

GW - 55

REPORTS

Appendix A

10-29-10

COVER LETTER

Monday, August 30, 2010

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

TEL: (505) 486-1776

FAX (505) 324-2022

RE: Thriftway Refinery TW 810

Order No.: 1008932

Dear Ross Kennemer:

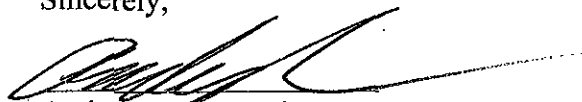
Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 8/24/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.**Date:** 30-Aug-10**CLIENT:** Animas Environmental Services**Project:** Thriftway Refinery TW 810**Lab Order:** 1008932**CASE NARRATIVE**

Analytical Comments for METHOD 8021BTEX_A, SAMPLE 1008932-03A: Sample reanalyzed to confirm.

Hall Environmental Analysis Laboratory, Inc.

Date: 31-Aug-10

CLIENT: Animas Environmental Services
Lab Order: 1008932
Project: Thriftway Refinery TW 810
Lab ID: 1008932-01

Client Sample ID: Engine #1 PreEngine Well Gas
Collection Date: 8/20/2010 2:11:00 PM
Date Received: 8/24/2010
Matrix: AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	4800	250		µg/L	50	8/26/2010 4:01:35 PM
Surr: BFB	104	45.8-181		%REC	50	8/26/2010 4:01:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	13		µg/L	50	8/26/2010 4:01:35 PM
Benzene	25	5.0		µg/L	50	8/26/2010 4:01:35 PM
Toluene	36	5.0		µg/L	50	8/26/2010 4:01:35 PM
Ethylbenzene	ND	5.0		µg/L	50	8/26/2010 4:01:35 PM
Xylenes, Total	44	15		µg/L	50	8/26/2010 4:01:35 PM
Surr: 4-Bromofluorobenzene	95.5	71.5-159		%REC	50	8/26/2010 4:01:35 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 31-Aug-10

CLIENT: Animas Environmental Services
Lab Order: 1008932
Project: Thriftway Refinery TW 810
Lab ID: 1008932-02

Client Sample ID: Engine #1 Pre-Cat
Collection Date: 8/20/2010 2:22:00 PM
Date Received: 8/24/2010
Matrix: AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	14	5.0		µg/L	1	8/26/2010 2:34:35 PM
Surr: BFB	109	45.8-181		%REC	1	8/26/2010 2:34:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	8/26/2010 2:34:35 PM
Benzene	ND	0.10		µg/L	1	8/26/2010 2:34:35 PM
Toluene	0.11	0.10		µg/L	1	8/26/2010 2:34:35 PM
Ethylbenzene	ND	0.10		µg/L	1	8/26/2010 2:34:35 PM
Xylenes, Total	0.59	0.30		µg/L	1	8/26/2010 2:34:35 PM
Surr: 4-Bromofluorobenzene	101	71.5-159		%REC	1	8/26/2010 2:34:35 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 31-Aug-10

CLIENT: Animas Environmental Services
Lab Order: 1008932
Project: Thriftway Refinery TW 810
Lab ID: 1008932-03

Client Sample ID: Engine #1 Post-Cat
Collection Date: 8/20/2010 2:28:00 PM
Date Received: 8/24/2010
Matrix: AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	42	5.0		µg/L	1	8/27/2010 1:42:38 PM
Surr: BFB	139	45.8-181		%REC	1	8/27/2010 1:42:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	8/27/2010 1:42:38 PM
Benzene	0.17	0.10		µg/L	1	8/27/2010 1:42:38 PM
Toluene	0.36	0.10		µg/L	1	8/27/2010 1:42:38 PM
Ethylbenzene	0.15	0.10		µg/L	1	8/27/2010 1:42:38 PM
Xylenes, Total	2.2	0.30		µg/L	1	8/27/2010 1:42:38 PM
Surr: 4-Bromofluorobenzene	118	71.5-159		%REC	1	8/27/2010 1:42:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: Thriftway Refinery TW 810

Work Order: 1008932

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB MBLK

Batch ID: R40616 Analysis Date: 8/26/2010 9:05:00 AM

Gasoline Range Organics (GRO) ND mg/L 0.050

Sample ID: 2.5UG GRO LCS

LCS

Batch ID: R40616 Analysis Date: 8/26/2010 1:06:18 PM

Gasoline Range Organics (GRO) 0.5334 mg/L 0.050 0.5 0 107 89.5 122

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB MBLK

Batch ID: R40616 Analysis Date: 8/26/2010 9:05:00 AM

Methyl tert-butyl ether (MTBE) ND µg/L 2.5

Benzene ND µg/L 1.0

Toluene ND µg/L 1.0

Ethylbenzene ND µg/L 1.0

Xylenes, Total ND µg/L 2.0

1,2,4-Trimethylbenzene ND µg/L 1.0

1,3,5-Trimethylbenzene ND µg/L 1.0

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R40616 Analysis Date: 8/26/2010 1:36:38 PM

Methyl tert-butyl ether (MTBE) 16.57 µg/L 2.5 20 0 82.9 75.5 124

Benzene 20.95 µg/L 1.0 20 0 105 84.7 118

Toluene 20.35 µg/L 1.0 20 0 102 82 123

Ethylbenzene 20.14 µg/L 1.0 20 0 101 83 118

Xylenes, Total 61.01 µg/L 2.0 60 0 102 85.4 119

1,2,4-Trimethylbenzene 20.21 µg/L 1.0 20 0 101 82.1 113

1,3,5-Trimethylbenzene 21.98 µg/L 1.0 20 0 110 89.6 119

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB MBLK

Batch ID: R40635 Analysis Date: 8/27/2010 9:41:17 AM

Methyl tert-butyl ether (MTBE) ND µg/L 2.5

Benzene ND µg/L 1.0

Toluene ND µg/L 1.0

Ethylbenzene ND µg/L 1.0

Xylenes, Total ND µg/L 2.0

1,2,4-Trimethylbenzene ND µg/L 1.0

1,3,5-Trimethylbenzene ND µg/L 1.0

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **ANIMAS ENVIRONMENTAL**

Date Received:

8/24/2010

Work Order Number **1008932**

Received by: **TLS**

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Remediation Service Int'l
4835 Cdt Unit D
Ventura CA 93003
805.644.8382
805.644.8378 FAX
www.rsi-save.com

127299.5

Report Generator Version 1.4

Date of Report: 10/25/2010

Project Name: Thriftway 810 August 2010 Operations Unit 2

Unit ID: 0

Controller SN: 182

Software version: 844

Assumptions:

20000 Btu/lb

6.2 lb/gallon of gasoline

120 Mole Weight of Extracted VOC

2520 Btu/Cubic Foot of Propane

1000 Btu/Cubic Foot of Natural Gas

Date Range From: 8/1/2010 0:53

Date Range To : 8/31/2010 13:17

Lbs. Removed/Period: 1189.03

Gal Removed/Period: 191.73

SCF Processed/Period 911196

Parts/Million by Volume (PPMV) Conversion to Micrograms/Liter (ug/L)
(PPMV/24.055)*AVG. Mole Weight=ug/L

Mass Transfer Equation to Convert to Pounds/Hour:
(ug/L)*(Flow SCFM)*28.3 L/SCF*60 Minutes/Hour*2.2 lbs/Kg*(1/10^9)

There are no express or implied warranties for fitness of use or any other purpose of the data contained herein.
See report footnotes for disclaimer details and other technical information relating to calculation procedures.

Footnotes:

RSIs Innovative Approach to Estimating Btu/Hr:

1. Measure alternate fuel usage of engine prior to introduction of process flow
2. Multiply the SCFM flow rate of the alternate fuel (propane or natural gas) by the Btu value to determine energy demand on the engine at static conditions
3. The controller records a "snapshot" of the energy demand at a given RPM and engine manifold vacuum just prior to allowing the process flow to begin
4. The controller adjusts the initial baseline based on engine load or oxygen deficiency as necessary
5. Any drop in energy demand is assumed to be caused by the introduction of the process flow and is displayed as Estimated Btu/hr and recorded accordingly

RSIs Innovative Approach to Estimating PPMV:

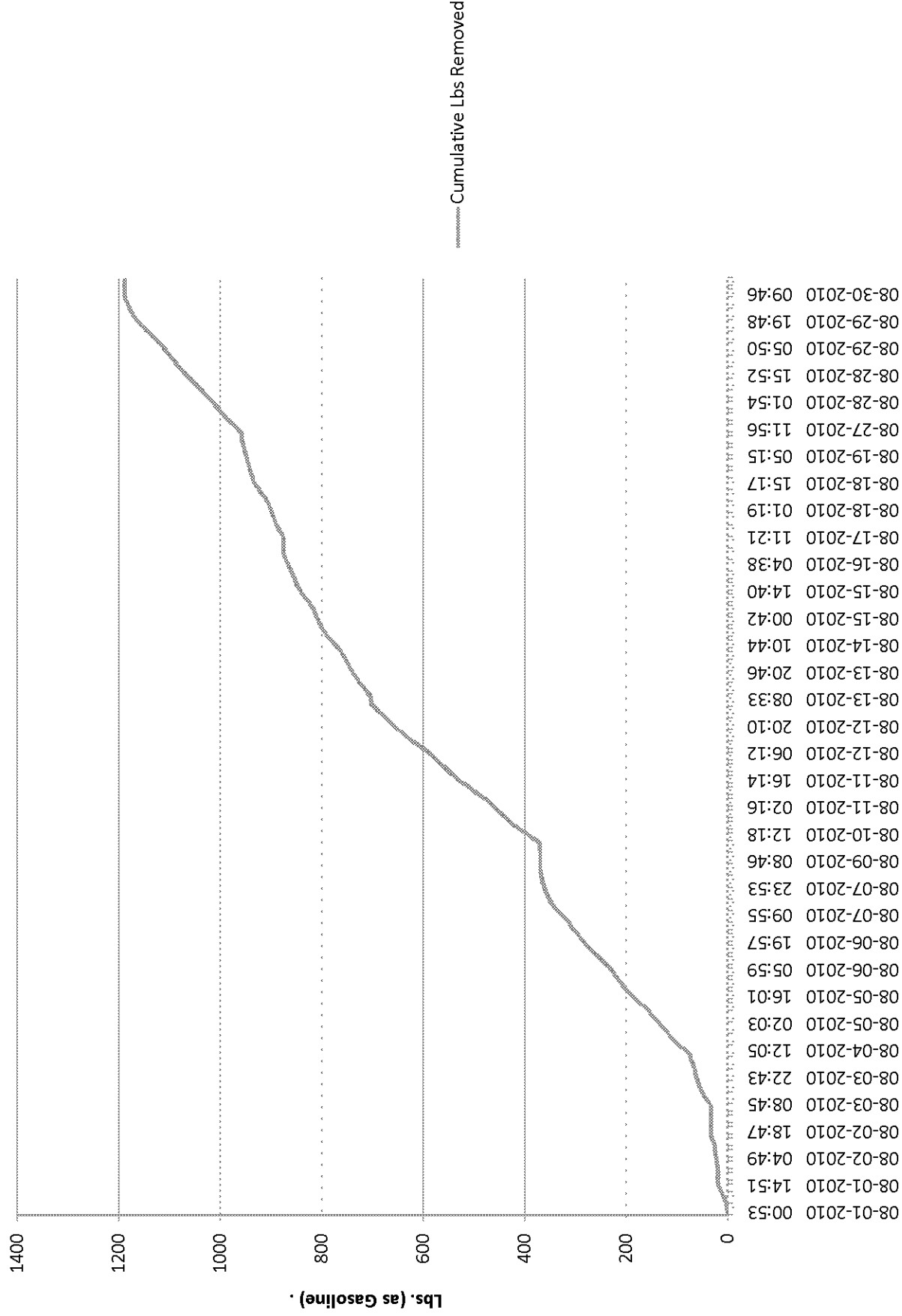
1. The controller completes the Btu/hr calculation as explained above
2. The controller looks at the well flow rate (estimated or measured in SCFM)
3. The controller then computes the average PPMV using the mass transfer equation to solve for PPMV
4. If the flow rate is estimated then PPMV is subject to accuracy of estimated flow and accuracy of the Btu/hr calculation
5. If the flow rate is measured then this PPMV estimate will be relative to actual lab data assuming the flow measurement and the Btu calculations are correct

There are many advantages to using RSIs innovative approach in calculating how much mass was removed from a project in a given time period.
Our method eliminates human calculation error and prevents incorrect or non-calibrated use of field instrumentation and it is a consistent periodic measurement over time which when used properly will reduce costly laboratory analysis.

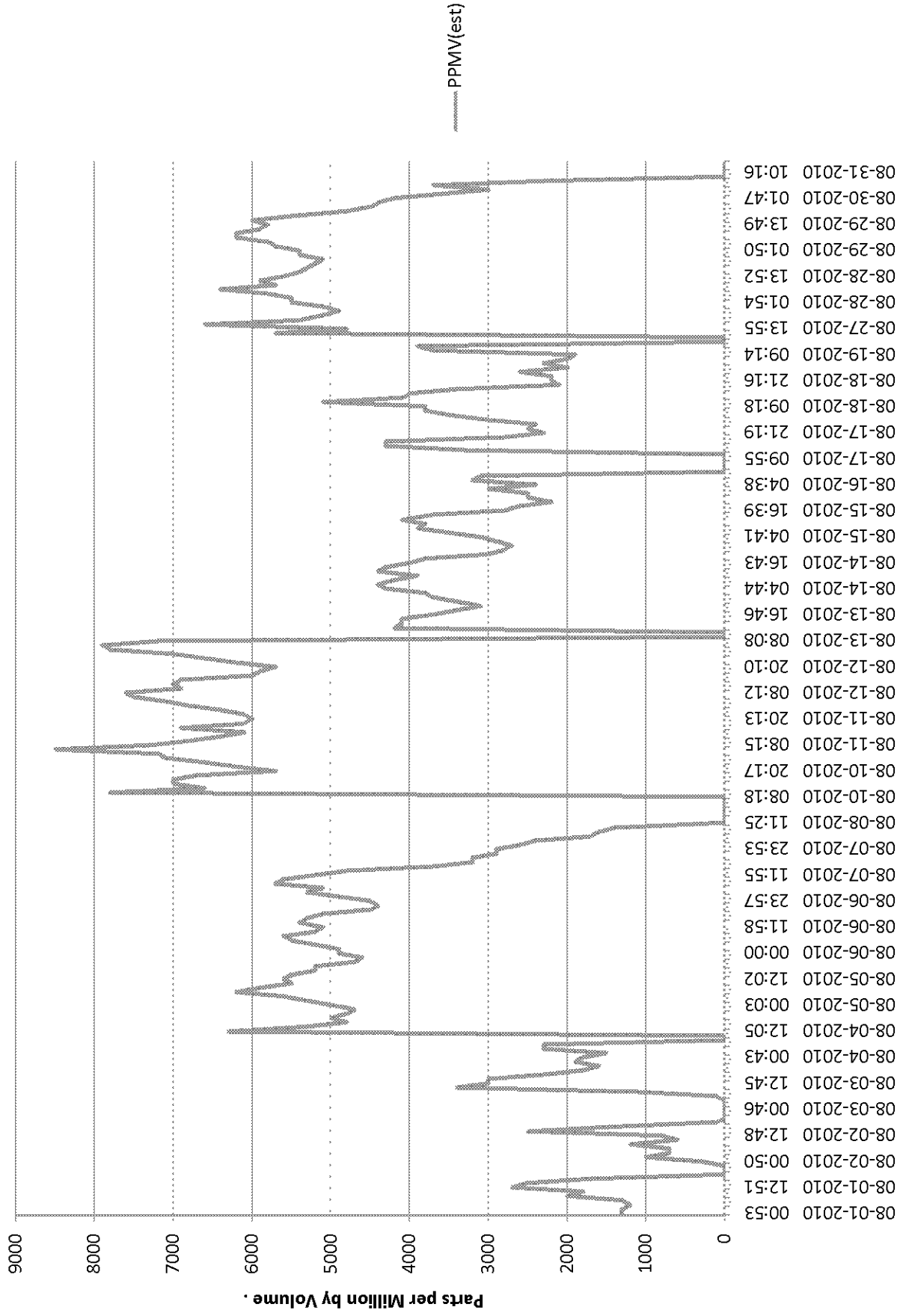
Our estimates of VOC removal have proven to be reasonable when compared to independent lab data. Because the process flow rate and the alternate fuel flow rate measurements are dependent upon proper system operation there are no expressed or implied warranties of fitness of use for any purpose when using this report or the data contained herein.

