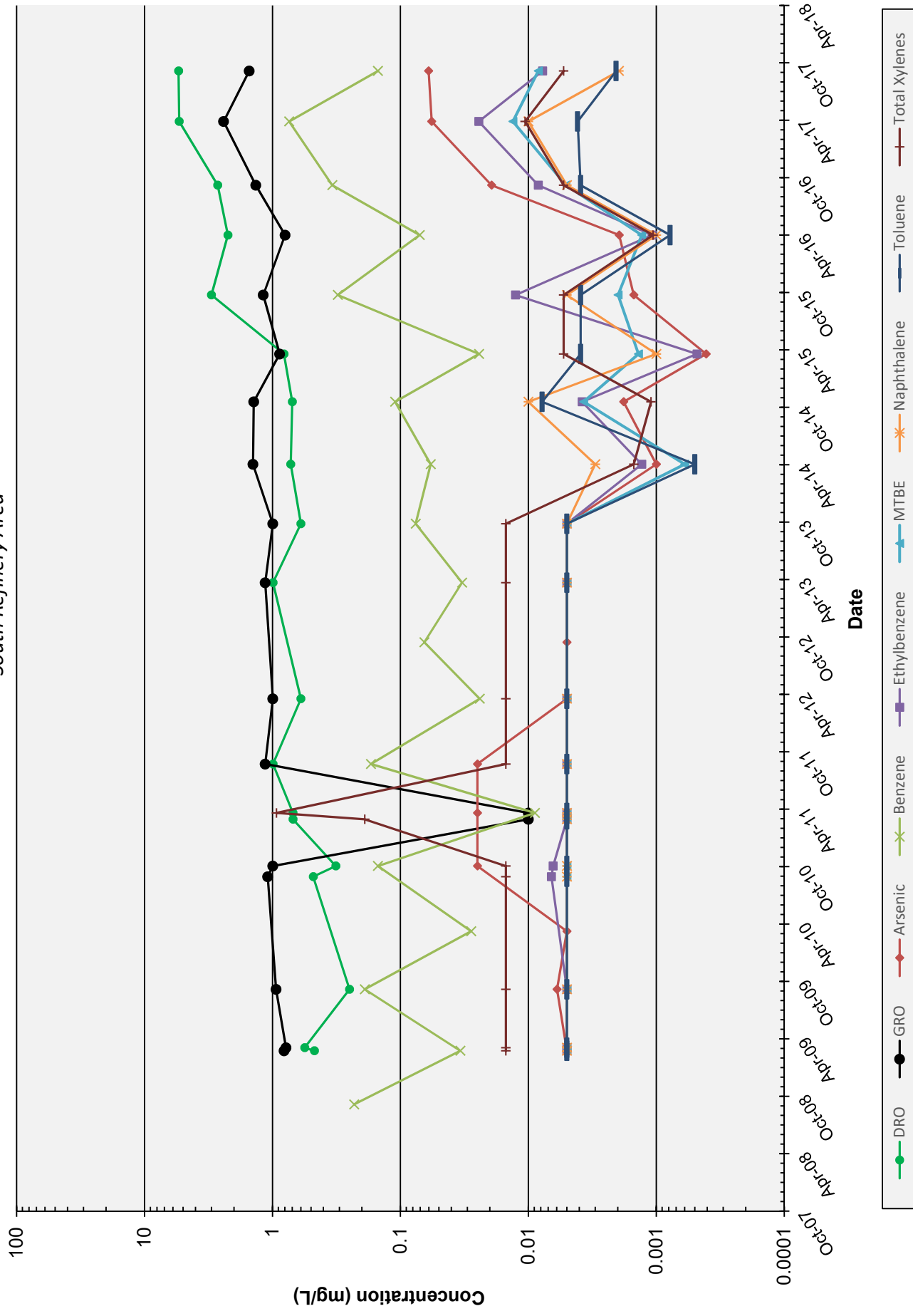
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



MW-103: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area

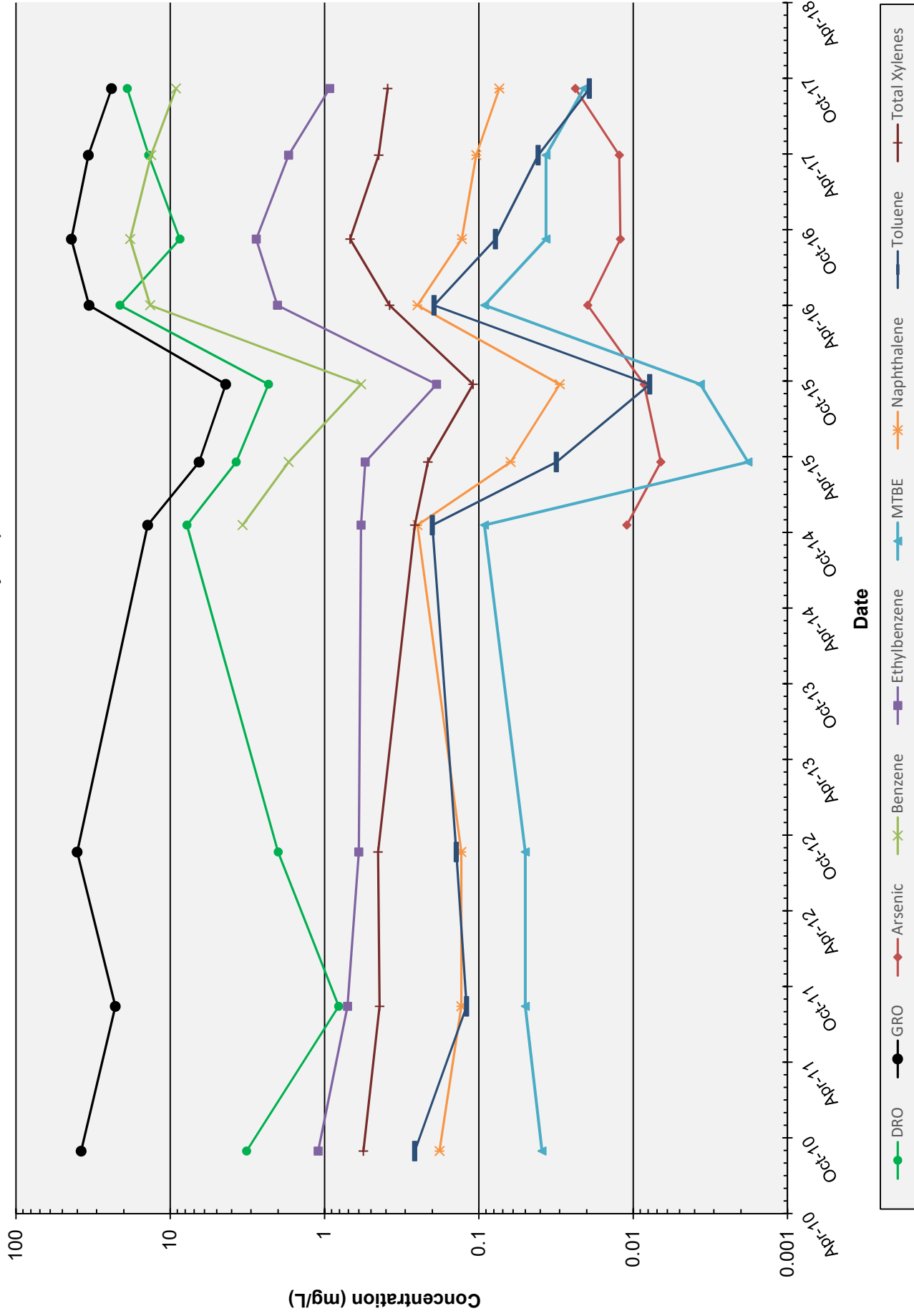


HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area

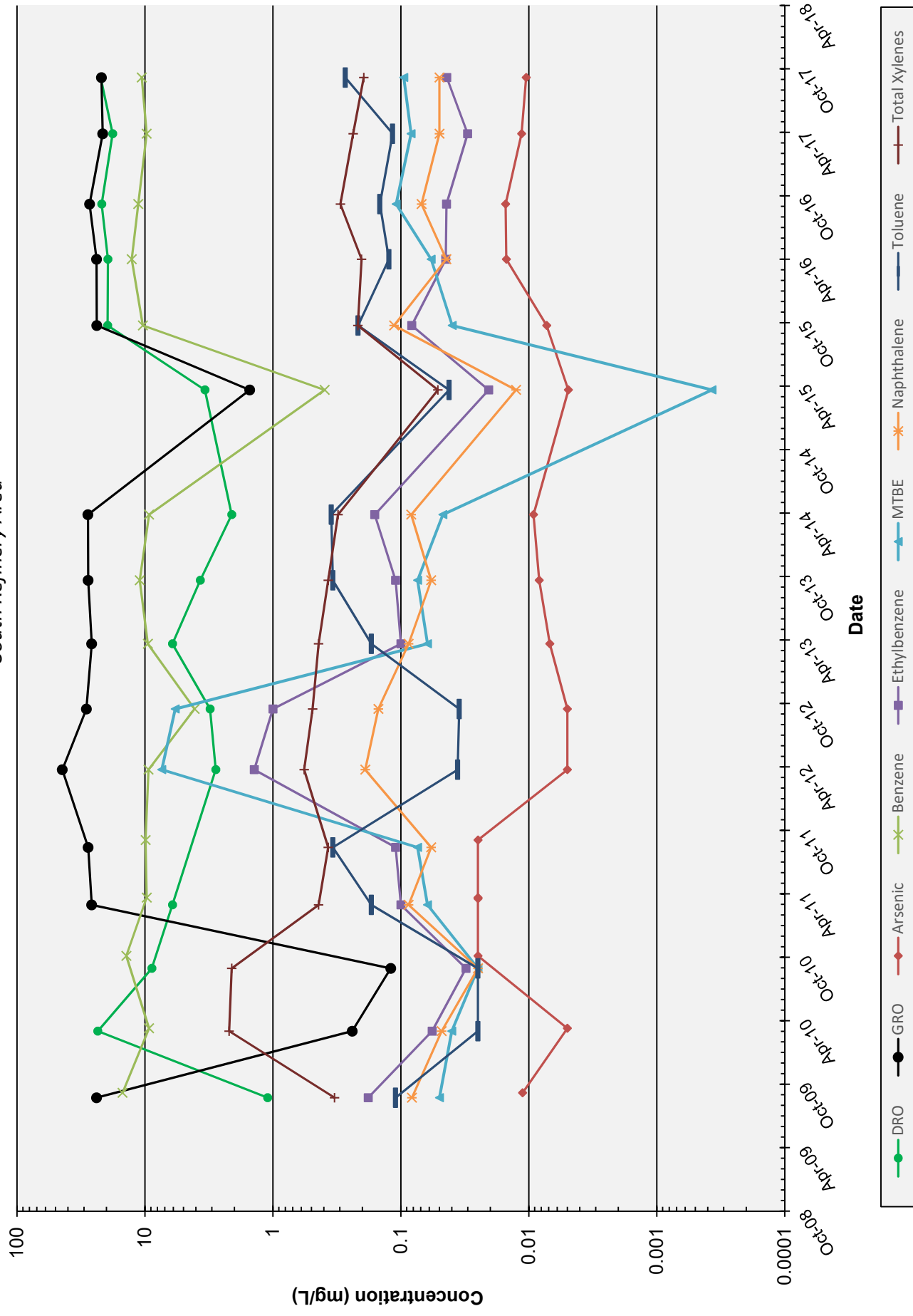


MW-105: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



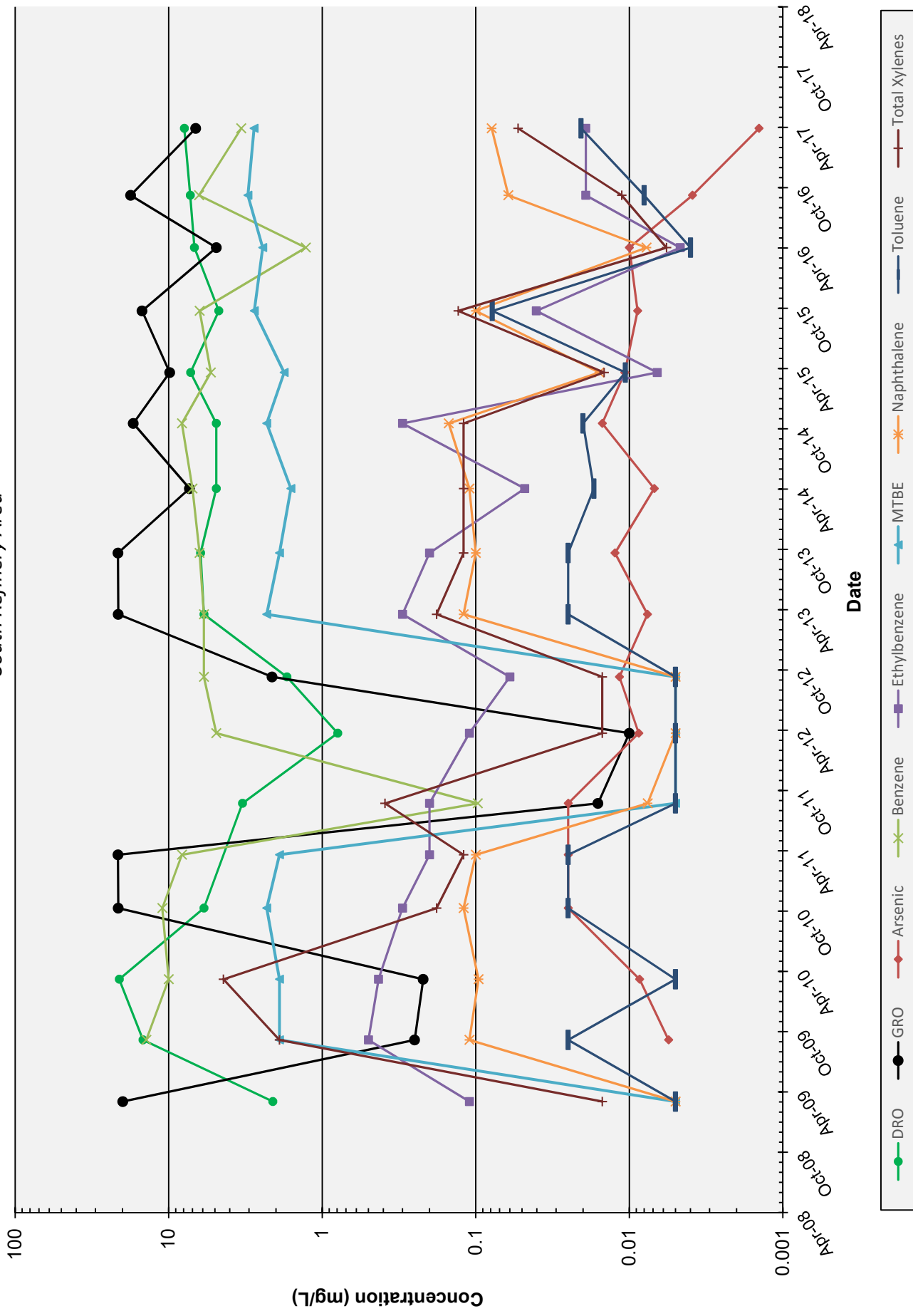
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



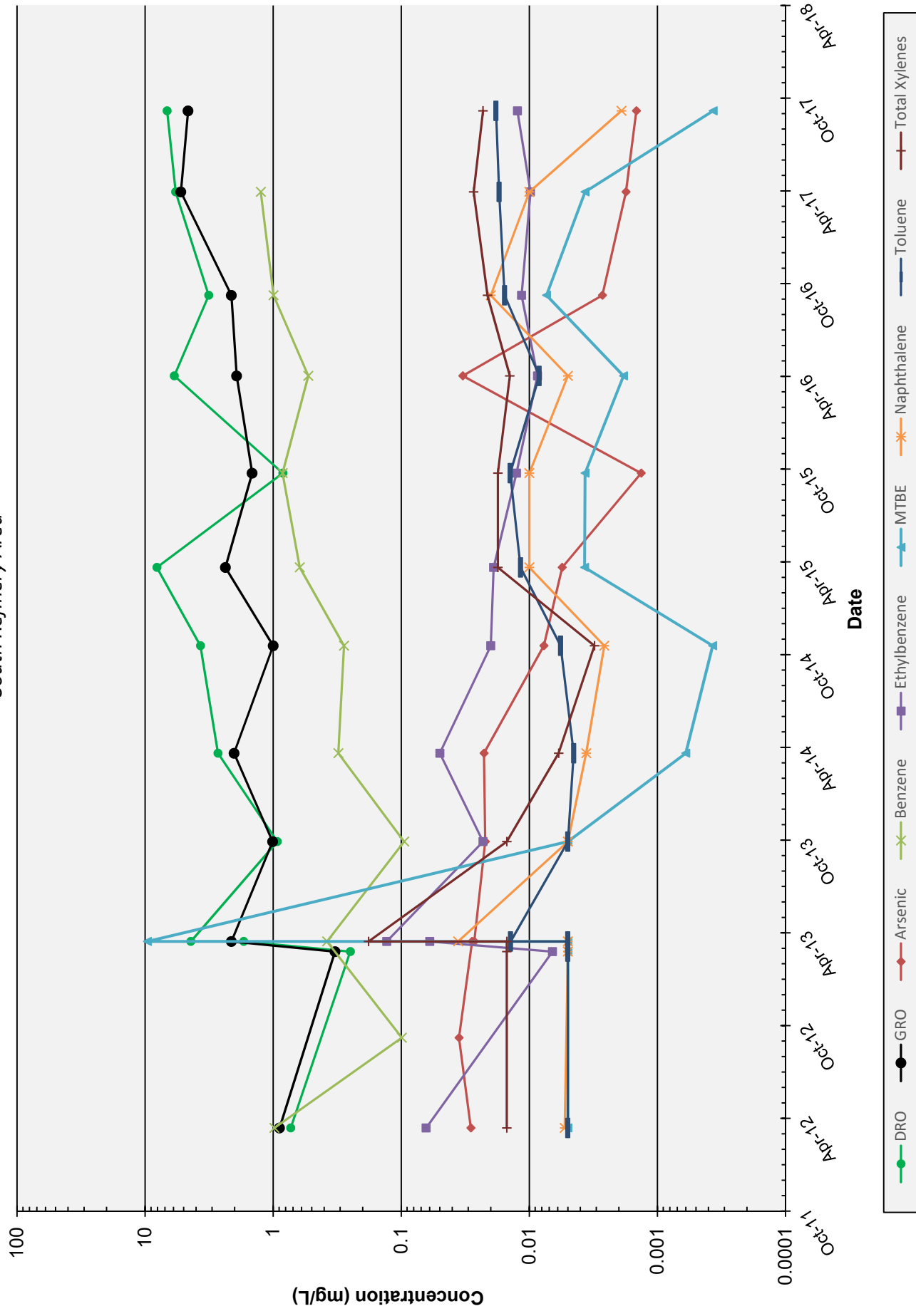
MW-107: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery Area



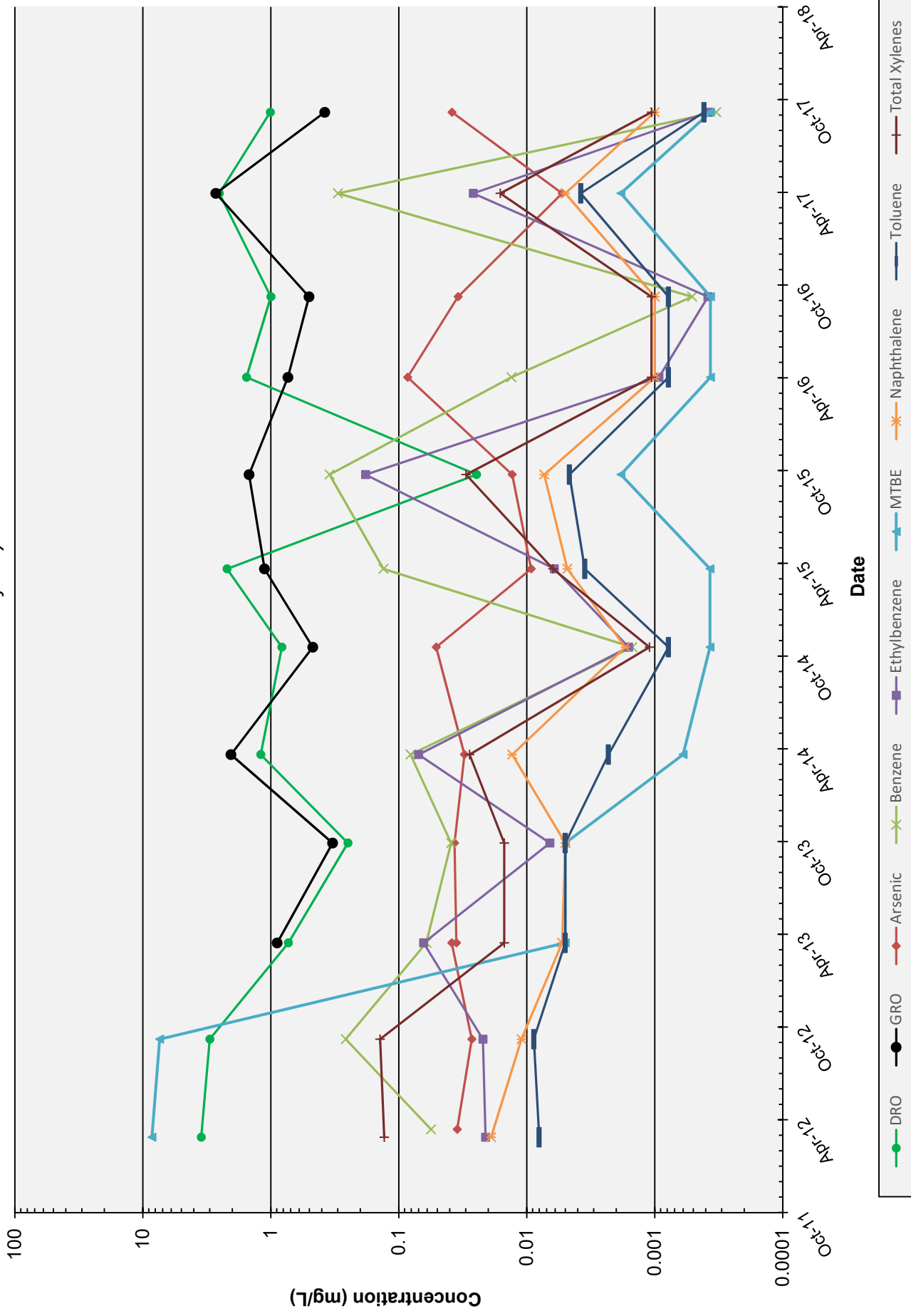
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



MW-110: COC Concentrations

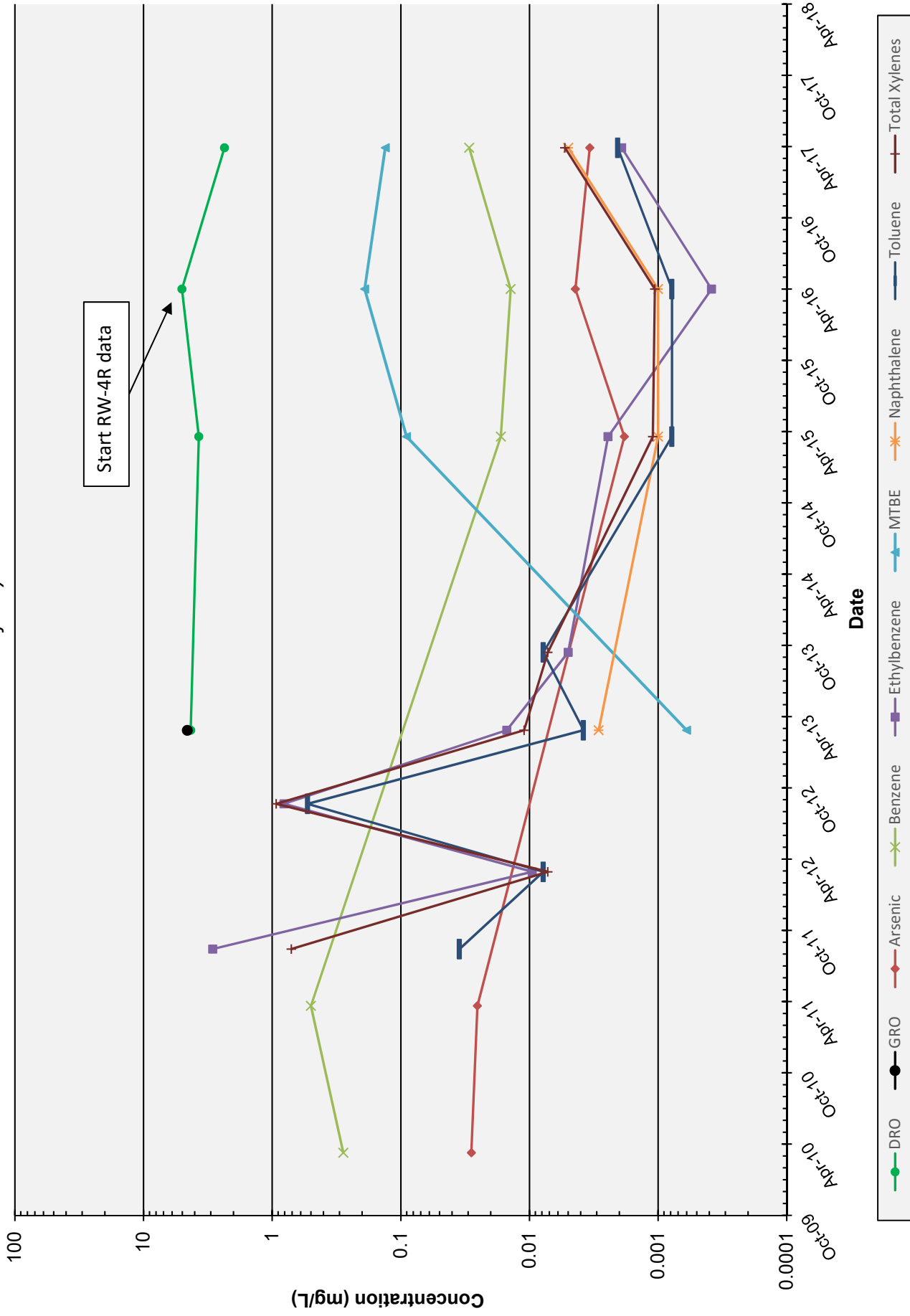
HollyFrontier Navajo Refining LLC - Artesia Refinery

