

2RP-3660

Investigation Summary and Work Plan

Parker Deep 5 Fed Com #3

June 23, 2016

<u>Introduction</u>

This summary and work plan by Matador Resources details knowledge and plans for remediation of the Parker Deep 5 Fed Com # 3 spill on April 24, 2016. The Parker Deep 5 Fed Com # 3 is located in Section 5, Township 18S, Range 31E of Eddy County, NM. This is a federal lease. The geodetic position is 32°46.32132 N, 103°53.63434W. The release occurred April 24, 2016. Approximately 10 barrels of fluid leaked into the containment from a hole in the fire tube in the heater treater. Less than 1 barrel was recovered from the ground. The release was reported to the New Mexico Oil Conservation Division Artesia office on April 24, 2016. OCD issued remediation project (RP) number 2RP-3660. Attachments include surveys, pictures, and map.

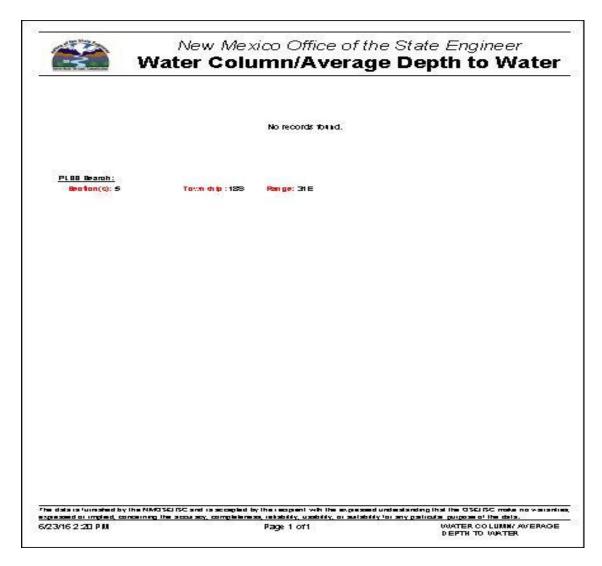
Setting

The setting is as follows:

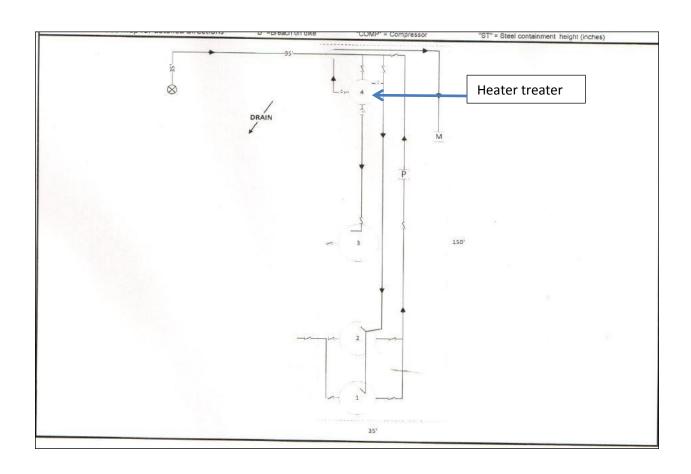
- The surface elevation is approximately 3,698 feet above sea level.
- The topography is undulating sands with Kermit Berino fine sands.
- Groundwater depth is unknown or not present according to records from the New Mexico
 Office of the State Engineer (OSE)
- No fresh water wells in the area. (See attached OSE water well reports)

Remediation Action

Collect soil samples at a minimum depth of 24 inches below surface near fire source to be analyzed by Hall Environmental Labs in Albuquerque, NM. Upon return of results, determine whether or not soil needs to be remediated deeper than 24 inches below surface.



As can be seen above, no wells have been drilled.