Please do not hesitate to contact RSI 1-800-368-8685 if you should have any questions or require further information

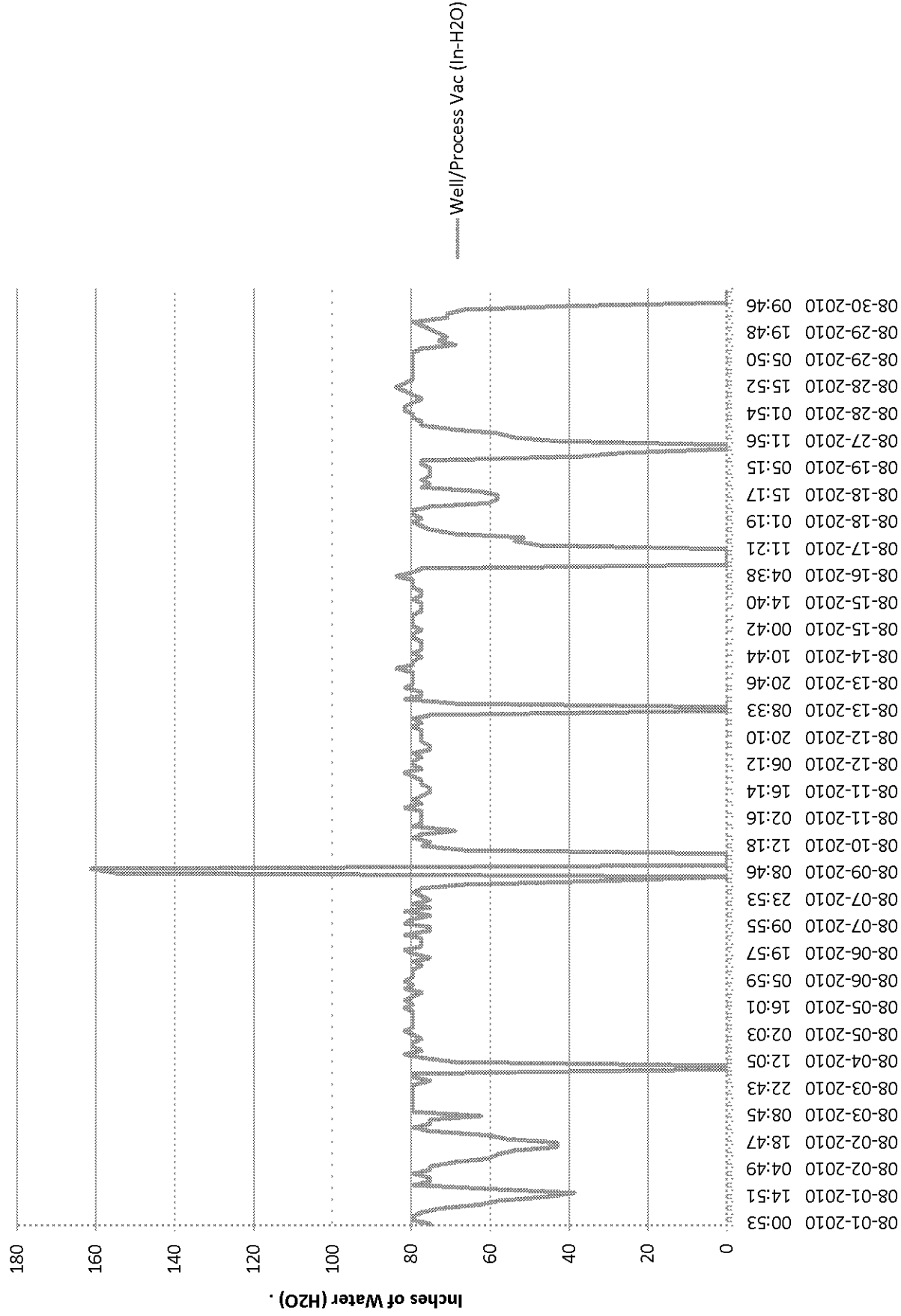
Engine SVE - Lbs. Removed Over Time-BTu/Hr Approach



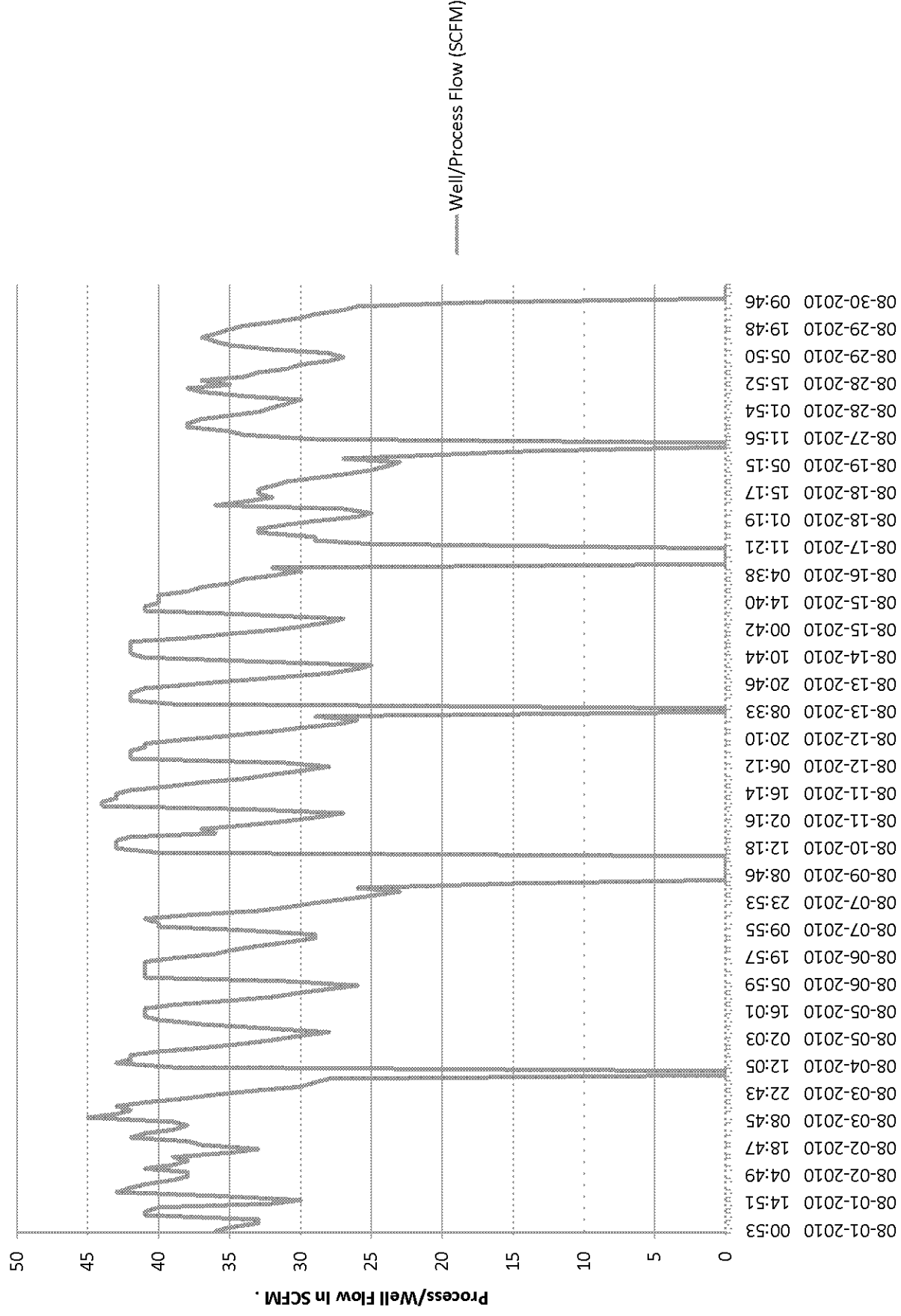
Engine SVE - Estimated ppmV Over Time



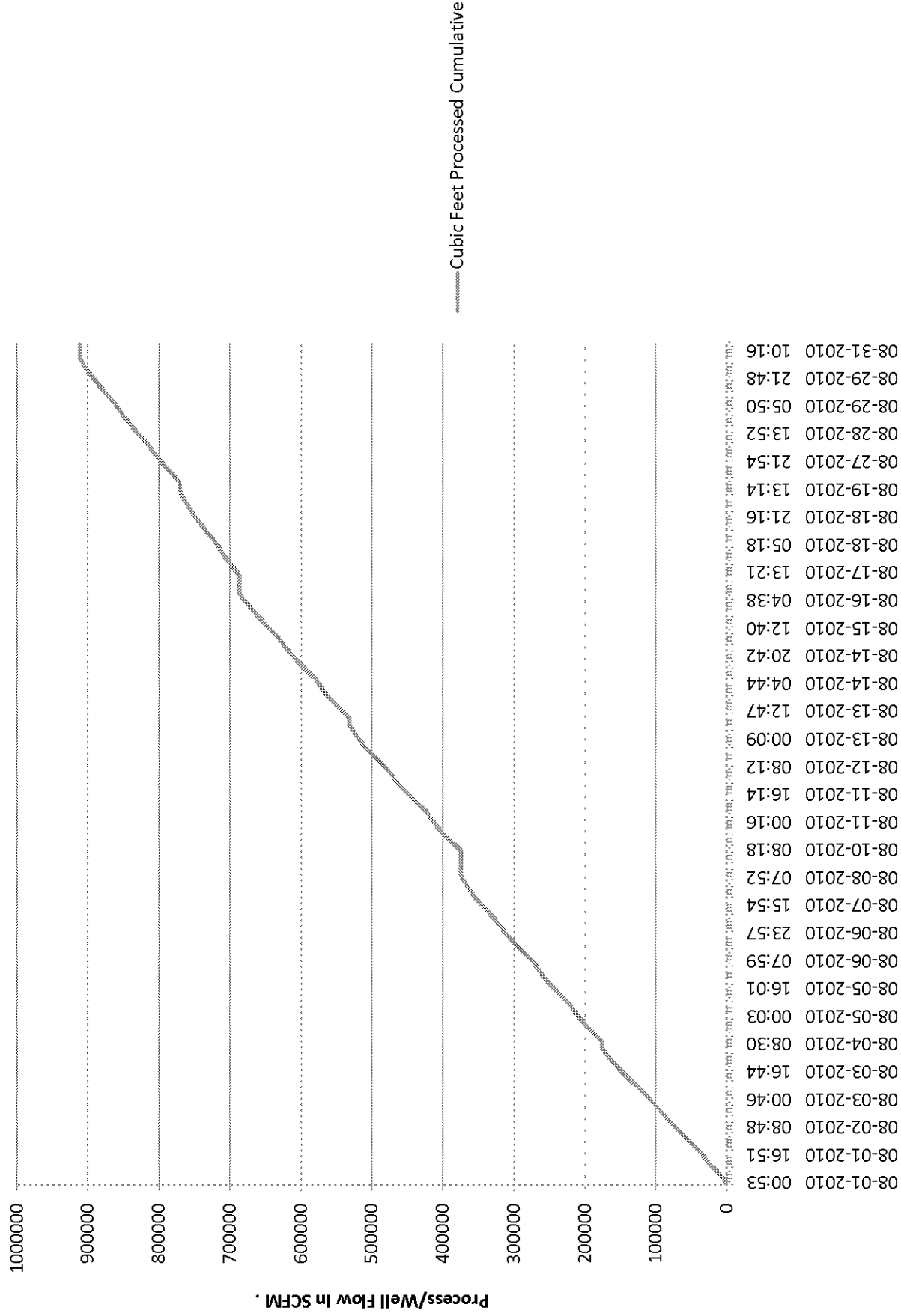
Engine SVE - Well/Process Vacuum Over Time



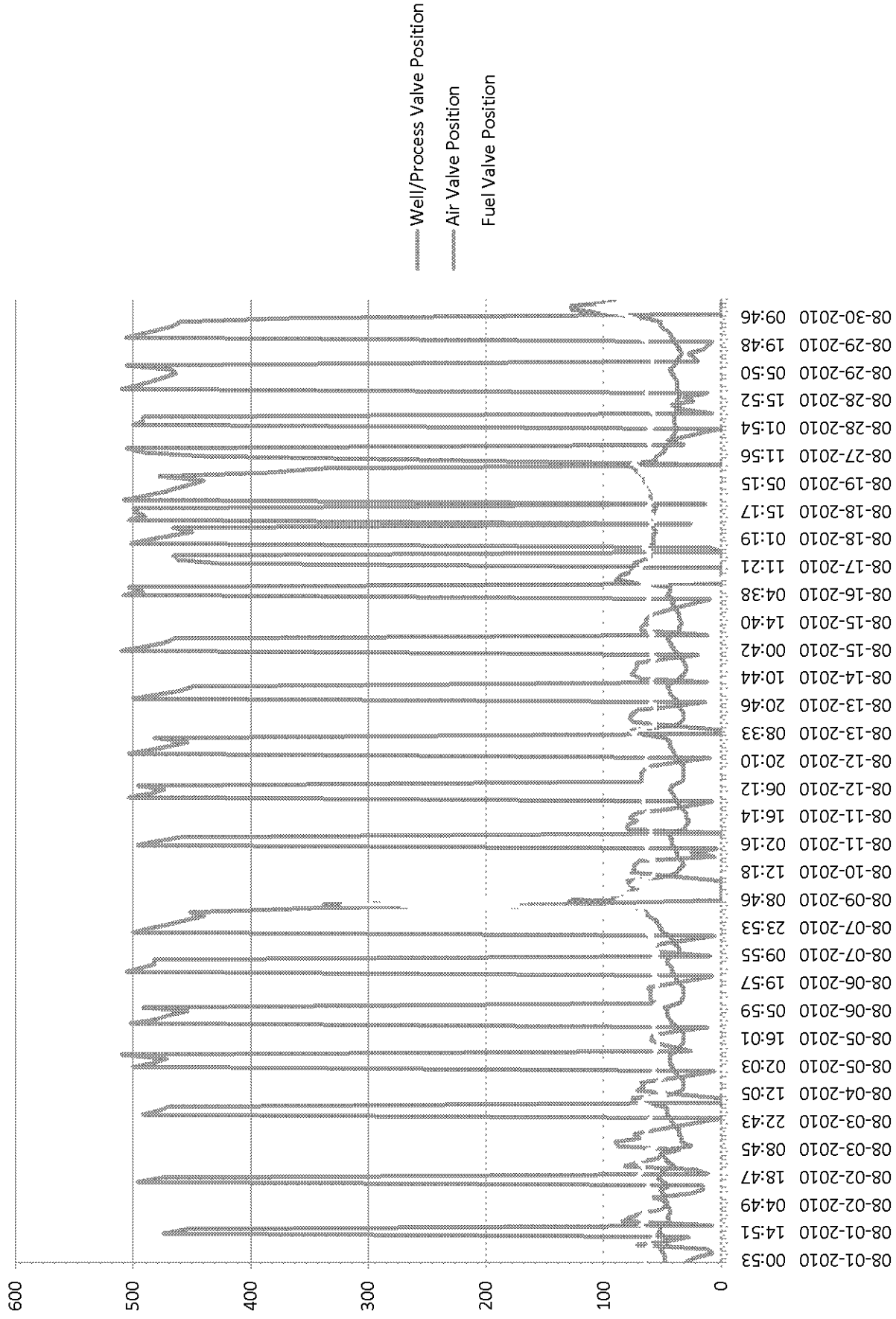
Engine SVE - Well/Process Flow Over Time



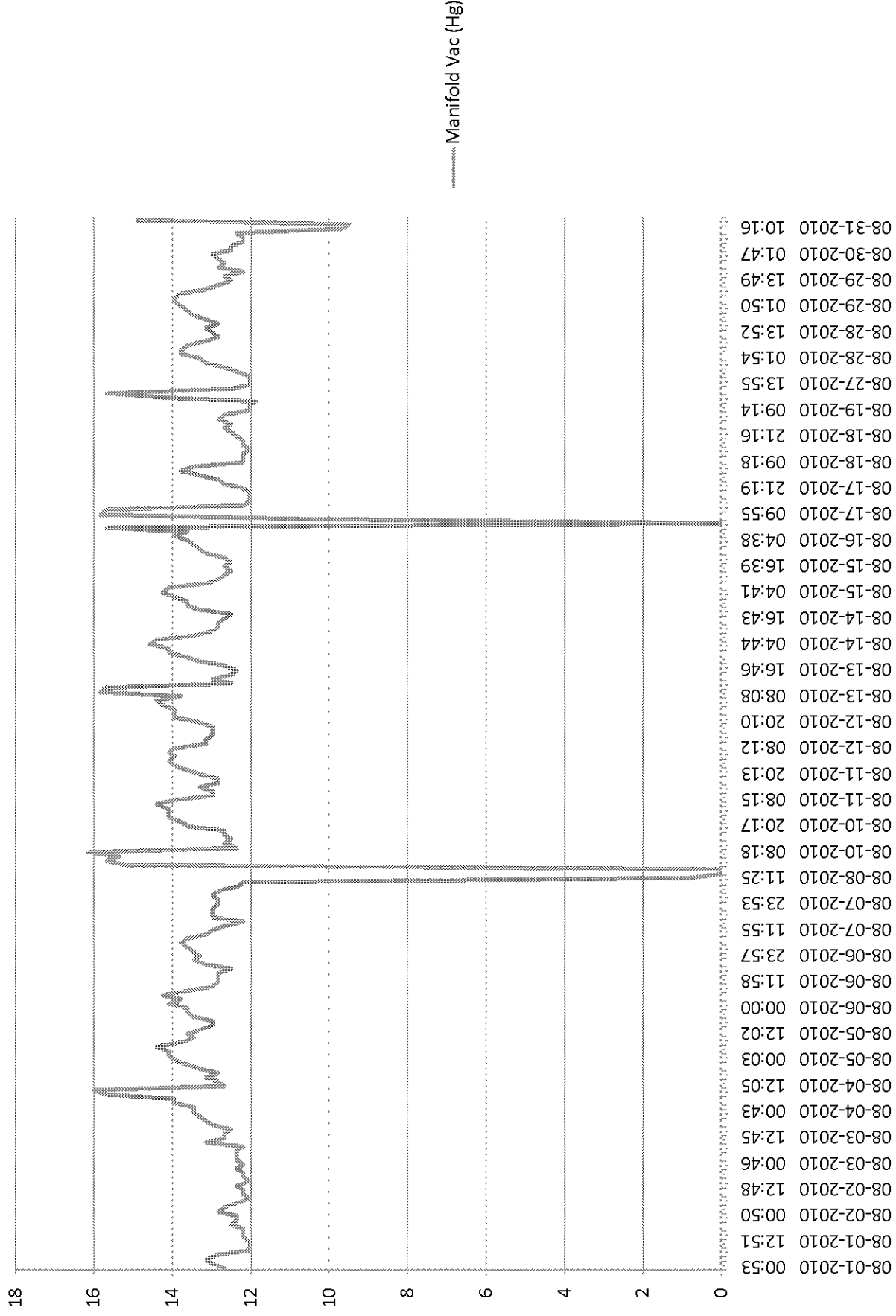
Engine SVE - Cumulative Process Flow in SCFM Over Time