South Refinery Area

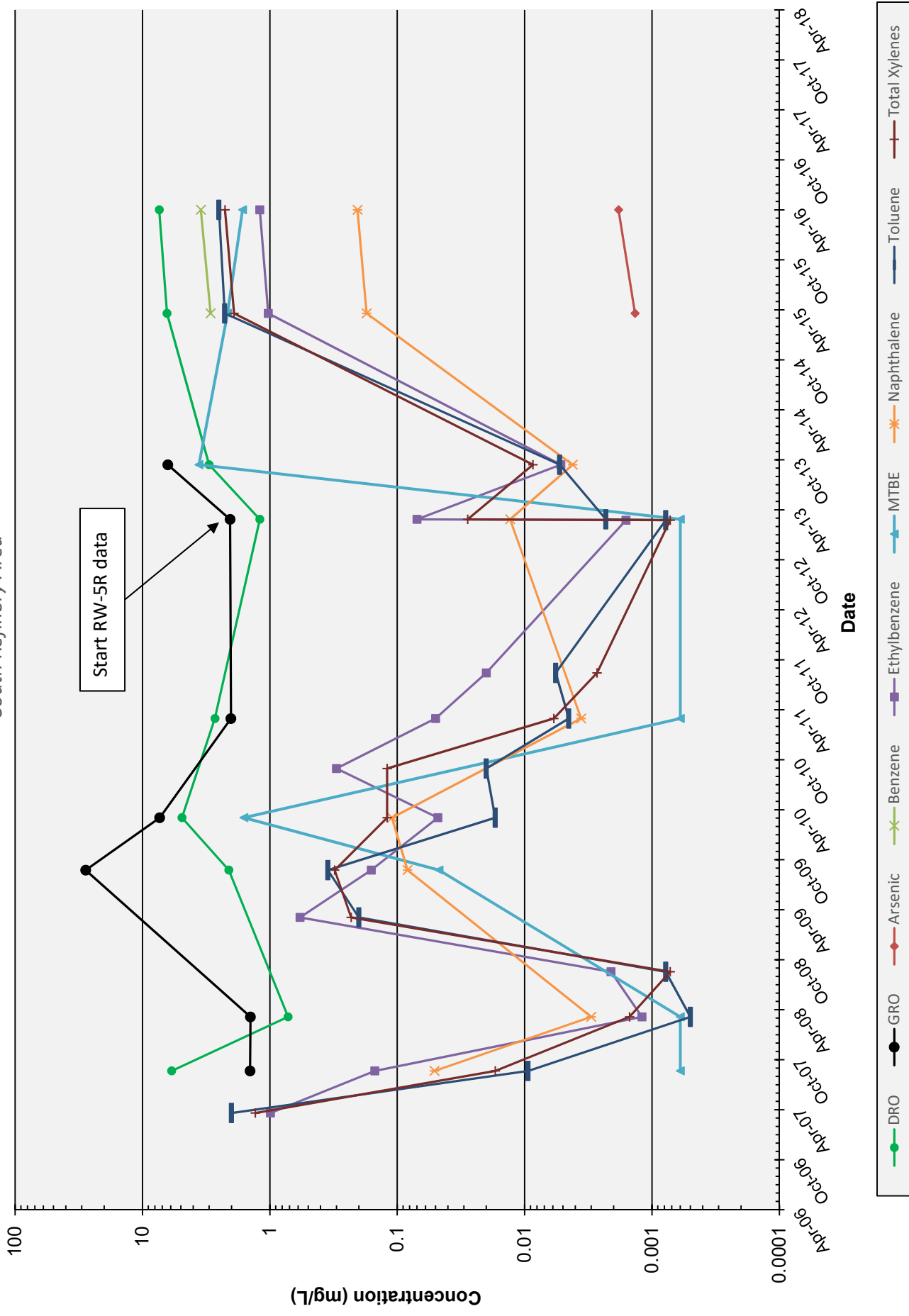


RW-4 and RW-4R: COC Concentrations

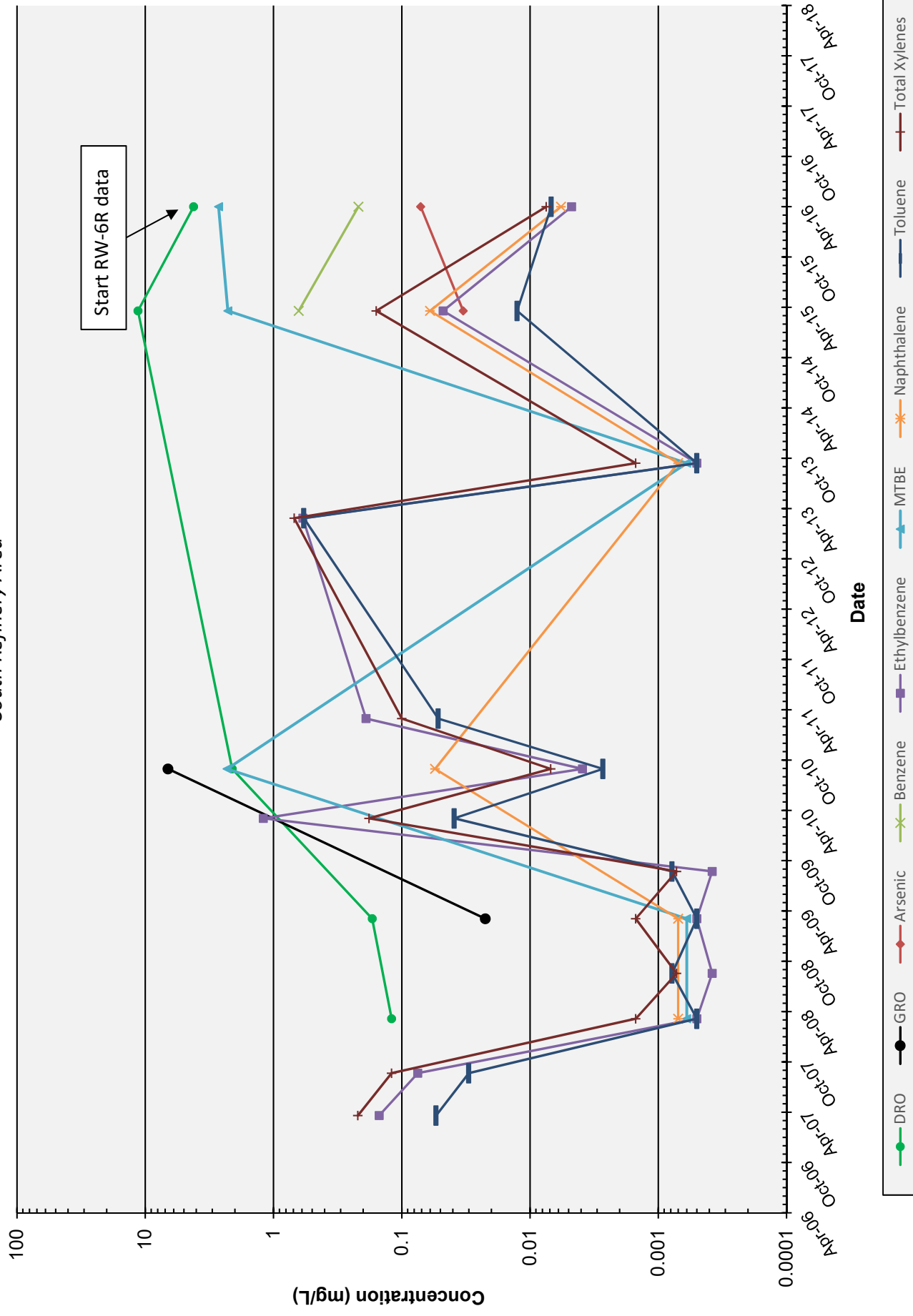
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



South Refinery Area



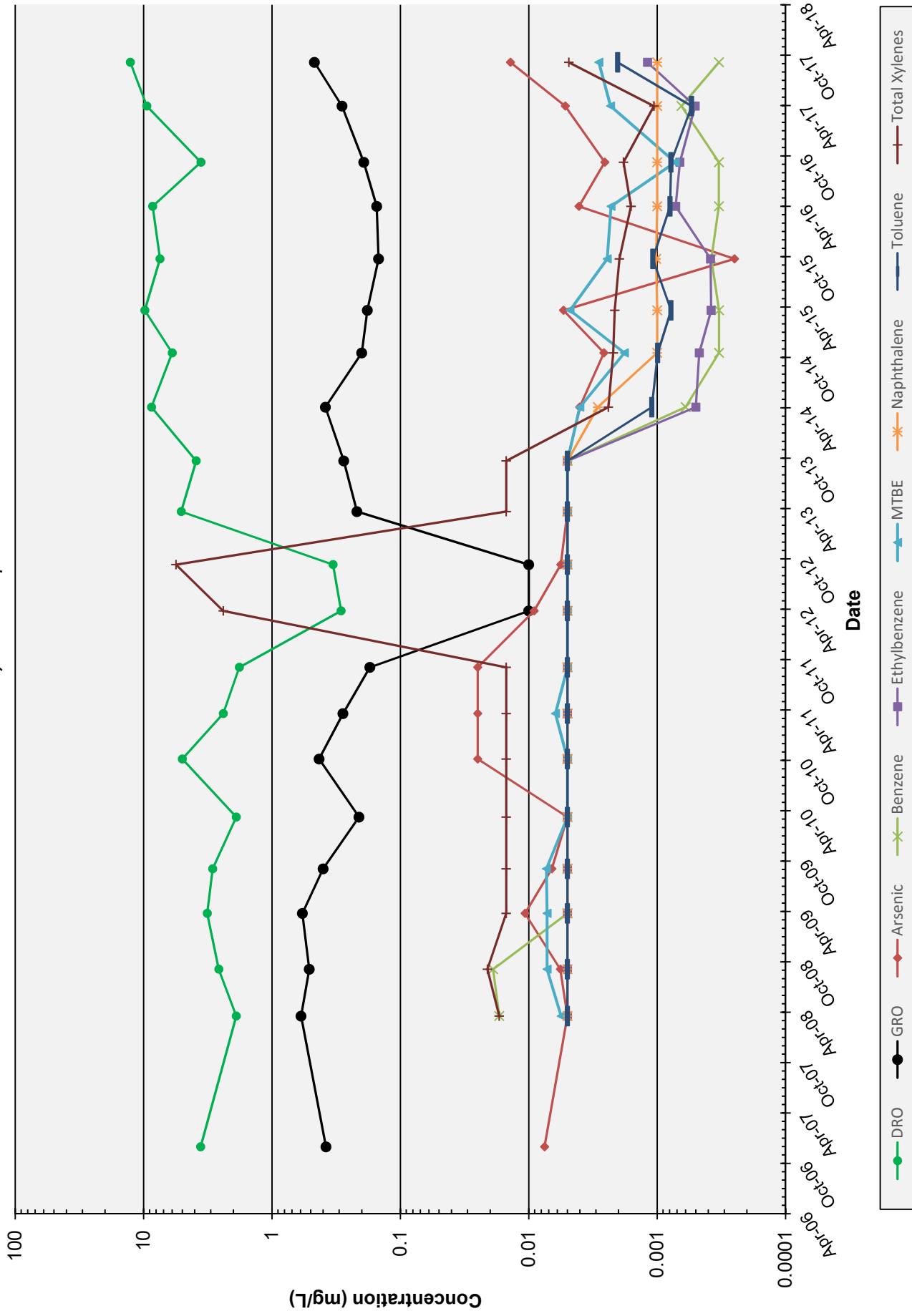
HollyFrontier Navajo Refining LLC - Artesia Refinery
South Refinery Area



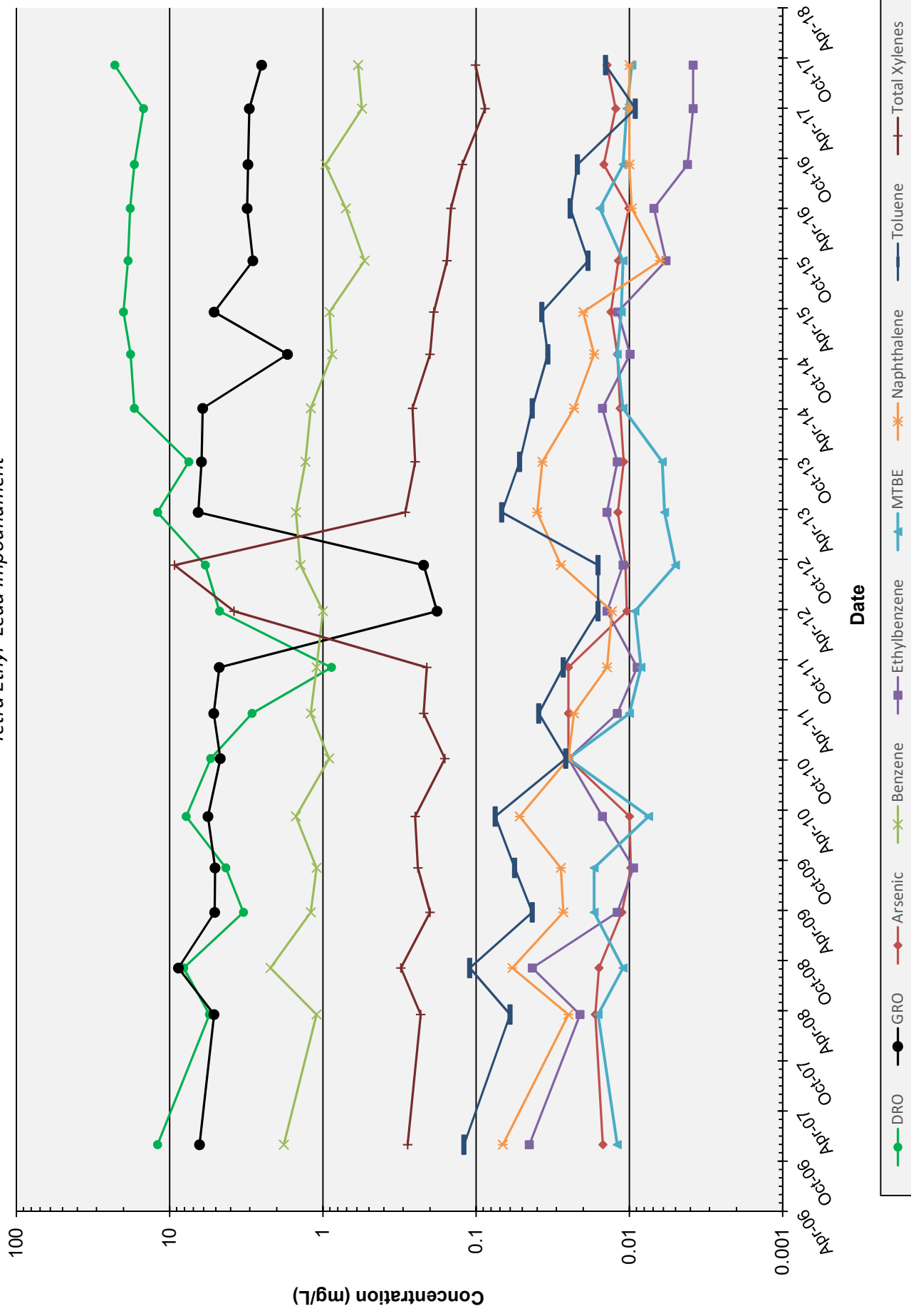
TEL-1: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery

Tetra Ethyl Lead Impoundment



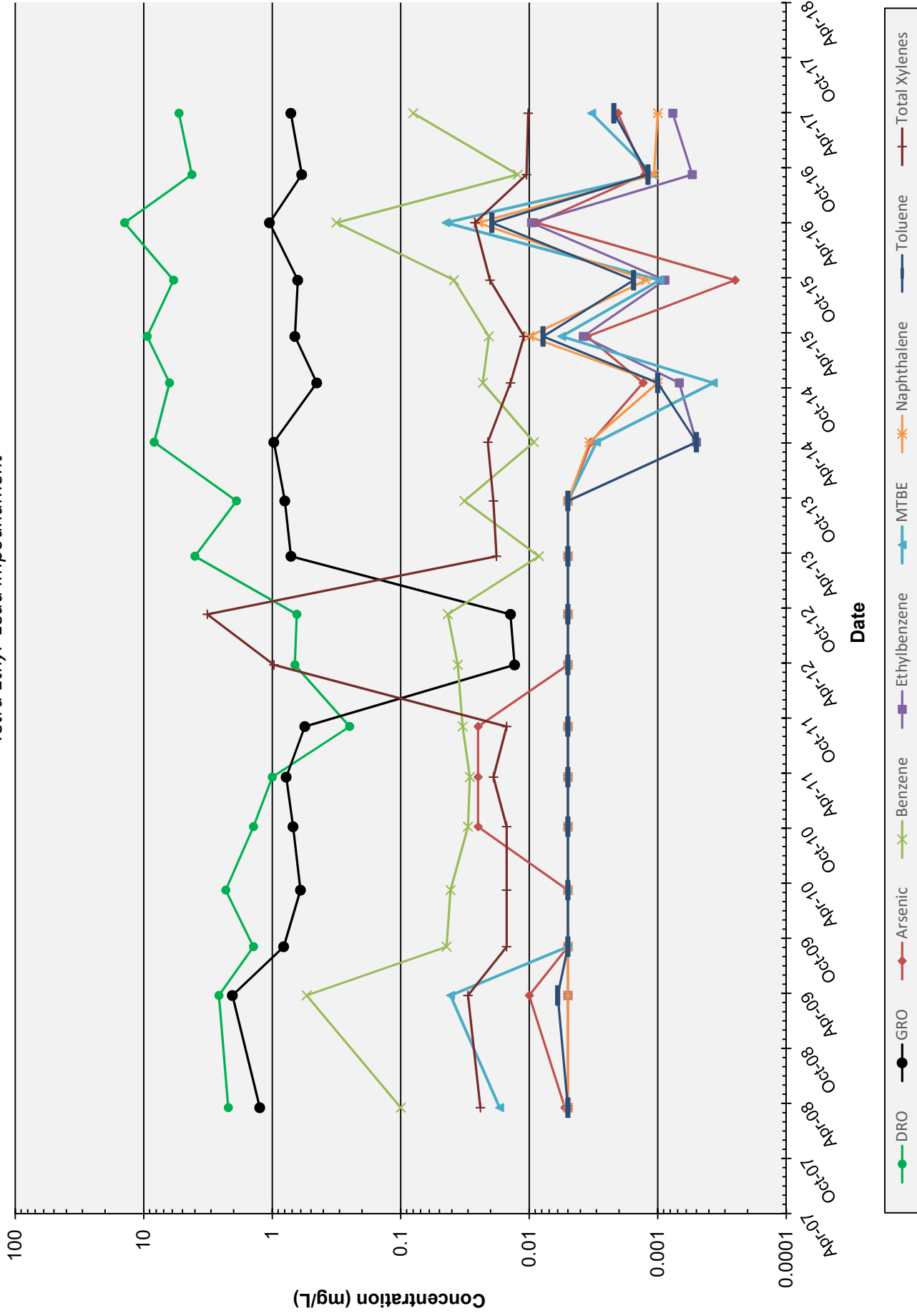
Tetra Ethyl Lead Impoundment



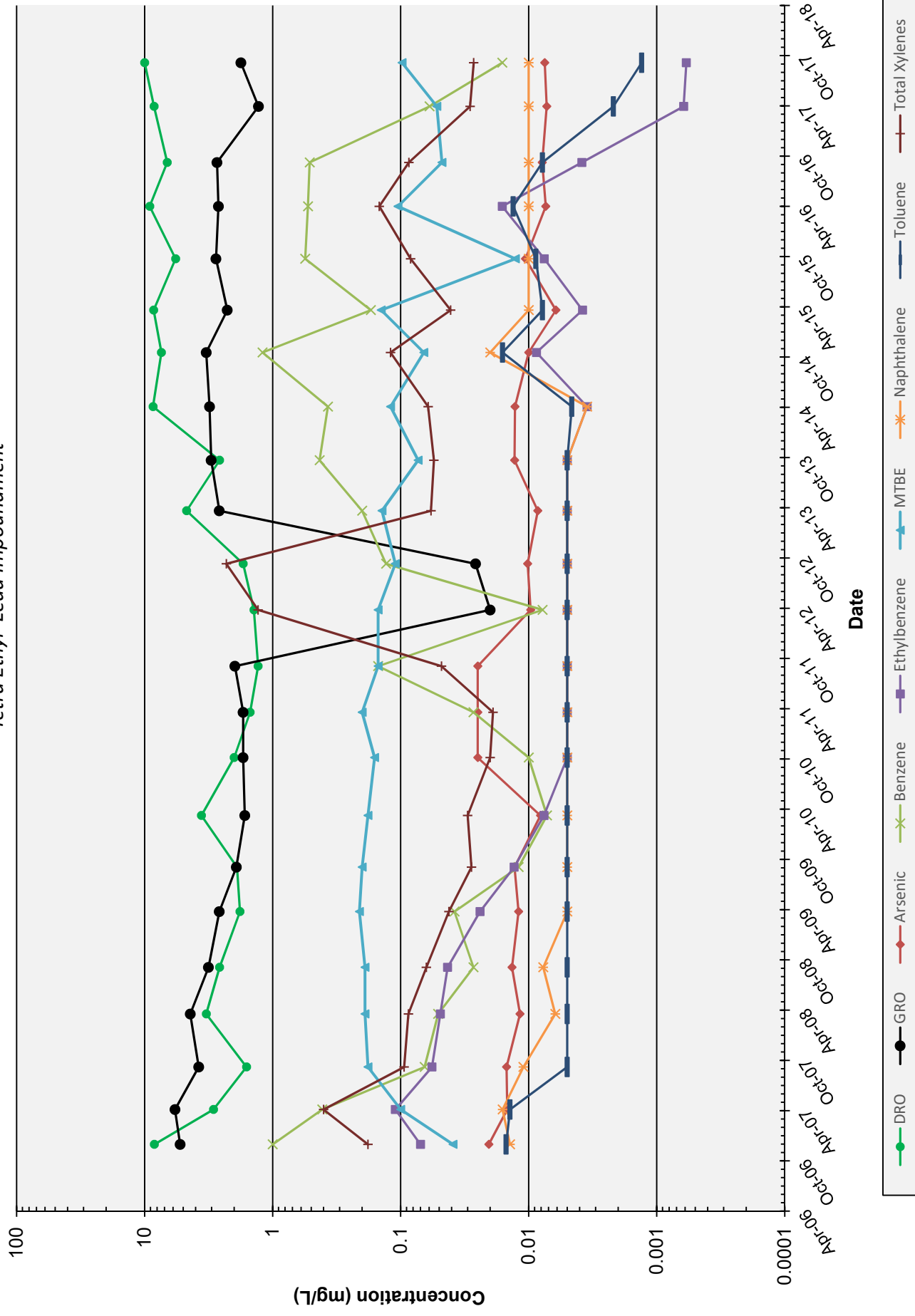
TEL-3: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery