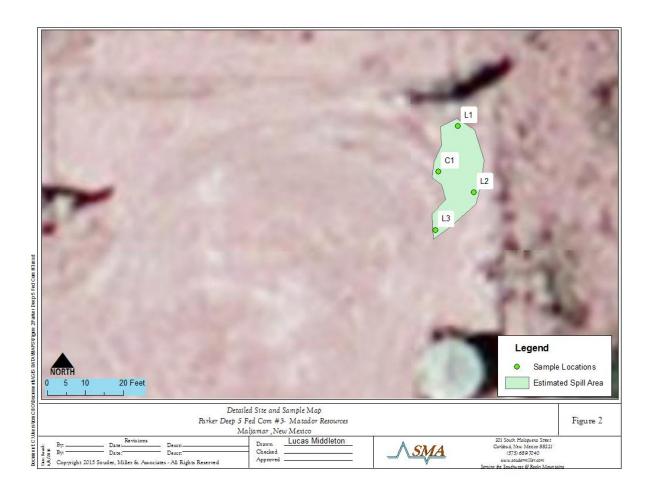






Remediation Actions

Soil samples were collected as shown on the attached plat at the surface around the spill site.



The table depicting the results BTEX, TPH, and Chlorides is shown below.

Analytical Report- 160A71	Sample Number on Figure 2 Map	Sample Date	Depth	BTEX ppm	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	CI- mg/K
160A71- 001	C1	5/20/2016	Surface	N/A	N/A	640	27,600	140
160A71- 002	L1-1	5/20/2016	1'	279.21	0.21	2,000	6,700	N/A
160A71- 003	L1-2	5/20/2016	2'	N/A	N/A	BDL	130	260
160A71- 004	L2-1	5/20/2016	1'	1.33	BDL	39	244	N/A
160A71- 005	L2-2	5/20/2016	2'	N/A	N/A	BDL	75	N/A
160A71- 006	L2-3	5/20/2016	3'	306.4	1.4	3,700	10,100	49
160A71- 007	L3-1	5/20/2016	1'	N/A	N/A	N/A	N/A	BDI
160A71- 008	L3-2	5/20/2016	2'	121	N/A	11	246	BDI

The results of the soil analysis are attached for further investigation. Matador proposes to remove up to 4 feet of contaminated soil and replace with top soil from a local vendor.

Lab Order 1605A71

Date Reported: 6/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Parker Deep 5 Fed 3

Lab ID: 1605A71-001 Matrix: SOIL Client Sample ID: C1

Collection Date: 5/20/2016 2:00:00 PM Received Date: 5/24/2016 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst	том
Petroleum Hydrocarbons, TR	44000	1900		mg/Kg	100	5/27/2016	25529
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	140	30		mg/Kg	20	5/26/2016 3:57:48 PM	25539
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3				Analyst	JME
Diesel Range Organics (DRO)	18000	960		mg/Kg	100	6/3/2016 7:45:27 PM	25629
Motor Oil Range Organics (MRO)	9600	4800		mg/Kg	100	6/3/2016 7:45:27 PM	25629
Surr: DNOP	0	70-130	S	%Rec	100	6/3/2016 7:45:27 PM	25629
EPA METHOD 8015D: GASOLINE R	ANGE					Analyst	NSB
Gasoline Range Organics (GRO)	640	50		mg/Kg	10	6/2/2016 9:58:40 AM	25622
Surr: BFB	363	80-120	S	%Rec	10	6/2/2016 9:58:40 AM	25622

Analytical Report

Lab Order 1605A71 Date Reported: 6/7/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L1-1

CLIENT: Souder, Miller & Associates Project: Parker Deep 5 Fed 3 Collection Date: 5/20/2016 2:00:00 PM Lab ID: 1605A71-002 Matrix: SOIL Received Date: 5/24/2016 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst	том
Petroleum Hydrocarbons, TR	12000	1900		mg/Kg	100	5/27/2016	25529
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst	JME
Diesel Range Organics (DRO)	5200	96		mg/Kg	10	6/3/2016 3:05:07 PM	25629
Motor Oil Range Organics (MRO)	1500	480		mg/Kg	10	6/3/2016 3:05:07 PM	25629
Surr: DNOP	0	70-130	S	%Rec	10	6/3/2016 3:05:07 PM	25629
EPA METHOD 8015D: GASOLINE R	ANGE					Analyst	NSB
Gasoline Range Organics (GRO)	2000	98		mg/Kg	20	5/25/2016 8:32:48 PM	25461
Surr: BFB	543	80-120	S	%Rec	20	5/25/2016 8:32:48 PM	25461
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Methyl tert-butyl ether (MTBE)	ND	0.098		mg/Kg	1	5/25/2016 1:06:32 PM	25461
Benzene	0.21	0.025		mg/Kg	1	5/25/2016 1:06:32 PM	25461
Toluene	26	0.98		mg/Kg	20	5/25/2016 8:32:48 PM	25461
Ethylbenzene	12	0.98		mg/Kg	20	5/25/2016 8:32:48 PM	25461
Xylenes, Total	92	2.0		mg/Kg	20	5/25/2016 8:32:48 PM	25461
Surr: 4-Bromofluorobenzene	149	80-120	S	%Rec	20	5/25/2016 8:32:48 PM	25461