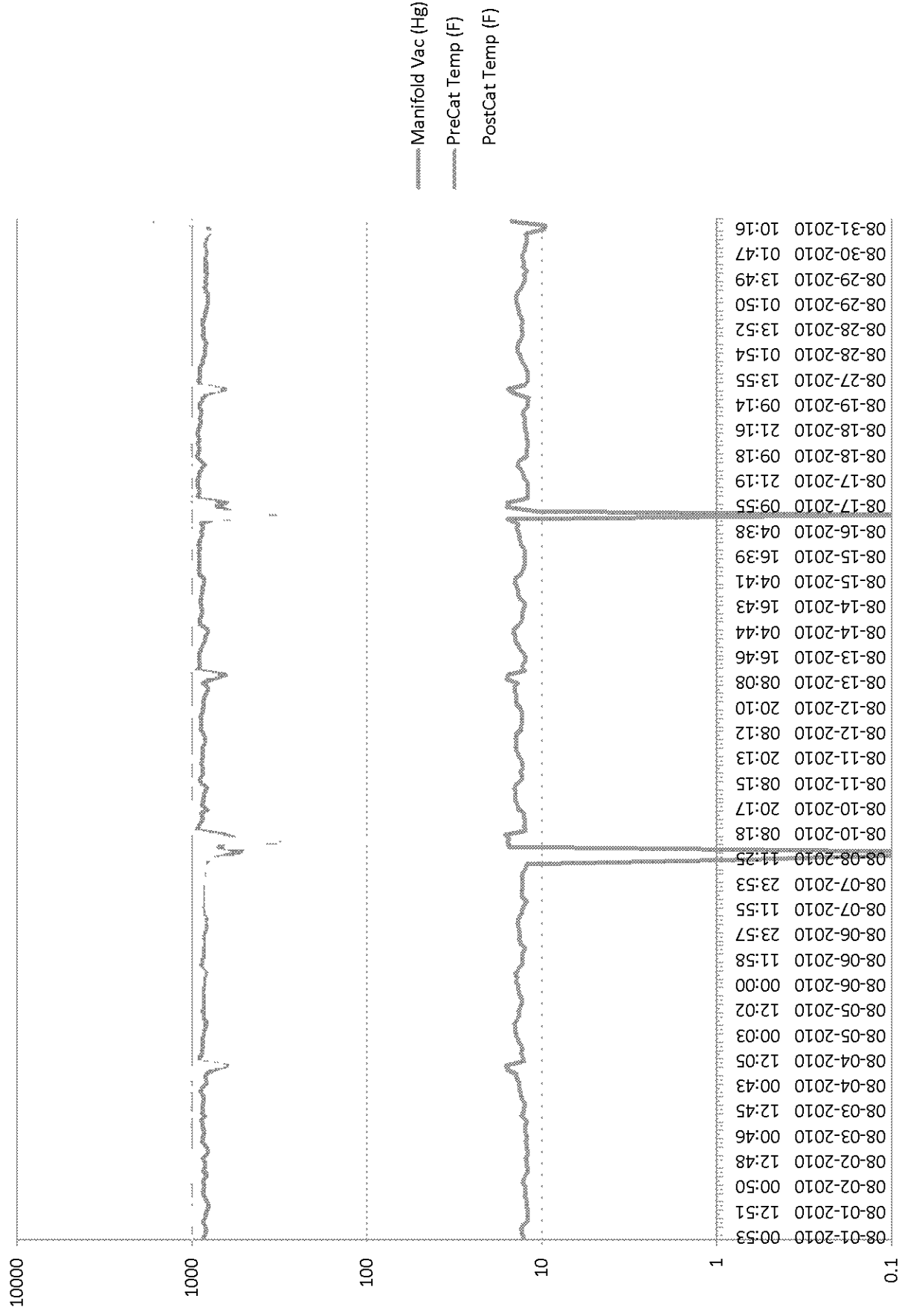
SVE Engine - Air, Fuel & Well Valve Positions Over Time



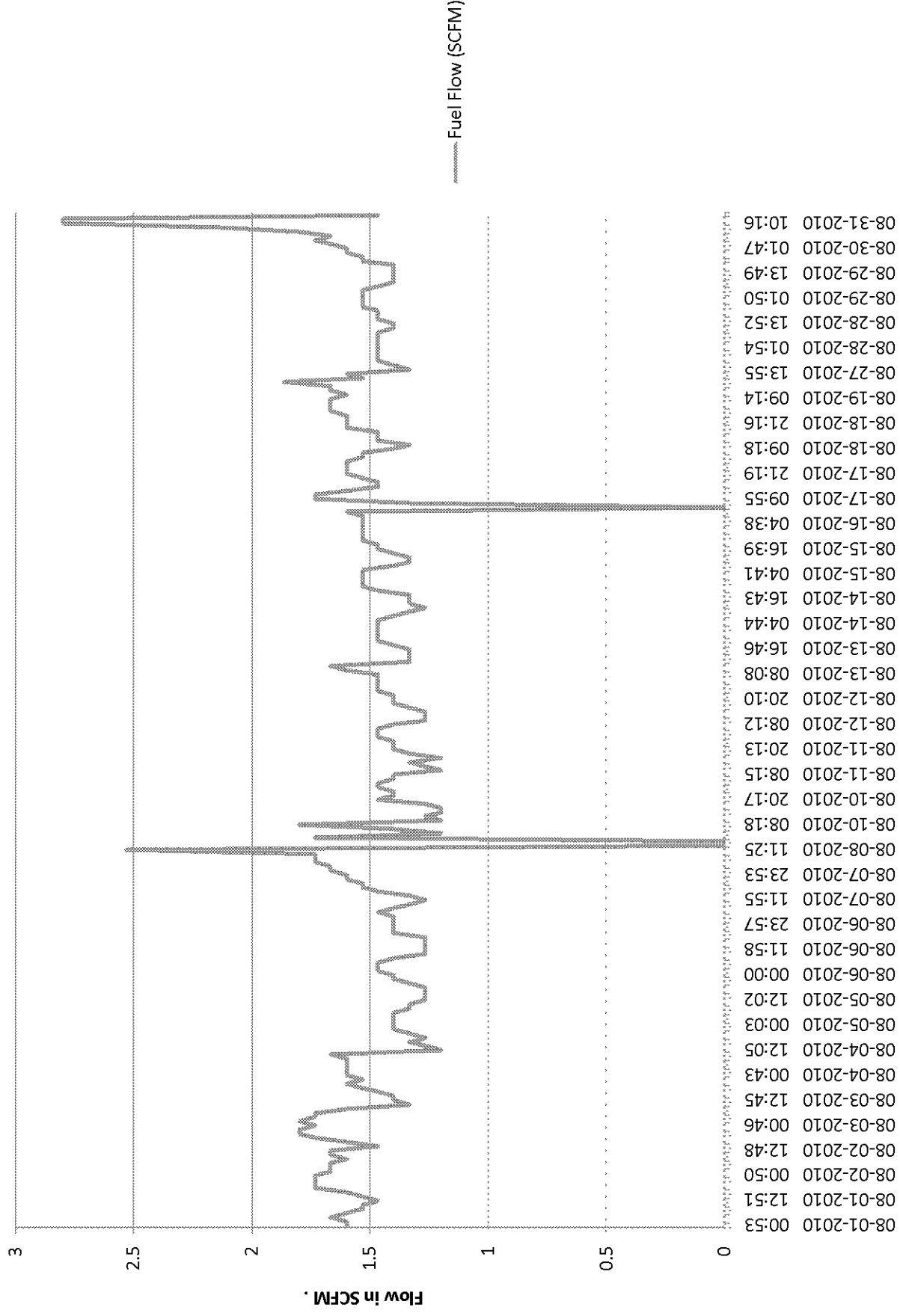
SVE Engine - Manifold Vacuum Over Time



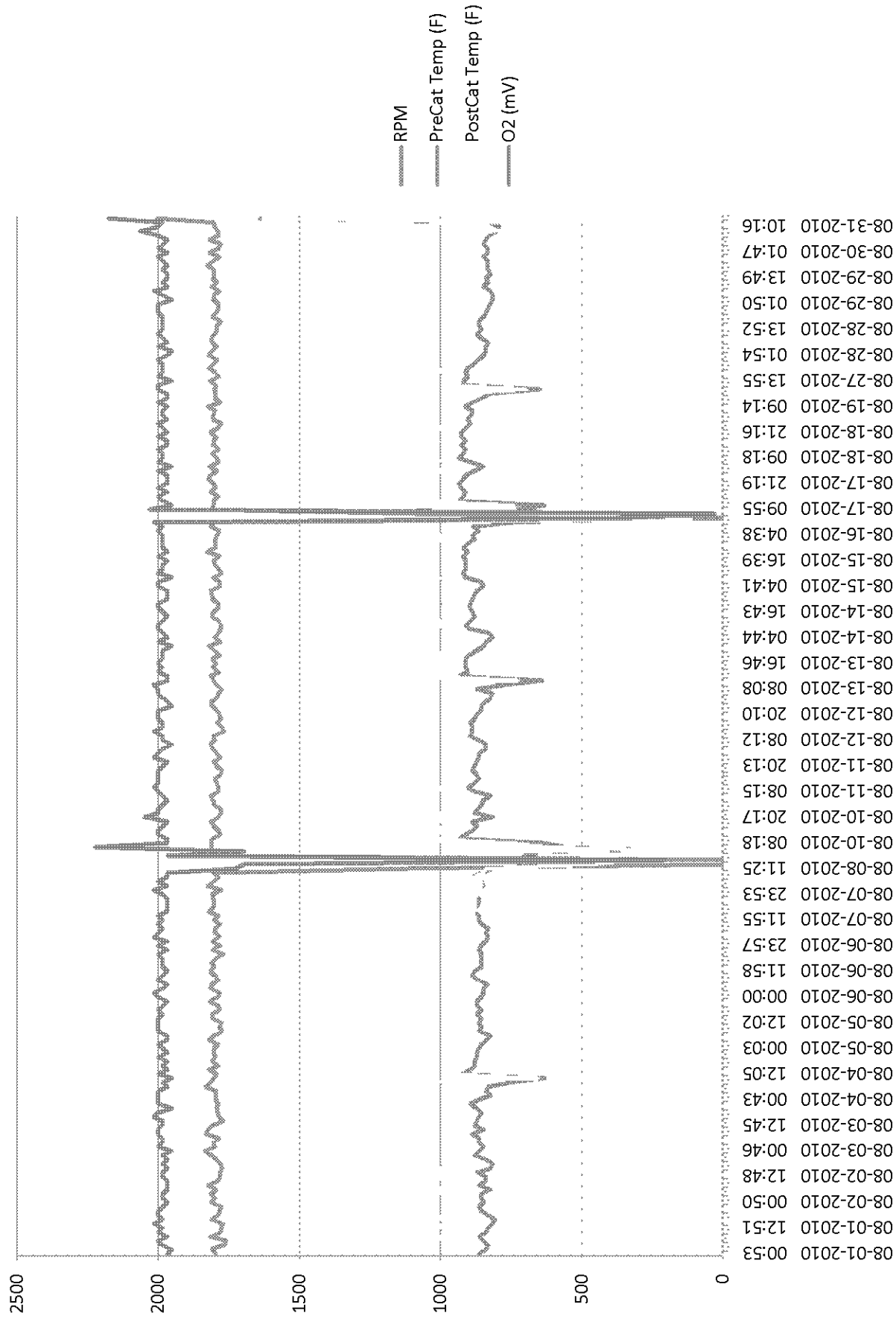
SVE Engine - Pre- & Post-Cat T, Manifold Vacuum Over Time



SVE Engine - Alternate Fuel Flow Over Time



SVE Engine - RPM, O2 and Pre/Post Cat Temperatures Over Time





COVER LETTER

Thursday, September 02, 2010

Blaine Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX: (505) 324-2022

RE: TW #810 Refinery

Order No.: 1008800

Dear Blaine Watson:

Hall Environmental Analysis Laboratory, Inc. received 7 sample(s) on 8/20/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 02-Sep-10

CLIENT: Animas Environmental Services
 Lab Order: 1008800
 Project: TW #810 Refinery
 Lab ID: 1008800-01

Client Sample ID: TW-12
 Collection Date: 8/19/2010 10:20:00 AM
 Date Received: 8/20/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/23/2010 3:01:12 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/23/2010 3:01:12 AM
Surr: DNOP	106	86.9-151		%REC	1	8/23/2010 3:01:12 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.40	0.050		mg/L	1	8/23/2010 4:55:12 PM
Surr: BFB	115	79.9-117		%REC	1	8/23/2010 4:55:12 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	1.4	1.0		µg/L	1	8/23/2010 11:59:36 PM
Toluene	ND	1.0		µg/L	1	8/23/2010 11:59:36 PM
Ethylbenzene	53	1.0		µg/L	1	8/23/2010 11:59:36 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/23/2010 11:59:36 PM
Naphthalene	ND	2.0		µg/L	1	8/23/2010 11:59:36 PM
Xylenes, Total	65	2.0		µg/L	1	8/23/2010 11:59:36 PM
Surr: 1,2-Dichloroethane-d4	96.8	54.6-141		%REC	1	8/23/2010 11:59:36 PM
Surr: 4-Bromofluorobenzene	91.2	60.1-133		%REC	1	8/23/2010 11:59:36 PM
Surr: Dibromofluoromethane	93.2	78.5-130		%REC	1	8/23/2010 11:59:36 PM
Surr: Toluene-d8	98.9	79.5-126		%REC	1	8/23/2010 11:59:36 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3300	40.0		mg/L	1	8/26/2010 6:43:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Sep-10

CLIENT: Animas Environmental Services**Client Sample ID:** TW-48**Lab Order:** 1008800**Collection Date:** 8/19/2010 12:34:00 PM**Project:** TW #810 Refinery**Date Received:** 8/20/2010**Lab ID:** 1008800-02**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/23/2010 3:35:35 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/23/2010 3:35:35 AM
Surr: DNOP	118	86.9-151		%REC	1	8/23/2010 3:35:35 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.067	0.050		mg/L	1	8/23/2010 5:55:48 PM
Surr: BFB	116	79.9-117		%REC	1	8/23/2010 5:55:48 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	ND	1.0		µg/L	1	8/24/2010 3:39:27 AM
Toluene	ND	1.0		µg/L	1	8/24/2010 3:39:27 AM
Ethylbenzene	ND	1.0		µg/L	1	8/24/2010 3:39:27 AM
Methyl tert-butyl ether (MTBE)	16	1.0		µg/L	1	8/24/2010 3:39:27 AM
Naphthalene	ND	2.0		µg/L	1	8/24/2010 3:39:27 AM
Xylenes, Total	ND	2.0		µg/L	1	8/24/2010 3:39:27 AM
Surr: 1,2-Dichloroethane-d4	96.4	54.6-141		%REC	1	8/24/2010 3:39:27 AM
Surr: 4-Bromofluorobenzene	111	60.1-133		%REC	1	8/24/2010 3:39:27 AM
Surr: Dibromofluoromethane	97.0	78.5-130		%REC	1	8/24/2010 3:39:27 AM
Surr: Toluene-d8	98.7	79.5-126		%REC	1	8/24/2010 3:39:27 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4440	100		mg/L	1	8/26/2010 6:43:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008800
Project: TW #810 Refinery
Lab ID: 1008800-03

Client Sample ID: TW-50
Collection Date: 8/19/2010 1:03:00 PM
Date Received: 8/20/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/23/2010 4:09:43 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/23/2010 4:09:43 AM
Surr: DNOP	104	86.9-151		%REC	1	8/23/2010 4:09:43 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2.4	0.25		mg/L	5	8/24/2010 2:00:44 AM
Surr: BFB	143	79.9-117	S	%REC	5	8/24/2010 2:00:44 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	6.9	5.0		µg/L	5	8/24/2010 4:06:55 AM
Toluene	ND	5.0		µg/L	5	8/24/2010 4:06:55 AM
Ethylbenzene	69	5.0		µg/L	5	8/24/2010 4:06:55 AM
Methyl tert-butyl ether (MTBE)	19	5.0		µg/L	5	8/24/2010 4:06:55 AM
Naphthalene	ND	10		µg/L	5	8/24/2010 4:06:55 AM
Xylenes, Total	100	10		µg/L	5	8/24/2010 4:06:55 AM
Surr: 1,2-Dichloroethane-d4	103	54.6-141		%REC	5	8/24/2010 4:06:55 AM
Surr: 4-Bromofluorobenzene	97.8	60.1-133		%REC	5	8/24/2010 4:06:55 AM
Surr: Dibromofluoromethane	99.8	78.5-130		%REC	5	8/24/2010 4:06:55 AM
Surr: Toluene-d8	103	79.5-126		%REC	5	8/24/2010 4:06:55 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4500	100		mg/L	1	8/26/2010 6:43:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008800
Project: TW #810 Refinery
Lab ID: 1008800-04

Client Sample ID: TW-39
Collection Date: 8/19/2010 1:34:00 PM
Date Received: 8/20/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/23/2010 4:43:58 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/23/2010 4:43:58 AM
Surr: DNOP	115	86.9-151		%REC	1	8/23/2010 4:43:58 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.2	0.050		mg/L	1	8/24/2010 2:30:59 AM
Surr: BFB	157	79.9-117	S	%REC	1	8/24/2010 2:30:59 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	87	1.0		µg/L	1	8/24/2010 4:34:25 AM
Toluene	ND	1.0		µg/L	1	8/24/2010 4:34:25 AM
Ethylbenzene	77	1.0		µg/L	1	8/24/2010 4:34:25 AM
Methyl tert-butyl ether (MTBE)	1.5	1.0		µg/L	1	8/24/2010 4:34:25 AM
Naphthalene	2.9	2.0		µg/L	1	8/24/2010 4:34:25 AM
Xylenes, Total	100	2.0		µg/L	1	8/24/2010 4:34:25 AM
Surr: 1,2-Dichloroethane-d4	93.6	54.6-141		%REC	1	8/24/2010 4:34:25 AM
Surr: 4-Bromofluorobenzene	97.6	60.1-133		%REC	1	8/24/2010 4:34:25 AM
Surr: Dibromofluoromethane	92.9	78.5-130		%REC	1	8/24/2010 4:34:25 AM
Surr: Toluene-d8	100	79.5-126		%REC	1	8/24/2010 4:34:25 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3290	100		mg/L	1	8/26/2010 6:43:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008800
Project: TW #810 Refinery
Lab ID: 1008800-05