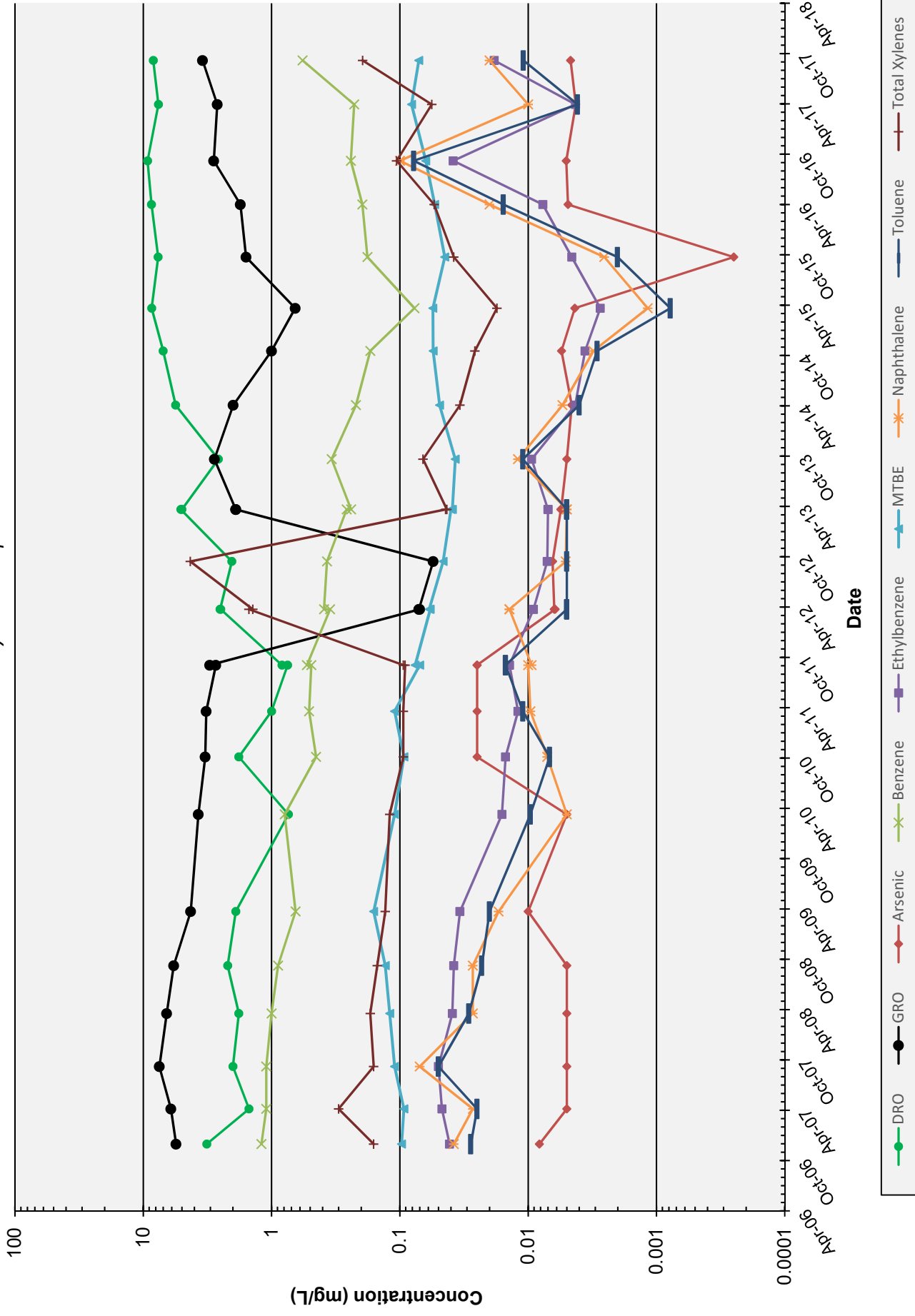
Tetra Ethyl Lead Impoundment



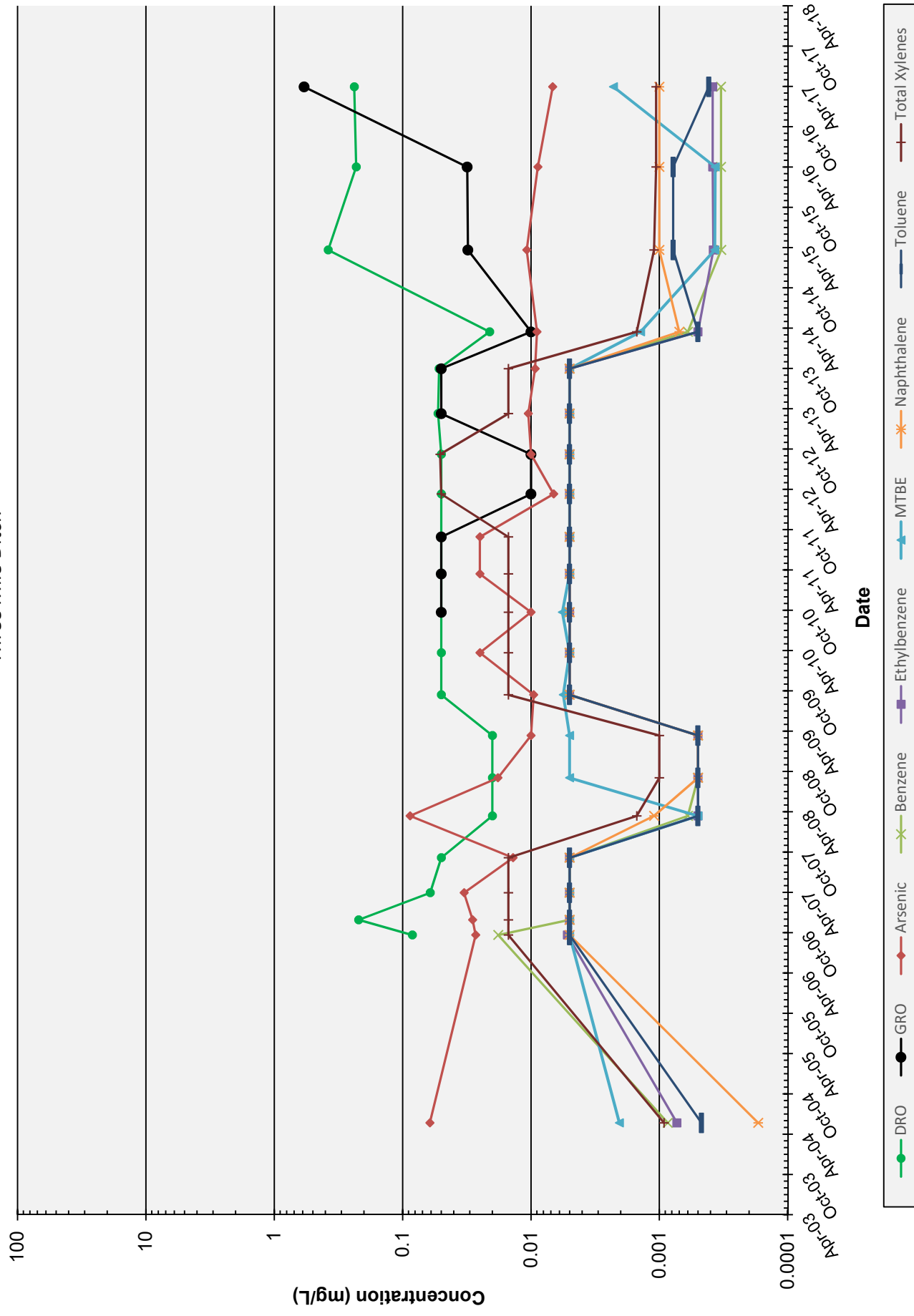
Tetra Ethyl Lead Impoundment



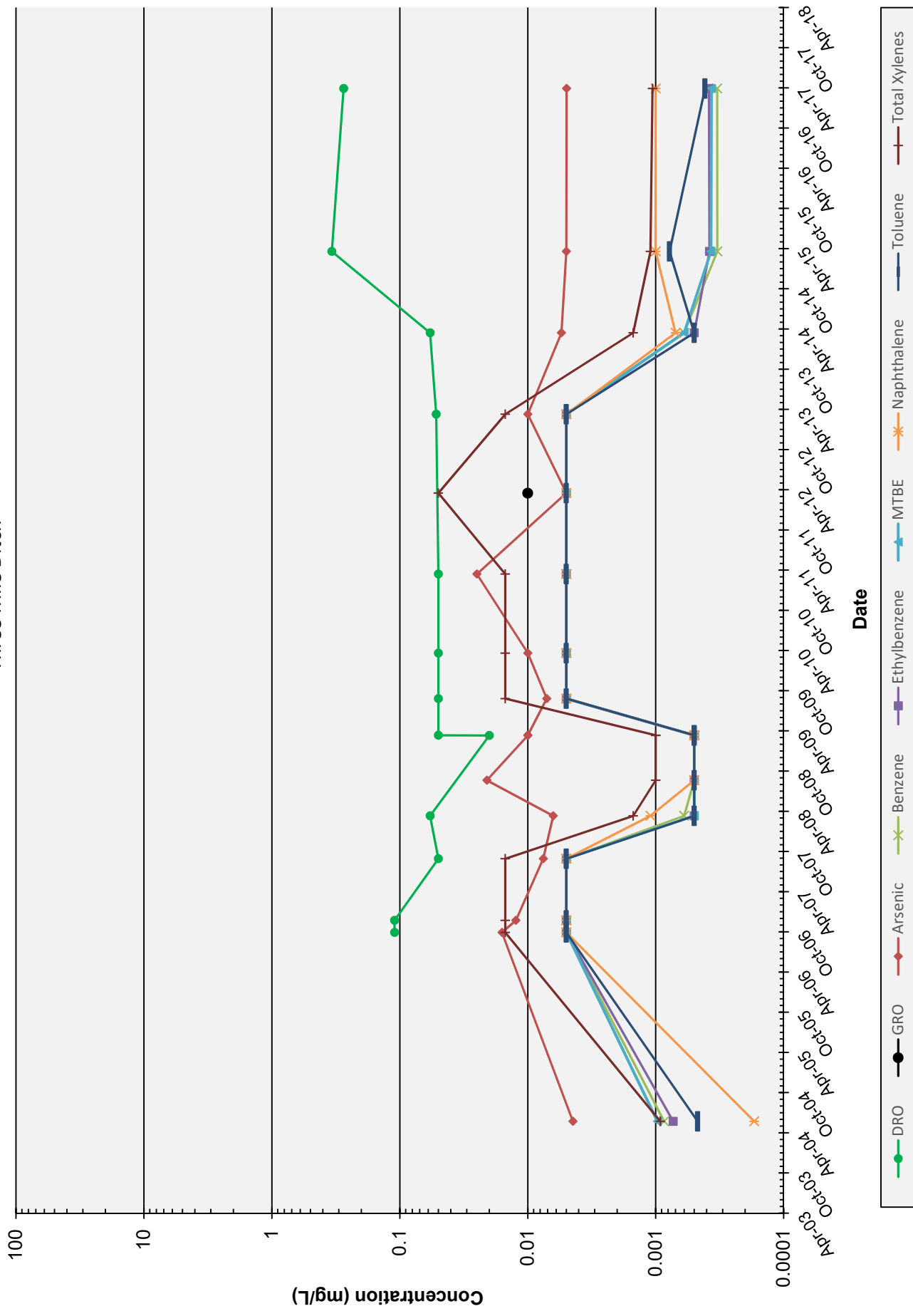
MW-49: COC Concentrations
HollyFrontier Navajo Refining LLC - Artesia Refinery
Tetra Ethyl Lead Impoundment



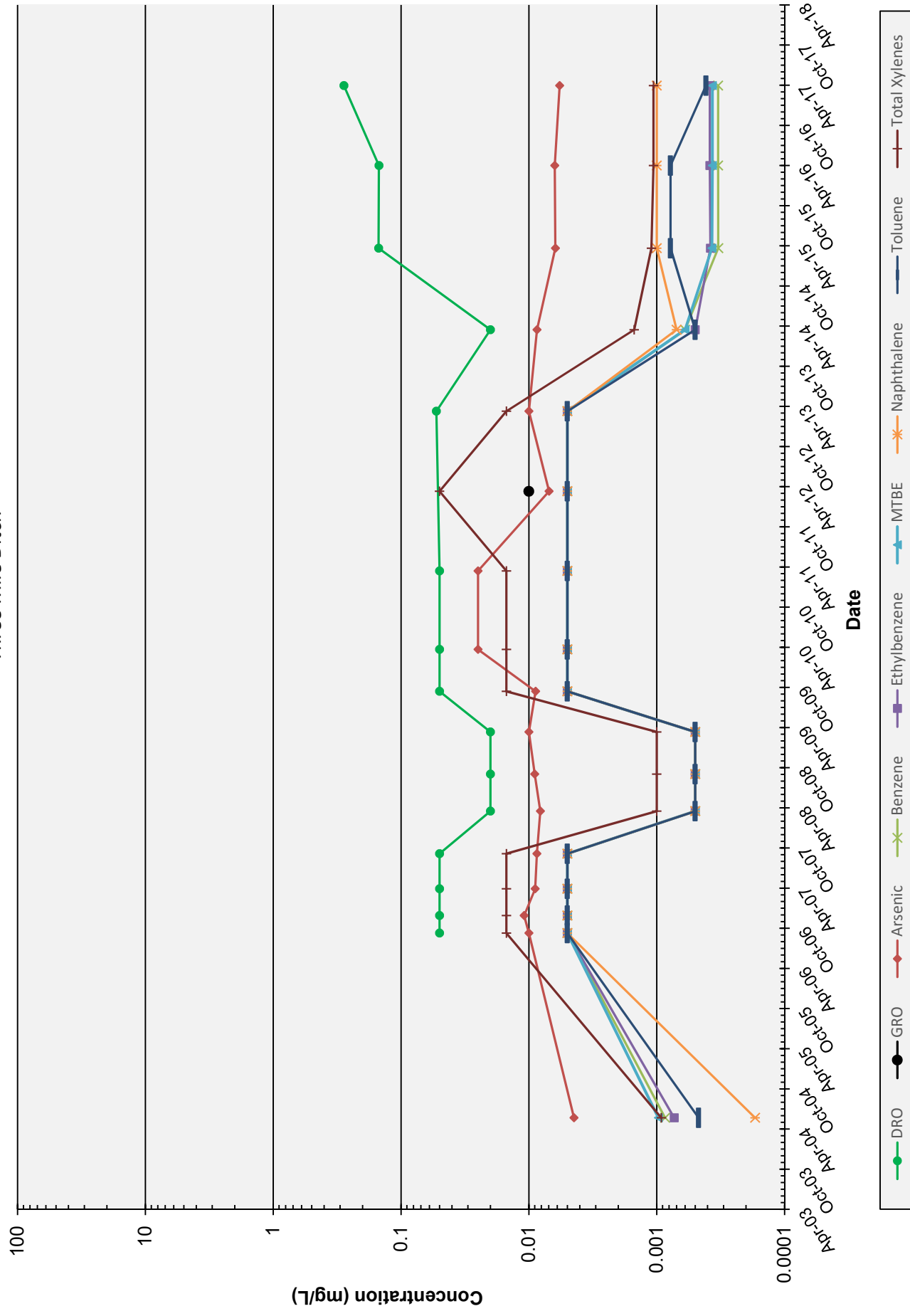
HollyFrontier Navajo Refining LLC - Artesia Refinery
Three Mile Ditch



HollyFrontier Navajo Refining LLC - Artesia Refinery
Three Mile Ditch



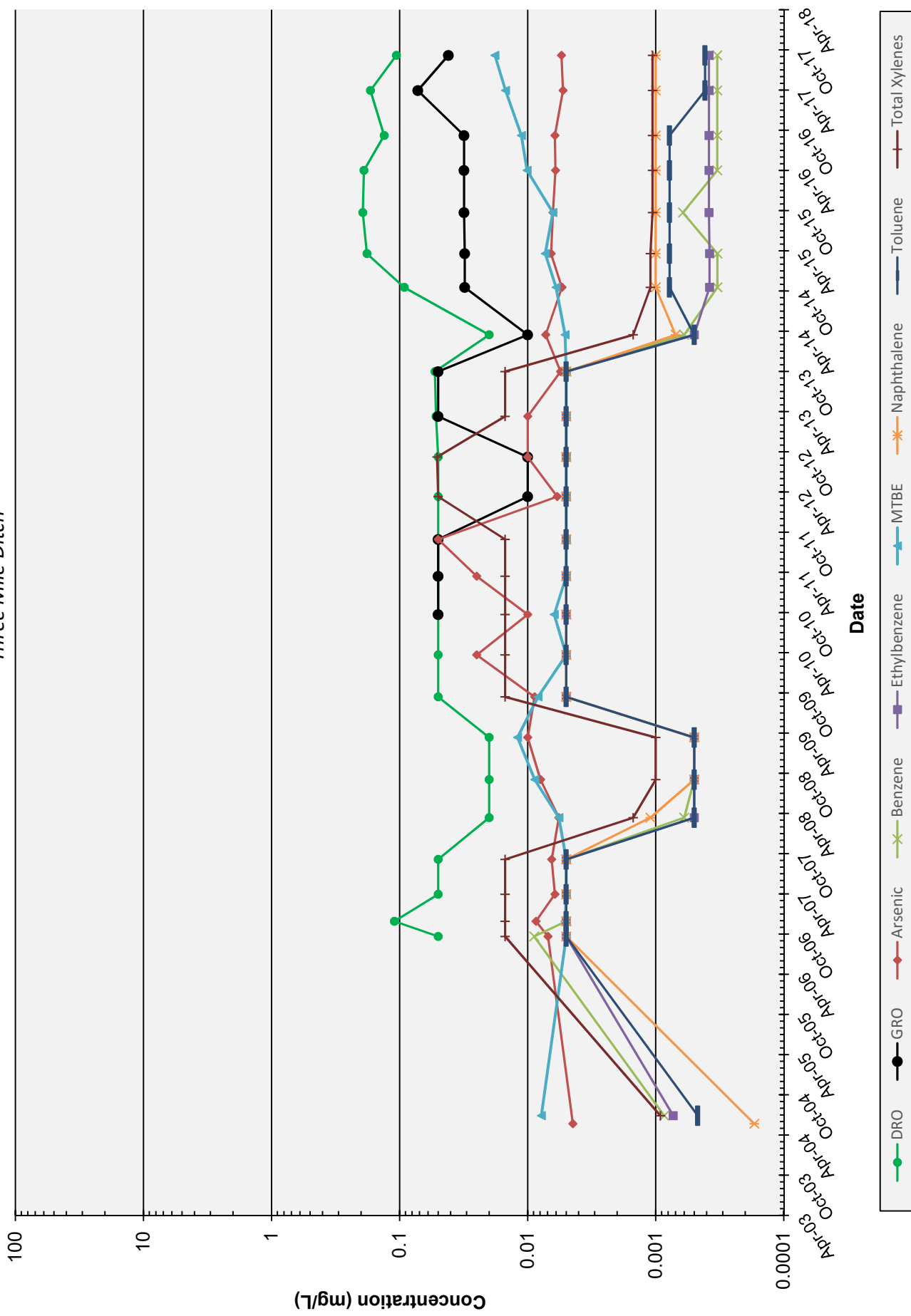
HollyFrontier Navajo Refining LLC - Artesia Refinery
Three Mile Ditch



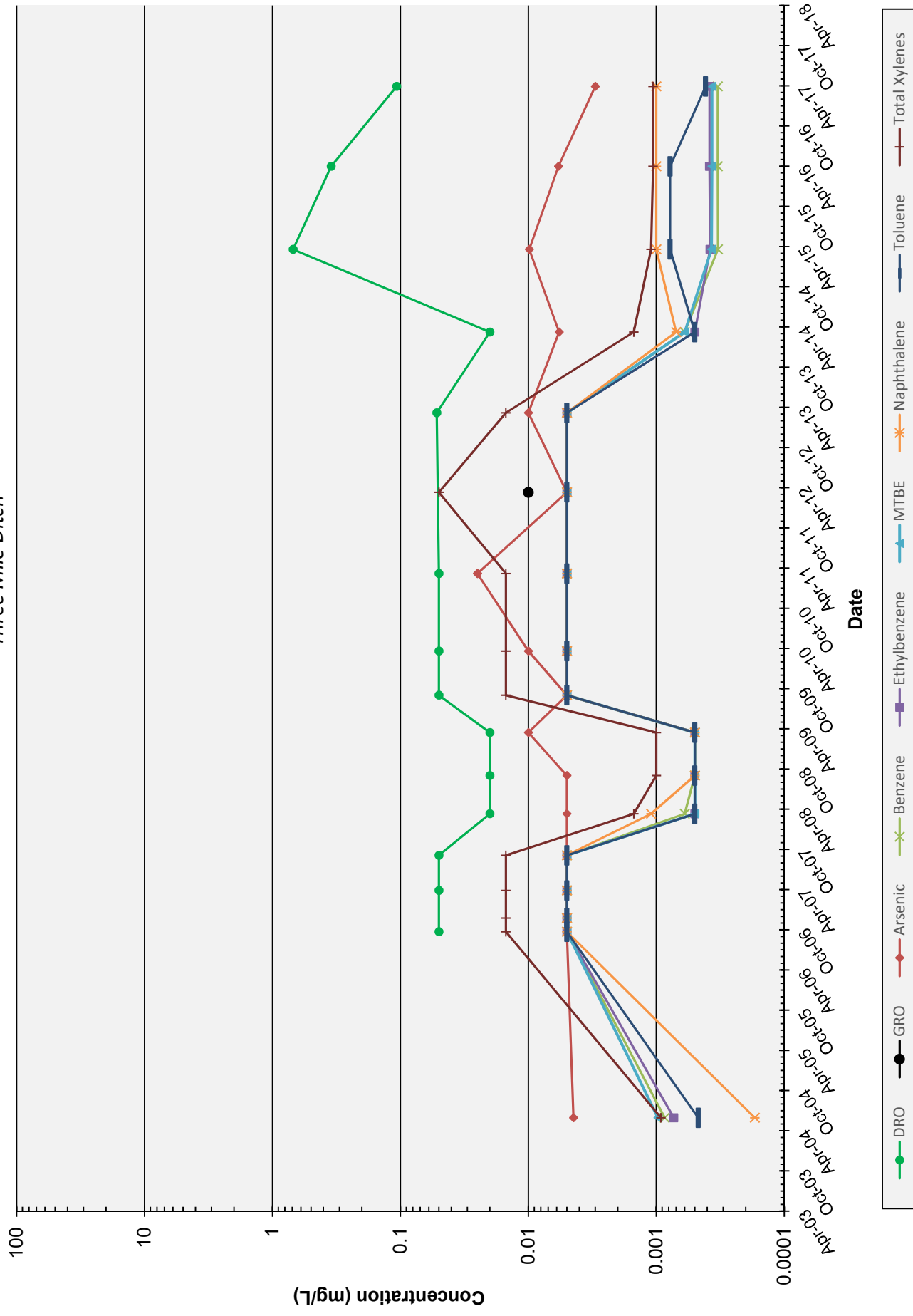
MW-21: COC Concentrations

HollyFrontier Navajo Refining LLC - Artesia Refinery

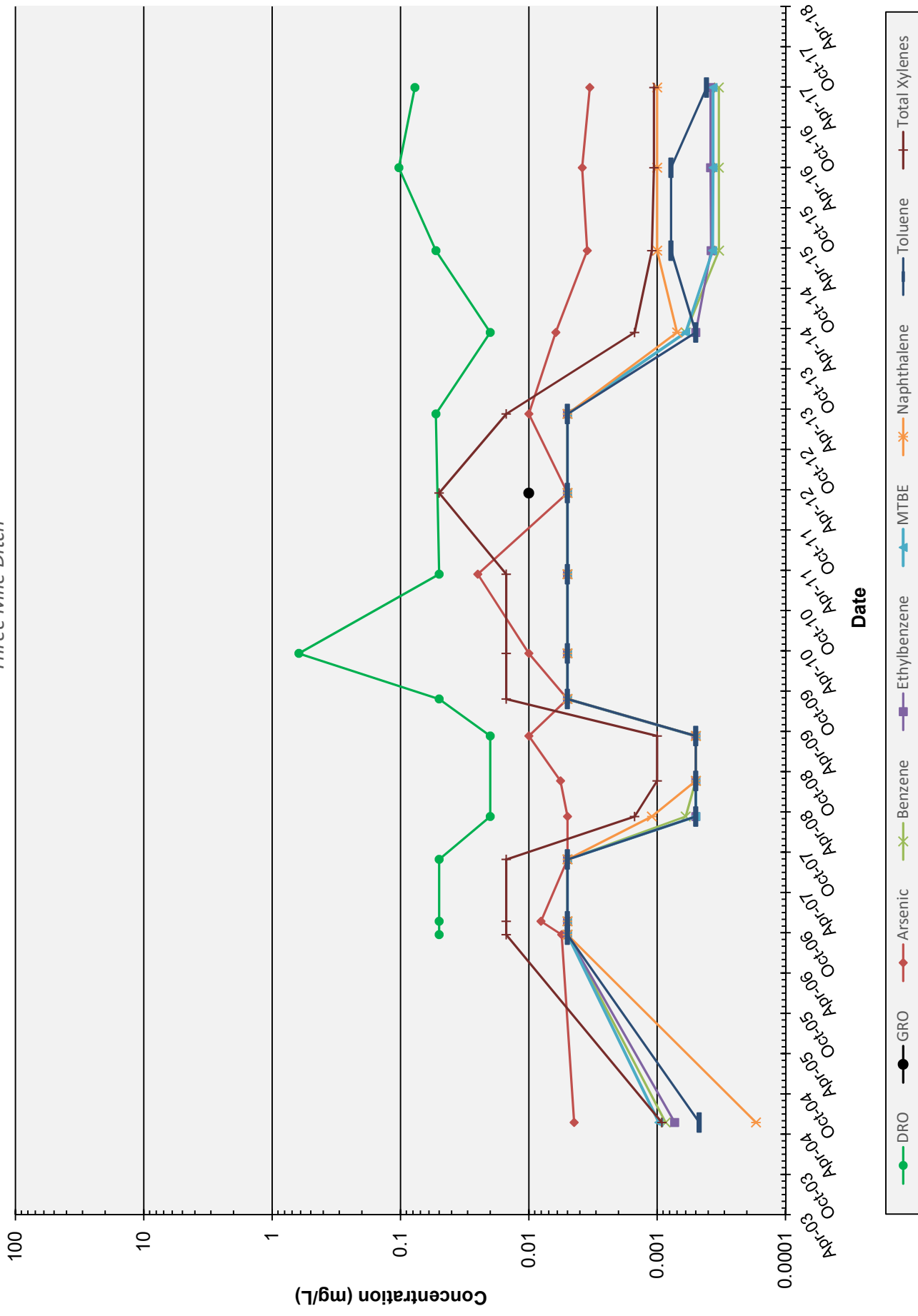
Three Mile Ditch



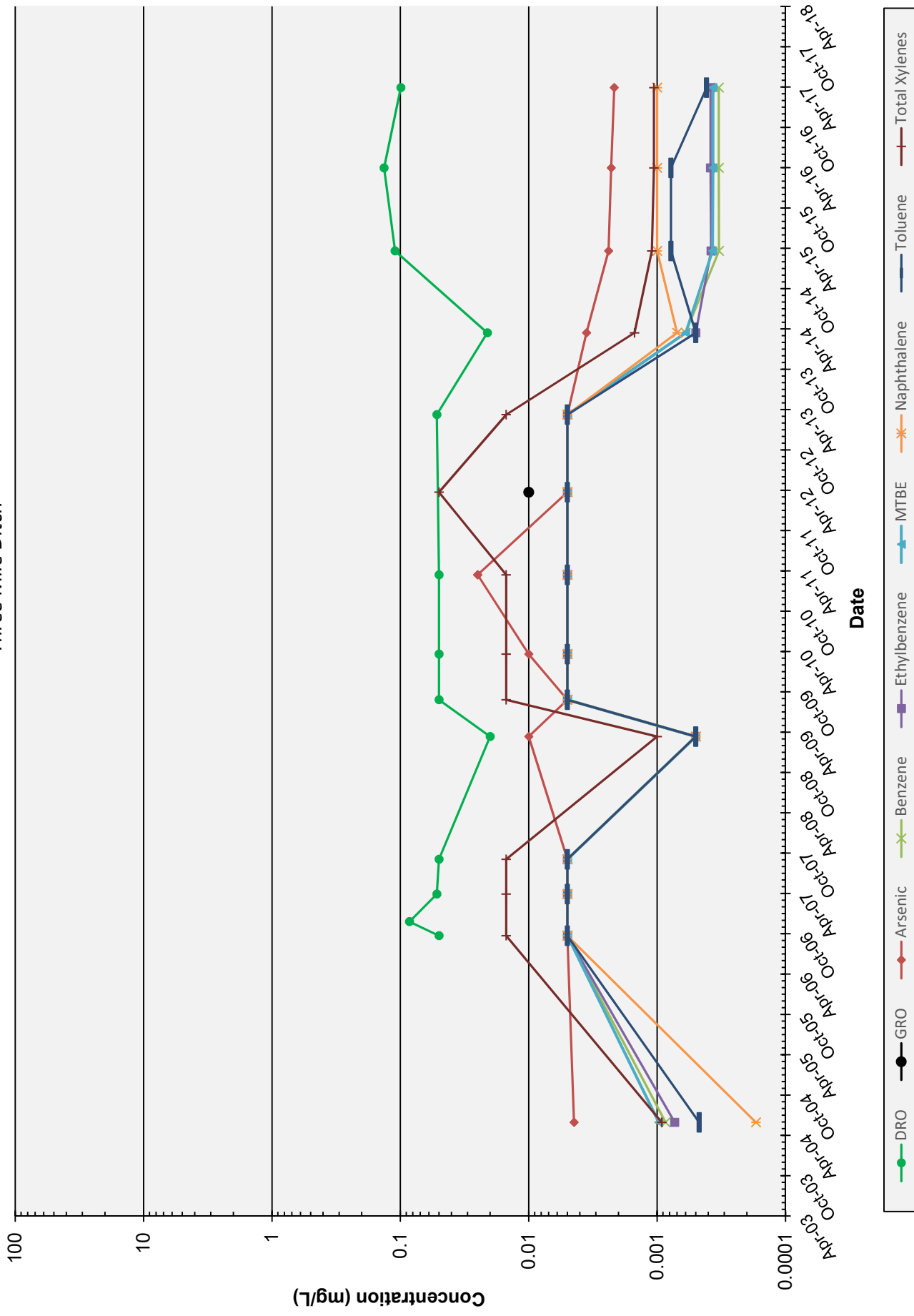
HollyFrontier Navajo Refining LLC - Artesia Refinery
Three Mile Ditch