Lab Order 1605A71

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/7/2016

CLIENT: Souder, Miller & Associates Client Sample ID: L1-2

Project: Parker Deep 5 Fed 3 Collection Date: 5/20/2016 2:00:00 PM Lab ID: 1605A71-003 Matrix: SOIL Received Date: 5/24/2016 9:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analys	t: TOM
Petroleum Hydrocarbons, TR	260	20	mg/Kg	Ĩ	5/27/2016	25529
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	3			Analys	t: JME
Diesel Range Organics (DRO)	73	9.3	mg/Kg	1	6/3/2016 5:53:59 PM	25629
Motor Oil Range Organics (MRO)	57	47	mg/Kg	1	6/3/2016 5:53:59 PM	25629
Surr: DNOP	93.0	70-130	%Rec	1	6/3/2016 5:53:59 PM	25629
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/2/2016 1:00:26 PM	25622
Surr: BFB	108	80-120	%Rec	1	6/2/2016 1:00:26 PM	25622

Analytical Report

Lab Order 1605A71 Date Reported: 6/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L2-1

Project: Parker Deep 5 Fed 3 Collection Date: 5/20/2016 2:00:00 PM Lab ID: 1605A71-004 Matrix: SOIL Received Date: 5/24/2016 9:40:00 AM

Analyses	Result	PQL (Qual U	Jnits	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst:	том
Petroleum Hydrocarbons, TR	720	20		mg/Kg	1	5/27/2016	25529
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3				Analyst:	JME
Diesel Range Organics (DRO)	160	9.3		mg/Kg	1	6/3/2016 6:22:06 PM	25629
Motor Oil Range Organics (MRO)	84	47		mg/Kg	1	6/3/2016 6:22:06 PM	25629
Surr: DNOP	92.9	70-130		%Rec	1	6/3/2016 6:22:06 PM	25629
EPA METHOD 8015D: GASOLINE R.	ANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	39	4.7		mg/Kg	1	5/25/2016 10:07:06 PM	25461
Surr. BFB	267	80-120	S	%Rec	1	5/25/2016 10:07:06 PM	25461
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Methyl tert-butyl ether (MTBE)	ND	0.094		mg/Kg	1	5/25/2016 10:07:06 PM	25461
Benzene	ND	0.023		mg/Kg	1	5/25/2016 10:07:06 PM	25461
Toluene	0.22	0.047		mg/Kg	1	5/25/2016 10:07:06 PM	25461
Ethylbenzene	0.16	0.047		mg/Kg	1	5/25/2016 10:07:06 PM	25461
Xylenes, Total	0.95	0.094		mg/Kg	1	5/25/2016 10:07:06 PM	25461
Surr: 4-Bromofluorobenzene	128	80-120	S	%Rec	1	5/25/2016 10:07:06 PM	25461

Lab Order **1605A71**

Date Reported: 6/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-2

Project: Parker Deep 5 Fed 3 Collection Date: 5/20/2016 2:00:00 PM Lab ID: 1605 A71-005 Matrix: SOIL Received Date: 5/24/2016 9:40:00 AM