Client Sample ID: MW-7
Collection Date: 8/19/2010 2:03:00 PM
Date Received: 8/20/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/23/2010 5:18:01 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/23/2010 5:18:01 AM
Surr: DNOP	99.9	86.9-151		%REC	1	8/23/2010 5:18:01 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.22	0.050		mg/L	1	8/24/2010 3:01:14 AM
Surr: BFB	115	79.9-117		%REC	1	8/24/2010 3:01:14 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	6.9	1.0		µg/L	1	8/24/2010 5:01:55 AM
Toluene	ND	1.0		µg/L	1	8/24/2010 5:01:55 AM
Ethylbenzene	ND	1.0		µg/L	1	8/24/2010 5:01:55 AM
Methyl tert-butyl ether (MTBE)	74	1.0		µg/L	1	8/24/2010 5:01:55 AM
Naphthalene	ND	2.0		µg/L	1	8/24/2010 5:01:55 AM
Xylenes, Total	ND	2.0		µg/L	1	8/24/2010 5:01:55 AM
Surr: 1,2-Dichloroethane-d4	101	54.6-141		%REC	1	8/24/2010 5:01:55 AM
Surr: 4-Bromofluorobenzene	115	60.1-133		%REC	1	8/24/2010 5:01:55 AM
Surr: Dibromofluoromethane	92.9	78.5-130		%REC	1	8/24/2010 5:01:55 AM
Surr: Toluene-d8	101	79.5-126		%REC	1	8/24/2010 5:01:55 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4720	100		mg/L	1	8/26/2010 6:43:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Sep-10

CLIENT:	Animas Environmental Services	Client Sample ID:	TW-38
Lab Order:	1008800	Collection Date:	8/19/2010 2:36:00 PM
Project:	TW #810 Refinery	Date Received:	8/20/2010
Lab ID:	1008800-06	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/23/2010 5:52:07 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/23/2010 5:52:07 AM
Surr: DNOP	111	86.9-151		%REC	1	8/23/2010 5:52:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.2	0.050		mg/L	1	8/24/2010 3:31:21 AM
Surr: BFB	146	79.9-117	S	%REC	1	8/24/2010 3:31:21 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	140	5.0		µg/L	5	8/24/2010 11:54:12 AM
Toluene	ND	1.0		µg/L	1	8/24/2010 5:29:24 AM
Ethylbenzene	30	1.0		µg/L	1	8/24/2010 5:29:24 AM
Methyl tert-butyl ether (MTBE)	95	1.0		µg/L	1	8/24/2010 5:29:24 AM
Naphthalene	2.2	2.0		µg/L	1	8/24/2010 5:29:24 AM
Xylenes, Total	58	2.0		µg/L	1	8/24/2010 5:29:24 AM
Surr: 1,2-Dichloroethane-d4	100	54.6-141		%REC	1	8/24/2010 5:29:24 AM
Surr: 4-Bromofluorobenzene	92.0	60.1-133		%REC	1	8/24/2010 5:29:24 AM
Surr: Dibromofluoromethane	95.7	78.5-130		%REC	1	8/24/2010 5:29:24 AM
Surr: Toluene-d8	98.6	79.5-126		%REC	1	8/24/2010 5:29:24 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3910	40.0		mg/L	1	8/26/2010 6:43:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E Estimated value	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
NC Non-Chlorinated	ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit	S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008800
Project: TW #810 Refinery
Lab ID: 1008800-07

Client Sample ID: TW-37
Collection Date: 8/19/2010 3:15:00 PM
Date Received: 8/20/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	22	1.0		mg/L	1	8/23/2010 6:26:26 AM
Motor Oil Range Organics (MRO)	9.6	5.0		mg/L	1	8/23/2010 6:26:26 AM
Surr: DNOP	131	86.9-151		%REC	1	8/23/2010 6:26:26 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	3.2	0.25		mg/L	5	8/24/2010 4:01:29 AM
Surr: BFB	123	79.9-117	S	%REC	5	8/24/2010 4:01:29 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	310	5.0		µg/L	5	8/24/2010 6:24:23 AM
Toluene	ND	5.0		µg/L	5	8/24/2010 6:24:23 AM
Ethylbenzene	65	5.0		µg/L	5	8/24/2010 6:24:23 AM
Methyl tert-butyl ether (MTBE)	140	5.0		µg/L	5	8/24/2010 6:24:23 AM
Naphthalene	ND	10		µg/L	5	8/24/2010 6:24:23 AM
Xylenes, Total	53	10		µg/L	5	8/24/2010 6:24:23 AM
Surr: 1,2-Dichloroethane-d4	96.3	54.6-141		%REC	5	8/24/2010 6:24:23 AM
Surr: 4-Bromofluorobenzene	97.6	60.1-133		%REC	5	8/24/2010 6:24:23 AM
Surr: Dibromofluoromethane	95.2	78.5-130		%REC	5	8/24/2010 6:24:23 AM
Surr: Toluene-d8	98.0	79.5-126		%REC	5	8/24/2010 6:24:23 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3360	40.0		mg/L	1	8/26/2010 6:43:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: TW #810 Refinery

Work Order: 1008800

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8015B: Diesel Range

Sample ID: MB-23485 MBLK

Batch ID: 23485 Analysis Date: 8/23/2010 1:17:56 AM

Diesel Range Organics (DRO) ND mg/L 1.0

Motor Oil Range Organics (MRO) ND mg/L 5.0

Sample ID: LCS-23485 LCS

Batch ID: 23485 Analysis Date: 8/23/2010 1:52:29 AM

Diesel Range Organics (DRO) 6.188 mg/L 1.0 5 0 124 74 157

Sample ID: LCSD-23485 LCSD

Batch ID: 23485 Analysis Date: 8/23/2010 2:26:53 AM

Diesel Range Organics (DRO) 6.113 mg/L 1.0 5 0 122 74 157 1.23 23

Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB MBLK

Batch ID: R40546 Analysis Date: 8/23/2010 9:20:06 AM

Gasoline Range Organics (GRO) ND mg/L 0.050

Sample ID: 2.5UG GRO LCS

Batch ID: R40546 Analysis Date: 8/23/2010 6:26:05 PM

Gasoline Range Organics (GRO) 0.5094 mg/L 0.050 0.5 0 102 89.5 122

Sample ID: 2.5UG GRO LCSD

Batch ID: R40546 Analysis Date: 8/23/2010 6:56:28 PM

Gasoline Range Organics (GRO) 0.5012 mg/L 0.050 0.5 0 100 89.5 122 1.62 10.5

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: TW #810 Refinery

Work Order: 1008800

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: Volatiles Short List											
Sample ID: 1008800-01a msd	MSD					Batch ID: R40554	Analysis Date: 8/24/2010 12:54:32 AM				
Benzene	19.82	µg/L	1.0	20	0	99.1	72.4	126	4.08	20	
Toluene	21.45	µg/L	1.0	20	0	107	79.2	115	4.08	20	
Ethylbenzene	46.85	µg/L	1.0						1.14	20	
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						0	20	
Naphthalene	ND	µg/L	2.0						0	0	
Xylenes, Total	57.96	µg/L	2.0						3.72	0	
Sample ID: b8	MBLK					Batch ID: R40554	Analysis Date: 8/23/2010 12:44:59 PM				
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: b12	MBLK					Batch ID: R40554	Analysis Date: 8/24/2010 1:21:59 AM				
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100ng lcs	LCS					Batch ID: R40554	Analysis Date: 8/23/2010 2:18:17 PM				
Benzene	16.99	µg/L	1.0	20	0	85.0	82.4	116			
Toluene	20.16	µg/L	1.0	20	0	101	89.5	123			
Sample ID: 100ng lc_b	LCS					Batch ID: R40554	Analysis Date: 8/24/2010 2:44:32 AM				
Benzene	18.25	µg/L	1.0	20	0	91.3	82.4	116			
Toluene	19.89	µg/L	1.0	20	0	99.5	89.5	123			
Sample ID: 1008800-01a ms	MS					Batch ID: R40554	Analysis Date: 8/24/2010 12:27:05 AM				
Benzene	19.03	µg/L	1.0	20	0	95.1	72.4	126			
Toluene	20.59	µg/L	1.0	20	0	103	79.2	115			
Ethylbenzene	46.32	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
Xylenes, Total	55.85	µg/L	2.0								

Method: SM2540C MOD: Total Dissolved Solids

Sample ID: MB-23527	MBLK					Batch ID: 23527	Analysis Date: 8/26/2010 6:43:00 PM				
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-23527	LCS					Batch ID: 23527	Analysis Date: 8/26/2010 6:43:00 PM				
Total Dissolved Solids	1010	mg/L	20.0	1000	0	101	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL

Date Received:

8/20/2010

Work Order Number 1008800

Received by: MLW

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name

~~UPS~~

greyhound

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☒

No ☐

N/A ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

1.6°

<6° C Acceptable

If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

no trip blanks were received upon arrival. 09/8/20/10

Corrective Action

COVER LETTER

Wednesday, September 08, 2010

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

TEL: (505) 486-1776

FAX (505) 324-2022

RE: Thriftway #810 Refinery

Order No.: 1008924

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 8/24/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
Project: Thriftway #810 Refinery
Lab Order: 1008924

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_W, SAMPLE 1008924-03A: Surrogate "S" flag due to matrix interference.

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008924
Project: Thriftway #810 Refinery
Lab ID: 1008924-01

Client Sample ID: TW-43
Collection Date: 8/20/2010 10:02:00 AM
Date Received: 8/24/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/25/2010 4:54:20 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/25/2010 4:54:20 PM
Surr: DNOP	123	86.9-151		%REC	1	8/25/2010 4:54:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.38	0.050		mg/L	1	8/25/2010 12:55:02 PM
Surr: BFB	94.9	79.9-117		%REC	1	8/25/2010 12:55:02 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	ND	1.0		µg/L	1	8/25/2010 8:50:14 PM
Toluene	ND	1.0		µg/L	1	8/25/2010 8:50:14 PM
Ethylbenzene	ND	1.0		µg/L	1	8/25/2010 8:50:14 PM
Methyl tert-butyl ether (MTBE)	380	5.0		µg/L	5	8/25/2010 3:34:19 PM
Naphthalene	ND	2.0		µg/L	1	8/25/2010 8:50:14 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 8:50:14 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 8:50:14 PM
Xylenes, Total	ND	2.0		µg/L	1	8/25/2010 8:50:14 PM
Surr: 1,2-Dichloroethane-d4	122	54.6-141		%REC	1	8/25/2010 8:50:14 PM
Surr: 4-Bromofluorobenzene	111	60.1-133		%REC	1	8/25/2010 8:50:14 PM
Surr: Dibromofluoromethane	122	78.5-130		%REC	1	8/25/2010 8:50:14 PM
Surr: Toluene-d8	94.9	79.5-126		%REC	1	8/25/2010 8:50:14 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4510	40.0		mg/L	1	8/27/2010 3:55:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008924
Project: Thriftway #810 Refinery
Lab ID: 1008924-02

Client Sample ID: TW-42
Collection Date: 8/20/2010 10:40:00 AM
Date Received: 8/24/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/25/2010 5:28:28 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/25/2010 5:28:28 PM
Surr: DNOP	119	86.9-151		%REC	1	8/25/2010 5:28:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.16	0.050		mg/L	1	8/25/2010 1:52:47 PM
Surr: BFB	102	79.9-117		%REC	1	8/25/2010 1:52:47 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	ND	1.0		µg/L	1	8/25/2010 4:00:36 PM
Toluene	ND	1.0		µg/L	1	8/25/2010 4:00:36 PM
Ethylbenzene	ND	1.0		µg/L	1	8/25/2010 4:00:36 PM
Methyl tert-butyl ether (MTBE)	57	1.0		µg/L	1	8/25/2010 4:00:36 PM
Naphthalene	ND	2.0		µg/L	1	8/25/2010 4:00:36 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 4:00:36 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 4:00:36 PM
Xylenes, Total	ND	2.0		µg/L	1	8/25/2010 4:00:36 PM
Surr: 1,2-Dichloroethane-d4	122	54.6-141		%REC	1	8/25/2010 4:00:36 PM
Surr: 4-Bromofluorobenzene	102	60.1-133		%REC	1	8/25/2010 4:00:36 PM
Surr: Dibromofluoromethane	118	78.5-130		%REC	1	8/25/2010 4:00:36 PM
Surr: Toluene-d8	98.8	79.5-126		%REC	1	8/25/2010 4:00:36 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4920	20.0		mg/L	1	8/27/2010 3:55:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Page 2 of 10

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008924
Project: Thriftway #810 Refinery
Lab ID: 1008924-03

Client Sample ID: TW-41
Collection Date: 8/20/2010 11:36:00 AM
Date Received: 8/24/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/25/2010 6:02:48 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/25/2010 6:02:48 PM
Surr: DNOP	124	86.9-151		%REC	1	8/25/2010 6:02:48 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	8.2	0.50		mg/L	10	8/25/2010 2:21:42 PM
Surr: BFB	125	79.9-117	S	%REC	10	8/25/2010 2:21:42 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	190	10		µg/L	10	8/25/2010 5:19:44 PM
Toluene	ND	10		µg/L	10	8/25/2010 5:19:44 PM
Ethylbenzene	420	10		µg/L	10	8/25/2010 5:19:44 PM
Methyl tert-butyl ether (MTBE)	24	10		µg/L	10	8/25/2010 5:19:44 PM
Naphthalene	43	20		µg/L	10	8/25/2010 5:19:44 PM
1-Methylnaphthalene	ND	40		µg/L	10	8/25/2010 5:19:44 PM
2-Methylnaphthalene	ND	40		µg/L	10	8/25/2010 5:19:44 PM
Xylenes, Total	1400	20		µg/L	10	8/25/2010 5:19:44 PM
Surr: 1,2-Dichloroethane-d4	123	54.6-141		%REC	10	8/25/2010 5:19:44 PM
Surr: 4-Bromofluorobenzene	108	60.1-133		%REC	10	8/25/2010 5:19:44 PM
Surr: Dibromofluoromethane	119	78.5-130		%REC	10	8/25/2010 5:19:44 PM
Surr: Toluene-d8	96.4	79.5-126		%REC	10	8/25/2010 5:19:44 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3880	100		mg/L	1	8/27/2010 3:55:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

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Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008924
Project: Thriftway #810 Refinery
Lab ID: 1008924-04

Client Sample ID: TW-45
Collection Date: 8/20/2010 1:03:00 PM
Date Received: 8/24/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/25/2010 6:37:04 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/25/2010 6:37:04 PM
Surr: DNOP	123	86.9-151		%REC	1	8/25/2010 6:37:04 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.33	0.050		mg/L	1	8/25/2010 2:50:32 PM
Surr: BFB	99.5	79.9-117		%REC	1	8/25/2010 2:50:32 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	ND	1.0		µg/L	1	8/25/2010 5:45:56 PM
Toluene	ND	1.0		µg/L	1	8/25/2010 5:45:56 PM
Ethylbenzene	ND	1.0		µg/L	1	8/25/2010 5:45:56 PM
Methyl tert-butyl ether (MTBE)	300	5.0		µg/L	5	8/27/2010 10:58:57 AM
Naphthalene	ND	2.0		µg/L	1	8/25/2010 5:45:56 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 5:45:56 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 5:45:56 PM
Xylenes, Total	ND	2.0		µg/L	1	8/25/2010 5:45:56 PM
Surr: 1,2-Dichloroethane-d4	124	54.6-141		%REC	1	8/25/2010 5:45:56 PM
Surr: 4-Bromofluorobenzene	103	60.1-133		%REC	1	8/25/2010 5:45:56 PM
Surr: Dibromofluoromethane	121	78.5-130		%REC	1	8/25/2010 5:45:56 PM
Surr: Toluene-d8	98.4	79.5-126		%REC	1	8/25/2010 5:45:56 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4750	40.0		mg/L	1	8/27/2010 3:55:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

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Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008924
Project: Thriftway #810 Refinery
Lab ID: 1008924-05

Client Sample ID: MW-20
Collection Date: 8/20/2010 1:33:00 PM
Date Received: 8/24/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/25/2010 7:11:26 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/25/2010 7:11:26 PM
Surr: DNOP	116	86.9-151		%REC	1	8/25/2010 7:11:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.50	0.050		mg/L	1	8/25/2010 3:19:23 PM
Surr: BFB	108	79.9-117		%REC	1	8/25/2010 3:19:23 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	ND	1.0		µg/L	1	8/25/2010 6:12:09 PM
Toluene	ND	1.0		µg/L	1	8/25/2010 6:12:09 PM
Ethylbenzene	ND	1.0		µg/L	1	8/25/2010 6:12:09 PM
Methyl tert-butyl ether (MTBE)	200	5.0		µg/L	5	8/27/2010 11:25:28 AM
Naphthalene	ND	2.0		µg/L	1	8/25/2010 6:12:09 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 6:12:09 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 6:12:09 PM
Xylenes, Total	ND	2.0		µg/L	1	8/25/2010 6:12:09 PM
Surr: 1,2-Dichloroethane-d4	127	54.6-141		%REC	1	8/25/2010 6:12:09 PM
Surr: 4-Bromofluorobenzene	103	60.1-133		%REC	1	8/25/2010 6:12:09 PM
Surr: Dibromofluoromethane	111	78.5-130		%REC	5	8/27/2010 11:25:28 AM
Surr: Toluene-d8	93.9	79.5-126		%REC	1	8/25/2010 6:12:09 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4190	20.0		mg/L	1	8/27/2010 3:55:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

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Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
 Lab Order: 1008924
 Project: Thriftway #810 Refinery
 Lab ID: 1008924-06

Client Sample ID: TW-46
 Collection Date: 8/20/2010 2:04:00 PM
 Date Received: 8/24/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/25/2010 7:46:00 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/25/2010 7:46:00 PM
Surr: DNOP	120	86.9-151		%REC	1	8/25/2010 7:46:00 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.13	0.050		mg/L	1	8/25/2010 3:48:22 PM
Surr: BFB	97.6	79.9-117		%REC	1	8/25/2010 3:48:22 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	ND	1.0		µg/L	1	8/27/2010 11:52:03 AM
Toluene	ND	1.0		µg/L	1	8/27/2010 11:52:03 AM
Ethylbenzene	ND	1.0		µg/L	1	8/27/2010 11:52:03 AM
Methyl tert-butyl ether (MTBE)	88	1.0		µg/L	1	8/27/2010 11:52:03 AM
Naphthalene	ND	2.0		µg/L	1	8/27/2010 11:52:03 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/27/2010 11:52:03 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/27/2010 11:52:03 AM
Xylenes, Total	ND	2.0		µg/L	1	8/27/2010 11:52:03 AM
Surr: 1,2-Dichloroethane-d4	117	54.6-141		%REC	1	8/27/2010 11:52:03 AM
Surr: 4-Bromofluorobenzene	106	60.1-133		%REC	1	8/27/2010 11:52:03 AM
Surr: Dibromofluoromethane	111	78.5-130		%REC	1	8/27/2010 11:52:03 AM
Surr: Toluene-d8	110	79.5-126		%REC	1	8/27/2010 11:52:03 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4430	40.0		mg/L	1	8/27/2010 3:55:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008924
Project: Thriftway #810 Refinery
Lab ID: 1008924-07