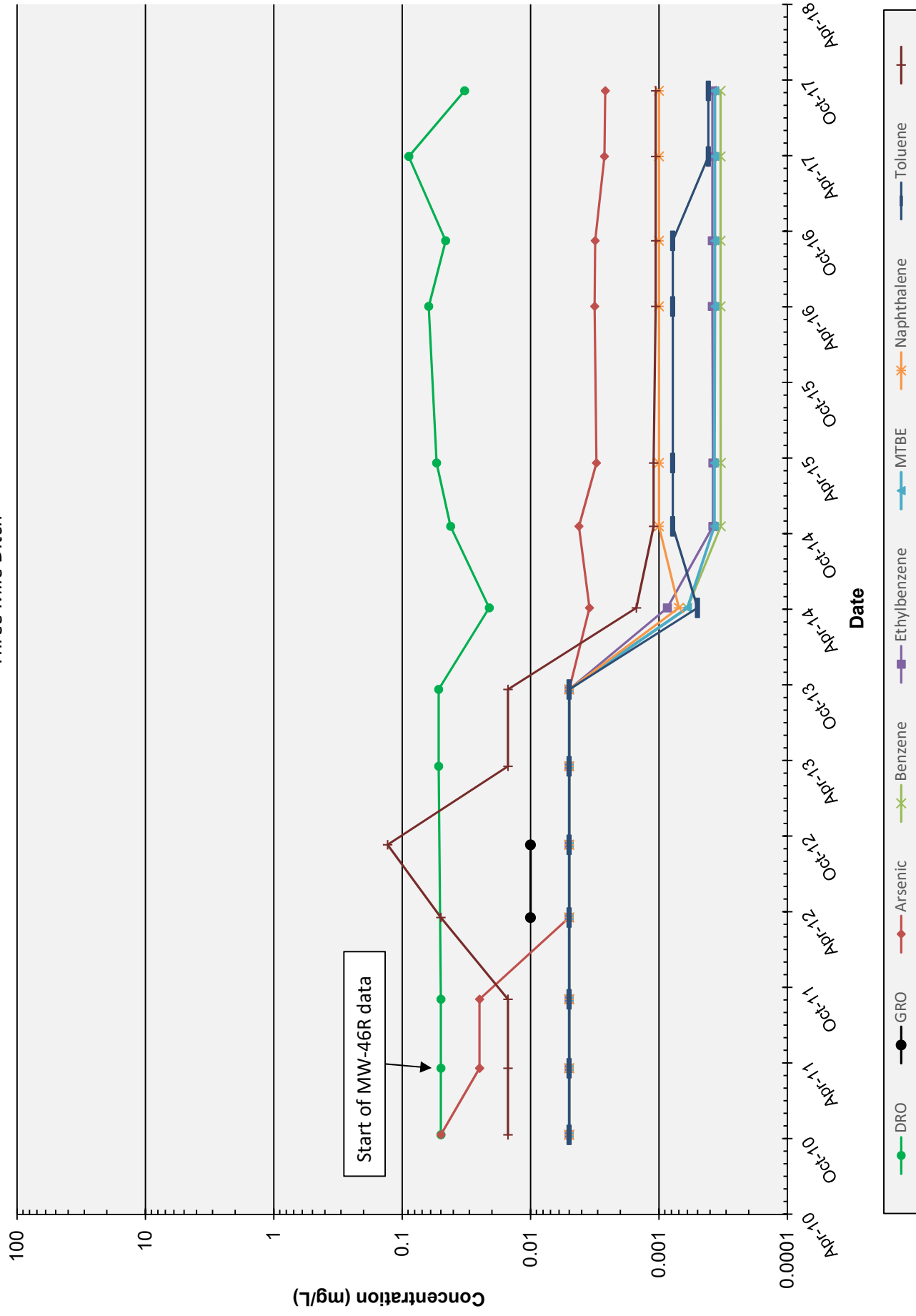
Three Mile Ditch



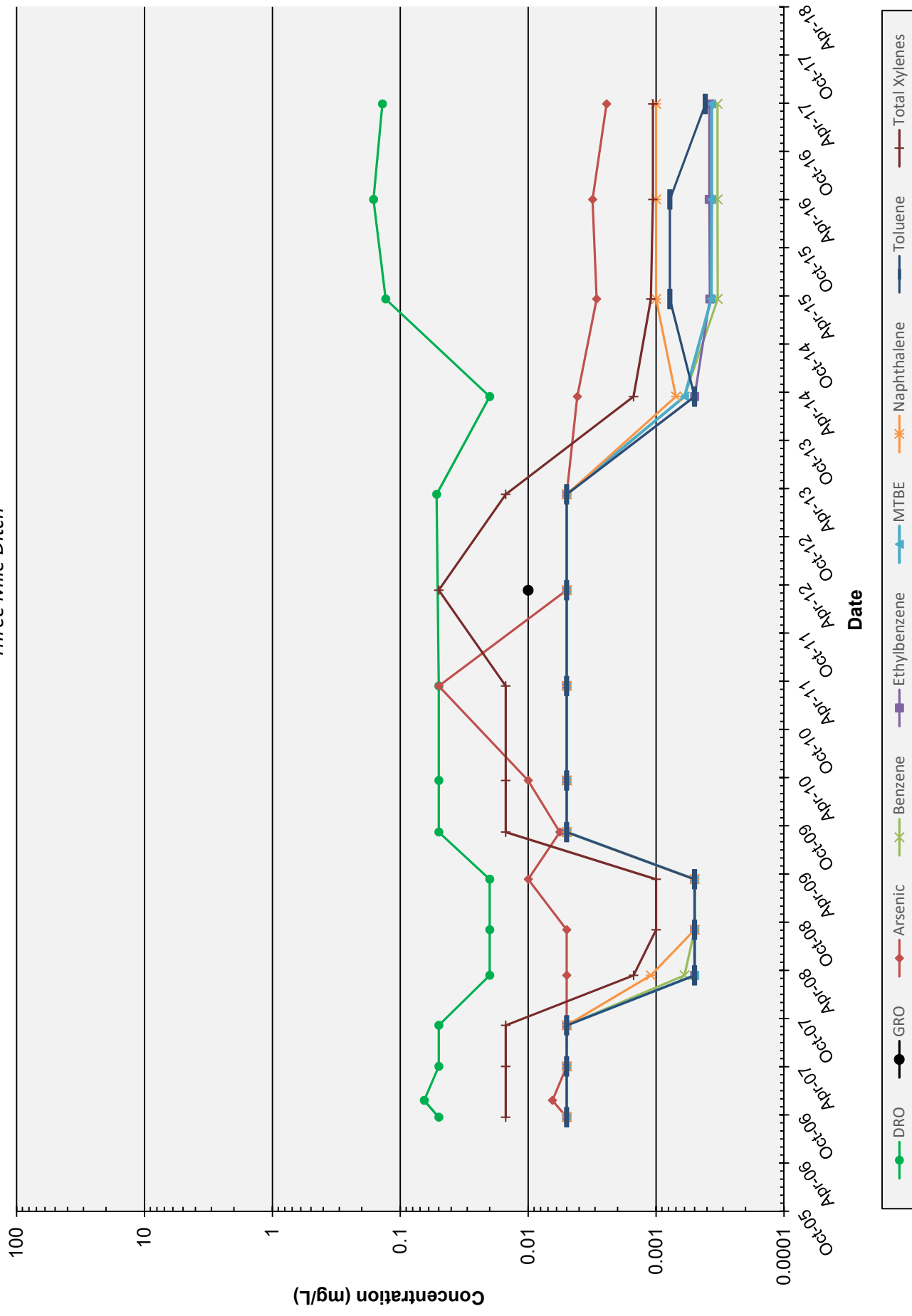
HollyFrontier Navajo Refining LLC - Artesia Refinery
Three Mile Ditch



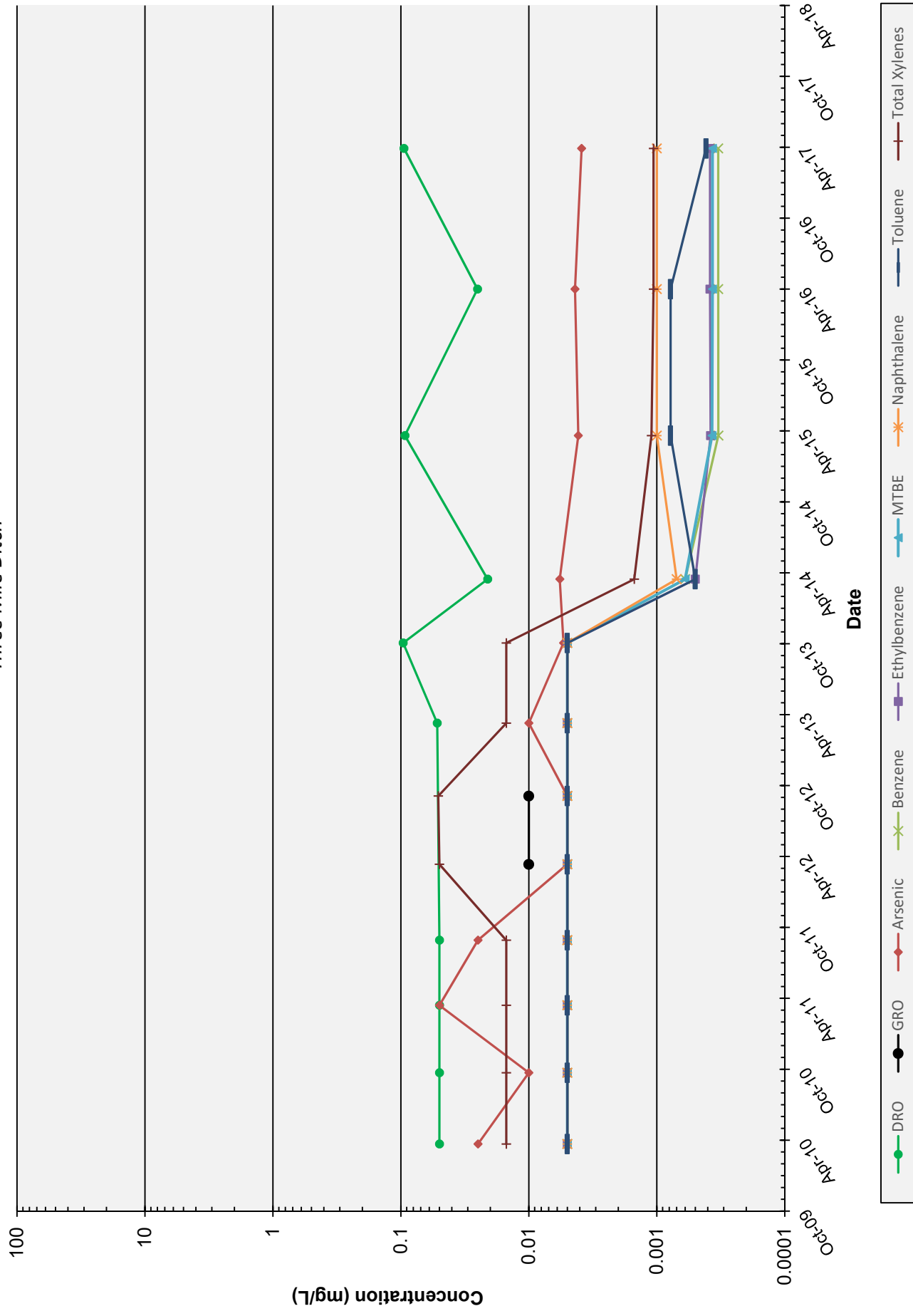
Three Mile Ditch



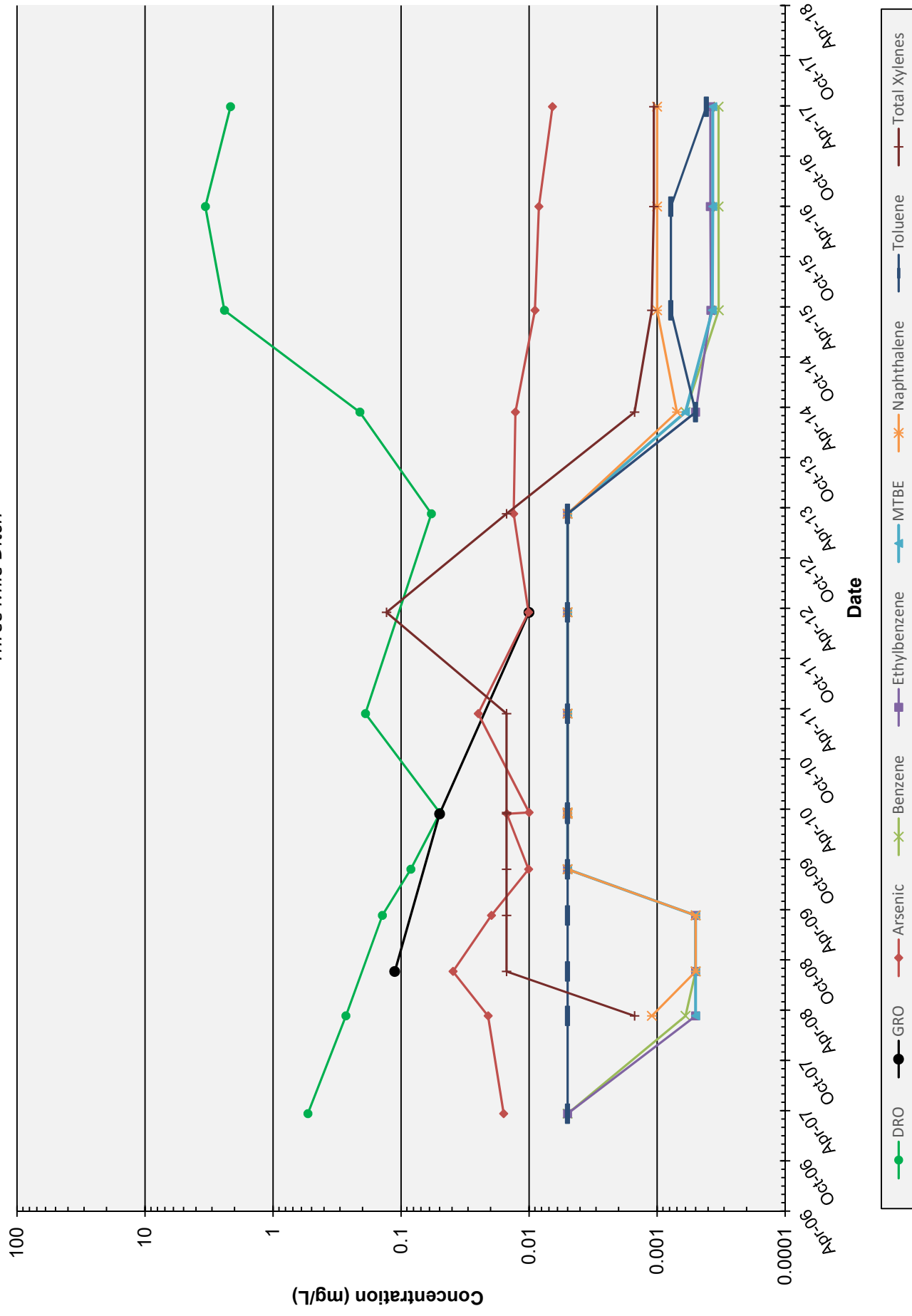
HollyFrontier Navajo Refining LLC - Artesia Refinery
Three Mile Ditch



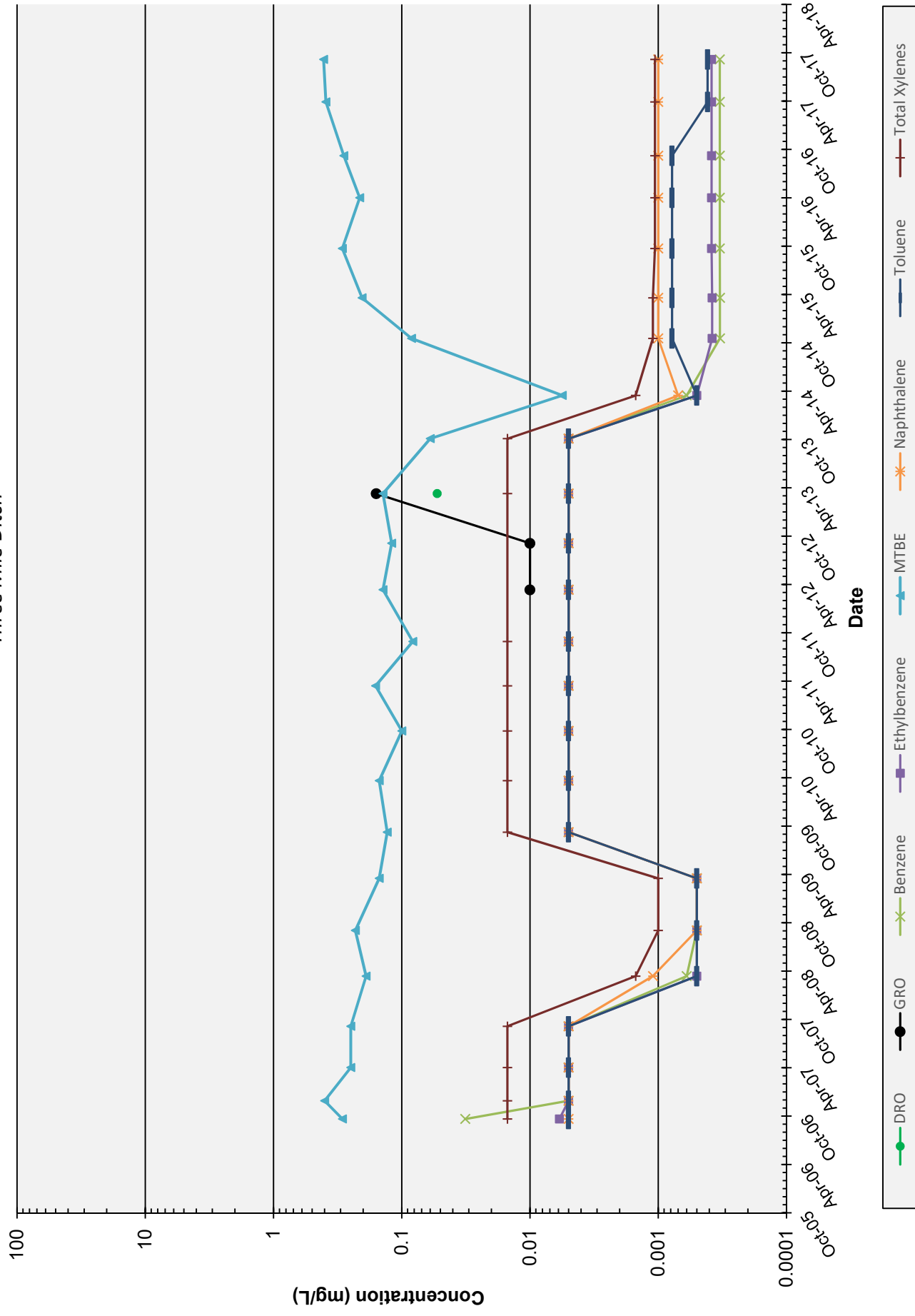
HollyFrontier Navajo Refining LLC - Artesia Refinery
Three Mile Ditch



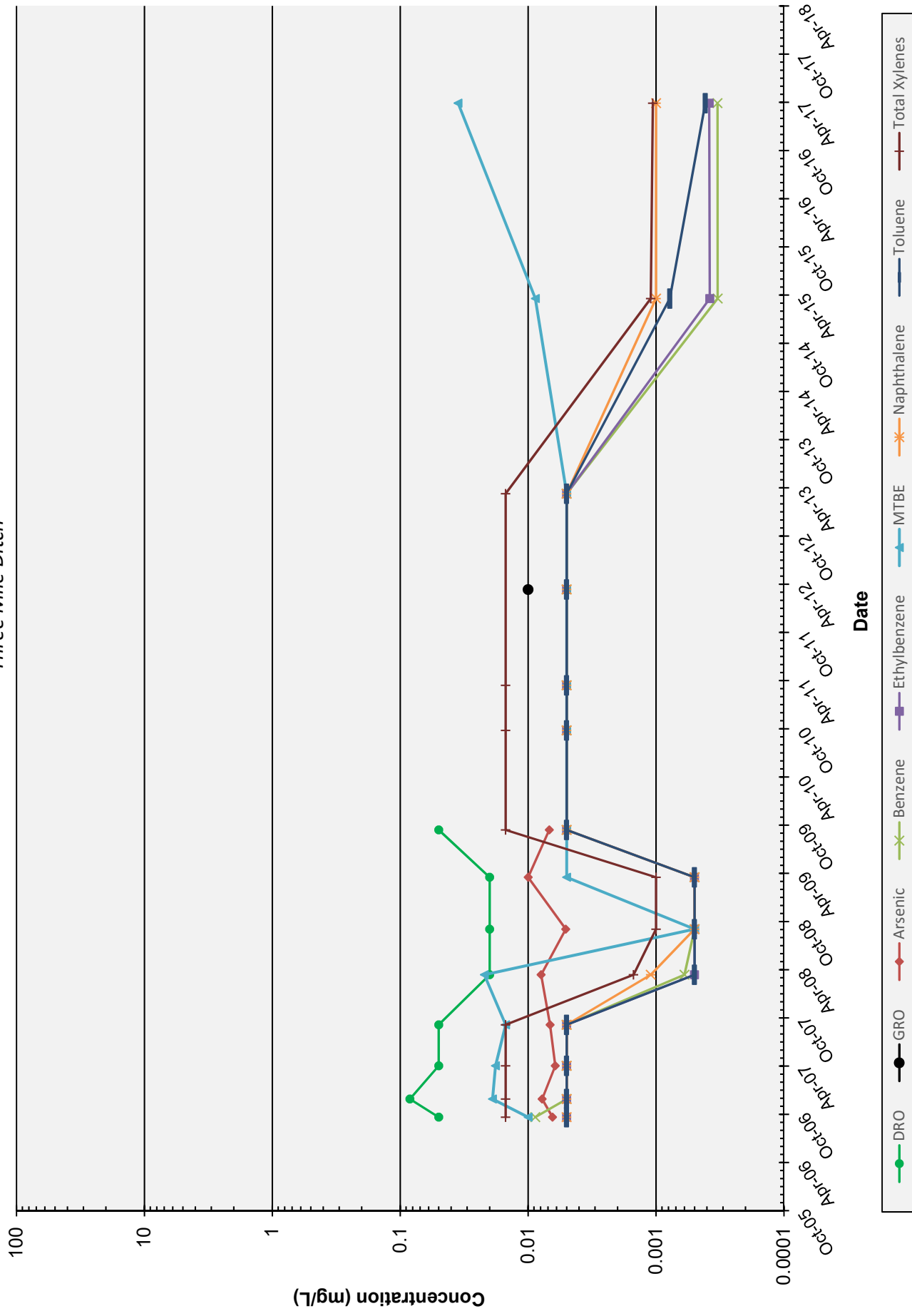
HollyFrontier Navajo Refining LLC - Artesia Refinery
Three Mile Ditch



HollyFrontier Navajo Refining LLC - Artesia Refinery
Three Mile Ditch



HollyFrontier Navajo Refining LLC - Artesia Refinery
Three Mile Ditch



Appendix D: Data Validation

Data reported by ESC Lab Sciences in Nashville, Tennessee for the groundwater samples collected in April and October 2017 were reviewed to ensure that reporting analytical results met the data quality requirements contained in the United States Environmental Protection Agency (EPA) *National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA, September 2016), *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA, January 2017), and the individual methods, as applicable. Quality control (QC) data indicate that measurement data are sufficient to meet method quality objectives, reported data are defensible, and QC mechanisms were generally effective in ensuring measurement data reliability within the expected limits of sampling and analytical error.

The following sections discuss the data QC issues identified during the data review for each of the data reports listed below.

April 2017 Data Packages	October 2017 Data Packages
L905300	L941516
L905302	L941518
L905307	L941520
L905562	L941521
L905602	L941523
L905645	
L905651	
L905668	

Lab Report L905300

Sample identifiers cross-referenced to laboratory identifications are presented below.

Sample ID	Lab ID
L905300-01	MW-82
L905300-02	MW-74
L905300-03	MW-73
L905300-04	MW-72
L905300-05	OCD-6
L905300-06	OCD-7AR
L905300-07	OCD-7B
L905300-08	MW-5A
L905300-09	MW-5B
L905300-10	MW-5C
L905300-11	MW-7A
L905300-12	MW-7B
L905300-13	OCD-8A
L905300-14	OCD-8B
L905300-15	MW-87
L905300-16	MW-18A
L905300-17	MW-18B
L905300-18	MW-70
L905300-19	MW-124
L905300-20	DUP-EP-01*
L905300-21	EB-EP-01
L905300-22	EB-EP-02
L905300-23	EB-EP-03
L905300-24	TRIP BLANK-EP-02

*Duplicate of location MW-7A

Lab Report L905300 Continued

Data Review Checklist	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any laboratory control sample (LCS) or LCS duplicates (LCSD) percent recoveries (%R) out of laboratory defined limits?	X		
Any LCS/LCSD relative percent differences (RPD) above laboratory defined limits?		X	
Any matrix spike (MS) or MS duplicate (MSD) %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any lab duplicate RPD above laboratory defined limits?	X		
Any field duplicate data additionally flagged as estimated?	X		
Any analyte analyzed by different method than planned?		X	

Laboratory Method Blanks

The inorganic compound was detected in the following associated samples at concentrations within five times the method blank concentration. Therefore, these samples may include measurement contributions from laboratory sources.

- Selenium: EB-EP-01, EB-EP-02, and EB-EP-03

Equipment Blanks

Eight equipment blank detections were identified in EB-EP-01, six equipment blank detections were identified in EB-EP-02, and six equipment blank detections were identified in EB-EP-03. The following analytes were detected in the corresponding samples at concentrations within five times their respective equipment blank concentrations. Therefore, they may include measurement contributions from the field.

- Nitrate-Nitrite: MW-7A, MW-7B, OCD-7AR, OCD-8A, OCD-8B
- Selenium: MW-5B, MW-18A, MW-72, MW-73, MW-82

Lab Report L905300 Continued

LCS/LCSDs

The LCS recovery for naphthalene was below the laboratory-defined limits in batch WG975016. All naphthalene results are non-detect in samples included in batch WG975016, therefore, no data qualification is necessary.

MS/MSDs

The analytes outside the laboratory-defined recovery limits for the MS/MSD were not qualified because each original result was greater than four times the corresponding spiked amount. The sample concentrations are too high to evaluate accurate spike recoveries.

Lab Duplicates

The RPD in sample EB-EP-01 (WG974575) exceeded the laboratory-defined control limit for chloride and sulfate, but the RPD values are not applicable because the original sample results were less than five times their reporting limit. Therefore, no data interpretation was needed.

The RPD in sample EB-EP-03 (WG974945) exceeded the laboratory-defined control limit for nitrate-nitrite, but the RPD value is not applicable because the original sample result is less than five times the reporting limit. Therefore, no data interpretation was needed.

The RPD in sample EB-EP-03 (WG975157) exceeded the laboratory-defined control limit for chloride and sulfate, but the RPD values are not applicable because the original sample results are less than five times their reporting limit. Therefore, no data interpretation was needed.

Field Duplicates

The duplicate pair MW-7A and DUP-EP-01 did not meet control limits (20%) for fluoride (20.2%). The fluoride result for MW-7A may be considered estimated.

Lab Report L905302

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L905302-01	MW-45
L905302-02	MW-54A
L905302-03	MW-54B
L905302-04	NCL-49
L905302-05	MW-53
L905302-06	DUP-NCL-01*
L905302-07	TRIP BLANK-NCL-01

*Duplicate of location NCL-49

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?			X
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?		X	
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any lab duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?		X	
Any analyte analyzed by different method than planned?		X	

Standard Conditions

There was not a collection date listed on the chain of custody (COC) for trip blank TRIP BLANK-NCL-01. The date on the COC should be April 25, 2017.

Laboratory Method Blanks

One method blank detection was identified in the QC summary. There was no data interpretation for associated samples because they are either non-detect, detected greater than five times the method blank concentration for inorganics, or detected greater than ten times the method blank concentration for organics.

LCS/LCSDs

The LCSD recovery for acetone was above the laboratory-defined limits. There were no detections of acetone in samples in batch WG975213; therefore, no data qualifications are necessary.

Lab Report L905307

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L905307-01	KWB-8
L905307-02	KWB-7
L905307-03	KWB-11A
L905307-04	KWB-11B
L905307-05	NP-5
L905307-06	MW-136
L905307-07	RW-#18A
L905307-08	KWB-1A
L905307-09	KWB-1C
L905307-10	KWB-10R
L905307-11	KWB-2R
L905307-12	MW-58
L905307-13	MW-103
L905307-14	MW-104
L905307-15	MW-64
L905307-16	MW-65
L905307-17	UG-2
L905307-18	UG-3R
L905307-19	UG-1
L905307-20	UG-4
L905307-21	MW-43
L905307-22	MW-137
L905307-23	MW-138
L905307-24	MW-98
L905307-25	MW-106
L905307-26	MW-50
L905307-27	RW-1
L905307-28	MW-91
L905307-29	MW-90
L905307-30	MW-96
L905307-31	DUP-REST-02*
L905307-32	EB-REST-02
L905307-34	TRIP BLANK-REST-04**

*Duplicate of location MW-104

**Sample not listed in corresponding COC, but added later per TRC

Lab Report L905307 Continued

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?	X		
Any lab duplicate RPD above laboratory defined limits?	X		
Any field duplicate data additionally flagged as estimated?	X		
Any analyte analyzed by different method than planned?		X	

Standard Conditions

Volatile organic compound (VOC) sample bottles for KWB-11A were performed from an inadequately preserved sample container. The VOC pH was outside of method requirements for samples MW-43, MW-104, MW-136, and MW-137, and therefore VOC results for these samples may be biased low.