Result	PQL Qu	al Units	DF	Date Analyzed	Batch
				Analys	t: TOM
240	20	mg/Kg	1	5/27/2016	25529
E ORGANICS	3			Analys	t: JME
76	9.6	mg/Kg	1	6/3/2016 6:49:55 PM	25629
ND	48	mg/Kg	1	6/3/2016 6:49:55 PM	25629
106	70-130	%Rec	1	6/3/2016 6:49:55 PM	25629
GE				Analys	t: NSB
ND	4.9	mg/Kg	1	6/2/2016 1:23:58 PM	25622
120	80-120	%Rec	1	6/2/2016 1:23:58 PM	25622
	240 GE ORGANICS 76 ND 106 GE	240 20 SE ORGANICS 76 9.6 ND 48 106 70-130 GE ND 4.9	240 20 mg/Kg SE ORGANICS 76 9.6 mg/Kg ND 48 mg/Kg 106 70-130 %Rec GE ND 4.9 mg/Kg	240 20 mg/Kg 1 SE ORGANICS 76 9.6 mg/Kg 1 ND 48 mg/Kg 1 106 70-130 %Rec 1 GE ND 4.9 mg/Kg 1	Analys 240 20 mg/Kg 1 5/27/2016 SE ORGANICS Analys 76 9.6 mg/Kg 1 6/3/2016 6:49:55 PM ND 48 mg/Kg 1 6/3/2016 6:49:55 PM 106 70-130 %Rec 1 6/3/2016 6:49:55 PM GE Analys ND 4.9 mg/Kg 1 6/2/2016 1:23:58 PM

Analytical Report

Lab Order 1605A71 Date Reported: 6/7/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L2-3

CLIENT: Souder, Miller & Associates Collection Date: 5/20/2016 2:00:00 PM Project: Parker Deep 5 Fed 3 Lab ID: 1605A71-006 Matrix: SOIL Received Date: 5/24/2016 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst	том
Petroleum Hydrocarbons, TR	21000	1900		mg/Kg	100	5/27/2016	25529
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	49	30		mg/Kg	20	5/26/2016 4:10:12 PM	25539
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	3				Analyst	JME
Diesel Range Organics (DRO)	7900	95		mg/Kg	10	6/3/2016 4:29:53 PM	25629
Motor Oil Range Organics (MRO)	2200	480		mg/Kg	10	6/3/2016 4:29:53 PM	25629
Surr: DNOP	0	70-130	S	%Rec	10	6/3/2016 4:29:53 PM	25629
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	3700	230		mg/Kg	50	5/25/2016 10:03:47 AM	25461
Surr. BFB	371	80-120	S	%Rec	50	5/25/2016 10:03:47 AM	25461
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	4.7		mg/Kg	50	5/25/2016 10:03:47 AM	25461
Benzene	1.4	1.2		mg/Kg	50	5/25/2016 10:03:47 AM	25461
Toluene	69	2.3		mg/Kg	50	5/25/2016 10:03:47 AM	25461
Ethylbenzene	28	2.3		mg/Kg	50	5/25/2016 10:03:47 AM	25461
Xylenes, Total	210	4.7		mg/Kg	50	5/25/2016 10:03:47 AM	25461
Surr: 4-Bromofluorobenzene	137	80-120	S	%Rec	50	5/25/2016 10:03:47 AM	25461

Lab Order 1605A71 Date Reported: 6/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Project: Parker Deep 5 Fed 3 1605A71-007

Lab ID:

Client Sample ID: L3-1

Collection Date: 5/20/2016 2:00:00 PM Received Date: 5/24/2016 9:40:00 AM

Analyses Result PQL Qual Units DF Date Analyzed Batch EPA METHOD 300.0: ANIONS Analyst: LGT Chloride ND 30 mg/Kg 20 5/26/2016 4:22:37 PM 25539

Matrix: SOIL

Analytical Report

Lab Order 1605A71 Date Reported: 6/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-2 Project: Parker Deep 5 Fed 3 Collection Date: 5/20/2016 2:00:00 PM