Client Sample ID: TW-47
Collection Date: 8/20/2010 2:28:00 PM
Date Received: 8/24/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/25/2010 8:20:33 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/25/2010 8:20:33 PM
Surr: DNOP	117	86.9-151		%REC	1	8/25/2010 8:20:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/25/2010 4:17:18 PM
Surr: BFB	96.0	79.9-117		%REC	1	8/25/2010 4:17:18 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	ND	1.0		µg/L	1	8/25/2010 7:04:52 PM
Toluene	ND	1.0		µg/L	1	8/25/2010 7:04:52 PM
Ethylbenzene	ND	1.0		µg/L	1	8/25/2010 7:04:52 PM
Methyl tert-butyl ether (MTBE)	18	1.0		µg/L	1	8/25/2010 7:04:52 PM
Naphthalene	ND	2.0		µg/L	1	8/25/2010 7:04:52 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 7:04:52 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 7:04:52 PM
Xylenes, Total	ND	2.0		µg/L	1	8/25/2010 7:04:52 PM
Surr: 1,2-Dichloroethane-d4	124	54.6-141		%REC	1	8/25/2010 7:04:52 PM
Surr: 4-Bromofluorobenzene	112	60.1-133		%REC	1	8/25/2010 7:04:52 PM
Surr: Dibromofluoromethane	118	78.5-130		%REC	1	8/25/2010 7:04:52 PM
Surr: Toluene-d8	93.9	79.5-126		%REC	1	8/25/2010 7:04:52 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	9940	40.0		mg/L	1	8/27/2010 3:55:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008924
Project: Thriftway #810 Refinery
Lab ID: 1008924-08

Client Sample ID: MW-21
Collection Date: 8/20/2010 2:52:00 PM
Date Received: 8/24/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/25/2010 8:54:39 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/25/2010 8:54:39 PM
Surr: DNOP	112	86.9-151		%REC	1	8/25/2010 8:54:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.12	0.050		mg/L	1	8/25/2010 4:46:12 PM
Surr: BFB	95.9	79.9-117		%REC	1	8/25/2010 4:46:12 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	ND	1.0		µg/L	1	8/25/2010 7:31:05 PM
Toluene	ND	1.0		µg/L	1	8/25/2010 7:31:05 PM
Ethylbenzene	ND	1.0		µg/L	1	8/25/2010 7:31:05 PM
Methyl tert-butyl ether (MTBE)	120	1.0		µg/L	1	8/25/2010 7:31:05 PM
Naphthalene	ND	2.0		µg/L	1	8/25/2010 7:31:05 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 7:31:05 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 7:31:05 PM
Xylenes, Total	ND	2.0		µg/L	1	8/25/2010 7:31:05 PM
Surr: 1,2-Dichloroethane-d4	125	54.6-141		%REC	1	8/25/2010 7:31:05 PM
Surr: 4-Bromofluorobenzene	102	60.1-133		%REC	1	8/25/2010 7:31:05 PM
Surr: Dibromofluoromethane	122	78.5-130		%REC	1	8/25/2010 7:31:05 PM
Surr: Toluene-d8	94.7	79.5-126		%REC	1	8/25/2010 7:31:05 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	5520	100		mg/L	1	8/27/2010 3:55:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008924
Project: Thriftway #810 Refinery
Lab ID: 1008924-09

Client Sample ID: TW-49
Collection Date: 8/20/2010 3:17:00 PM
Date Received: 8/24/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/25/2010 9:28:46 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/25/2010 9:28:46 PM
Surr: DNOP	123	86.9-151		%REC	1	8/25/2010 9:28:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	8/25/2010 5:15:09 PM
Surr: BFB	94.5	79.9-117		%REC	1	8/25/2010 5:15:09 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	ND	1.0		µg/L	1	8/25/2010 7:57:29 PM
Toluene	ND	1.0		µg/L	1	8/25/2010 7:57:29 PM
Ethylbenzene	ND	1.0		µg/L	1	8/25/2010 7:57:29 PM
Methyl tert-butyl ether (MTBE)	14	1.0		µg/L	1	8/25/2010 7:57:29 PM
Naphthalene	ND	2.0		µg/L	1	8/25/2010 7:57:29 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 7:57:29 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 7:57:29 PM
Xylenes, Total	ND	2.0		µg/L	1	8/25/2010 7:57:29 PM
Surr: 1,2-Dichloroethane-d4	124	54.6-141		%REC	1	8/25/2010 7:57:29 PM
Surr: 4-Bromofluorobenzene	108	60.1-133		%REC	1	8/25/2010 7:57:29 PM
Surr: Dibromofluoromethane	121	78.5-130		%REC	1	8/25/2010 7:57:29 PM
Surr: Toluene-d8	98.5	79.5-126		%REC	1	8/25/2010 7:57:29 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	8120	40.0		mg/L	1	8/27/2010 3:55:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Sep-10

CLIENT: Animas Environmental Services
Lab Order: 1008924
Project: Thriftway #810 Refinery
Lab ID: 1008924-10

Client Sample ID: TRIP BLANK
Collection Date:
Date Received: 8/24/2010
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	ND	1.0		µg/L	1	8/25/2010 8:24:02 PM
Toluene	ND	1.0		µg/L	1	8/25/2010 8:24:02 PM
Ethylbenzene	ND	1.0		µg/L	1	8/25/2010 8:24:02 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/25/2010 8:24:02 PM
Naphthalene	ND	2.0		µg/L	1	8/25/2010 8:24:02 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 8:24:02 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	8/25/2010 8:24:02 PM
Xylenes, Total	ND	2.0		µg/L	1	8/25/2010 8:24:02 PM
Surr: 1,2-Dichloroethane-d4	127	54.6-141		%REC	1	8/25/2010 8:24:02 PM
Surr: 4-Bromofluorobenzene	109	60.1-133		%REC	1	8/25/2010 8:24:02 PM
Surr: Dibromofluoromethane	123	78.5-130		%REC	1	8/25/2010 8:24:02 PM
Surr: Toluene-d8	96.1	79.5-126		%REC	1	8/25/2010 8:24:02 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: Thriftway #810 Refinery

Work Order: 1008924

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-23516		MBLK									
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-23516		LCS									
Diesel Range Organics (DRO)	5.727	mg/L	1.0	5	0	115	74	157			
Sample ID: LCSD-23516		LCSD									
Diesel Range Organics (DRO)	6.149	mg/L	1.0	5	0	123	74	157	7.11	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		MBLK									
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		LCS									
Gasoline Range Organics (GRO)	0.5544	mg/L	0.050	0.5	0	111	89.5	122			
Sample ID: 2.5UG GRO LCSD		LCSD									
Gasoline Range Organics (GRO)	0.5280	mg/L	0.050	0.5	0	106	89.5	122	4.88	10.5	
Method: EPA Method 8260: Volatiles Short List											
Sample ID: 5ml rb		MBLK									
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 5ml rb		MBLK									
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100ng lcs		LCS									
Benzene	20.92	µg/L	1.0	20	0	105	82.4	116			
Toluene	20.60	µg/L	1.0	20	0	103	89.5	123			
Sample ID: 100ng lcs		LCS									
Benzene	19.41	µg/L	1.0	20	0	97.1	82.4	116			
Toluene	19.22	µg/L	1.0	20	0	96.1	89.5	123			

Qualifiers:

E	Estimated value	II	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Thriftway #810 Refinery

Work Order: 1008924

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SM2540C MOD: Total Dissolved Solids

Sample ID: MB-23551 MBLK Batch ID: 23551 Analysis Date: 8/27/2010 3:55:00 PM

Total Dissolved Solids ND mg/L 20.0

Sample ID: LCS-23551 LCS Batch ID: 23551 Analysis Date: 8/27/2010 3:55:00 PM

Total Dissolved Solids 1009 mg/L 20.0 1000 0 101 80 120

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL

Date Received:

8/24/2010

Work Order Number 1008924

Received by: TLS

Sample ID labels checked by:

Checklist completed by:

Signature

Date

Initials

Matrix:

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

3.1°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record			
Client: <u>Animas Environmental Services LLC</u>			
Mailing Address: <u>1024 E Comanche Farmington, NM 87401</u>			
Phone #: <u>505-564-2281</u>			
email or Fax#: <u>505-324-2022</u>			
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)			
Accreditation ☐ NELAP ☐ Other _____			
☐ EDD (Type) _____			
Date	Time	Matrix	Sample Request ID
8/20/10	1002	H ₂ O	TW-43
	1040		TW-42
	1136		TW-41
	1303		TW-45
	1333		MW-20
	1404		TW-46
	1428		TW-47
	1452		MW-21
	1517		TW-49
		+ Trip Blank	
Date:	Time:	Relinquished by:	Received by:
8/20/10	1615	Chad J.	Dawn Watson
Date:	Time:	Relinquished by:	Received by:
8/22/10	1630	Dawn Watson	Dawn Watson

Turn-Around Time:		☒ Standard ☐ Rush	
Project Name:		Thriftway Refinery TW810	
Project #:		AES 05 0204	
Project Manager:		Ross Kennemer	
Sampler:		Chad Dawson	
On Ice	Yes	File No.	
Sample Temperature	31	HEATING	10022224
Container Type and #	Preservative Type		
1-250 mL 6-40 mL glass	none HCl	1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
2-40 mL glass	HCl	10	
Received by:		Date	Time
Debrah Watson		8/20/10	1615
Received by:		Date	Time
[Signature]		8/24/10	955

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Remediation Service Int'l
4835 Cdt Unit D
Ventura CA 93003
805.644.8382
805.644.8378 FAX
www.rsi-save.com

267242.9

Report Generator Version 1.4

Date of Report: 10/25/2010
Project Name: Thriftway 810 July 2010 Operations Unit 2
Unit ID: 0
Controller SN: 182
Software version: 844

Assumptions: 20000 Btu/lb
6.2 lb/gallon of gasoline
120 Mole Weight of Extracted VOC
2520 Btu/Cubic Foot of Propane
1000 Btu/Cubic Foot of Natural Gas

Parts/Million by Volume (PPMV) Conversion to Micrograms/Liter (ug/L)
(PPMV/24.055)*AVG. Mole Weight=ug/L

Mass Transfer Equation to Convert to Pounds/Hour:
(ug/L)*(Flow SCFM)*28.3 L/SCF*60 Minutes/Hour*2.2 lbs/Kg*(1/10^9)

Date Range From: 7/1/2010 0:55
Date Range To : 7/31/2010 22:53
Lbs. Removed/Period: 1830.06
Gal Removed/Period: 295.25
SCF Processed/Period 1056033

There are no express or implied warranties for fitness of use or any other purpose of the data contained herein.
See report footnotes for disclaimer details and other technical information relating to calculation procedures.

Footnotes:

RSIs Innovative Approach to Estimating Btu/Hr:

1. Measure alternate fuel usage of engine prior to introduction of process flow
2. Multiply the SCFM flow rate of the alternate fuel (propane or natural gas) by the Btu value to determine energy demand on the engine at static conditions
3. The controller records a "snapshot" of the energy demand at a given RPM and engine manifold vacuum just prior to allowing the process flow to begin
4. The controller adjusts the initial baseline based on engine load or oxygen deficiency as necessary
5. Any drop in energy demand is assumed to be caused by the introduction of the process flow and is displayed as Estimated Btu/hr and recorded accordingly

RSIs Innovative Approach to Estimating PPMV:

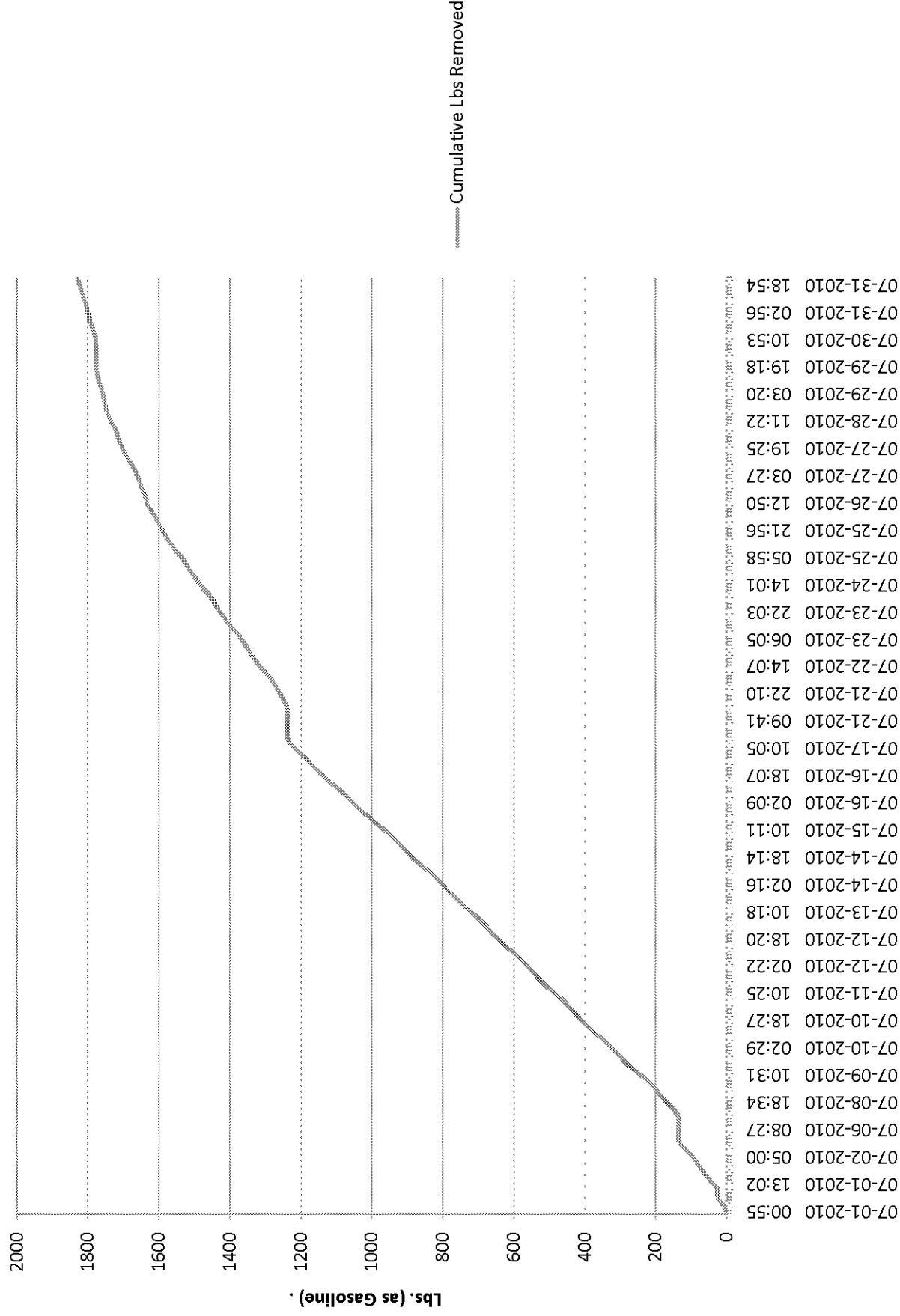
1. The controller completes the Btu/hr calculation as explained above
2. The controller looks at the well flow rate (estimated or measured in SCFM)
3. The controller then computes the average PPMV using the mass transfer equation to solve for PPMV
4. If the flow rate is estimated then PPMV is subject to accuracy of estimated flow and accuracy of the Btu/hr calculation
5. If the flow rate is measured then this PPMV estimate will be relative to actual lab data assuming the flow measurement and the Btu calculations are correct

There are many advantages to using RSIs innovative approach in calculating how much mass was removed from a project in a given time period.
Our method eliminates human calculation error and prevents incorrect or non-calibrated use of field instrumentation and it is a consistent periodic measurement over time which when used properly will reduce costly laboratory analysis.