Laboratory Method Blanks

The inorganic compound was detected in the following associated samples at concentrations within five times the method blank concentration. Therefore, these samples may include measurement contributions from laboratory sources.

- Selenium: MW-43, MW-90, MW-91, MW-96, MW-98, MW-106, MW-137, MW-138, RW-1, and DUP-REST-02.

Equipment Blanks

Eight equipment blank detections were identified in EB-REST-02. These analytes were detected in the corresponding samples at concentrations within five times the equipment blank concentrations for inorganic analytes or within ten times the equipment blank concentration for organic analytes. Therefore, these samples may include measurement contributions from the field.

- Manganese: KWB-11B, MW-91, MW-96, MW-104, NP-5, RW-#18A, UG-3R, DUP-REST-02
- Naphthalene: KWB-2R, KWB-7, KWB-11A, MW-138
- Sulfate: KWB-10R, MW-65
- TPH High Fraction: KWB-1A, KWB-1C, KWB-11A, KWB-11B, MW-136, UG-1, UG-2, UG-3R, UG-4

Lab Report L905307 Continued

LCS/LCSDs

Individual or both LCS/LCSD recoveries were above or below the laboratory-defined limits. However, there was no data interpretation since only one of each LCS/LCSD were outside the laboratory-defined limits and/or the results were non-detect.

MS/MSDs

Nitrate-nitrite in batch WG974946 was below the lab-defined recovery limit for the MS, therefore nitrate-nitrite detections in samples in batch WG974946 may be biased low.

Cyanide in batch WG974960 was above the MS/MSD lab-defined recovery limits, therefore cyanide detections in samples in batch WG974960 may be biased low.

Other analytes that recovered outside the laboratory-defined recovery limits for the MS/MSD were not qualified because each original result was greater than four times the corresponding spiked amount. The sample concentrations are too high to evaluate accurate spike recoveries.

Surrogate Recoveries

Analytes with surrogate recoveries out of range could be qualified if more than half of the surrogates are outside the laboratory limits. Only one surrogate is out of the laboratory limits for VOCs in sample KWB-2R, so no data interpretation was needed.

Lab Duplicates

The RPD in sample KWB-1C (WG974946) exceeded the laboratory-defined control limit for nitrate-nitrite, but the RPD value is not applicable because the original sample result is less than five times the reporting limit. Therefore, no data interpretation was needed.

Field Duplicates

The duplicate pair MW-104 and DUP-REST-02 did not meet control limits (30%) for benzene (33.4%) or isopropylbenzene (39.2%). The benzene and isopropylbenzene results for MW-104 may be considered estimated.

Lab Report L905562

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L905562-01	MW-76
L905562-02	MW-77
L905562-03	MW-78
L905562-04	MW-75
L905562-05	MW-83
L905562-06	MW-3
L905562-07	MW-88
L905562-08	MW-22A
L905562-09	MW-22B
L905562-10	MW-10
L905562-11	MW-6A
L905562-12	MW-6B
L905562-13	MW-120
L905562-14	MW-121
L905562-15	MW-84
L905562-16	MW-122
L905562-17	MW-81
L905562-18	MW-80
L905562-19	MW-79
L905562-20	MW-2A
L905562-21	MW-123
L905562-22	MW-4A
L905562-23	MW-4B
L905562-24	MW-1R
L905562-25	MW-15
L905562-26	OCD-1R
L905562-27	OCD-2A
L905562-28	OCD-3
L905562-29	OCD-4
L905562-30	MW-11A
L905562-31	MW-11B
L905562-32	OCD-5
L905562-33	DUP-EP-02*
L905562-34	DUP-EP-03*
L905562-35	EB-EP-04
L905562-36	TRIP BLANK-EP-03

*DUP-EP-02 is duplicate of location MW-22A

DUP-EP-03 is duplicate of location MW-3

Lab Report L905562 Continued

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?	X		
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?	X		
Any lab duplicate RPD above laboratory defined limits?	X		
Any field duplicate data additionally flagged as estimated?		X	
Any analyte analyzed by different method than planned?			

Laboratory Method Blanks

These compounds were detected in the following associate samples at concentrations within five times the method blank concentration for inorganic analytes. Therefore, these results may include measurement contributions from laboratory sources.

- Iron: MW-15, MW-123, and OCD-1R.
- Dissolved Manganese: EB-EP-04

Equipment Blanks

Eight equipment blank detections were identified in EB-EP-04. These analytes were detected in the corresponding samples at concentrations within five times the EB- EP-04 equipment blank concentrations. Therefore, they may include measurement contributions from the field.

- Dissolved Chromium: MW-1R, MW-15, MW-77, MW-83, MW-84, DUP-EP-02
- Manganese: MW-81
- Dissolved Manganese: MW-81

LCS/LCSDs

Individual LCS or LCSD recoveries were above or below the laboratory-defined limits. However, there was no data interpretation since there were no detections of the analytes outside of their LCS/LCSD recoveries in samples in batch WG975485.

The LCS/LCSD RPD was above the laboratory-defined limits for 2-hexanone. There were no detections of 2-hexanone in samples in batch WG975485; therefore, there are no data qualifications.

Lab Report L905562 Continued

MS/MSDs

The analytes outside the laboratory-defined recovery limits for the MS/MSD were not qualified because each original result was greater than four times the corresponding spiked amount. The sample concentrations are too high to evaluate accurate spike recoveries.

Surrogate Recoveries

Analytes with surrogate recoveries out of range could be qualified if more than half of the surrogates are outside the laboratory limits. Only one surrogate is out of the laboratory limits for VOCs in sample OCD-5, so no data interpretation was needed.

Lab Duplicates

The RPD in MW-123 and OCD-4 (WG975586) exceeded the laboratory-defined control limit for nitrate-nitrite, but the RPD value is not applicable because the original sample results are less than five times the reporting limit. Therefore, no data interpretation was needed.

The RPD in EB-EP-04 (WG975327) exceeded the laboratory-defined control limit for chloride and sulfate, but the RPD value is not applicable because the original sample results are less than five times the reporting limit. Therefore, no data interpretation was needed.

Field Duplicates

The duplicate pair MW-22A and DUP-EP-02 did not meet control limits (20%) for dissolved solids (44.6%). The dissolved solids result for MW-22A may be considered estimated.

The duplicate pair MW-3 and DUP-EP-03 did not meet control limits (20%) for iron (29.8%). The iron result for MW-3 may be considered estimated.

Lab Report L905602

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L905602-01	MW-25
L905602-02	MW-20
L905602-03	MW-8
L905602-04	MW-21
L905602-05	NP-1
L905602-06	NP-6
L905602-07	MW-71
L905602-08	MW-68
L905602-09	MW-27
L905602-10	MW-89
L905602-11	MW-16
L905602-12	MW-26
L905602-13	MW-46R
L905602-14	TRIP BLANK-TMD-01

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?			X
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?	X		
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any lab duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?			X
Any analyte analyzed by different method than planned?		X	

Laboratory Method Blanks

One method blank detection was identified in the QC summary. There was no data interpretation for associated samples because they are either non-detect, detected greater than five times the method blank concentration for inorganics, or detected greater than ten times the method blank concentration for organics.

Lab Report L905602 Continued

LCS/LCSDs

Individual LCS or LCSD recoveries were above or below the laboratory-defined limits in batch WG975485. However, there was no data interpretation since only one of each LCS/LCSD recoveries were outside the laboratory-defined limits.

The LCS/LCSD RPD was above the laboratory-defined limits for 2-hexanone. There were no detections of 2-hexanone in samples in batch WG975485; therefore, there are no data qualifications.

MS/MSDs

Fluoride in batch WG975534 was below the lab-defined recovery limit for the MS/MSD, therefore samples in batch WG975534 with a fluoride detection may be biased low.

In batch WG975081, the MS recovery for manganese was above lab-defined recovery limits. The MSD recovery for manganese was within the lab-defined limits, so no qualification is necessary.

Analytes outside the laboratory-defined recovery limits for the MS/MSD in batch WG975081 were not qualified because each original result was greater than four times the corresponding spiked amount. The sample concentrations are too high to evaluate accurate spike recoveries.

Lab Report L905645

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L905645-01	TEL-4
L905645-02	TEL-3
L905645-03	TEL-2
L905645-04	TEL-1
L905645-05	DUP-TEL-01 *
L905645-06	EB-TEL-01
L905645-07	TRIP BLANK-TEL-01
L905645-08	MW-49

*Duplicate of location TEL-4

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?		X	
Any LCS/LCSD RPD above laboratory defined limits?	X		
Any MS/MSD %R outside of laboratory defined limits?		X	
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any lab duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?	X		
Any analyte analyzed by different method than planned?		X	

Laboratory Method Blanks

The inorganic compound was detected in the following associated samples at concentrations within five times the method blank concentration. Therefore, these samples may include measurement contributions from laboratory sources.

- Chromium: TEL-2, TEL-3, and EB-TEL-01

Lab Report L905645 Continued

Equipment Blanks

Seven equipment blank detections were identified in EB-TEL-01. These analytes were detected in the corresponding samples at concentrations within five times the EB-TEL-01 equipment blank concentrations. Therefore, they may include measurement contributions from the field.

- Dissolved Chromium: TEL-2, TEL-3
- Iron: MW-49, TEL-2, DUP-TEL-01

LCS/LCSDs

The LCS/LCSD RPD was above the laboratory-defined limits for acetone. Acetone was detected in sample TEL-1 in batch WG975531; therefore, acetone in sample TEL-1 may be biased high.

Field Duplicates

The duplicate pair TEL-4 and DUP-TEL-01 did not meet control limits (20%) for chromium (56.3%) or iron (173.0%) or the control limits (30%) for sec-butylbenzene (34.0%). The chromium, iron, and sec-butylbenzene results for TEL-4 may be considered estimated.

Lab Report L905651

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L905651-01	MW-56
L905651-02	MW-55
L905651-03	MW-18
L905651-04	NCL-34A
L905651-05	NCL-33
L905651-06	NCL-44
L905651-07	NCL-32
L905651-08	MW-108
L905651-09	NCL-31
L905651-10	EB-NCL-01

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?			X
Any LCS/LCSD %R out of laboratory defined limits?		X	
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any lab duplicate RPD above laboratory defined limits?	X		
Any field duplicate data additionally flagged as estimated?			X
Any analyte analyzed by different method than planned?		X	

Laboratory Method Blanks

These compounds were detected in the following associated samples at concentrations within five times the method blank concentration and therefore may include measurement contributions from laboratory sources.

- Dissolved chromium: MW-18, MW-108, EB-NCL-01
- Dissolved nickel: MW-18
- Manganese: EB-NCL-01

Lab Report L905651 Continued

Equipment Blanks

Ten equipment blank detections were identified in EB-NCL-01. These analytes were detected in the corresponding samples at concentrations within five times the EB- NCL-01 equipment blank concentrations. Therefore, they may include measurement contributions from the field.

- Dissolved Chromium: MW-18, MW-108
- Nitrate-Nitrite: MW-108, NCL-33, NCL-34A, NCL-44

MS/MSDs

Nitrate-nitrite in batch WG975894 and WG975895 were below the MS/MSD lab-defined recovery limits. Detected results of nitrate-nitrate from samples in these batches may be biased low.

Analytes outside the laboratory-defined recovery limits for the MS/MSD were not qualified because each original result was greater than four times the corresponding spiked amount. The sample concentrations are too high to evaluate accurate spike recoveries.

Lab Duplicates

The RPD in NCL-31 (WG9755895) exceeded the laboratory-defined control limit for nitrate-nitrite, but the RPD value is not applicable because the original sample results are less than five times the reporting limit. Therefore, no data interpretation was needed.

The RPD in EB-NCL-01 (WG976555) exceeded the laboratory-defined control limits for chloride, fluoride, and sulfate, but the RPD value is not applicable because the original sample results are less than five times the reporting limit. Therefore, no data interpretation was needed.

Lab Report L905668

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L905668-01	RW-#15C
L905668-02	MW-48
L905668-03	MW-130
L905668-04	KWB-P4
L905668-05	MW-134
L905668-06	RA-4798
L905668-07	RA-4196
L905668-08	RA-3156
L905668-09	MW-135
L905668-10	MW-117
L905668-11	MW-118
L905668-12	MW-119
L905668-13	KWB-5
L905668-14	MW-111
L905668-15	KWB-6
L905668-16	MW-57
L905668-17	KWB-12A
L905668-18	KWB-12B
L905668-19	KWB-13
L905668-20	MW-102
L905668-21	RW-4
L905668-22	MW-99
L905668-23	MW-66
L905668-24	MW-28
L905668-25	MW-107
L905668-26	MW-128
L905668-27	MW-125
L905668-28	MW-116
L905668-29	MW-105
L905668-30	RW-2
L905668-31	MW-61
L905668-32	MW-62
L905668-33	MW-93
L905668-34	MW-23
L905668-35	MW-39
L905668-36	MW-41
L905668-37	MW-42
L905668-38	MW-29
L905668-39	RW-#16B
L905668-40	MW-94
L905668-41	MW-67

Lab Report L905668 Continued

Sample identifiers cross-referenced to laboratory identifications are continued below.

Lab ID	Sample ID
L905668-41	MW-67
L905668-42	MW-95
L905668-43	RW-7
L905668-44	RW-#17A
L905668-45	DUP-REST-03*
L905668-46	DUP-REST-05*
L905668-47	EB-REST-03
L905668-48	EB-REST-05
L905668-49	TRIP BLANK-REST-02
L905668-50	MW-52
L905668-51	MW-109
L905668-52	MW-110
L905668-53	RW-12R
L905668-54	MW-113
L905668-55	RA-313
L905668-56	MW-115
L905668-57	MW-114
L905668-58	MW-126A
L905668-59	MW-126B
L905668-60	MW-127
L905668-61	MW-129
L905668-62	MW-131
L905668-63	MW-59
L905668-64	MW-60
L905668-65	RW-10
L905668-66	DUP-REST-01*
L905668-67	DUP-REST-04*
L905668-68	EB-REST-01
L905668-69	EB-REST-04
L905668-70	TRIP BLANK-REST-04
L905668-72	TRIP BLANK-REST-03**
L905668-73	RW-8
L905668-74	MW-101
L905668-75	MW-40
L905668-76	RW-9

*DUP-REST-01 is duplicate of location MW-113

DUP-REST-03 is duplicate of location MW-134

DUP-REST-04 is duplicate of location MW-60

DUP-REST-05 is duplicate of location KWB-12B

**Sample not listed in COC

Lab Report L905668 Continued

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?			
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?	X		
Any lab duplicate RPD above laboratory defined limits?	X		
Any field duplicate data additionally flagged as estimated?	X		
Any analyte analyzed by different method than planned?		X	

Standard Conditions

The VOC pH was outside of method requirements for samples MW-39 and MW-94 and therefore VOC results for these samples may be biased low.

Laboratory Method Blanks

These compounds were detected in the following associated samples at concentrations within five times the method blank concentration and therefore may include measurement contributions from laboratory sources.

- Boron: EB-REST-04
- Dissolved Boron: EB-REST-04
- Dissolved Chromium: EB-REST-01, EB-REST-04
- Dissolved Manganese: KWB-12A, KWB-12B, KWB-13, MW-117, MW-119, MW-135
- Manganese: EB-REST-01, EB-REST-04
- Dissolved Nickel: KWB-12A, KWB-12B, KWB-13, EB-REST-04
- Nickel: DUP-REST-05
- Dissolved Selenium: MW-52, MW-59, MW-60, MW-109, MW-110, MW-113, MW-114, MW-115, MW-126A, MW-126B, MW-127, MW-129, MW-131, RW-10, RW-12R, DUP-REST-01, EB-REST-05
- Selenium: KWB-5, MW-48, MW-102, RW-#15C
- Dissolved Vanadium: MW-41, MW-60, MW-67, DUP-REST-04, EB-REST-04, EB-REST-05
- Vanadium: MW-60, MW-66, EB-REST-04, DUP-REST-04

Lab Report L905668 Continued

Equipment Blanks

Eight equipment blank detections were identified in EB-REST-01, five equipment blank detections were identified in EB-REST-03, ten equipment blank detections were identified in EB-REST-04, ten equipment blank detections were identified in EB-REST-05. These analytes were detected in the corresponding samples at concentrations within five times their respective equipment blank concentrations for inorganic analytes and within ten times their respective equipment blank concentrations for organic analytes. Therefore, they may include measurement contributions from the field.

- Dissolved Chromium: MW-18, MW-108
- Nitrate-Nitrite: MW-108, NCL-33, NCL-34A, NCL-44
- Dissolved Manganese: KWB-12A, KWB-12B, KWB-13, MW-62, MW-94, MW-117, MW-119, MW-135
- Nickel: MW-60, DUP-REST-04
- Dissolved Selenium: KWB-5, KWB-6, MW-28, MW-41, MW-42, MW-67, MW-95, MW-99, MW-102, MW-111, RW-7
- Toluene: MW-52, MW-53, MW-61, MW-65, MW-68, MW-75, MW-76, MW-109, MW-127, MW-131
- Vanadium: MW-60, MW-66, MW-67, DUP-REST-04
- Dissolved Vanadium: MW-60, MW-66, MW-67, DUP-REST-04

LCS/LCSDs

Bromomethane in batch WG975624 was above the LCS/LCSD laboratory-defined %R limit. Bromomethane was not detected in any samples in this batch; therefore, no data interpretation issues are associated with the LCS/LCSD recoveries.

MS/MSDs

The nitrate-nitrite MS %R in batch WG976256 was above the recovery limit range (no MSD reported), therefore samples in batch WG976256 with a nitrate-nitrite detection may be biased high.

Some analytes outside the laboratory-defined recovery limits for the MS/MSD were not qualified because each original result was greater than four times the corresponding spiked amount. The sample concentrations are too high to evaluate accurate spike recoveries.

Surrogate Recoveries

Analytes with surrogate recoveries out of range could be qualified if more than half of the surrogates are outside the laboratory limits. Only one surrogate is out of the laboratory limits for VOCs in samples RW-#15C, MW-127, and MW-131, so no data interpretation was needed.

Lab Report L905668 Continued

Lab Duplicates

The RPD in RW-12R (WG975911) exceeded the laboratory-defined control limit for dissolved solids. The total solids result in this sample may be biased high.

The RPD in MW-66 (WG975896) and MW-42 (WG976257) exceeded the laboratory-defined control limit for nitrate-nitrite, however, no data qualification is necessary for nitrate-nitrite because the sample concentration was less than five times the reporting limit.

The RPD in MW-111 (WG975537) exceeded the laboratory-defined control limit for chloride and sulfate. No data qualification is necessary for sulfate because the sample concentration was less than five times the reporting limit. The chloride result in this sample may be biased high.

The RPD in EB-REST-03 (WG975914) exceeded the laboratory-defined control limit for chloride, however, no data qualification is necessary for chloride because the sample concentration was less than five times the reporting limit.

Field Duplicates

The duplicate pair MW-134 and DUP-REST-03 did not meet control limits (20%) for dissolved selenium (57.3%). The dissolved selenium result for MW-134 may be considered estimated.

The duplicate pair MW-60 and DUP-REST-04 did not meet control limits (30%) for benzene (67.0%). The benzene result for MW-60 may be considered estimated.

The duplicate pair KWB-12B and DUP-REST-05 did not meet control limits (20%) for sulfate (21.2%). The sulfate result for KWB-12B may be considered estimated.

Lab Report L941516

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L941516-01	MW-48
L941516-02	MW-130
L941516-03	MW-52
L941516-04	MW-109
L941516-05	MW-110
L941516-06	MW-113
L941516-07	KWB-8
L941516-08	MW-134
L941516-09	RA-4798
L941516-10	RA-4196
L941516-11	KWB-7
L941516-12	MW-135
L941516-13	KWB-11A
L941516-14	KWB-11B
L941516-15	MW-115
L941516-16	MW-114
L941516-17	MW-117
L941516-18	MW-118
L941516-19	MW-119
L941516-20	MW-136
L941516-21	MW-126A
L941516-22	MW-126B
L941516-23	MW-127
L941516-24	KWB-1A
L941516-25	KWB-10R
L941516-26	MW-131
L941516-27	KWB-5
L941516-28	MW-111
L941516-29	KWB-6
L941516-30	MW-57
L941516-31	KWB-12A
L941516-32	KWB-12B
L941516-33	KWB-2R
L941516-34	MW-58
L941516-35	MW-104
L941516-36	MW-64
L941516-37	MW-65
L941516-38	MW-102
L941516-39	MW-99
L941516-40	MW-66
L941516-41	MW-28

Lab Report L941516 Continued

Sample identifiers cross-referenced to laboratory identifications are continued below.

Lab ID	Sample ID
L941516-42	MW-60
L941516-43	MW-128
L941516-44	MW-125
L941516-45	MW-116
L941516-46	MW-101
L941516-47	MW-105
L941516-48	MW-61
L941516-49	MW-62
L941516-50	MW-43
L941516-51	MW-137
L941516-52	MW-138
L941516-53	MW-23
L941516-54	MW-39
L941516-55	MW-98
L941516-56	MW-29
L941516-57	MW-106
L941516-58	MW-50
L941516-59	MW-91
L941516-60	MW-90
L941516-61	MW-96
L941516-62	MW-67
L941516-63	DUP-REST-01*
L941516-64	DUP-REST-02*
L941516-65	DUP-REST-03*
L941516-66	DUP-REST-04*
L941516-67	DUP-REST-05*
L941516-68	EB-REST-01
L941516-69	EB-REST-02
L941516-70	EB-REST-03
L941516-71	EB-REST-04
L941516-72	EB-REST-05
L941516-73	TRIP BLANK-REST-01
L941516-74	TRIP BLANK-REST-02
L941516-75	TRIP BLANK-REST-03
L941516-76	TRIP BLANK-REST-04

* DUP-REST-01 is duplicate of location MW-113

DUP-REST-02 is duplicate of location MW-104

DUP-REST-03 is duplicate of location MW-134

DUP-REST-04 is duplicate of location MW-60

DUP-REST-05 is duplicate of location KWB-12B

Lab Report L941516 Continued

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?		X	
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?	X		
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?	X		
Any surrogate %R outside of laboratory defined limits?	X		
Any lab duplicate RPD above laboratory defined limits?	X		
Any field duplicate data additionally flagged as estimated?	X		
Any analyte analyzed by different method than planned?		X	

Standard Conditions

The VOC pH was outside of method requirements for sample MW-137 and therefore VOC results for this sample may be biased low.

Diesel range organics (DRO) in sample MW-117 had septa bleed contamination causing a high biased result. The sample was re-extracted past 7 days from collection. Benzene in sample MW-111 is reported as non-detect after dilution due to possible carry-over contamination during the initial analysis.

In the lab report L941516, samples MW-28, MW-60, and MW-66 were collected on October 4, 2017; however, according to the COC the samples were collected on October 3, 2017.

Laboratory Method Blanks

The inorganic compounds were detected in the following associated samples at concentrations within five times the method blank concentration. Therefore, these samples may include measurement contributions from laboratory sources.

- Barium: EB-REST-01, EB-REST-02, EB-REST-04, EB-REST-05
- Manganese: MW-62, MW-106
- Potassium: MW-23, MW-28, MW-29, MW-39, MW-43, MW-60, MW-62, MW-67, MW-90, MW-91, MW-98, MW-101, MW-106, MW-125, MW-128, MW-137, MW-138, DUP-REST-01, DUP-REST-04, DUP-REST-05, EB-REST-01, EB-REST-02, EB-REST-04, EB-REST-05

Lab Report L941516 Continued

Equipment Blanks

Ten equipment blank detections were identified in EB-REST-01, twelve in EB-REST-02, three in EB-REST-03, twelve in EB-REST-04, and eleven in EB-REST-05. These analytes were detected in the corresponding samples at concentrations within five times their respective equipment blank concentrations for inorganic analytes and within ten times their respective equipment blank concentrations for organic analytes. Therefore, they may include measurement contributions from the field.

- Barium: MW-60, MW-130
- Chromium: KWB-7, KWB-11B, KWB-12B, MW-23, MW-39, MW-43, MW-48, MW-57, MW-66, MW-109, MW-117, MW-118, MW-119, MW-125, MW-126B, MW-127, MW-128, MW-134, MW-135, MW-136, MW-137, MW-138, DUP-REST-03
- Iron: KWB-11B, KWB-12B, MW-50, MW-57, MW-60, MW-99, MW-104, MW-125, MW-126A, MW-126B, MW-135, MW-136, DUP-REST-04, DUP-REST-05
- Lead: MW-60, MW-106, DUP-REST-01
- Manganese: KWB-11B, KWB-12A, KWB-12B, MW-62, MW-104, DUP-REST-04
- Potassium: KWB-7, MW-126A, MW-128, DUP-REST-05
- TPH High Fraction: KWB-1A, KWB-7, KWB-8, KWB-10R, KWB-11B, KWB-12A, KWB-12B, MW-29, MW-50, MW-57, MW-66, MW-90, MW-99, MW-101, MW-113, MW-114, MW-115, MW-118, MW-119, MW-125, MW-126A, MW-126B, MW-127, MW-128, MW-134, MW-135, MW-136, DUP-REST-01, DUP-REST-02, DUP-REST-03, DUP-REST-04, DUP-REST-05
- Vanadium: MW-60, DUP-REST-04

LCS/LCSDs

The RPD percent recovery for bromomethane in batch WG1030672 was above the RPD recovery limit for the LCS/LCSD. Bromomethane was not detected in any samples in this batch; therefore, no data interpretation issues are associated with the LCS/LCSD recoveries.

The RPD percent recovery for TPH High Fraction in batch WG1028762 was above the RPD recovery limit for the LCS/LCSD. The LCSD %R was also above laboratory-defined limits. Samples in this batch with TPH High Fraction detections may be biased high.

MS/MSDs

The MS %R for nitrate-nitrite in batch WG1030396 was above the recovery limit range (no MSD reported), therefore samples in batch WG1030396 with a nitrate-nitrite detection may be biased high.

The MS/MSD %R for cyanide in batch WG1031544 was above the recovery range limit, however, no qualification is necessary because all cyanide results in this batch are non-detect.

Lab Report L941516 Continued

MS/MSDs (Continued)

The MS %R for fluoride in batch WG1031211 (parent sample RA-4798) was below the recovery limit range (no MSD reported), therefore fluoride in RA-4798 may be biased low. The MS/MSD %R for fluoride in the same batch was above the recovery range limit, so fluoride in the remaining samples in batch WG1031211 may be biased high.

The MS %Rs for arsenic and barium in batch WG1031445 were below their recovery limits. Since the MSD %R for arsenic was within the recovery limit range, no data is qualified based on the MS %R. The RPD for arsenic and selenium in this batch exceeded the laboratory-defined limit, so detections of arsenic and selenium in samples in batch WG1031445 may be biased high. The MS/MSD recoveries for selenium in this batch also recovered outside the laboratory-defined limits.

Arsenic and selenium have MS/MSD RPDs greater than the laboratory-defined limits in batch WG1031448. Detections of arsenic and selenium in samples in batch WG1031448 may be biased high.