Matrix: SOIL Lab ID: 1605A71-008 Received Date: 5/24/2016 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst	том
Petroleum Hydrocarbons, TR	370	20		mg/Kg	1	5/27/2016	25529
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	ND	30		mg/Kg	20	5/26/2016 4:35:01 PM	25539
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS					Analyst	JME
Diesel Range Organics (DRO)	160	9.8		mg/Kg	1	6/3/2016 7:17:39 PM	25629
Motor Oil Range Organics (MRO)	86	49		mg/Kg	1	6/3/2016 7:17:39 PM	25629
Surr: DNOP	95.4	70-130		%Rec	1	6/3/2016 7:17:39 PM	25629
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	11	5.0		mg/Kg	1	5/25/2016 1:53:29 PM	25461
Sum BFB	172	80-120	S	%Rec	1	5/25/2016 1:53:29 PM	25461
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	5/25/2016 1:53:29 PM	25461
Benzene	ND	0.025		mg/Kg	1	5/25/2016 1:53:29 PM	25461
Toluene	ND	0.050		mg/Kg	1	5/25/2016 1:53:29 PM	25461
Ethylbenzene	ND	0.050		mg/Kg	1	5/25/2016 1:53:29 PM	25461
Xylenes, Total	ND	0.10		mg/Kg	1	5/25/2016 1:53:29 PM	25461
Surr: 4-Bromofluorobenzene	121	80-120	S	%Rec	1	5/25/2016 1:53:29 PM	25461

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605A71 07-Jun-16

Client: Souder, Miller & Associates Project: Parker Deep 5 Fed 3

Sample ID MB-25539 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 25539 RunNo: 34533

SeqNo: 1065112 Units: mg/Kg Prep Date: 5/26/2016 Analysis Date: 5/26/2016

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Result

Chloride ND

Sample ID LCS-25539 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 25539 RunNo: 34533

Prep Date: 5/26/2016 Analysis Date: 5/26/2016 SeqNo: 1065113 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Analyte %RPD RPDLimit Chloride 14 15.00 0 93.0 90

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605A71

07-Jun-16

Client: Souder, Miller & Associates Parker Deep 5 Fed 3 Project:

Sample ID MB-25629 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 25629 RunNo: 34675

Prep Date: 6/2/2016 Analysis Date: 6/3/2016 SeqNo: 1069818 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP

Surr: DNOP 8.9 10.00 89.3

Sample ID LCS-25629 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS

Client ID: LCSS Batch ID: 25629 RunNo: 34675

4.3

Prep Date: 6/2/2016 SeqNo: 1069819 Analysis Date: 6/3/2016 Units: mg/Kg

5.000

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Result Diesel Range Organics (DRO) 50.00 104 62.6

85.2

70

130

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO# **1605A71**

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07-Jun-16

Client: Souder, Miller & Associates
Project: Parker Deep 5 Fed 3

Sample ID MB-25461 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 25461 RunNo: 34464

Prep Date: 5/24/2016 Analysis Date: 5/25/2016 SeqNo: 1063427 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Ga so line Range Organics (GRO) ND 5.0
Surr. BFB 1100 1000 110 80 120

Sample ID LCS-25461 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 25461 RunNo: 34464

Prep Date: 5/24/2016 Analysis Date: 5/25/2016 SeqNo: 1064053 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Qual 5D 25DO Gasoline Range Organics (GRO) 23 0 93.9 80 120 0 Surr. BFB 1200 1000 121 80 120

Surr. BFB 1100 1000 106 80 120

 Sample ID LCS-25622
 SampType: LCS
 TestCode: EPA Method 8015D: Gasoline Range

 Client ID: LCSS
 Batch ID: 25622
 RunNo: 34635

 Prep Date: 6/1/2016
 Analysis Date: 6/2/2016
 SeqNo: 1068923
 Units: mg/kg

 Analyte
 Result
 PQL SPK value
 SPK Ref Val
 %REC
 LowLimit
 High Limit
 %RPD
 RPD Limit
 Qual

Gassine Range Organics (GRO) 26 5.0 25.00 0 103 80 120 Surr. BPS 1600 1000 161 80 120 S

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or ara lysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepte direcovery limits
- S=% Recovery outside of range due to dilution or in a trix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit.
- $W = \operatorname{Sample}$ container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO# 1605A71