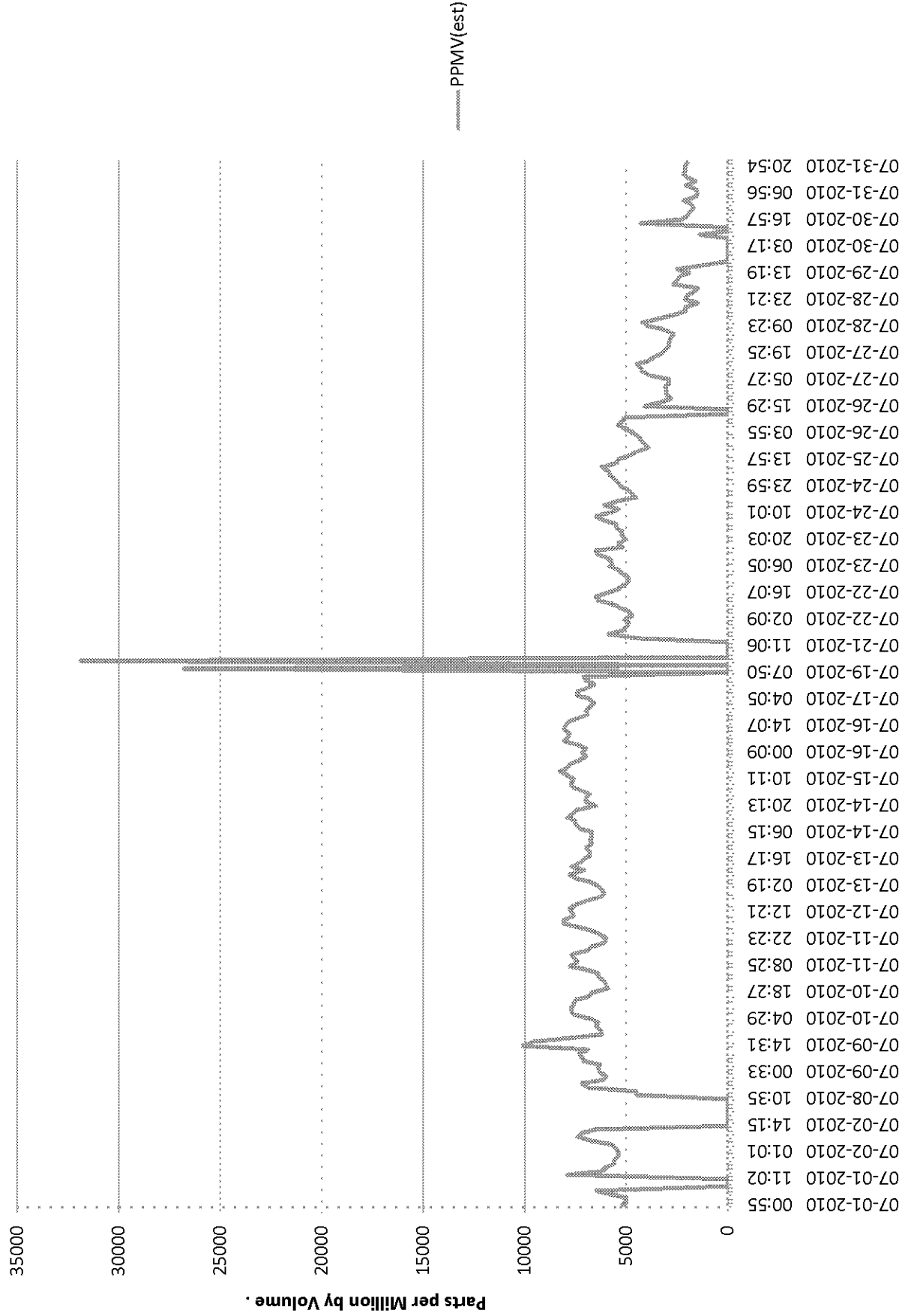
Our estimates of VOC removal have proven to be reasonable when compared to independent lab data. Because the process flow rate and the alternate fuel flow rate measurements are dependent upon proper system operation there are no expressed or implied warranties of fitness of use for any purpose when using this report or the data contained herein.

Please do not hesitate to contact RSI 1-800-368-8685 if you should have any questions or require further information

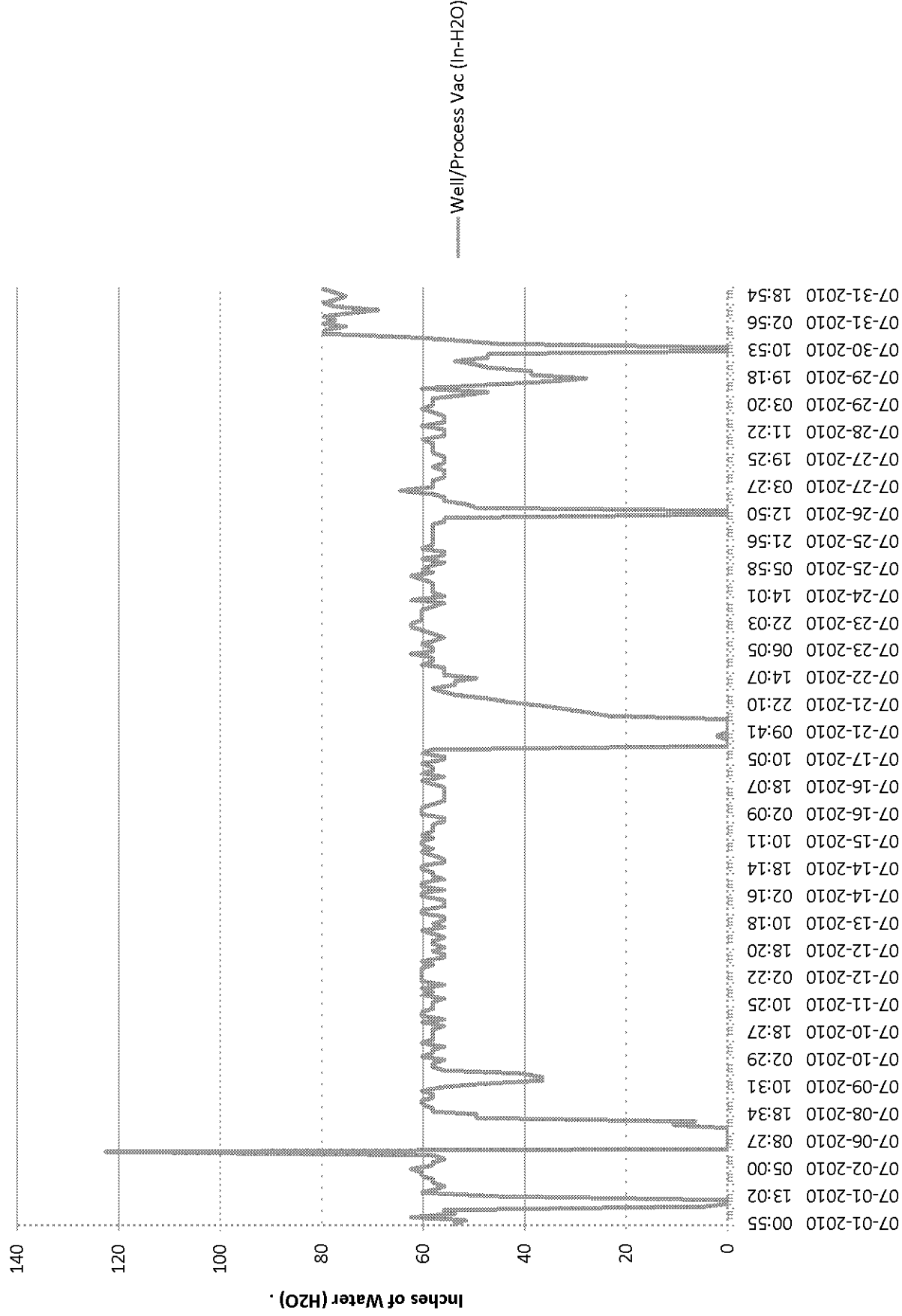
Engine SVE - Lbs. Removed Over Time-BTu/Hr Approach



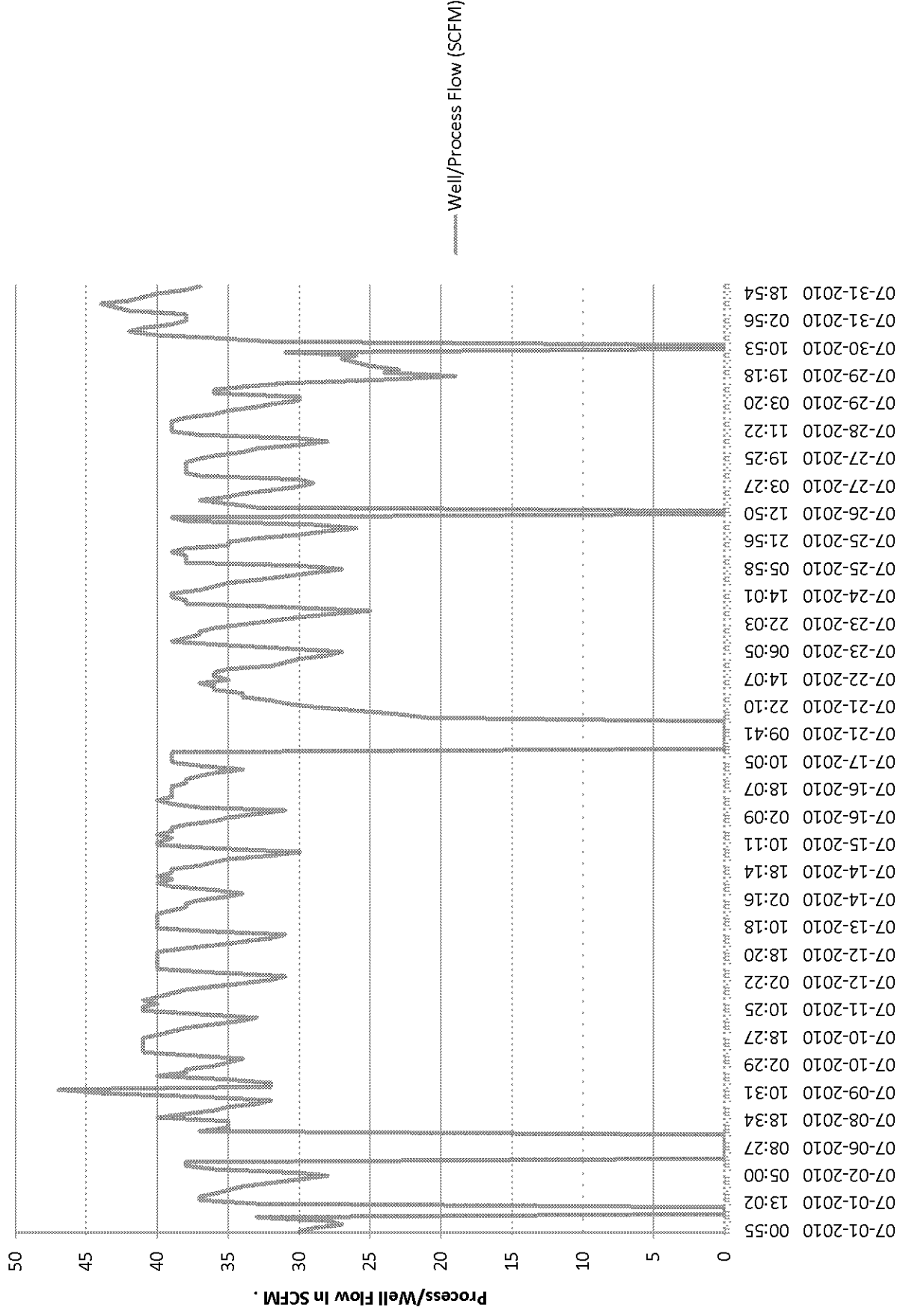
Engine SVE - Estimated ppmV Over Time



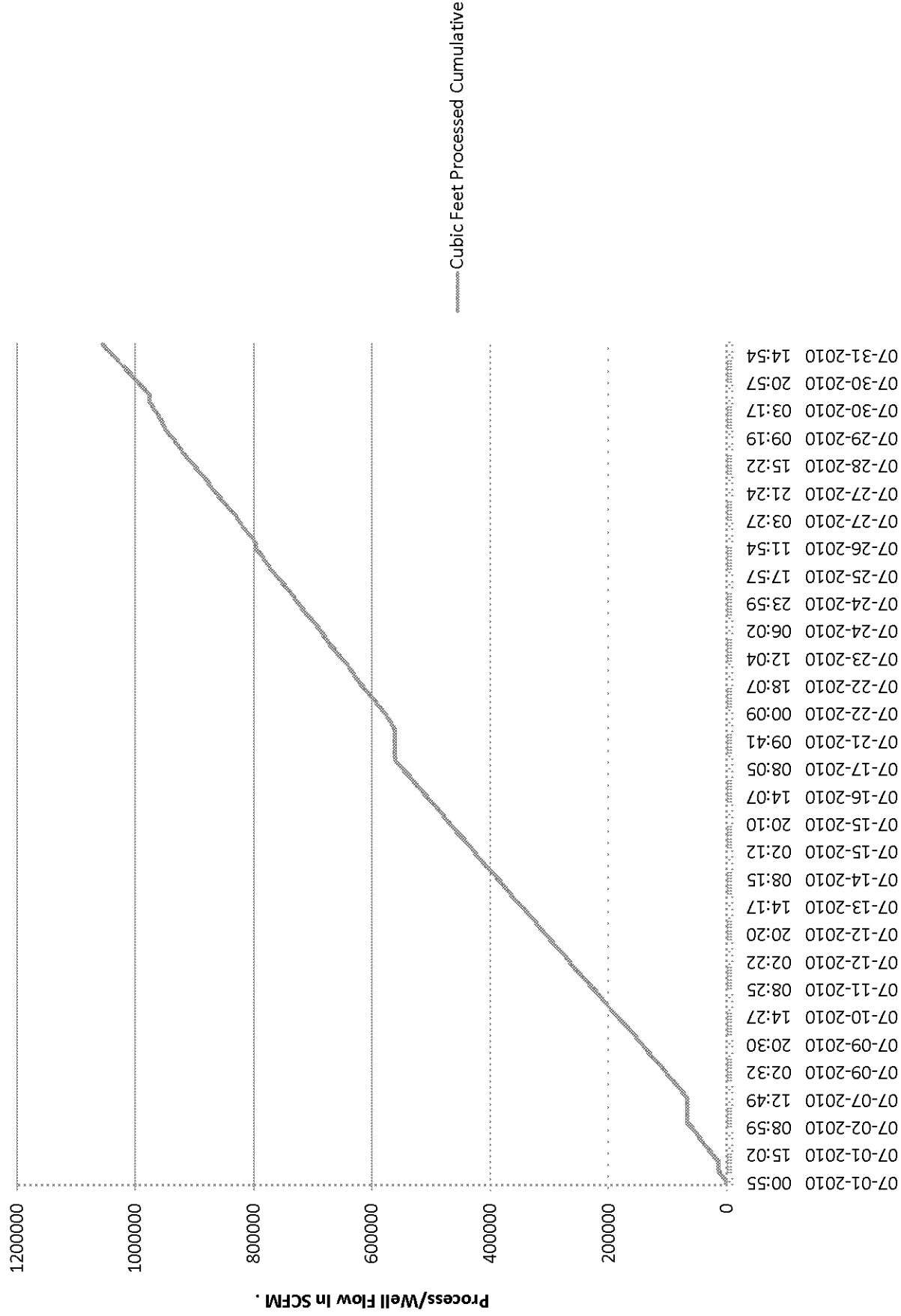
Engine SVE - Well/Process Vacuum Over Time



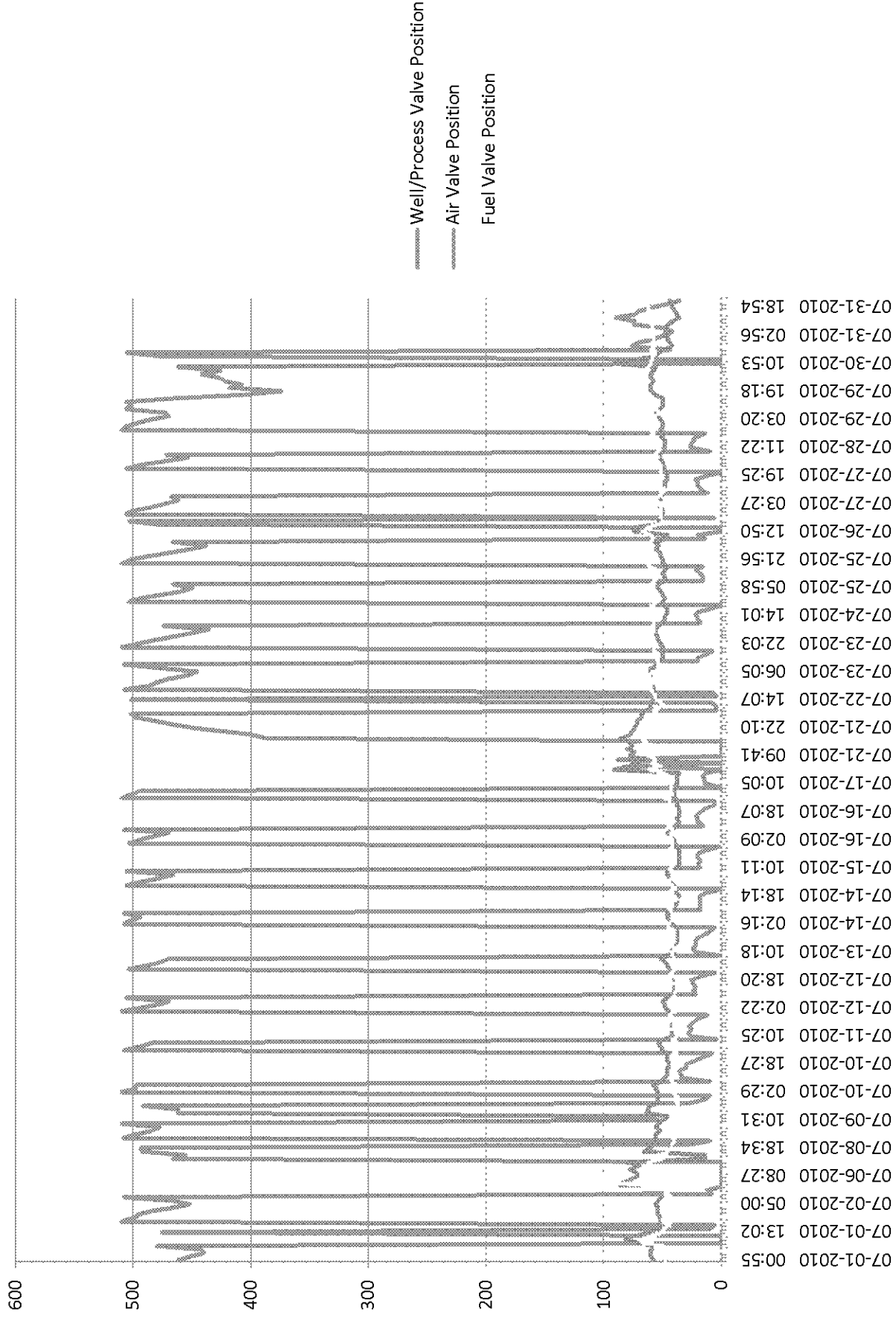
Engine SVE - Well/Process Flow Over Time