Some analytes outside the laboratory-defined recovery limits for the MS/MSD were not qualified because each original result was greater than four times the corresponding spiked amount. The sample concentrations are too high to evaluate accurate spike recoveries.

Surrogate Recoveries

Analytes with surrogate recoveries out of range could be qualified if more than half of the surrogates are outside the laboratory limits. Only one surrogate is out of the laboratory limits for VOCs in samples KWB-8, MW-23, MW-48, MW-58, MW-61 so no data interpretation was needed.

The one surrogate for TPH High Fraction is above the laboratory limits in sample MW-29 and MW-109, so the TPH High Fraction result in these samples are biased high.

Lab Duplicates

The RPD in MW-136 (WG1032144) exceeded the laboratory-defined control limit for cyanide, but the RPD value is not applicable because the original sample is less than five times the reporting limit. Therefore, no data interpretation was needed.

The RPD in MW-133 (WG1031218), EB-REST-05 (WG1031920) exceeded the laboratory-defined control limit for chloride, but the RPD value is not applicable because the original sample is less than five times the reporting limit. Therefore, no data interpretation was needed.

Lab Report L941516 Continued

Field Duplicates

The duplicate pair MW-113 and DUP-REST-01 did not meet control limits (20%) for chloride (21.7%), fluoride (42.6%), and sulfate (20.3%). The chloride, fluoride, and sulfate results for MW-113 may be considered estimated.

The duplicate pair MW-104 and DUP-REST-02 did not meet control limits (20%) for fluoride (28.2%). The fluoride results for MW-104 may be considered estimated.

The duplicate pair MW-134 and DUP-REST-03 did not meet control limits (20%) for fluoride (33.1%). The fluoride result for MW-134 may be considered estimated.

The duplicate pair MW-60 and DUP-REST-04 did not meet control limits (30%) for TPH High Fraction (36.0%). The TPH High Fraction result for MW-60 may be considered estimated.

Lab Report L941518

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L941518-01	MW-45
L941518-02	NCL-34A
L941518-03	NCL-33
L941518-04	NCL-44
L941518-05	NCL-32
L941518-06	MW-108*
L941518-07	NCL-31
L941518-08	MW-55
L941518-09	MW-54A
L941518-10	NCL-49
L941518-11	DUP-NCL-01**
L941518-12	EB-NCL-01
L941518-13	TRIP BLANK-NCL-01

*Sample name is NCL-108 in the COC

** DUP-NCL-01 is duplicate of location NCL-49

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?		X	
Any LCS/LCSD RPD above laboratory defined limits?	X		
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any lab duplicate RPD above laboratory defined limits?	X		
Any field duplicate data additionally flagged as estimated?		X	
Any analyte analyzed by different method than planned?		X	

Standard Conditions

Sample MW-54A collection time is 8:50 in the lab report, but in the COC it is listed as 16:45.
Sample MW-108 was incorrectly labeled as NCL-108 in the COC.

Lab Report L941518 Continued

Laboratory Method Blanks

The inorganic compound was detected in the following associated samples at concentrations within five times the method blank concentration. Therefore, these samples may include measurement contributions from laboratory sources.

- Chromium: MW-55, MW-108, NCL-33, NCL-34A, NCL-44, NCL-49, DUP-NCL-01, EB-NCL-01

Equipment Blanks

Eleven equipment blank detections were identified in EB-NCL-01. These analytes were detected in the corresponding samples at concentrations within five times their respective equipment blank concentrations. Therefore, they may include measurement contributions from the field.

- Barium: MW-45, MW-55, NCL-31, NCL-32, NCL-49, DUP-NCL-01
- Chromium: MW-55, MW-108, NCL-33, NCL-34A, NCL-44, NCL-49, DUP-NCL-01, EB-NCL-01
- Iron: MW-54A, MW-55, NCL-32, NCL-34A, NCL-49
- Lead: MW-45, MW-108, NCL-32, NCL-34A, NCL-44
- Potassium: MW-54A

LCS/LCSDs

The RPD percent recovery for bromomethane in batch WG1030672 was above the RPD recovery limit for the LCS/LCSD. Bromomethane was not detected in any samples in this batch; therefore, no data interpretation issues are associated with the LCS/LCSD recoveries.

MS/MSDs

The MS %R for nitrate-nitrite in batch WG1030992 was below the recovery limit range (no MSD reported), therefore samples in batch WG1030992 with a nitrate-nitrite detection may be biased low.

Some analytes outside the laboratory-defined recovery limits for the MS/MSD were not qualified because each original result was greater than four times the corresponding spiked amount. The sample concentrations are too high to evaluate accurate spike recoveries.

Lab Duplicates

The RPD in EB-NCL-01 (WG1031215) exceeded the laboratory-defined control limit for chloride and sulfate, but the RPD values are not applicable because the original sample is less than five times the reporting limit. Therefore, no data interpretation was needed.

Lab Report L941520

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L941520-01	MW-120
L941520-02	MW-121
L941520-03	MW-84
L941520-04	MW-122
L941520-05	MW-79
L941520-06	MW-74
L941520-07	MW-2A
L941520-08	OCD-6
L941520-09	OCD-7AR
L941520-10	MW-76
L941520-11	MW-75
L941520-12	MW-83
L941520-13	MW-3
L941520-14	MW-88
L941520-15	MW-22A
L941520-16	MW-10
L941520-17	MW-123
L941520-18	MW-4A
L941520-19	MW-5A
L941520-20	MW-7A
L941520-21	OCD-8A
L941520-22	OCD-1R
L941520-23	OCD-2A
L941520-24	OCD-3
L941520-25	OCD-4
L941520-27	OCD-5
L941520-28	MW-87
L941520-29	MW-18A
L941520-30	MW-70
L941520-31	MW-124
L941520-32	DUP-EP-01*
L941520-33	DUP-EP-02*
L941520-34	DUP-EP-03*
L941520-35	EB-EP-01
L941520-36	EB-EP-02
L941520-37	EB-EP-03
L941520-38	EB-EP-04

* DUP-EP-01 is duplicate of location MW-7A

DUP- EP-02 is duplicate of location MW-22A

DUP- EP-03 is duplicate of location MW-3

Lab Report L941520 Continued

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L941520-39	TRIP BLANK-EP-01
L941520-40	TRIP BLANK-EP-02
L941520-41	TRIP BLANK-EP-03

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X	
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?	X		
Any LCS/LCSD RPD above laboratory defined limits?	X		
Any MS/MSD %R outside of laboratory defined limits?	X		
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?		X	
Any lab duplicate RPD above laboratory defined limits?		X	
Any field duplicate data additionally flagged as estimated?		X	
Any analyte analyzed by different method than planned?		X	

Standard Conditions

Sample MW-18A was analyzed for cyanide (Method 4500CN E-2011) from an inadequately preserved sample and therefore result may be biased low.

Laboratory Method Blanks

These compounds were detected in the following associate samples at concentrations within five times the method blank concentration and therefore may include measurement contributions from laboratory sources.

- Chloride: EB-EP-01, EB-EP-02, EB-EP-03
- Iron: MW-10, MW-74, MW-88, MW-121
- Manganese: EB-EP-02, EB-EP-03
- Sodium: EB-EP-01, EB-EP-04
- Sulfate: EB-EP-01
- Vanadium: OCD-8A

Lab Report L941520 Continued

Equipment Blanks

Five equipment blank detections were identified in EB-EP-01, eleven equipment blank detections were identified in EB-EP-02 and EB-EP-03 each, and four equipment blank detections were identified in EB-EP-04. These analytes were detected in the corresponding samples at concentrations within five times their respective equipment blank concentrations for inorganic analytes or within ten times their respective equipment blank concentration for organic analytes. Therefore, they may include measurement contributions from the field.

- Barium: MW-2A, MW-3, MW-4A, MW-5A, MW-10, MW-18A, MW-22A, MW-70, MW-75, MW-76, MW-84, MW-87, MW-88, MW-120, MW-121, DUP-EP-01, DUP-EP-02, DUP-EP-03
- Chromium: MW-3, MW-7A, MW-75, MW-76, MW-84, MW-120, OCD-1R, OCD-3, OCD-5, OCD-8A, DUP-EP-01, DUP-EP-02, DUP-EP-03
- Lead: MW-3, MW-7A, MW-22A, MW-75, MW-83, MW-88, OCD-1R, DUP-EP-03
- TPH High Fraction: MW-2A, MW-122, MW-124, OCD-2A, OCD-3, OCD-4, OCD-5, OCD-6
- TPH Low Fraction: OCD-6

LCS/LCSDs

The RPD %R for chromium in batch WG1031500 was above the RPD recovery limit for the LCS/LCSD and the %R for chromium was above the LCSD recovery limit. Chromium is biased high for samples in batch WG1031500 with chromium detections.

MS/MSDs

The MS %R of nitrate-nitrite in batch WG1030994 was below the recovery limit range (no MSD reported), therefore samples in batch WG1030994 with a nitrate-nitrite detection may be biased low.

The MSD %R of fluoride in batch WG1031215 was below the recovery limit range. The MS %R was within range, so no qualification is necessary.

Some analytes outside the laboratory-defined recovery limits for the MS/MSD were not qualified because each original result was greater than four times the corresponding spiked amount. The sample concentrations are too high to evaluate accurate spike recoveries.

Lab Duplicates

The RPD in EB-EP-01 (WG1031671) exceeded the laboratory-defined control limit for chloride and sulfate, but the RPD values are not applicable because the original sample is less than five times the reporting limit. Therefore, no data interpretation was needed.

Lab Report L941520 Continued

Field Duplicates

The duplicate pair MW-22A and DUP-EP-02 did not meet control limits (20%) for chromium (188.4%). The chromium result for MW-22A may be considered estimated.

The duplicate pair MW-3 and DUP-EP-03 did not meet control limits (30%) for TPH High Fraction (103.4%) or TPH Low Fraction (32.3%). The TPH High Fraction and TPH Low Fraction results for MW-3 may be considered estimated.

Lab Report L941521

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L941521-01	NP-1
L941521-02	MW-21
L941521-03	MW-46R
L941521-04	TRIP BLANK-TMD-01

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?			X
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?		X	
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?			X
Any MS/MSD RPD above laboratory defined limits?			X
Any surrogate %R outside of laboratory defined limits?		X	
Any lab duplicate RPD above laboratory defined limits?			X
Any field duplicate data additionally flagged as estimated?			X
Any analyte analyzed by different method than planned?		X	

Laboratory Method Blanks

Two method blank detections were identified in the QC summary. There was no data interpretation for associated samples that are either non-detect, detected greater than

five times the method blank concentration for inorganics, or detected greater than ten times the method blank concentration for organics.

Lab Report L941523

Sample identifiers cross-referenced to laboratory identifications are presented below.

Lab ID	Sample ID
L941523-01	TEL-4
L941523-02	TEL-2
L941523-03	TEL-1
L941523-04	MW-49
L941523-05	DUP-TEL-01 *
L941523-06	EB-TEL-01
L941523-07	TRIP BLANK-TEL-01

* DUP-TEL-01 is duplicate of location TEL-4

Items	Yes	No	Not applicable
Did all samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X		
All samples within holding times?	X		
Any detection in method blanks?	X		
Any detection in equipment blanks?	X		
Any detection in trip blanks?		X	
Any LCS/LCSD %R out of laboratory defined limits?		X	
Any LCS/LCSD RPD above laboratory defined limits?		X	
Any MS/MSD %R outside of laboratory defined limits?		X	
Any MS/MSD RPD above laboratory defined limits?		X	
Any surrogate %R outside of laboratory defined limits?	X		
Any lab duplicate RPD above laboratory defined limits?	X		
Any field duplicate data additionally flagged as estimated?		X	
Any analyte analyzed by different method than planned?		X	

Laboratory Method Blanks

These compounds were detected in the following associate samples at concentrations within five times the method blank concentration for inorganic analytes or within ten times the method blank concentration for organic analytes. Therefore, these results may include measurement contributions from laboratory sources.

- Chromium: MW-49, EB-TEL-01
- TPH High Fraction: TEL-1, TEL-2, TEL-4, MW-49, DUP-TEL-01

Lab Report L941523 Continued

Surrogate Recoveries

Analytes with surrogate recoveries out of range could be qualified if more than half of the surrogates are outside the laboratory limits. Only one surrogate is out of the laboratory limits for VOCs in samples TEL-1, TEL-2, TEL-4, DUP-TEL-01, and EB-TEL-01, so no data interpretation was needed. Only one surrogate is out of the laboratory limits for TPH High Fraction in sample TEL-2, so no data interpretation was necessary.

Lab Duplicates

The RPD in EB-TEL-01 (WG1031218) exceeded the laboratory-defined control limit for chloride, but the RPD values are not applicable because the original sample is less than five times the reporting limit. Therefore, no data interpretation was needed.

Appendix E1 - Summary of Production from Recovery Trenches and Wells

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Recovery Well	Recovery Method	Volume of Water Recovered ⁽¹⁾ (gallons)					Volume of PSH Recovered ⁽¹⁾ (gallons)				
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total 2017	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total 2017
RW-1R	Automated Pump	0	76,624	46,128	0	122,752	0	0	0	0	0
RW-2R	Automated Pump	35	71,287	88,420	0	159,742	0	0	2	0	2
RW-4R	Automated Pump	18	10	0	0	28	0	0	0	0	0
RW-5R	Automated Pump	0	15	0	0	15	0	0	0	0	0
RW-6R	Automated Pump	30	45	0	0	75					0
RW-7R	Automated Pump	568,121	1,260,610	311,314	0	2,140,045	0	0	0	0	0
RW-8R	Automated Pump	266,799	211,080	135,694	160,471	774,044	0	0	0	0	0
RW-12R	Automated Pump	0	0	0	0	0					0
RW-13R	Automated Pump	22,006	58,996	131,580	0	212,582	0	1,105	0	1	1,106
RW-14R	Automated Pump	0	132,076	181,600	4	313,680	0	141	17	489	647
RW-15	Automated Pump	0	0	0	0	0	0	0	0	0	0
RW-19	Automated Pump	2	41,876	44,509	0	86,387	1	0	2	0	3
RW-20	Automated Pump	5	0	136,567	527,316	663,888	0	10	0	1	11
RW-22	Automated Pump	169,068	543,347	3,731	0	716,146	222	1,643	20,661	197	22,723
TOTAL VOLUME RECOVERED:		1,026,084	2,395,966	1,079,543	687,791	5,189,384	223	2,899	20,682	688	24,492

⁽¹⁾ Volumes of recovered water and PSH are based on automated system readings, rounded to the nearest gallon

Automated Fluid Readings - Skid Area T-9012

Date	Total Fluids Readings				PSH Readings				Tank Reading T-9012
	RW-1R	RW-2R	RW-7	RW-8R	RW-1R	RW-2R	RW-7	RW-8R	
12/26/2016	301,992	882,064	2,410,326	1,540,215	3	21,074	4	41,949	63,462
1/2/2017	0	0	0	0	0	0	0	0	0
1/9/2017	301,992	882,099	2,410,326	1,614,912	3	21,074	4	41,949	63,462
1/16/2017	301,992	882,099	2,410,326	1,622,445	3	21,074	4	41,949	63,466
1/23/2016	301,992	882,099	2,410,326	1,646,811	3	21,074	4	41,949	63,466
1/30/2017	301,992	882,099	2,410,326	1,654,457	3	21,074	4	41,949	63,474
2/6/2017	301,992	882,099	2,410,326	1,683,209	3	21,074	4	41,949	0
2/13/2017	301,992	882,099	2,410,326	1,713,589	3	21,074	4	41,949	63,605
2/20/2017	0	0	0	0	0	0	0	0	63,763
2/27/2017	301,992	882,099	2,558,216	1,756,939	3	21,074	4	41,949	0
3/6/2017	301,992	882,099	2,659,347	1,768,488	3	21,074	4	41,949	64,329
3/13/2017	301,992	882,099	2,766,014	1,784,012	3	21,074	4	41,949	64,457
3/20/2017	301,992	882,099	2,872,276	1,789,279	3	21,074	4	41,949	64,502
3/27/2017	301,992	882,099	2,978,447	1,807,014	3	21,074	4	41,949	64,535
1Q Totals:	0	35	568,121	266,799	0	0	0	0	1,073
4/3/2017	301,992	882,099	3,084,749	1,815,776	3	21,074	4	41,949	64,582
4/10/2017	301,992	882,099	3,190,869	1,821,955	3	21,074	4	41,949	64,587
4/17/2017	301,992	882,099	3,297,881	1,821,955	3	21,074	4	41,949	64,590
4/24/2017	301,992	882,099	3,404,790	1,827,709	3	21,074	4	41,949	64,594
5/1/2017	301,992	882,099	3,510,907	1,839,018	3	21,074	4	41,949	64,596
5/8/2017	301,992	882,099	3,615,483	1,867,065	3	21,074	4	41,949	64,597
5/15/2017	301,992	882,099	3,721,670	1,872,494	3	21,074	4	41,949	64,598
5/22/2017	312,171	882,213	3,827,652	1,878,569	3	21,074	4	41,949	64,744
5/29/2017	327,047	882,213	3,933,835	1,878,569	3	21,074	4	41,949	64,900
6/5/2017	341,072	900,506	4,039,492	1,878,569	3	21,074	4	41,949	65,215
6/12/2017	353,932	927,502	4,139,254	1,955,576	3	21,074	4	41,949	65,372
6/19/2017	366,323	935,847	4,242,534	1,989,110	3	21,074	4	41,949	65,372
6/26/2017	378,616	953,386	4,345,359	2,026,856	3	21,074	4	41,949	65,689
2Q Totals:	76,624	71,287	1,260,610	211,080	0	0	0	0	1,107
7/3/2017	391,384	977,800	4,448,155	2,068,376	3	21,074	4	41,949	67,752
7/10/2017	405,494	1,006,294	4,551,275	2,109,137	3	21,074	4	41,949	70,500
7/17/2017	419,285	1,033,364	4,654,191	2,145,473	3	21,074	4	41,949	71,322
7/24/2017	433,047	1,058,518	4,756,899	2,178,703	3	21,074	4	41,949	71,322
7/31/2017	437,512	1,066,220	4,759,469	2,201,393	3	21,074	4	41,949	71,322
8/7/2017	437,512	1,066,220	4,759,469	2,201,393	3	21,074	4	41,949	71,322
8/14/2017	437,512	1,066,220	4,759,469	2,201,393	3	21,074	4	41,949	71,322
8/21/2017	437,512	1,066,220	4,759,469	2,201,393	3	21,074	4	41,949	71,322
8/28/2017	437,512	1,066,220	4,759,469	2,201,393	3	21,074	4	41,949	71,322
9/4/2017	437,512	1,066,220	4,759,469	2,201,393	3	21,074	4	41,949	71,322
9/11/2017	437,512	1,066,220	4,759,469	2,204,070	3	21,076	4	41,949	71,322
9/18/2017	437,512	1,066,220	4,759,469	2,204,070	3	21,076	4	41,949	71,549
9/25/2017	437,512	1,066,220	4,759,469	2,204,070	3	21,076	4	41,949	71,549
3Q Totals:	46,128	88,420	311,314	135,694	0	2	0	0	3,797
10/2/2017	437,512	1,066,220	4,759,469	2,204,070	3	21,076	4	41,949	71,549
10/9/2017	437,512	1,066,220	4,759,469	2,214,677	3	21,076	4	41,949	71,549
10/16/2017	437,512	1,066,220	4,759,469	2,231,185	3	21,076	4	41,949	71,549
10/23/2017	437,512	1,066,220	4,759,469	2,248,136	3	21,076	4	41,949	71,549
10/30/2017	437,512	1,066,220	4,759,469	2,265,157	3	21,076	4	41,949	71,549
11/6/2017	437,512	1,066,220	4,759,469	2,281,613	3	21,076	4	41,949	71,549
11/13/2017	437,512	1,066,220	4,759,469	2,295,036	3	21,076	4	41,949	71,549
11/20/2017	437,512	1,066,220	4,759,469	2,305,774	3	21,076	4	41,949	71,549
11/27/2017	437,512	1,066,220	4,759,469	2,326,847	3	21,076	4	41,949	71,549
12/4/2017	437,512	1,066,220	4,759,469	2,341,381	3	21,076	4	41,949	71,549
12/11/2017	437,512	1,066,220	4,759,469	2,351,228	3	21,076	4	41,949	71,549
12/18/2017	437,512	1,066,220	4,759,469	2,364,541	3	21,076	4	41,949	71,549
12/25/2017	437,512	1,066,220	4,759,469	2,364,541	3	21,076	4	41,949	71,549
4Q Totals:	0	0	0	160,471	0	0	0	0	0

Automated Fluid Readings - Skid Area T-9003

Date	Total Fluids Readings		PSH Readings		Tank Reading T-9003
	RW-4R	RW-6R	RW-4R	RW-6R	
12/26/2016	4,715	469,984	1	8,850	15,402
1/2/2017	0	0	0	0	0
1/9/2017	4,715	469,984	1	8,850	15,403
1/16/2017	4,715	469,984	1	8,850	15,403
1/23/2016	4,715	469,984	1	8,850	15,405
1/30/2017	4,715	469,984	1	8,850	15,406
2/6/2017	4,715	469,984	1	8,850	0
2/13/2017	4,715	469,984	1	8,850	15,406
2/20/2017	0	0	0	0	15,406
2/27/2017	4,733	470,014	1	8,850	0
3/6/2017	4,733	470,014	1	8,850	15,406
3/13/2017	4,733	470,014	1	8,850	15,406
3/20/2017	4,733	470,014	1	8,850	15,406
3/27/2017	4,733	470,014	1	8,850	15,406
1Q Totals:	18	30	0	0	4
4/3/2017	4,733	470,014	1	8,850	15,406
4/10/2017	4,733	470,014	1	8,850	15,406
4/17/2017	4,733	470,014	1	8,850	15,406
4/24/2017	4,733	470,014	1	8,850	15,406
5/1/2017	4,733	470,014	1	8,850	15,406
5/8/2017	4,733	470,014	1	8,850	15,406
5/15/2017	4,733	470,014	1	8,850	15,406
5/22/2017	4,743	470,059	1	8,850	15,406
5/29/2017	4,743	470,059	1	8,850	15,406
6/5/2017	4,743	470,059	1	8,850	15,406
6/12/2017	4,743	470,059	1	8,850	15,406
6/19/2017	4,743	470,059	1	8,850	15,406
6/26/2017	4,743	470,059	1	8,850	15,406
2Q Totals:	10	45	0	0	0
7/3/2017	4,743	470,059	1	8,850	15,406
7/10/2017	4,743	470,059	1	8,850	15,406
7/17/2017	4,743	470,059	1	8,850	15,406
7/24/2017	4,743	470,059	1	8,850	15,406
7/31/2017	4,743	470,059	1	8,850	15,406
8/7/2017	4,743	470,059	1	8,850	15,406
8/14/2017	4,743	470,059	1	8,850	15,406
8/21/2017	4,743	470,059	1	8,850	15,406
8/28/2017	4,743	470,059	1	8,850	15,406
9/4/2017	4,743	470,059	1	8,850	15,406
9/11/2017	4,743	470,059	1	8,850	15,406
9/18/2017	4,743	470,059	1	8,850	15,406
9/25/2017	4,743	470,059	1	8,850	15,406
3Q Totals:	0	0	0	0	0
10/2/2017	4,743	470,059	1	8,850	15,406
10/9/2017	4,743	470,059	1	8,850	15,406
10/16/2017	4,743	470,059	1	8,850	15,406
10/23/2017	4,743	470,059	1	8,850	15,406
10/30/2017	4,743	470,059	1	8,850	15,406
11/6/2017	4,743	470,059	1	8,850	15,406
11/13/2017	4,743	470,059	1	8,850	15,406
11/20/2017	4,743	470,059	1	8,850	15,415
11/27/2017	4,743	470,059	1	8,850	15,415
12/4/2017	4,743	470,059	1	8,850	15,418
12/11/2017	4,743	470,059	1	8,850	15,435
12/18/2017	4,743	470,059	1	8,850	15,448
12/25/2017	4,743	470,059	1	8,850	15,448
4Q Totals:	0	0	0	0	42

Automated Fluid Readings - Skid Area T-9021

Date	Total Fluids Readings			PSH Readings			Tank Reading
	RW-5R	RW-15	RW-19	RW-5R	RW-15	RW-19	T-9021
12/26/2016	75,710	2,559	60,034	13,201	13,070	6,511	161,615
1/2/2017	0	0	0	0	0	0	0
1/9/2017	75,710	2,559	60,034	13,201	13,070	6,511	161,615
1/16/2017	75,710	2,559	60,034	13,201	13,070	6,511	161,743
1/23/2016	75,710	2,559	60,034	13,201	13,070	6,511	161,743
1/30/2017	75,710	2,559	60,034	13,201	13,070	6,511	161,744
2/6/2017	75,710	2,559	60,034	13,201	13,070	6,511	161,744
2/13/2017	75,710	2,559	60,034	13,201	13,070	6,511	161,744
2/20/2017	0	0	0	0	0	0	0
2/27/2017	75,710	2,559	60,036	13,201	13,070	6,511	161,851
3/6/2017	75,710	2,559	60,036	13,201	13,070	6,511	161,851
3/13/2017	75,710	2,559	60,036	13,201	13,070	6,511	161,851
3/20/2017	75,710	2,559	60,036	13,201	13,070	6,512	162,920
3/27/2017	75,710	2,559	60,036	13,201	13,070	6,512	164,086
1Q Totals:	0	0	2	0	0	1	2,471
4/3/2017	75,710	2,559	60,036	13,201	13,070	6,512	164,846
4/10/2017	75,710	2,559	60,036	13,201	13,070	6,512	164,846
4/17/2017	75,710	2,559	60,036	13,201	13,070	6,512	164,846
4/24/2017	75,710	2,559	60,036	13,201	13,070	6,512	164,846
5/1/2017	75,710	2,559	60,036	13,201	13,070	6,512	164,846
5/8/2017	75,710	2,559	60,036	13,201	13,070	6,512	164,846
5/15/2017	75,710	2,559	60,036	13,201	13,070	6,512	164,846
5/22/2017	75,710	2,559	63,972	13,201	13,070	6,512	165,739
5/29/2017	75,710	2,559	75,996	13,201	13,070	6,512	167,411
6/5/2017	75,710	2,559	82,525	13,201	13,070	6,512	169,822
6/12/2017	75,725	2,559	82,525	13,201	13,070	6,512	172,137
6/19/2017	75,725	2,559	89,306	13,201	13,070	6,512	172,914
6/26/2017	75,725	2,559	101,912	13,201	13,070	6,512	177,878
2Q Totals:	15	0	41,876	0	0	0	13,032
7/3/2017	75,725	2,559	114,659	13,201	13,070	6,513	201,461
7/10/2017	75,725	2,559	127,645	13,201	13,070	6,513	237,812
7/17/2017	75,725	2,559	140,991	13,201	13,070	6,513	250,733
7/24/2017	75,725	2,559	154,607	13,201	13,070	6,513	256,665
7/31/2017	75,725	2,559	159,168	13,201	13,070	6,513	256,665
8/7/2017	75,725	2,559	159,168	13,201	13,070	6,513	256,665
8/14/2017	75,725	2,559	159,168	13,201	13,070	6,514	259,067
8/21/2017	75,725	2,559	159,168	13,201	13,070	6,514	259,067
8/28/2017	75,725	2,559	159,168	13,201	13,070	6,514	259,730
9/4/2017	75,725	2,559	159,168	13,201	13,070	6,514	264,314
9/11/2017	75,725	2,559	159,168	13,201	13,070	6,514	268,757
9/18/2017	75,725	2,559	159,168	13,201	13,070	6,515	273,179
9/25/2017	75,725	2,559	159,168	13,201	13,070	6,515	273,773
3Q Totals:	0	0	44,509	0	0	2	72,312
10/2/2017	75,725	2,559	159,168	13,201	13,070	6,515	273,773