07-Jun-16

Client:	Souder, Miller & Associates
Project:	Parker Deep 5 Fed 3

Sample ID MB-25461	Samp1	Type: ME	BLK	Tes	Test Code: EPA Method 8021B: Volatiles					
Client ID: PBS	Batc	h ID: 25	461	F	RunNo: 3	4464				
Prep Date: 5/24/2016	Analysis I	Date: 5/	25/2016		SeqNo: 1	063448	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
d eth yl te it-butyl eth er (MTBE)	ND	0.10					120			
Ве пиеп е	ND	0.025								
Tolue ne	ND	0.050								
Ethyb enze ne	ND	0.050								
cylenes, Total	ND	0.10								
Surr. 4-B rom offuo ro benze ne	1.1		1 000		114	80	120			

Sample ID LCS-25461	Samp1	Type: LC	s	Tes	Test Code: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batc	h ID: 25	461	1E	RunNo: 3	4464						
Prep Date: 5/24/2016	Analysis (Date: 5/	25/2016		SeqNo: 1	063449	Units: mg/k	G				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Methyl tert-butyl ether (MTBE)	1,1	0.10	1 000	0	111	61	143					
Велгеле	1.1	0.025	1 000	0	106	75.3	123					
Тојџе пе	1.1	0.050	1 000	0	106	80	124					
Ethy b enze ne	1.0	0.050	1 000	0	103	82.8	121					
Xylenes, Total	3.1	0.10	3 000	D	103	83.9	122					
Surr. 4-B rom offuorob enze ne	1.2		1 000		118	80	120					

Sample ID MB-25622	Samp1	ype: Mi	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batd	1D: 25	622	F	RunNo: 3	4635				
Prep Date: 6/1/2016	Analysis (Date: 6.	/2/2016		SeqNo: 1	068955	Units: %Re	0		
Analyte	Result	PQL	SPKnalue	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr 4-8 mm offuo m henze ne	1.0		1.000		105	80	120			

Surr. 4-B rom	offuo ro benze ne	1.1	-300.000	1 000	0.0000000000000000000000000000000000000	109	80	120			70070
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 6/1/2016		Analysis Date: 6/2/2016			SeqNo: 1068984			Units: %Red	3		
Client ID: LCSS		Batch ID: 25622			F	RunNo: 3	4635				
Sample ID	SampT	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dibation or an atrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quartitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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HALL ENVIRONMENTAL ANALYSIS

Hall Environmental Analysis Laboratory Albuquerque, NM 87109 Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Numbe	r: 1605A7	1	RcptNo:	1
Received by/date: \(\alpha \) 05/84/10				Į.
Logged By: Asylley Gallegos 5/24/2016 9:40:00 AM	И	A		
Completed By: Ashley Gallegos 5/24/2016 11:07:16 A	UM .	A		
Reviewed By: 9a 05/24/16		~ - 0		
Chain of Custody				100
1. Custody seals intact on sample bottles?	Yes [No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No □	Not Present	
3. How was the sample delivered?	Courie			
Log In				
4. Was an attempt made to cool the samples?	Yes	P No □] NA □	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No □	NA 🗆	
6. Sample(s) in proper container(s)?	Yes i	€ No □]	
7. Sufficient sample volume for indicated test(s)?	Yes i	No 🗆	1	
8, Are samples (except VOA and ONG) properly preserved?	Yes	No 🗆)	
9. Was preservative added to bottles?	Yes [No 🗷	NA 🗆	
10.VOA vials have zero headspace?	Yes [] No [No VOA Vials	
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
12. Does paperwork match bottle labels?	Yes d	No 🗆		W 0 5 5
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody?	Yes F	No F	The supplemental and the second secon	or >12 unless noted)
14, is it clear what analyses were requested?	Vas a	R No 🗆	16	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes d	No 🗆	HI HERRY MAN	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes [No 🗆	NA 🗷	
Person Notified: Date		*******	-	
By Whom: Via:	eMail	Phone Fa	x In Person	
Régarding:				
Client Instructions:	-00.00.1100.45			3
17. Additional remarks:				
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	, P	
1 2.6 Good Yes	Jeel Date	aightu by	1 588	