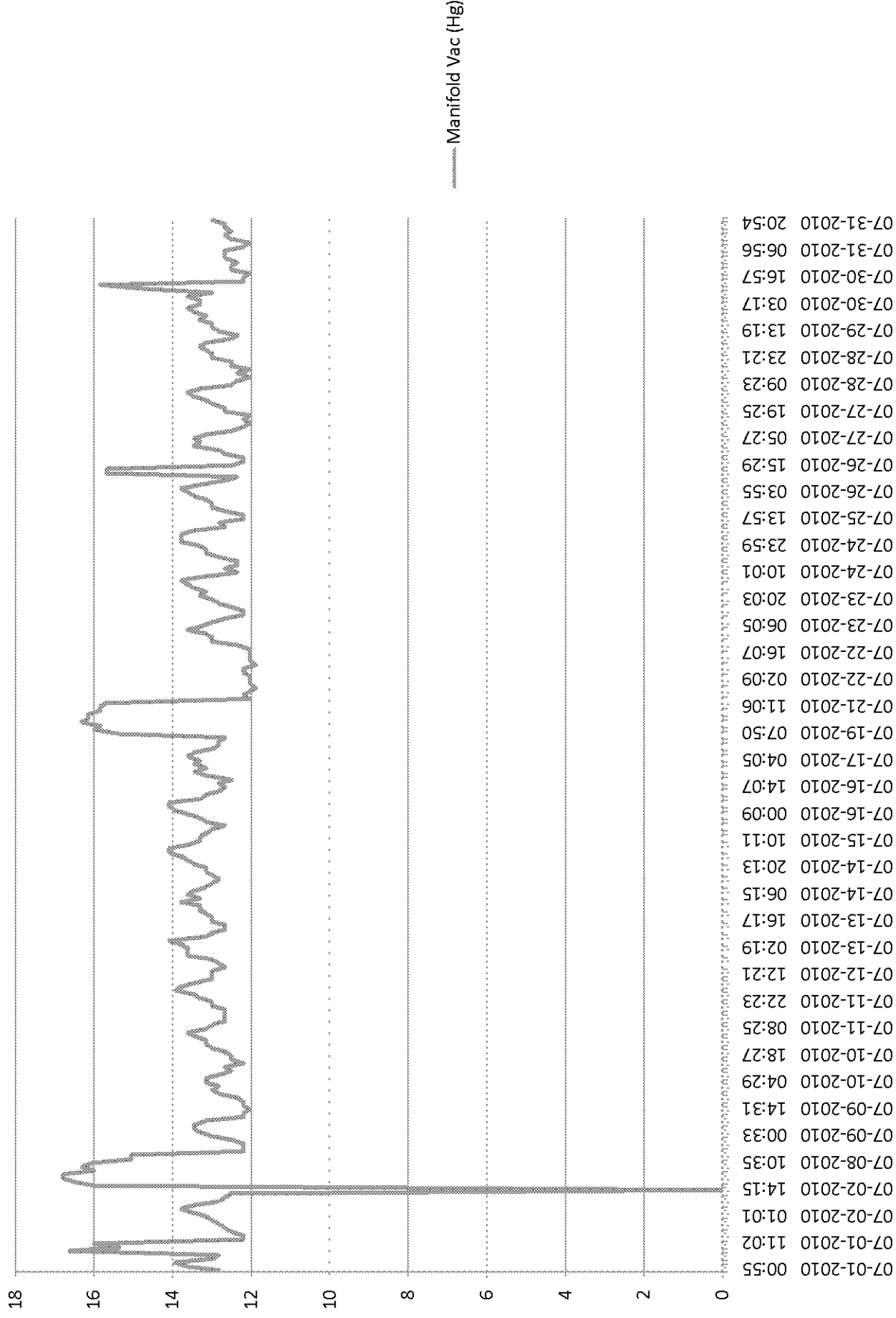
Engine SVE - Cumulative Process Flow in SCFM Over Time



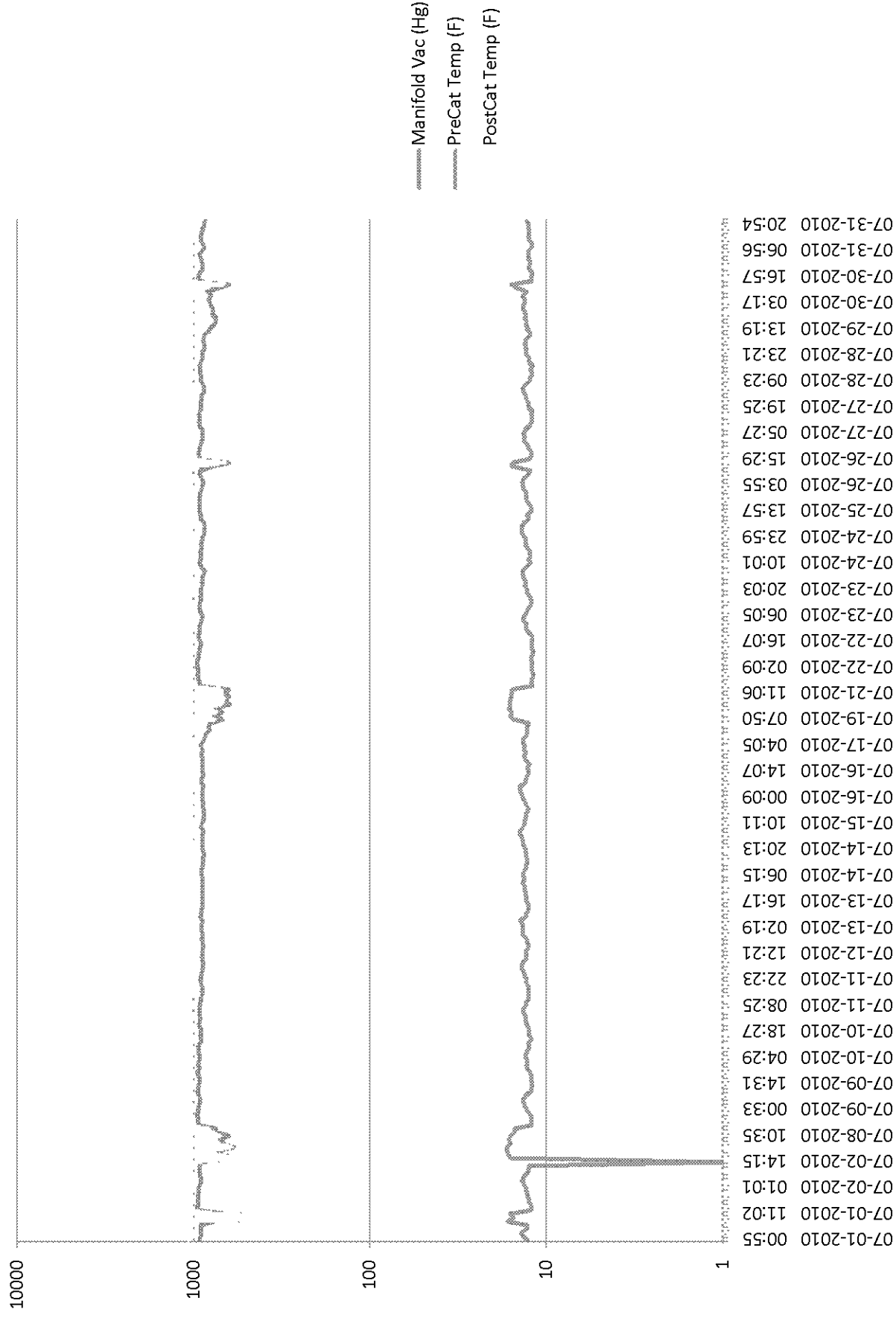
SVE Engine - Air, Fuel & Well Valve Positions Over Time



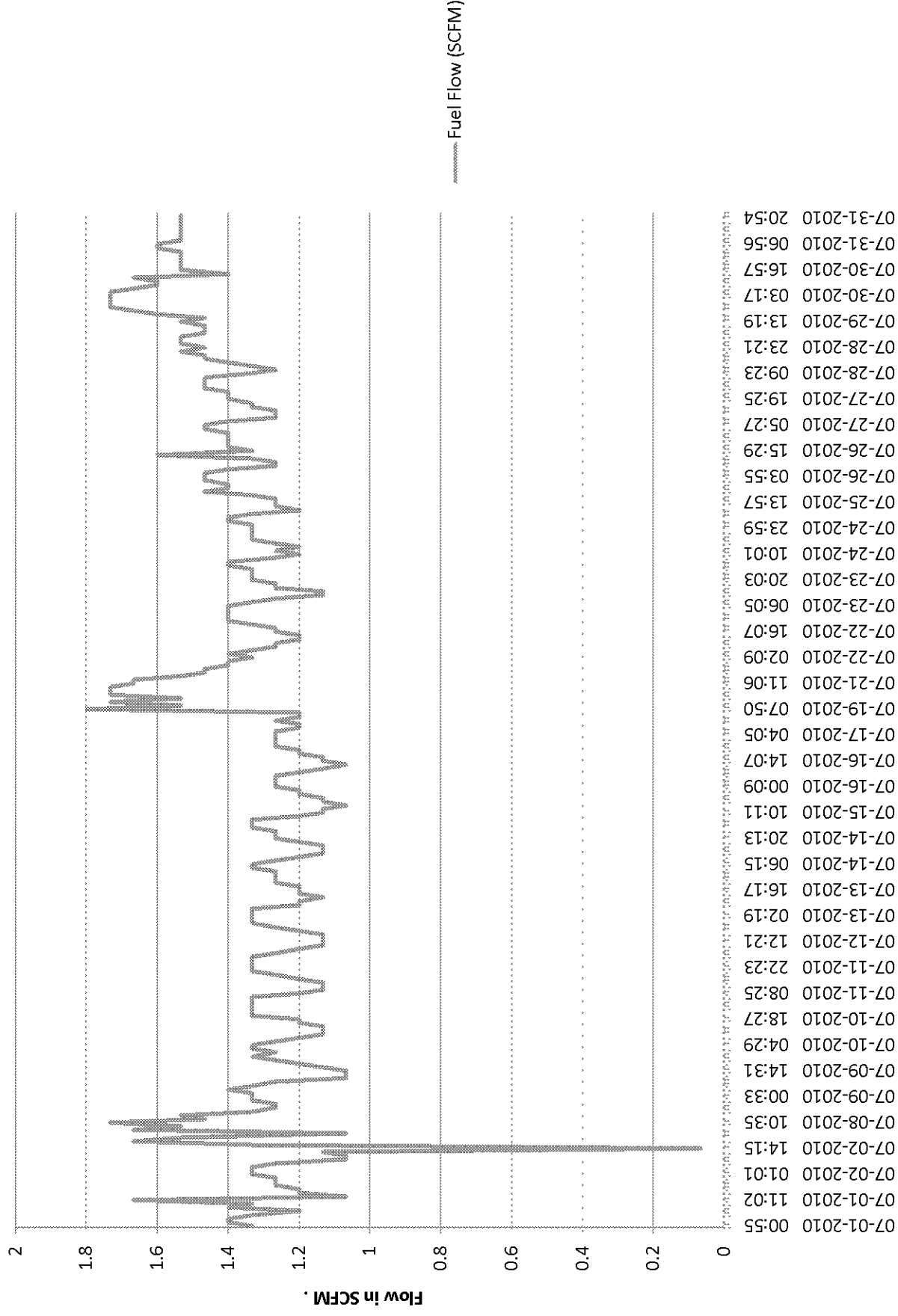
SVE Engine - Manifold Vacuum Over Time



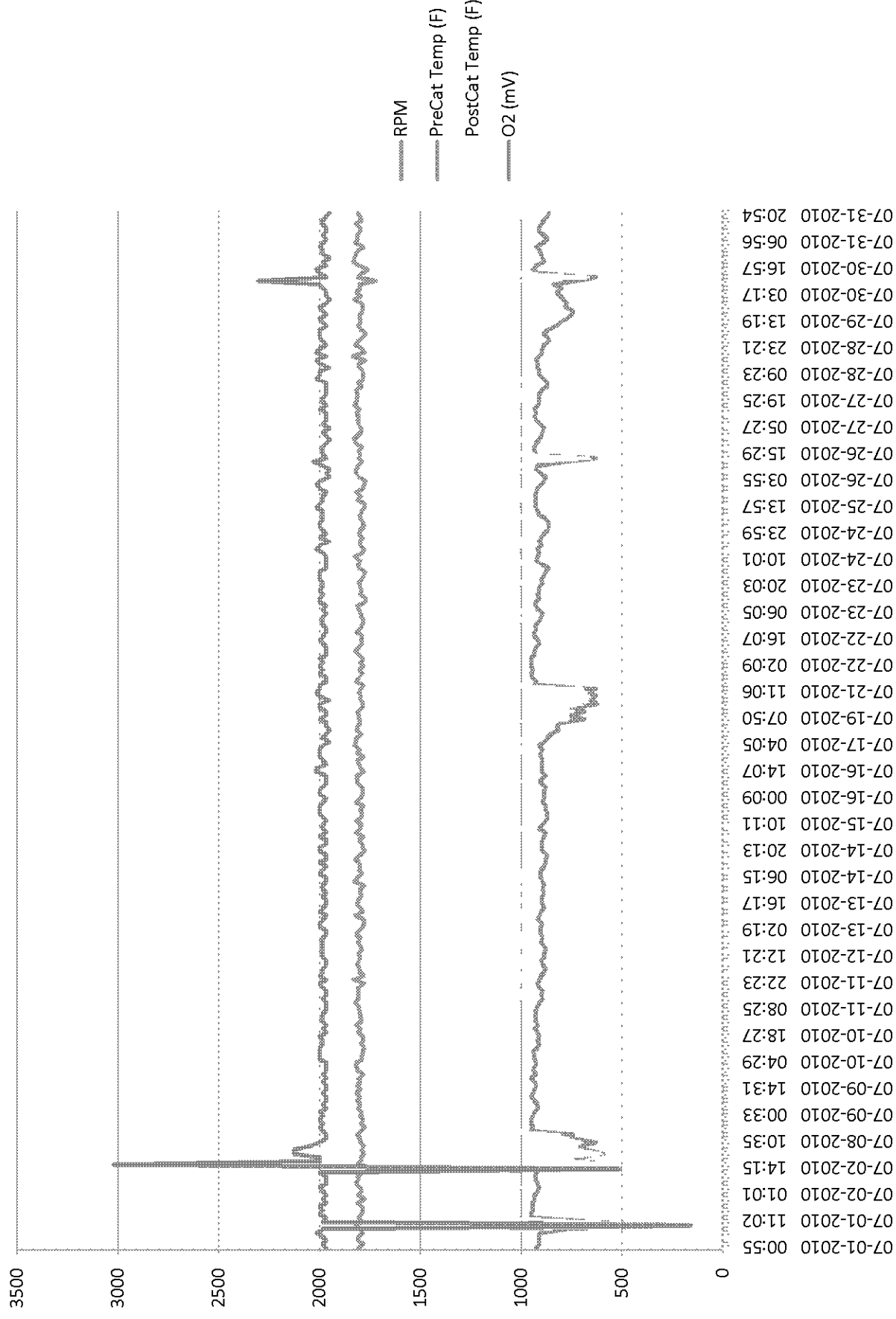
SVE Engine - Pre- & Post-Cat T, Manifold Vacuum Over Time