Automated Fluid Readings - Skid Area T-9020

Date	Total Fluids Readings					PSH Readings					Tank Reading T-9020
	RW-12R	RW-13R	RW-14R	RW-20	RW-22	RW-12R	RW-13R	RW-14R	RW-20	RW-22	
12/26/2016	234	542,085	355,371	4,938,595	1,206,411	4,755	22,887	42,551	446	14,563	141,220
1/2/2017	0	0	0	0	0	0	0	0	0	0	0
1/9/2017	234	542,085	355,371	4,938,595	1,206,411	4,755	22,887	42,551	446	14,563	141,227
1/16/2017	234	542,085	355,371	4,938,595	1,206,411	4,755	22,887	42,551	446	14,563	141,229
1/23/2016	234	542,085	355,371	4,938,595	1,206,411	4,755	22,887	42,551	446	14,563	141,229
1/30/2017	234	542,085	355,371	4,938,599	1,206,411	4,755	22,887	42,551	446	14,563	141,241
2/6/2017	234	542,085	355,371	4,938,599	1,206,411	4,755	22,887	42,551	446	14,563	141,259
2/13/2017	234	542,085	355,371	4,938,599	1,206,411	4,755	22,887	42,551	446	14,563	141,259
2/20/2017	0	0	0	0	0	0	0	0	0	0	0
2/27/2017	234	542,085	355,371	4,938,600	1,263,048	4,755	22,887	42,551	446	14,563	141,267
3/6/2017	234	542,085	355,371	4,938,600	1,294,591	4,755	22,887	42,551	446	14,563	141,270
3/13/2017	234	542,085	355,371	4,938,600	1,324,736	4,755	22,887	42,551	446	14,563	141,271
3/20/2017	234	552,592	355,371	4,938,600	1,346,071	4,755	22,887	42,551	446	14,564	141,488
3/27/2017	234	564,091	355,371	4,938,600	1,375,479	4,755	22,887	42,551	446	14,785	141,821
1Q Totals:	0	22,006	0	5	169,068	0	0	0	0	222	601
4/3/2017	234	572,154	355,371	4,938,600	1,404,080	4,755	22,887	42,551	446	14,789	141,893
4/10/2017	234	575,914	355,371	4,938,600	1,432,879	4,755	22,887	42,551	446	14,978	141,893
4/17/2017	234	575,914	355,371	4,938,600	1,476,801	4,755	22,887	42,551	446	14,978	141,893
4/24/2017	234	577,702	355,371	4,938,600	1,522,209	4,755	22,887	42,551	446	14,978	141,893
5/1/2017	234	579,104	355,371	4,938,600	1,561,354	4,755	22,887	42,551	446	15,045	141,999
5/8/2017	234	579,104	355,371	4,938,600	1,597,783	4,755	22,887	42,551	447	15,045	141,999
5/15/2017	234	579,104	355,371	4,938,600	1,653,277	4,755	22,887	42,551	447	15,045	141,999
5/22/2017	234	579,106	359,314	4,938,600	1,708,138	4,755	23,017	42,692	447	15,045	142,160
5/29/2017	234	579,106	366,601	4,938,600	1,759,603	4,755	23,268	42,692	447	15,399	142,546
6/5/2017	234	590,361	399,486	4,938,600	1,818,845	4,755	23,696	42,692	447	15,691	143,071
6/12/2017	234	592,545	439,055	4,938,600	1,879,781	4,755	23,992	42,692	451	15,999	143,447
6/19/2017	234	599,812	447,227	4,938,600	1,946,867	4,755	23,992	42,692	451	15,999	143,696
6/26/2017	234	631,150	487,447	4,938,600	1,947,427	4,755	23,992	42,692	456	16,432	144,635
2Q Totals:	0	58,996	132,076	0	543,347	0	1,105	141	10	1,643	2,742
7/3/2017	234	672,880	538,227	4,938,600	1,947,427	4,755	23,992	42,692	457	16,931	149,585
7/10/2017	234	725,341	594,353	4,938,600	1,947,427	4,755	23,992	42,694	470	22,483	156,957
7/17/2017	234	772,322	645,869	4,938,600	1,951,157	4,755	23,992	42,694	488	28,028	159,478
7/24/2017	234	792,031	706,270	4,938,600	1,951,157	4,755	23,992	42,694	488	30,731	160,836
7/31/2017	234	804,460	719,827	4,938,600	1,951,157	4,755	23,992	42,694	488	30,731	160,836
8/7/2017	234	804,460	719,827	4,938,600	1,951,157	4,755	23,992	42,699	488	31,031	160,836
8/14/2017	234	804,460	719,827	4,938,600	1,951,157	4,755	23,992	42,706	488	32,233	161,568
8/21/2017	234	804,460	719,827	4,938,600	1,951,157	4,755	23,992	42,706	488	34,761	161,572
8/28/2017	234	804,460	719,827	4,938,600	1,951,157	4,755	23,992	42,706	488	34,797	161,782
9/4/2017	234	804,460	719,827	0	1,951,158	4,755	23,992	42,709	488	36,661	162,964
9/11/2017	234	804,460	719,827	88	1,951,158	4,755	23,992	42,709	488	37,257	163,546
9/18/2017	234	804,460	719,827	55,041	1,951,158	4,755	23,992	42,709	40,074	37,592	164,505
9/25/2017	234	804,460	719,827	136,567	1,951,158	4,755	23,992	42,709	40,074	37,592	164,755
3Q Totals:	0	131,580	181,600	136,567	3,731	0	0	17	0	20,661	15,170
10/2/2017	234	804,460	719,827	215,076	1,951,158	4,755	23,992	42,709	40,074	37,592	164,755
10/9/2017	234	804,460	719,828	288,667	1,951,158	4,755	23,992	42,709	40,074	37,592	164,968
10/16/2017	234	804,460	719,828	365,921	1,951,158	4,755	23,992	42,801	40,075	37,676	165,299
10/23/2017	234	804,460	719,828	443,607	1,951,158	4,755	23,992	43,001	40,075	37,784	165,794
10/30/2017	234	804,460	719,828	511,772	1,951,158	4,755	23,993	43,102	40,075	37,784	166,022
11/6/2017	234	804,460	719,828	570,173	1,951,158	4,755	23,993	43,120	40,075	37,784	166,165
11/13/2017	234	804,460	719,831	607,840	1,951,158	4,755	23,993	43,135	40,075	37,784	166,165
11/20/2017	234	804,460	719,831	636,215	1,951,158	4,755	23,993	43,146	40,075	37,787	166,165
11/27/2017	234	804,460	719,831	682,959	1,951,158	4,755	23,993	43,157	40,075	37,788	166,165
12/4/2017	234	804,460	719,831	709,604	1,951,158	4,755	23,993	43,180	40,075	37,788	166,165
12/11/2017	234	804,460	719,831	724,725	1,951,158	4,755	23,993	43,188	40,075	37,788	166,166
12/18/2017	234	804,460	719,831	742,392	1,951,158	4,755	23,993	43,198	40,075	37,789	166,166
12/25/2017	234	804,460	719,831	742,392	1,951,158	4,755	23,993	43,198	40,075	37,789	166,166
4Q Totals:	0	0	4	527,316	0	0	1	489	1	197	1,411

Appendix E2 - Recovery System Gauging Data
2017 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well			RW-1R						RW-2R						RW-4R						
Date	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev
12/6/16		8.83	Out	0.00	3,370.03		3,361.20		10.10	Out	0.00	3,371.17		3,361.07	13.64	13.85	Out	0.21	3,371.56	3,357.92	3,357.71
1/5/17		8.56	Out	0.00	3,370.03		3,361.47		10.03	Out	0.00	3,371.17		3,361.14	14.20	14.29	Out	0.09	3,371.56	3,357.36	3,357.27
1/10/17		8.56	Out	0.00	3,370.03		3,361.47		9.90	Out	0.00	3,371.17		3,361.27	14.26	14.45	Out	0.19	3,371.56	3,357.30	3,357.11
1/20/17		8.61	Out	0.00	3,370.03		3,361.42		9.80	Out	0.00	3,371.17		3,361.37	14.19	14.35	Out	0.16	3,371.56	3,357.37	3,357.21
1/27/17		9.02	Out	0.00	3,370.03		3,361.01		10.15	Out	0.00	3,371.17		3,361.02	14.52	14.60	Out	0.08	3,371.56	3,357.04	3,356.96
1/31/17		8.69	Out	0.00	3,370.03		3,361.34		9.83	Out	0.00	3,371.17		3,361.34	14.25	14.40	Out	0.15	3,371.56	3,357.31	3,357.16
2/9/17		9.10	Out	0.00	3,370.03		3,360.93		10.25	Out	0.00	3,371.17		3,360.92	14.42	14.62	Out	0.20	3,371.56	3,357.14	3,356.94
2/17/17		8.85	Out	0.00	3,370.03		3,361.18		10.05	Out	0.00	3,371.17		3,361.12	14.50	14.60	Out	0.10	3,371.56	3,357.06	3,356.96
3/22/17		9.40	Out	0.00	3,370.03		3,360.63		10.47	Out	0.00	3,371.17		3,360.70	14.83	15.10	Out	0.27	3,371.56	3,356.73	3,356.46
4/3/17		9.48	Out	0.00	3,370.03		3,360.55		10.60	Out	0.00	3,371.17		3,360.57	14.86	15.00	Out	0.14	3,371.56	3,356.70	3,356.56
4/13/17		9.00	Out	0.00	3,370.03		3,361.03		10.70	Out	0.00	3,371.17		3,360.47	15.00	15.15	Out	0.15	3,371.56	3,356.56	3,356.41
4/21/17		9.20	Out	0.00	3,370.03		3,360.83		10.32	Out	0.00	3,371.17		3,360.85	14.75	15.09	Out	0.34	3,371.56	3,356.81	3,356.47
4/28/17		9.24	Out	0.00	3,370.03		3,360.79		10.50	Out	0.00	3,371.17		3,360.67	14.60	15.20	Out	0.60	3,371.56	3,356.96	3,356.36
5/4/17		9.70	Out	0.00	3,370.03		3,360.33		10.80	Out	0.00	3,371.17		3,360.37	15.10	15.30	Out	0.20	3,371.56	3,356.46	3,356.26
5/9/17		9.64	Out	0.00	3,370.03		3,360.39		10.70	Out	0.00	3,371.17		3,360.47	15.00	15.20	Out	0.20	3,371.56	3,356.56	3,356.36
5/17/17		14.54	Out	0.00	3,370.03		3,355.49		10.70	Out	0.00	3,371.17		3,360.47	14.98	15.15	15.14	0.17	3,371.56	3,356.58	3,356.41
5/23/17		14.45	Out	0.00	3,370.03		3,355.58		11.15	Out	0.00	3,371.17		3,360.02	15.13	15.45	15.43	0.32	3,371.56	3,356.43	3,356.11
6/1/17		14.40	Out	0.00	3,370.03		3,355.63		11.33	Out	0.00	3,371.17		3,359.84	15.15	15.40	15.38	0.25	3,371.56	3,356.41	3,356.16
6/15/17		14.45	Out	0.00	3,370.03		3,355.58		12.35	Out	0.00	3,371.17		3,358.82	15.19	15.39	15.23	0.20	3,371.56	3,356.37	3,356.17
6/22/17		14.50	Out	0.00	3,370.03		3,355.53		14.15	Out	0.00	3,371.17		3,357.02	15.17	15.35	15.34	0.18	3,371.56	3,356.39	3,356.21
6/29/17		14.47	Out	0.00	3,370.03		3,355.56		14.10	Out	0.00	3,371.17		3,357.07	15.03	15.39	15.37	0.36	3,371.56	3,356.53	3,356.17
7/6/17		14.55	Out	0.00	3,370.03		3,355.48		14.35	Out	0.00	3,371.17		3,356.82	14.91	15.10	15.08	0.19	3,371.56	3,356.65	3,356.46
7/13/17		14.54	Out	0.00	3,370.03		3,355.49		14.20	11.8	0.00	3,371.17		3,356.97	14.60	14.95	14.95	0.35	3,371.56	3,356.96	3,356.61
7/19/17		14.45	Out	0.00	3,370.03		3,355.58		14.20	Out	0.00	3,371.17		3,356.97	14.85	14.98	14.98	0.13	3,371.56	3,356.71	3,356.58
8/2/17		10.55	Out	0.00	3,370.03		3,359.48		11.78	Out	0.00	3,371.17		3,359.39	14.73	15.00	14.98	0.27	3,371.56	3,356.83	3,356.56
8/9/17		10.50	Out	0.00	3,370.03		3,359.53		11.74	Out	0.00	3,371.17		3,359.43	14.50	14.90	14.90	0.40	3,371.56	3,357.06	3,356.66
8/15/17		10.22	Out	0.00	3,370.03		3,359.81		11.48	Out	0.00	3,371.17		3,359.69	14.70	14.85	14.85	0.15	3,371.56	3,356.86	3,356.71
8/24/17		10.40	Out	0.00	3,370.03		3,359.63	11.65	11.65	Out	0.00	3,371.17	3,359.52	3,359.52	14.80	14.93	14.93	0.13	3,371.56	3,356.76	3,356.63
8/31/17		10.15	Out	0.00	3,370.03		3,359.88	11.43	11.43	Out	0.00	3,371.17		3,359.74	14.73	14.85	14.85	0.12	3,371.56	3,356.83	3,356.71
9/6/17		10.35	Out	0.00	3,370.03		3,359.68	11.59	11.82	Out	0.23	3,371.17	3,359.58	3,359.35	14.80	14.90	14.90	0.10	3,371.56	3,356.76	3,356.66
9/14/17		10.40	Out	0.00	3,370.03		3,359.63	11.60	11.68	Out	0.08	3,371.17	3,359.57	3,359.49	14.70	14.85	14.84	0.15	3,371.56	3,356.86	3,356.71
9/21/17		10.55	Out	0.00	3,370.03		3,359.48	10.73	10.85	Out	0.12	3,371.17	3,360.44	3,360.32	14.91	15.05	15.05	0.14	3,371.56	3,356.65	3,356.51
10/3/17		10.20	Out	0.00	3,370.03		3,359.83		11.50	Out	0.00	3,371.17		3,359.67	14.89	14.95	14.95	0.06	3,371.56	3,356.67	3,356.61
10/12/17		10.25	Out	0.00	3,370.03		3,359.78	11.53	11.56	Out	0.03	3,371.17	3,359.64	3,359.61	14.70	14.87	14.87	0.17	3,371.56	3,356.86	3,356.69
10/19/17		10.44	Out	0.00	3,370.03		3,359.59	11.70	11.73	Out	0.03	3,371.17	3,359.47	3,359.44	14.90	15.09	15.09	0.19	3,371.56	3,356.66	3,356.47
10/26/17		10.40	Out	0.00	3,370.03		3,359.63	11.70	11.71	Out	0.01	3,371.17	3,359.47	3,359.46	14.91	15.10	15.10	0.19	3,371.56	3,356.65	3,356.46
11/2/17		10.62	Out	0.00	3,370.03		3,359.41	11.85	11.87	Out	0.02	3,371.17	3,359.32	3,359.30	15.15	15.55	15.52	0.40	3,371.56	3,356.41	3,356.01
11/10/17		10.63	Out	0.00	3,370.03		3,359.40	11.95	11.95	Out	0.00	3,371.17	3,359.22	3,359.22	15.15	15.40	15.40	0.25	3,371.56	3,356.41	3,356.16
11/16/17		10.65	Out	0.00	3,370.03		3,359.38	11.92	11.95	Out	0.03	3,371.17	3,359.25	3,359.22	15.26	15.45	15.44	0.19	3,371.56	3,356.30	3,356.11
11/21/17		10.85	Out	0.00	3,370.03		3,359.18	12.00	12.01	Out	0.01	3,371.17	3,359.17	3,359.16	15.40	15.55	15.55	0.15	3,371.56	3,356.16	3,356.01
12/1/17		10.80	Out	0.00	3,370.03		3,359.23		12.05	Out	0.00	3,371.17		3,359.12	15.39	15.45	15.45	0.06	3,371.56	3,356.17	3,356.11
12/8/17		10.80	Out	0.00	3,370.03		3,359.23		12.08	Out	0.00	3,371.17		3,359.09	15.45	15.68	15.68	0.23	3,371.56	3,356.11	3,355.88
12/13/17		10.73	Out	0.00	3,370.03		3,359.30		12.00	Out	0.00	3,371.17		3,359.17	15.49	15.74	15.74	0.25	3,371.56	3,356.07	3,355.82
12/20/17		10.76	Out	0.00	3,370.03		3,359.27		12.05	Out	0.00	3,371.17		3,359.12	15.65	15.89	15.89	0.24	3,371.56	3,355.91	3,355.67

Appendix E2 - Recovery System Gauging Data
2017 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well			RW-5R						RW-6R						RW-7R						
Date	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev
12/6/16		12.35	Out	0.00	3,371.36		3,359.01		9.50	Out	0.00	3,370.09		3,360.59	17.09	17.40	Out	0.31	3,371.10	3,354.01	3,353.70
1/5/17		12.90	Out	0.00	3,371.36		3,358.46		9.82	Out	0.00	3,370.09		3,360.27		9.81	Out	0.00	3,371.10		3,361.29
1/10/17		13.97	Out	0.00	3,371.36		3,357.39	9.85	9.87	Out	0.02	3,370.09	3,360.24	3,360.22	9.68	9.70	Out	0.02	3,371.10	3,361.42	3,361.40
1/20/17		12.99	Out	0.00	3,371.36		3,358.37		9.51	Out	0.00	3,370.09		3,360.58	17.56	17.75	Out	0.19	3,371.10	3,353.54	3,353.35
1/27/17		12.95	Out	0.00	3,371.36		3,358.41	9.84	9.87	Out	0.03	3,370.09	3,360.25	3,360.22	9.62	9.62	Out	0.00	3,371.10		3,361.48
1/31/17		13.00	Out	0.00	3,371.36		3,358.36		9.56	Out	0.00	3,370.09		3,360.53	13.55	13.60	Out	0.05	3,371.10	3,357.55	3,357.50
2/9/17	13.31	13.34	Out	0.03	3,371.36	3,358.05	3,358.02	9.98	10.00	Out	0.02	3,370.09	3,360.11	3,360.09	18.10	18.20	Out	0.10	3,371.10	3,353.00	3,352.90
2/17/17		13.19	Out	0.00	3,371.36		3,358.17		9.69	Out	0.00	3,370.09		3,360.40	17.43	17.45	Out	0.02	3,371.10	3,353.67	3,353.65
3/22/17	13.55	13.60	Out	0.05	3,371.36	3,357.81	3,357.76		15.88	Out	0.00	3,370.09		3,354.21		13.35	Out	0.00	3,371.10		3,357.75
4/3/17	13.65	13.74	Out	0.09	3,371.36	3,357.71	3,357.62		15.94	Out	0.00	3,370.09		3,354.15		10.35	Out	0.00	3,371.10		3,360.75
4/13/17			Out	0.00	3,371.36		3,371.36		15.40	Out	0.00	3,370.09		3,354.69		10.60	Out	0.00	3,371.10		3,360.50
4/21/17	14.71	14.94	Out	0.23	3,371.36	3,356.65	3,356.42		15.67	Out	0.00	3,370.09		3,354.42		10.09	Out	0.00	3,371.10		3,361.01
4/28/17	13.85	13.95	Out	0.10	3,371.36	3,357.51	3,357.41		18.00	Out	0.00	3,370.09		3,352.09		10.09	Out	0.00	3,371.10		3,361.01
5/4/17	14.00	14.12	Out	0.12	3,371.36	3,357.36	3,357.24		16.30	Out	0.00	3,370.09		3,353.79		10.53	Out	0.00	3,371.10		3,360.57
5/9/17	13.80	13.85	Out	0.05	3,371.36	3,357.56	3,357.51		16.40	Out	0.00	3,370.09		3,353.69		10.70	Out	0.00	3,371.10		3,360.40
5/17/17		13.79	Out	0.00	3,371.36		3,357.57		16.07	Out	0.00	3,370.09		3,354.02		19.65	Out	0.00	3,371.10		3,351.45
5/23/17	14.02	14.09	14.08	0.07	3,371.36	3,357.34	3,357.27		16.75	Out	0.00	3,370.09		3,353.34		10.84	Out	0.00	3,371.10		3,360.26
6/1/17		13.98	Out	0.00	3,371.36		3,357.38	16.95	16.98	Out	0.03	3,370.09	3,353.14	3,353.11		10.92	Out	0.00	3,371.10		3,360.18
6/15/17	14.05	14.15	14.07	0.10	3,371.36	3,357.31	3,357.21	17.15	17.19	Out	0.04	3,370.09	3,352.94	3,352.90		11.80	Out	0.00	3,371.10		3,359.30
6/22/17	13.87	13.89	Out	0.02	3,371.36	3,357.49	3,357.47	16.92	17.05	17.04	0.13	3,370.09	3,353.17	3,353.04		19.85	Out	0.00	3,371.10		3,351.25
6/29/17	13.85	13.99	Out	0.14	3,371.36	3,357.51	3,357.37	17.00	17.02	Out	0.02	3,370.09	3,353.09	3,353.07		15.50	Out	0.00	3,371.10		3,355.60
7/6/17	13.85	13.89	Out	0.04	3,371.36	3,357.51	3,357.47	16.20	16.30	Out	0.10	3,370.09	3,353.89	3,353.79		15.48	Out	0.00	3,371.10		3,355.62
7/13/17		13.80	Out	0.00	3,371.36		3,357.56	16.45	16.53	Out	0.08	3,370.09	3,353.64	3,353.56		15.35	Out	0.00	3,371.10		3,355.75
7/19/17	13.70	13.70	Out	0.00	3,371.36	3,357.66	3,357.66	16.45	16.55	Out	0.10	3,370.09	3,353.64	3,353.54		15.50	Out	0.00	3,371.10		3,355.60
8/2/17	13.57	13.62	Out	0.05	3,371.36	3,357.79	3,357.74		11.00	Out	0.00	3,370.09		3,359.09	11.18	11.20	Out	0.02	3,371.10	3,359.92	3,359.90
8/9/17	13.50	13.61	Out	0.11	3,371.36	3,357.86	3,357.75		11.05	Out	0.00	3,370.09		3,359.04	11.05	11.10	Out	0.05	3,371.10	3,360.05	3,360.00
8/15/17	13.50	13.60	Out	0.10	3,371.36	3,357.86	3,357.76		10.80	Out	0.00	3,370.09		3,359.29	10.82	10.84	Out	0.02	3,371.10	3,360.28	3,360.26
8/24/17	13.60	13.69	Out	0.09	3,371.36	3,357.76	3,357.67		10.75	Out	0.00	3,370.09		3,359.34	10.98	11.00	Out	0.02	3,371.10	3,360.12	3,360.10
8/31/17	13.50	13.58	Out	0.08	3,371.36	3,357.86	3,357.78		10.15	Out	0.00	3,370.09		3,359.94	10.78	10.80	Out	0.02	3,371.10	3,360.32	3,360.30
9/6/17	13.58	13.70	13.69	0.12	3,371.36	3,357.78	3,357.66		10.90	Out	0.00	3,370.09		3,359.19	10.98	11.01	Out	0.03	3,371.10	3,360.12	3,360.09
9/14/17	13.65	13.91	13.89	0.26	3,371.36	3,357.71	3,357.45		11.00	Out	0.00	3,370.09		3,359.09	10.95	10.97	Out	0.02	3,371.10	3,360.15	3,360.13
9/21/17	13.64	13.69	Out	0.05	3,371.36	3,357.72	3,357.67		11.20	Out	0.00	3,370.09		3,358.89	11.19	11.21	Out	0.02	3,371.10	3,359.91	3,359.89
10/3/17	13.70	13.78	Out	0.08	3,371.36	3,357.66	3,357.58		10.18	Out	0.00	3,370.09		3,359.91	10.80	10.81	Out	0.01	3,371.10	3,360.30	3,360.29
10/12/17	13.55	13.63	Out	0.08	3,371.36	3,357.81	3,357.73		10.40	Out	0.00	3,370.09		3,359.69		12.70	Out	0.00	3,371.10		3,358.40
10/19/17	13.75	13.80	Out	0.05	3,371.36	3,357.61	3,357.56		10.70	Out	0.00	3,370.09		3,359.39		12.75	Out	0.00	3,371.10		3,358.35
10/26/17	13.62	13.70	Out	0.08	3,371.36	3,357.74	3,357.66		10.70	Out	0.00	3,370.09		3,359.39		12.65	Out	0.00	3,371.10		3,358.45
11/2/17	13.85	13.90	Out	0.05	3,371.36	3,357.51	3,357.46		11.05	Out	0.00	3,370.09		3,359.04		12.70	Out	0.00	3,371.10		3,358.40
11/10/17	13.88	14.00	Out	0.12	3,371.36	3,357.48	3,357.36		11.00	Out	0.00	3,370.09		3,359.09		12.78	Out	0.00	3,371.10		3,358.32
11/16/17	13.88	13.99	Out	0.11	3,371.36	3,357.48	3,357.37		11.15	Out	0.00	3,370.09		3,358.94	11.30	11.37	Out	0.07	3,371.10	3,359.80	3,359.73
11/21/17	14.00	14.25	14.23	0.25	3,371.36	3,357.36	3,357.11		11.30	Out	0.00	3,370.09		3,358.79		12.71	Out	0.00	3,371.10		3,358.39
12/1/17	14.05	14.10	Out	0.05	3,371.36	3,357.31	3,357.26		11.38	Out	0.00	3,370.09		3,358.71	12.68	12.85	Out	0.17	3,371.10	3,358.42	3,358.25
12/8/17	15.10	15.25	Out	0.15	3,371.36	3,356.26	3,356.11		11.45	Out	0.00	3,370.09		3,358.64	12.75	13.00	Out	0.25	3,371.10	3,358.35	3,358.10
12/13/17	14.00	14.05	Out	0.05	3,371.36	3,357.36	3,357.31		11.43	Out	0.00	3,370.09		3,358.66	12.78	13.40	13.36	0.62	3,371.10	3,358.32	3,357.70
12/20/17	14.18	14.31	Out	0.13	3,371.36	3,357.18	3,357.05		11.54	Out	0.00	3,370.09		3,358.55	12.65	13.15	Out	0.50	3,371.10	3,358.45	3,357.95

Appendix E2 - Recovery System Gauging Data
2017 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well	RW-8R						RW-12R						RW-13R									
	Date	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev
	12/6/16	11.52	11.53	9.50	0.01	3,368.10	3,356.58	3,356.57		21.05	Out	0.00	3,354.54		3,333.49	19.40	19.61	Out	0.21	3,354.54	3,335.14	3,334.93
	1/5/17	11.52	11.53	9.50	0.01	3,368.10	3,356.58	3,356.57	22.47	22.49	Out	0.02	3,354.54	3,332.07	3,332.05	20.37	20.50	Out	0.13	3,354.54	3,334.17	3,334.04
	1/10/17	22.50	23.00	22.60	0.50	3,368.10	3,345.60	3,345.10	22.64	22.65	Out	0.01	3,354.54	3,331.90	3,331.89	20.48	20.51	Out	0.03	3,354.54	3,334.06	3,334.03
	1/20/17		16.35	Out	0.00	3,368.10		3,351.75	22.85	22.87	Out	0.02	3,354.54	3,331.69	3,331.67	19.62	19.70	Out	0.08	3,354.54	3,334.92	3,334.84
	1/27/17		8.84	Out	0.00	3,368.10		3,359.26	23.14	23.15	Out	0.01	3,354.54	3,331.40	3,331.39	19.86	19.90	Out	0.04	3,354.54	3,334.68	3,334.64
	1/31/17		21.92	Out	0.00	3,368.10		3,346.18	23.23	23.24	Out	0.01	3,354.54	3,331.31	3,331.30	20.87	20.90	Out	0.03	3,354.54	3,333.67	3,333.64
	2/9/17	13.70	13.80	Out	0.10	3,368.10	3,354.40	3,354.30	23.39	23.40	Out	0.01	3,354.54	3,331.15	3,331.14		21.09	Out	0.00	3,354.54		3,333.45
	2/17/17		9.60	Out	0.00	3,368.10		3,358.50		23.62	Out	0.00	3,354.54		3,330.92		21.22	Out	0.00	3,354.54		3,333.32
	3/22/17	9.54	9.54	Out	0.00	3,368.10	3,358.56	3,358.56	24.00	24.01	Out	0.01	3,354.54	3,330.54	3,330.53	23.00	23.15	Out	0.15	3,354.54	3,331.54	3,331.39
	4/3/17		21.80	Out	0.00	3,368.10		3,346.30	0.00	23.75	Out	0.00	3,354.54		3,330.79	21.50	21.65	Out	0.15	3,354.54	3,333.04	3,332.89
	4/13/17		20.25	Out	0.00	3,368.10		3,347.85	23.45	23.50	Out	0.05	3,354.54	3,331.09	3,331.04	21.35	21.50	Out	0.15	3,354.54	3,333.19	3,333.04
	4/21/17		19.25	Out	0.00	3,368.10		3,348.85			Out	0.00	3,354.54		3,354.54	19.42	19.56	Out	0.14	3,354.54	3,335.12	3,334.98
	4/28/17		18.78	Out	0.00	3,368.10		3,349.32	23.34	23.34	Out	0.00	3,354.54	3,331.20	3,331.20	19.79	19.93	Out	0.14	3,354.54	3,334.75	3,334.61
	5/4/17	18.45	18.72	Out	0.27	3,368.10	3,349.65	3,349.38		21.96	Out	0.00	3,354.54		3,332.58	20.09	20.25	Out	0.16	3,354.54	3,334.45	3,334.29
	5/9/17	17.46	17.81	Out	0.35	3,368.10	3,350.64	3,350.29		21.79	Out	0.00	3,354.54		3,332.75	19.93	20.10	Out	0.17	3,354.54	3,334.61	3,334.44
	5/17/17	17.00	17.40	Out	0.40	3,368.10	3,351.10	3,350.70		19.65	Out	0.00	3,354.54		3,334.89	18.17	18.55	Out	0.38	3,354.54	3,336.37	3,335.99
	5/23/17	16.14	16.40	Out	0.26	3,368.10	3,351.96	3,351.70		20.40	Out	0.00	3,354.54		3,334.14	18.95	19.14	Out	0.19	3,354.54	3,335.59	3,335.40
	6/1/17		15.54	Out	0.00	3,368.10		3,352.56		20.00	Out	0.00	3,354.54		3,334.54	18.53	18.65	Out	0.12	3,354.54	3,336.01	3,335.89
	6/15/17	16.32	16.59	Out	0.27	3,368.10	3,351.78	3,351.51		18.00	Out	0.00	3,354.54		3,336.54	16.52	16.75	Out	0.23	3,354.54	3,338.02	3,337.79
	6/22/17	10.55	11.11	Out	0.56	3,368.10	3,357.55	3,356.99		18.34	Out	0.00	3,354.54		3,336.20	17.35	17.55	Out	0.20	3,354.54	3,337.19	3,336.99
	6/29/17	10.55	11.14	Out	0.59	3,368.10	3,357.55	3,356.96		18.18	Out	0.00	3,354.54		3,336.36	17.40	17.59	Out	0.19	3,354.54	3,337.14	3,336.95
	7/6/17	10.80	11.15	Out	0.35	3,368.10	3,357.30	3,356.95		17.55	Out	0.00	3,354.54		3,336.99	17.13	17.32	Out	0.19	3,354.54	3,337.41	3,337.22
	7/13/17	18.92	19.19	Out	0.27	3,368.10	3,349.18	3,348.91		18.37	Out	0.00	3,354.54		3,336.17	17.65	18.10	Out	0.45	3,354.54	3,336.89	3,336.44
	7/19/17		21.75	Out	0.00	3,368.10		3,346.35		18.86	Out	0.00	3,354.54		3,335.68	18.10	18.29	Out	0.19	3,354.54	3,336.44	3,336.25
	8/2/17	21.15	21.50	21.22	0.35	3,368.10	3,346.95	3,346.60		20.20	Out	0.00	3,354.54		3,334.34	18.09	18.24	Out	0.15	3,354.54	3,336.45	3,336.30
	8/9/17		11.32	Out	0.00	3,368.10		3,356.78		18.50	Out	0.00	3,354.54		3,336.04	17.15	17.38	Out	0.23	3,354.54	3,337.39	3,337.16
	8/15/17		11.29	Out	0.00	3,368.10		3,356.81		18.23	Out	0.00	3,354.54		3,336.31	17.49	17.69	Out	0.20	3,354.54	3,337.05	3,336.85
	8/24/17		11.41	Out	0.00	3,368.10		3,356.69		17.40	Out	0.00	3,354.54		3,337.14	16.18	16.38	Out	0.20	3,354.54	3,338.36	3,338.16
	8/31/17	20.67	20.71	Out	0.04	3,368.10	3,347.43	3,347.39		17.78	Out	0.00	3,354.54		3,336.76	16.52	16.74	Out	0.22	3,354.54	3,338.02	3,337.80
	9/6/17	20.70	20.80	Out	0.10	3,368.10	3,347.40	3,347.30		15.72	Out	0.00	3,354.54		3,338.82	14.54	14.75	Out	0.21	3,354.54	3,340.00	3,339.79
	9/14/17	19.00	20.65	Out	1.65	3,368.10	3,349.10	3,347.45		16.99	Out	0.00	3,354.54		3,337.55	15.83	16.05	Out	0.22	3,354.54	3,338.71	3,338.49
	9/21/17	11.25	11.26	Out	0.01	3,368.10	3,356.85	3,356.84		16.85	Out	0.00	3,354.54		3,337.69	15.63	15.85	Out	0.22	3,354.54	3,338.91	3,338.69
	10/3/17		10.60	Out	0.00	3,368.10		3,357.50		18.18	Out	0.00	3,354.54		3,336.36	17.09	17.25	Out	0.16	3,354.54	3,337.45	3,337.29
	10/12/17		8.97	Out	0.00	3,368.10		3,359.13		17.50	Out	0.00	3,354.54		3,337.04	16.39	16.49	Out	0.10	3,354.54	3,338.15	3,338.05
	10/19/17	19.56	19.60	Out	0.04	3,368.10	3,348.54	3,348.50		18.00	Out	0.00	3,354.54		3,336.54	16.80	16.99	Out	0.19	3,354.54	3,337.74	3,337.55
	10/26/17		18.88	Out	0.00	3,368.10		3,349.22		18.95	Out	0.00	3,354.54		3,335.59	17.75	17.90	Out	0.15	3,354.54	3,336.79	3,336.64
	11/2/17	19.10	19.18	Out	0.08	3,368.10	3,349.00	3,348.92		19.68	Out	0.00	3,354.54		3,334.86	18.50	18.68	Out	0.18	3,354.54	3,336.04	3,335.86
	11/10/17	18.80	18.95	Out	0.15	3,368.10	3,349.30	3,349.15		20.80	Out	0.00	3,354.54		3,333.74	19.22	19.55	Out	0.33	3,354.54	3,335.32	3,334.99
	11/16/17	18.36	18.44	Out	0.08	3,368.10	3,349.74	3,349.66		21.43	Out	0.00	3,354.54		3,333.11	19.94	19.99	Out	0.05	3,354.54	3,334.60	3,334.55
	11/21/17	18.22	18.55	Out	0.33	3,368.10	3,349.88	3,349.55		21.42	Out	0.00	3,354.54		3,333.12	20.15	20.24	Out	0.09	3,354.54	3,334.39	3,334.30
	12/1/17	18.63	18.95	Out	0.32	3,368.10	3,349.47	3,349.15		22.59	Out	0.00	3,354.54		3,331.95	20.69	20.71	Out	0.02	3,354.54	3,333.85	3,333.83
	12/8/17	18.20	18.70	Out	0.50	3,369.10	3,350.90	3,350.40		22.95	Out	0.00	3,354.54		3,331.59	20.89	21.00	Out	0.11	3,354.54	3,333.65	3,333.54
	12/13/17	17.82	18.15	Out	0.33	3,370.10	3,352.28	3,351.95		23.15	Out	0.00	3,354.54		3,331.39	21.10	21.18	Out	0.08	3,354.54	3,333.44	3,333.36
	12/20/17	17.55	18.03	Out	0.48	3,371.10	3,353.55	3,353.07		23.65	Out	0.00	3,354.54		3,330.89	21.35	21.45	Out	0.10	3,354.54	3,333.19	3,333.09

Appendix E2 - Recovery System Gauging Data
2017 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well			RW-14R						RW-15						RW-19						
Date	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev
12/6/16	19.15	19.25	Out	0.10	3,352.37	3,333.22	3,333.12	13.45	13.50	Out	0.05	3,368.30	3,354.85	3,354.80	21.81	22.06	Out	0.25	3,372.11	3,350.30	3,350.05
1/5/17	19.79	19.86	Out	0.07	3,352.37	3,332.58	3,332.51	13.80	13.82	Out	0.02	3,368.30	3,354.50	3,354.48	22.29	22.40	Out	0.11	3,372.11	3,349.82	3,349.71
1/10/17	17.80	17.88	Out	0.08	3,352.37	3,334.57	3,334.49		13.88	Out	0.00	3,368.30		3,354.42	22.18	22.42	Out	0.24	3,372.11	3,349.93	3,349.69
1/20/17	17.85	18.04	Out	0.19	3,352.37	3,334.52	3,334.33		13.85	Out	0.00	3,368.30		3,354.45	22.48	22.67	Out	0.19	3,372.11	3,349.63	3,349.44
1/27/17	18.10	18.18	Out	0.08	3,352.37	3,334.27	3,334.19	13.28	13.29	Out	0.01	3,368.30	3,355.02	3,355.01	22.65	22.95	Out	0.30	3,372.11	3,349.46	3,349.16
1/31/17	19.14	19.25	Out	0.11	3,352.37	3,333.23	3,333.12	14.16	14.17	Out	0.01	3,368.30	3,354.14	3,354.13	22.53	22.80	Out	0.27	3,372.11	3,349.58	3,349.31
2/9/17	18.09	18.17	Out	0.08	3,352.37	3,334.28	3,334.20		14.28	Out	0.00	3,368.30		3,354.02	22.78	22.96	Out	0.18	3,372.11	3,349.33	3,349.15
2/17/17	18.17	18.23	Out	0.06	3,352.37	3,334.20	3,334.14		14.25	Out	0.00	3,368.30		3,354.05	22.81	22.99	Out	0.18	3,372.11	3,349.30	3,349.12
3/22/17	18.70	18.85	Out	0.15	3,352.37	3,333.67	3,333.52		14.80	Out	0.00	3,368.30		3,353.50	23.29	23.58	Out	0.29	3,372.11	3,348.82	3,348.53
4/3/17	18.74	19.02	Out	0.28	3,352.37	3,333.63	3,333.35		14.85	Out	0.00	3,368.30		3,353.45	23.34	23.65	Out	0.31	3,372.11	3,348.77	3,348.46
4/13/17	18.38	18.80	Out	0.42	3,352.37	3,333.99	3,333.57		14.40	Out	0.00	3,368.30		3,353.90	23.20	23.52	Out	0.32	3,372.11	3,348.91	3,348.59
4/21/17	17.15	18.25	Out	1.10	3,352.37	3,335.22	3,334.12		14.39	Out	0.00	3,368.30		3,353.91	23.23	23.52	Out	0.29	3,372.11	3,348.88	3,348.59
4/28/17	17.14	18.23	Out	1.09	3,352.37	3,335.23	3,334.14		14.82	Out	0.00	3,368.30		3,353.48	23.52	23.84	Out	0.32	3,372.11	3,348.59	3,348.27
5/4/17	17.45	18.55	Out	1.10	3,352.37	3,334.92	3,333.82		14.80	Out	0.00	3,368.30		3,353.50	23.39	23.75	Out	0.36	3,372.11	3,348.72	3,348.36
5/9/17	17.00	18.15	Out	1.15	3,352.37	3,335.37	3,334.22		15.00	Out	0.00	3,368.30		3,353.41	23.35	23.62	Out	0.27	3,372.11	3,348.76	3,348.49
5/17/17	16.35	17.38	17.3	1.03	3,352.37	3,336.02	3,334.99		14.89	Out	0.00	3,368.30		3,353.41	27.95	28.12	28.11	0.17	3,372.11	3,344.16	3,343.99
5/23/17	16.55	17.98	17.87	1.43	3,352.37	3,335.82	3,334.39		15.00	Out	0.00	3,368.30		3,353.30	23.31	23.63	23.61	0.32	3,372.11	3,348.80	3,348.48
6/1/17	18.34	19.25	19.18	0.91	3,352.37	3,334.03	3,333.12		14.95	Out	0.00	3,368.30		3,353.35	29.61	29.81	29.87	0.20	3,372.11	3,342.50	3,342.30
6/15/17	15.62	16.79	Out	1.17	3,352.37	3,336.75	3,335.58		15.00	Out	0.00	3,368.30		3,353.30	23.27	23.42	16.7	0.15	3,372.11	3,348.84	3,348.69
6/22/17	17.19	18.35	18.26	1.16	3,352.37	3,335.18	3,334.02		15.01	Out	0.00	3,368.30		3,353.29	28.62	28.72	28.71	0.10	3,372.11	3,343.49	3,343.39
6/29/17	17.35	18.50	18.41	1.15	3,352.37	3,335.02	3,333.87		14.89	Out	0.00	3,368.30		3,353.41	28.49	28.28	28.78	-0.21	3,372.11	3,343.62	3,343.83
7/6/17	17.75	19.00	18.99	1.25	3,352.37	3,334.62	3,333.37		14.79	Out	0.00	3,368.30		3,353.51	28.59	28.82	28.81	0.23	3,372.11	3,343.52	3,343.29
7/13/17	18.30	19.55	19.54	1.25	3,352.37	3,334.07	3,332.82		14.81	Out	0.00	3,368.30		3,353.49	28.62	28.80	28.79	0.18	3,372.11	3,343.49	3,343.31
7/19/17	19.03	20.15	20.07	1.12	3,352.37	3,333.34	3,332.22		14.80	Out	0.00	3,368.30		3,353.50	28.60	29.12	29.08	0.52	3,372.11	3,343.51	3,342.99
8/2/17	17.33	18.45	18.37	1.12	3,352.37	3,335.04	3,333.92		14.40	Out	0.00	3,368.30		3,353.90	22.60	22.61	Out	0.01	3,372.11	3,349.51	3,349.50
8/9/17	16.65	17.99	17.89	1.34	3,352.37	3,335.72	3,334.38		14.28	Out	0.00	3,368.30		3,354.02	22.50	22.50	22.49	0.00	3,372.11	3,349.61	3,349.61
8/15/17	17.10	18.15	Out	1.05	3,352.37	3,335.27	3,334.22		14.43	Out	0.00	3,368.30		3,353.87	22.33	22.40	Out	0.07	3,372.11	3,349.78	3,349.71
8/24/17	16.25	17.40	17.31	1.15	3,352.37	3,336.12	3,334.97		14.10	Out	0.00	3,368.30		3,354.20	22.04	22.30	Out	0.26	3,372.11	3,350.07	3,349.81
8/31/17	16.50	17.52	17.44	1.02	3,352.37	3,335.87	3,334.85		14.15	Out	0.00	3,368.30		3,354.15	22.09	22.26	22.25	0.17	3,372.11	3,350.02	3,349.85
9/6/17	15.40	16.50	16.41	1.10	3,352.37	3,336.97	3,335.87		14.20	Out	0.00	3,368.30		3,354.10	22.23	22.28	Out	0.05	3,372.11	3,349.88	3,349.83
9/14/17	15.80	16.90	16.82	1.10	3,352.37	3,336.57	3,335.47		14.00	Out	0.00	3,368.30		3,354.30	22.00	22.10	Out	0.10	3,372.11	3,350.11	3,350.01
9/21/17	15.65	16.80	16.71	1.15	3,352.37	3,336.72	3,335.57		14.10	Out	0.00	3,368.30		3,354.20	22.00	23.25	23.15	1.25	3,372.11	3,350.11	3,348.86
10/3/17	16.60	17.70	Out	1.10	3,352.37	3,335.77	3,334.67		14.09	Out	0.00	3,368.30		3,354.21	22.15	22.25	Out	0.10	3,372.11	3,349.96	3,349.86
10/12/17	16.23	17.28	17.2	1.05	3,352.37	3,336.14	3,335.09		14.10	Out	0.00	3,368.30		3,354.20	22.18	22.25	Out	0.07	3,372.11	3,349.93	3,349.86
10/19/17	16.39	17.49	17.41	1.10	3,352.37	3,335.98	3,334.88		14.19	Out	0.00	3,368.30		3,354.11	22.13	22.33	Out	0.20	3,372.11	3,349.98	3,349.78
10/26/17	16.84	17.94	17.86	1.10	3,352.37	3,335.53	3,334.43		14.23	Out	0.00	3,368.30		3,354.07	22.11	22.24	Out	0.13	3,372.11	3,350.00	3,349.87
11/2/17	17.23	18.67	18.56	1.44	3,352.37	3,335.14	3,333.70		14.30	Out	0.00	3,368.30		3,354.00	22.25	22.40	Out	0.15	3,372.11	3,349.86	3,349.71
11/10/17	17.53	18.99	18.88	1.46	3,352.37	3,334.84	3,333.38		14.25	Out	0.00	3,368.30		3,354.05	22.41	22.57	Out	0.16	3,372.11	3,349.70	3,349.54
11/16/17	18.18	19.22	19.14	1.04	3,352.37	3,334.19	3,333.15		14.60	Out	0.00	3,368.30		3,353.70	22.52	22.70	22.69	0.18	3,372.11	3,349.59	3,349.41
11/21/17	18.34	19.42	19.34	1.08	3,352.37	3,334.03	3,332.95		14.63	Out	0.00	3,368.30		3,353.67	22.70	22.85	22.84	0.15	3,372.11	3,349.41	3,349.26
12/1/17	18.63	19.69	19.61	1.06	3,352.37	3,333.74	3,332.68		14.55	Out	0.00	3,368.30		3,353.75	22.87	23.05	23.04	0.18	3,372.11	3,349.24	3,349.06
12/8/17	18.80	19.95	Out	1.15	3,352.37	3,333.57	3,332.42		14.95	Out	0.00	3,368.30		3,353.35	22.90	23.10	Out	0.20	3,372.11	3,349.21	3,349.01
12/13/17	18.89	19.90	19.82	1.01	3,352.37	3,333.48	3,332.47		14.89	Out	0.00	3,368.30		3,353.41	22.93	23.12	Out	0.19	3,372.11	3,349.18	3,348.99
12/20/17	19.10	19.97	Out	0.87	3,352.37	3,333.27	3,332.40		15.09	Out	0.00	3,368.30		3,353.21	23.23	23.55	Out	0.32	3,372.11	3,348.88	3,348.56

Appendix E2 - Recovery System Gauging Data
2017 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, NM

Well		RW-20						RW-22						
Date	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev	Depth to PSH	Depth to Water	Product Pump	PSH Thickness	TOC Elev	PSH Elev	Water Elev
12/6/16	20.0	20.1	Out	0.05	3,351.44	3,331.44	3,331.39		19.26	N/A	0.00	3,352.21		3,332.95
1/5/17	20.5	20.6	Out	0.02	3,351.44	3,330.91	3,330.89		20.58	N/A	0.00	3,352.21		3,331.63
1/10/17		20.4	Out	0.00	3,351.44		3,331.04		20.74	N/A	0.00	3,352.21		3,331.47
1/20/17		20.2	Out	0.00	3,351.44		3,331.26		21.05	N/A	0.00	3,352.21		3,331.16
1/27/17	20.1	20.1	Out	0.01	3,351.44	3,331.36	3,331.35		21.31	N/A	0.00	3,352.21		3,330.90
1/31/17	20.3	20.4	Out	0.03	3,351.44	3,331.12	3,331.09		21.40	N/A	0.00	3,352.21		3,330.81
2/9/17		20.4	Out	0.00	3,351.44		3,331.09		21.62	N/A	0.00	3,352.21		3,330.59
2/17/17		19.3	Out	0.00	3,351.44		3,332.10	26.05	26.05	N/A	0.00	3,352.21	3,326.16	3,326.16
3/22/17	20.1	20.2	Out	0.05	3,351.44	3,331.34	3,331.29	26.80	26.80	N/A	0.00	3,352.21	3,325.41	3,325.41
4/3/17	20.3	20.3	Out	0.03	3,351.44	3,331.18	3,331.15	26.49	30.90	30.55	4.41	3,352.21	3,325.72	3,321.31
4/13/17	20.1	20.1	Out	0.05	3,351.44	3,331.39	3,331.34	26.37	28.15	Out	1.78	3,352.21	3,325.84	3,324.06
4/21/17	20.2	20.2	Out	0.02	3,351.44	3,331.29	3,331.27	26.00	27.98	Out	1.98	3,352.21	3,326.21	3,324.23
4/28/17	20.4	20.5	Out	0.02	3,351.44	3,331.01	3,330.99	26.41	27.98	Out	1.57	3,352.21	3,325.80	3,324.23
5/4/17	20.5	20.5	Out	0.00	3,351.44	3,330.99	3,330.99	23.03	24.79	Out	1.76	3,352.21	3,329.18	3,327.42
5/9/17	20.4	20.4	Out	0.00	3,351.44	3,331.09	3,331.09	26.90	27.60	Out	0.70	3,352.21	3,325.01	3,324.61
5/17/17	20.1	20.1	Out	0.02	3,351.44	3,331.34	3,331.32	25.21	27.60	27.41	2.39	3,352.21	3,324.61	3,324.61
5/23/17	20.1	20.1	Out	0.01	3,351.44	3,331.33	3,331.32	24.25	26.03	25.89	1.78	3,352.21	3,327.96	3,326.18
6/1/17	20.4	20.4	Out	0.02	3,351.44	3,331.04	3,331.02							
6/15/17	17.6	17.9	Out	0.25	3,351.44	3,333.84	3,333.59	24.34	25.20	25.14	0.86	3,352.21	3,327.87	3,327.01
6/22/17	17.9	18.2	Out	0.30	3,351.44	3,333.59	3,333.29	22.24	23.45	23.36	1.21	3,352.21	3,329.97	3,328.76
6/29/17	12.7	18.0	Out	5.26	3,351.44	3,338.75	3,333.49	20.70	21.70	21.65	1.00	3,352.21	3,331.51	3,330.51
7/6/17	18.0	18.2	Out	0.25	3,351.44	3,333.49	3,333.24	15.97	16.73	16.67	0.76	3,352.21	3,336.24	3,335.48
7/13/17	18.2	18.5	Out	0.34	3,351.44	3,333.29	3,332.95	16.75	17.68	17.61	0.93	3,352.21	3,335.46	3,334.53
7/19/17	18.7	18.8	Out	0.08	3,351.44	3,332.77	3,332.69	17.85	18.50	18.45	0.65	3,352.21	3,334.36	3,333.71
8/2/17	20.4	20.4	Out	0.01	3,351.44	3,331.05	3,331.04	17.78	18.35	18.31	0.57	3,352.21	3,334.43	3,333.86
8/9/17	20.2	20.3	Out	0.10	3,351.44	3,331.29	3,331.19	16.30	16.90	16.84	0.60	3,352.21	3,335.91	3,335.31
8/15/17	20.0	20.0	Out	0.02	3,351.44	3,331.46	3,331.44	17.00	17.66	Out	0.66	3,352.21	3,335.21	3,334.55
8/24/17		20.3	Out	0.00	3,351.44		3,331.19	15.45	15.73	15.71	0.28	3,352.21	3,336.76	3,336.48
8/31/17	20.4	20.5	Out	0.02	3,351.44	3,331.01	3,330.99	16.35	16.65	16.63	0.30	3,352.21	3,335.86	3,335.56
9/6/17	18.6	18.8	Out	0.21	3,351.44	3,332.85	3,332.64	13.23	13.68	13.64	0.45	3,352.21	3,338.98	3,338.53
9/14/17	18.0	18.3	Out	0.33	3,351.44	3,333.44	3,333.11	15.18	15.55	15.52	0.37	3,352.21	3,337.01	3,336.66
9/21/17	18.6	18.9	Out	0.35	3,351.44	3,332.89	3,332.54	15.20	15.38	15.37	0.18	3,352.21	3,337.06	3,336.83
10/3/17	20.1	20.0	Out	-0.04	3,351.44	3,331.39	3,331.43	16.93	17.33	Out	0.40	3,352.21	3,335.28	3,334.88
10/12/17	19.9	20.2	Out	0.31	3,351.44	3,331.55	3,331.24	15.15	15.50	15.47	0.35	3,352.21	3,337.06	3,336.71
10/19/17	19.5	19.8	Out	0.30	3,351.44	3,331.99	3,331.69	16.35	16.76	16.73	0.41	3,352.21	3,335.86	3,335.45
10/26/17	20.1	20.1	Out	0.05	3,351.44	3,331.39	3,331.34	17.47	17.95	17.92	0.48	3,352.21	3,334.74	3,334.26
11/2/17	20.4	20.4	Out	0.02	3,351.44	3,331.04	3,331.02	18.28	18.68	18.66	0.40	3,352.21	3,333.93	3,333.53
11/10/17	20.2	20.2	Out	0.01	3,351.44	3,331.24	3,331.23	21.30	21.60	21.58	0.30	3,352.21	3,330.91	3,330.61
11/16/17	20.3	20.4	Out	0.02	3,351.44	3,331.11	3,331.09	19.80	20.18	20.15	0.38	3,352.21	3,332.41	3,332.03
11/21/17	20.1	20.2	Out	0.05	3,351.44	3,331.34	3,331.29	20.16	20.56	20.53	0.40	3,352.21	3,332.05	3,331.65
12/1/17	20.3	20.3	Out	0.03	3,351.44	3,331.14	3,331.11	20.85	21.40	21.36	0.55	3,352.21	3,331.36	3,330.81
12/8/17	20.1	20.1	Out	0.05	3,351.44	3,331.39	3,331.34	21.28	21.73	Out	0.45	3,352.21	3,330.93	3,330.48
12/13/17	20.2	20.3	Out	0.05	3,351.44	3,331.24	3,331.19	21.55	22.02	21.99	0.47	3,352.21	3,330.66	3,330.19
12/20/17	20.3	20.3	Out	0.05	3,351.44	3,331.19	3,331.14	21.99	22.46	Out	0.47	3,352.21	3,330.62	3,329.75