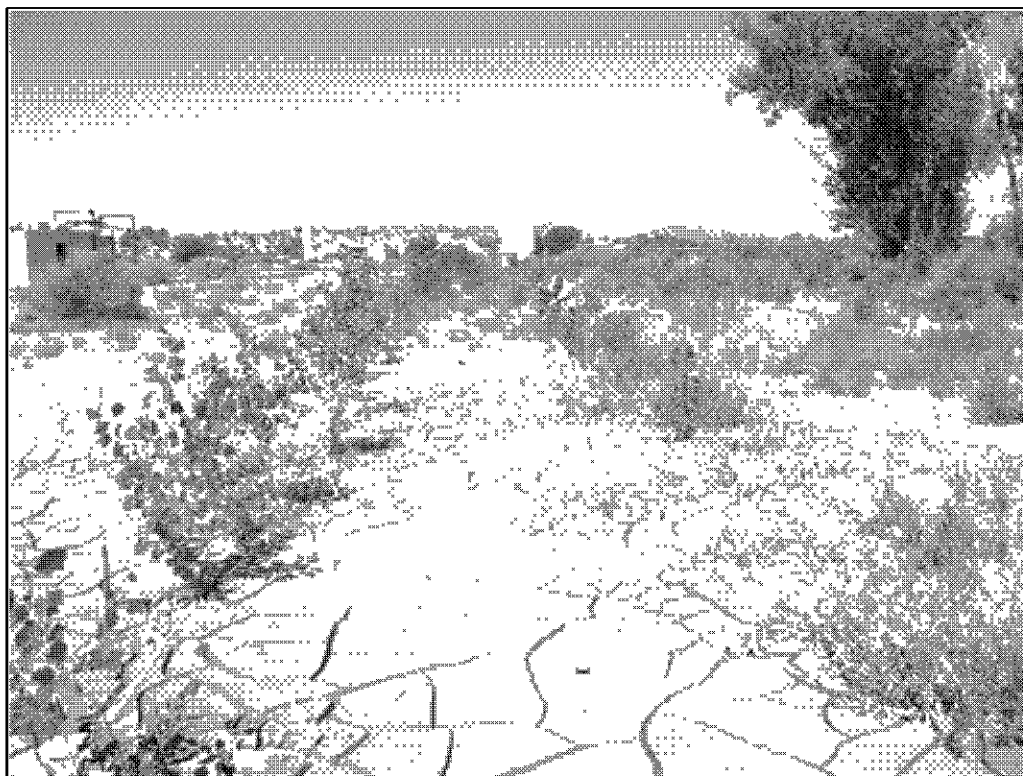


SVE Engine - Alternate Fuel Flow Over Time

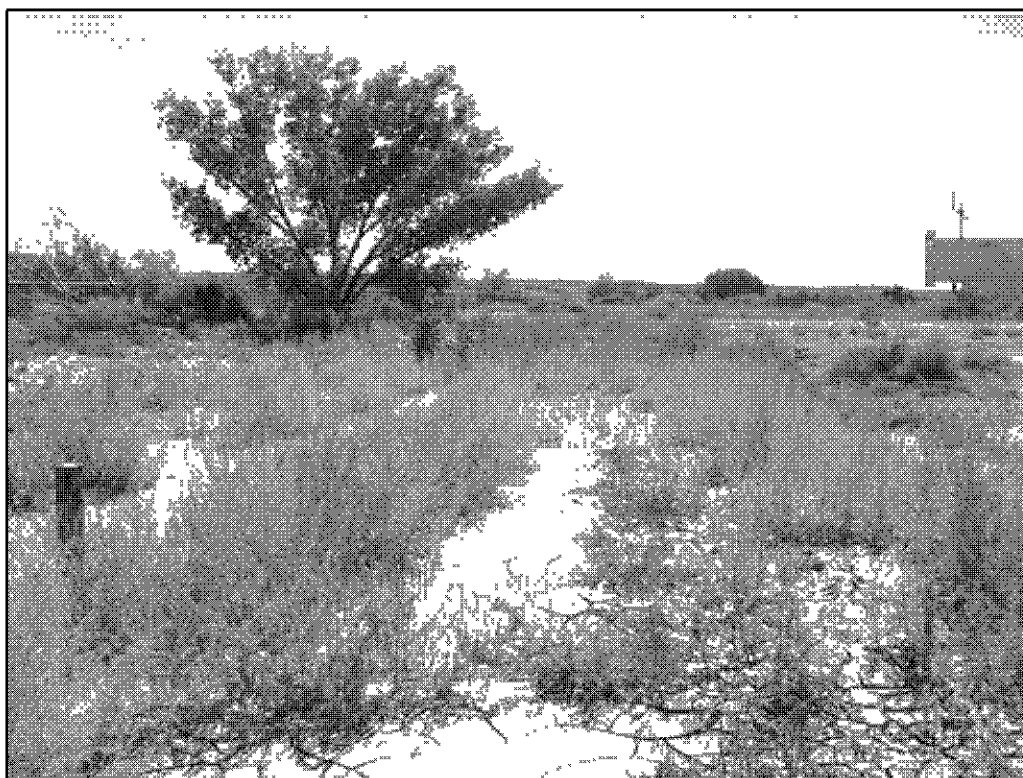


SVE Engine - RPM, O2 and Pre/Post Cat Temperatures Over Time





1. Facing west across tree farm, photo taken after flash flood on August 1, 2010.



2. Facing east across tree farm, no noticeable damage from flash flood.



3. Close-up of hybrid poplar following flash flood.



4. Flash flood reduced the need for constant irrigation.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

6241 Comanche Farmington NM 87401

Te (505) 864-2281 Fax (505) 324-2072

Project: Groundwater Monitoring

Site: Unitway #810 Refinery

Location: Bloomfield, New Mexico

Tech: Chad Davidson

Project No.: AES 050204

Date: 8-18-10

Time: 0900 - 1600

Form: 1017

Well ID.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-1	0920	---	50.64	---	
TW-2	0925	---	28.88	---	
TW-3	0929	---	27.95	---	
TW-4	0933	---	19.12	---	
TW-5	0938	---	25.49	---	
TW-6	0942	---	24.73	---	
TW-7	0952	---	22.14	---	
TW-8	1003	---	9.72	---	
TW-9	1009	---	12.30	---	
TW-10	1013	---	12.52	---	
TW-11	1029	---	18.04	---	
TW-12	1039	---	22.39	---	
TW-13	1044	20.77	21.15	0.38	
TW-14	1033	17.01	17.03	0.02	
TW-15	1100	---	13.21	---	
TW-16	1019	---	11.45	---	
TW-17	1104	---	10.21	---	
TW-18	1036	---	16.31	---	
TW-19	1051	---	17.06	---	
TW-20	1108	---	---	---	Attached to PSI unit
TW-21	---	---	---	---	Damaged by Demo.
TW-22	1120	14.74	15.01	0.27	
TW-23	1107	---	8.94	---	
TW-24	1128	---	11.09	---	Strong odor
TW-25	1134	14.00	14.39	0.39	
TW-26	1142	15.75	16.75	1.00	
TW-28	1148	15.12	16.09	0.97	
TW-29	1357	9.19	9.69	0.55	
TW-30	1348	---	5.99	---	
TW-31	1343	---	6.98	---	
TW-32	1320	9.00	10.18	1.18	
TW-33	1353	12.81	12.99	0.18	
TW-34	1515	---	20.10	---	

We measured with RECK over level or K&G interface tape, discontinuated between each well measurement.

MONITORING WELL SAMPLING RECORD

Monitor Well No. TW-12

Site: Highway 48'S Refinery
Location: Blanco Co, New Mexico

Armas Environmental Services
624 E. Comanche Farmington NM 87401
Tel: (505) 564-2281 Fax: (505) 321-7022

Tel: 302.561.2291 Fax: 302.561.3211

Project No.: AES GC20-1

Arrival Time: 12:25 PM

Abstract

H₂O_x EL_x H₂ **246.40**

Total Well Depth (ft) 2' 0"

Time: 07:34:19 - 08:00:00 **Person at Console:** [redacted] **Telephone:** 214-611-0111

Time: 1:51:43 Action prior to jumping main

Time. 1965. Boston after a winter snowstorm.

D.T.W.: _____ Thickness: _____ Time: _____

Water Quality Parameters - Recorded During Well Purgings									
--	--	--	--	--	--	--	--	--	--

[illegible]

Analytical Parameters (include analysis method and number and type of sample containers)	
---	--

-For VOCs, GRO, BRO, MNC per EPA Methods 8260/8160 (6-40 ml. Water: 5 w/ FCI preserve and 1 w/ on preserve)
Anions per EPA Method 800.0 TDS: 1-2% mL plastic w/ no preserve)

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Coolers:
Chain of Custody Record Complete:

Analytical Laboratory: Pal Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: K&K Water Level & K&K Interface Level, YSI Water Quality Meter

Notes/Comments:

[illegible]

[illegible]

revised: 2010-03

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-14

Airways Environmental Services

[illegible]

THE UNIVERSITY OF CHICAGO

Site: T-1 (T-1000) 1000' E of T-1000

Location: Hunting, New Mexico

Project: CHINA, HONG KONG, AND TAIWAN

Sampling Technician: David Dusen

Purge / No Purge	Purge

Well Diameter (in): 2

Initial D.T.W. (in): _____ Time: _____

Contin D.T.W. (ft): _____ Time: _____

Final D.T.W. Inc. Date:

NATP Program		DTP	D.W.
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

Project No.: 430302-12

Date: 3/26/2014

Arrival time: 4:45

Air Tennis:

TOC File: JH: 5/1/2005

Total Well Depth: ft:

[illegible]

^a The number of subjects who were included in each group was determined by the number of subjects who completed the study. The number of subjects who were excluded from each group is shown in parentheses.

Journal of Interpersonal Violence

Thickness: 0.02 Time: 0.33

Water Quality Parameters - Recorded During Well Purging

[illegible]

Analytical Parameters (include analysis method and number and type of sample containers)

For VOCs, GRC, DRO, MHC per EPA Method 8260-8315 (6-10 mL Vials: 5 w/ HCl preserved and 1 w/ no preserve)
Aromatics per EPA Method 8000-TT51-250 mL vials w/ no preserve)

Disposal of Purged Water:

Collected Samples Stored on Ice in Cooler:

Chain of Custody Record Complete:

Analytical Laboratory; Soil Forensic and Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Koax Water Level or Reck Interfaced Level YSI Water Quality Meter
and New Oriskany Bar

Notes/Comments:

*r*² = 0.90; $P < 0.001$

Monitor Well No: TW-19

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

D.T.W.: _____ Thickness: _____ Time: _____

[illegible]

Full VOCs, GRO, DRO, MRO per EPA Method 8260-3015 (G-40 vials, 5 w/ HCl preserve and 1 w/ no preserve)
Anions per EPA Method 300.0, TDS (1-250 mL plastic w/ no preserve)

Equipment Used During Sampling: Kock Water Level or Kock Interface Level YSI Water Quality Meter
and New D-2000a Bathy

Notes/Comments: *Shade*

[illegible]

Received: 08-10-09

Animas Environmental Services

02: = Commercial, Fairings: N218/40
 1. 2005-2011 Fax: (503) 324-2822

Project No.: AES 09074

Date: _____

Arrival Time: 1:47:

Air Temp: _____

T.O.C. Elev. (ft): 3451.94

Total No Depth (ft)

[illegible]

CHERRY 100'S TO AUGUST 1997

Abstract

Thickness: 1.66 Time: 1.42

[illegible]

*H VOCs, GRO, ORG, MKD per EPA Methods 8260/8015 (6.40 ml. Vols. 1 w/ HCl preserve and 1 w/ no preserve)
Anions per EPA Method 300.0 (100 ml. sample w/ no preserve)

Equipment Used During Sampling: Knox Water Level or K&K Interface Level, YSI Water Quality Meter
and New Disposable Bait

Notes/Comments:

Animals Environmental Services

Monitor Well No: TW-28

624 F. Community, Farm & City 3/4/01
16 (1905) 564-2281 - 100, 500, 125-2122

Site: 17mhz; Alt.: 60°35'

Project No. 63-1144

Location: Bloomfield, New Mexico

Date: 4/2/2017

Project: Groundwater Monitoring and Sampling

Arrival Time: 1:11:16

Sampling Technician: Cheryl Decker

Air Temp:

Purge : No Purge: Purge

T.O.C. Day Off R.A.D. ✓

Well Diameter (in): 2

Total Well Depth (ft):

Initial D.T.W. (ft): _____ Time: _____ (taken at initial straining of 1st weld)

Confirm D.T.W. (ft): _____ Time: _____ Taken prior to pumping and?

Final D.T.W. (H): _____ Time: _____ (taken after sample collection)

If NAPL Present: D.T.P.: 15.12 D.T.W.: 12.04 Thickness: 6.74 Time: 148

Water Quality Parameters - Recorded During Well Purging

[illegible]

Analytical Parameters (include analysis method and number and type of sample containers)

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (5 40 ml vials: 5 w/ HCl preservative and 1 w/ no preservative)
 Amino per EPA Method 8010, 1 LGS1-250 ml plastic w/ no preservative

Disposal of Purged Water:

Collected Samples Stored on Ice in Cooler:

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Rock Water Level or Rock Interface Level, VS Water Quality Meter
and New Disposable Sailer

[illegible]

Animas Environmental Services

621 E. Commerce, Fairbanks, Alaska 99701
Tel. (907) 454-7781 Fax (907) 324-2322

Project No.: AFS 050204
Date: 8/18/16
Arrival Time: 13:45
Air Temp: _____
C. Elev. (ft): 544.87
Well Depth (ft): _____
(taken at water gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
Thickness: 0.55 Time: 15:04

Water Quality Parameters - Recorded During Well Purging

[illegible]

Analytical Parameters (include analysis method and number and type of sample containers)

Fed VOCs, GRO, DRO, MRO per EPA Method 8260B (5 GC 40 mL Vials; 5 w/ HCl preservative and 1 w/o preservative)
Anion s per EPA Method 309.0 (1LIS; 1 250 mL plastic w/o preservative)

Disposal of Purged Water:

Collected Samples Stored on Ice in Cooler:

Chain of Custody Record Complete

Analytical Laboratory: Isotopes Environmental Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Kongs Water Level or Kongs Interface Level, YS Water Quality Meter
and New Disposable Bait

[illegible]

Armas Environmental Services

621 - Commerce Farmington NM 87401
147-505-561-2781 FAX 147-505-321-2022

Project No.: AES 15026

Onke

And Time

Air Temp:

Table of Contents

Total Well Depth (ft):

Time:

Findings

0.1

Thickness: 1/4" Time: 24

[illegible]

Full VOCs: GRO, DRO, MRO per EPA Method 8260, 2015 (6-40 mL vials, 5% HCl preserve and 1 wt % preserve)
Anions per EPA Method 300.0, TDS1-250 mL vials, 2% preserve

Equipment Used During Sampling: Keck State Lake or Keck Intermediate Lake YSI Model Quality Meter
and New Disposable Bag

revised: 05-10-03

[illegible]

nov 15 09 22:10:09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-36

Animus Environmental Services

[illegible][illegible]

Site: _____

Project No.: 44-38861-1000

Location: Bigonfield, New Mexico

Date:

Project: Groundwater Monitoring and Sampling

Arrival Time: 5:30

Sampling Technician: Chaitanya

 $A_i \cdot T_{emp}$

Purge / No Purge	Price
1	1
2	2
3	3
4	4
5	5
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90	90
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92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

T.O.C. Elev. (ft): 311.9'

Well Diameter (in): 2

Total Well Depth (ft): 20.25

Initial D.T.W. (ft): _____ Time: _____

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

Confirm D.T.W. (ft) Time

Edison 015-3 (Aug. 1900)

Final O.T.W	Time
100	100

1. 2010年10月1日起，凡在中华人民共和国境内销售货物或者提供加工、修理修配劳务以及进口货物的单位和个人，均应按照《中华人民共和国增值税暂行条例》及实施细则缴纳增值税。

If NAPL Present: D.T.P.: 3.10 D.T.W.: 12.18 Thickness: 6.08 Time: 1983

Water Quality Parameters - Recorded During Well Purging

[illegible]

Analytical Parameters (include analysis method and number and type of sample containers)

For VOC: GRO, DRO, MRO per EPA Method 8260-2015 (8-40 mL Vials, 5 wt % ICI preserved and 5 wt % no preserved)
Anions per EPA Method 8000.0, HDSi-1-250 mL, 5.43% wt % no preserved

Disposal of Pumped Water:

Collected Samples Stored on Ice in Cooler.

Chain of Custody Record Complete.

Analytical Laboratory: Institute for Chemical Analysis, Laboratory, 2200, 1000, 1000, 1000

Equipment Used During Sampling: Acoustic Water Level or K&K Interface Level, YSI Water Quality Meter and Nalgene Disposable Buret

Notes/Comments:

Arinas Environmental Services

TW-37

[illegible]

Project No.: AES C502114

Date: 2. 9. 2014

Arrival Time: 14:00

Air Temp: 52°

T.O.C. Elev. (ft) 322.50

Total Well Depth (ft):

Time: 0.76 (8-18-78) [REDACTED]

Time: 14:45 Taken over to during read

Time: 5:27 Station after sample collection:

D.T.W.: _____ Thickness: _____ Time: _____

[illegible]

Flu VOCs, GRO, DRG, VRO per EPA Method 8210-4015 (6-40 µL Vials, 5 wt % HCl preservative and 1 wt % no preservative)
Anions per EPA Method 8000-1 (401-250 mL plastic sample bottles)

Chain of Custody Record Complete:

Analytical Laboratory: Hal Freeman/Porta Analytics Laboratory, Albuquerque, NM

Equipment Used During Sampling: Keck Water Level or Keck Interface Level YSI Water Quality Meter and New Disposable Boile

Notes/Comments:

Animals Environmental Services

Monitor Well No: TW-39

[illegible]

Site: _____

Project No. 4E3 07024

Location: Skyline, New York

Chemical structure of the 1,2,3,4-tetrahydro-1,4-benzodioxine derivative, showing a benzene ring fused to a six-membered ring containing an oxygen atom. A side chain is attached to the benzene ring, consisting of a methylene group, a chiral center (marked with an asterisk), and a terminal group containing a carbonyl and a hydroxyl group.

Project: Gro. Review Monitoring and Sampling

Arrival Time: 12:30 PM

Sampling Technician: * *

Air Temp: 50°

Purge: No Purge: Purge

T.O.C. Elev. (ft): 4139.01

No	Diameter (in)
1	0.000
2	0.000
3	0.000
4	0.000
5	0.000
6	0.000
7	0.000
8	0.000
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92	0.000
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94	0.000
95	0.000
96	0.000
97	0.000
98	0.000
99	0.000
100	0.000

Total Well Depth (ft):

Initial D.T.W. (U) 3.47

Time: 1237 (8-14-15) (taken at initial diagnosis of all birds)

Confirm D.T.W. (M) 7.35

Time: 312 (taken prior to preging well)

Final D T.W. (11) 2.54

Time: 1329 (taken after sample collection)

INAPL Person: D.T.P.:



Thickness:

The diagram illustrates the experimental setup. A participant is seated at a table, looking at a video screen. A camera is positioned above the screen. A target is placed on the table. A ruler is placed on the table. A scale bar is shown at the bottom right.

Water Quality Parameters - Recorded During Well Purging

[illegible]

Analytical Parameters (include analysis method and number and type of sample containers)

F. ILVOCs, GRO, DRO, MRO per EPA Method 8260/8215 (0-40 mL Vials, 5 uL HI; preserve and 1 w/ no preserve)
 Anion per EPA Method 300.0 (105) (250 mL, pack w/ no preserve)

Disposal of Purged Water:

Collected Samples Stored on Ice in Cooler:

Chain of Custody Record Complete:

Analytical Laboratory: Hal Fouriermerita Analysis Laboratory, Alouquerque, N.Y.

Equipment Used During Sampling: Rock Water Level or Rock Pressure Level YSI Water Quality Meter

Abstract

Notes/Comments:

Antas Environmental Services

Chemical structure of the 1,2,3,4,5,6-hexachlorocyclohexane derivative, showing a cyclohexane ring with six chlorine atoms and a side chain containing a carbonyl group and a methyl group.

Site: Monterey - Monterey

Project No.: A-98067

Lactin:

Date: 4-5-88

Project: Groundwater Monitoring and Sampling

Abstract

Sampling Technician:

A. A. XXXX

Air Temp:

Purge, No Purge

T.O.C. Eval. 11/1/88

Wp Diameter (in):

Total Well Depth (ft):

Initial O.L.W. (ft): _____ Time: _____

Time: (Approx. 10-15 minutes)

Confirm D.T.W. (lt): _____ Time: _____

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[illegible]

NAPL Present: D. I. # 4 50 O.T.W.

O.T.W.: 3.48 Thickness: 0.38 Time: 4.5

[illegible]

1. H. VOCs, GAO, DRO, MRO per EPA Method 8260-8015 (6-40 ml. Vials; 5 w/ HCl preserve and 1 w/ no preserve)
 Aqueous per EPA Method 300.6, 115/1.250 ml. plastic w/ no preserve

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: Hall Environmental Analysis Laboratory Aberdeen, NJ

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YS Water Quality Meter
and New Disposable Balloons

Notes/Comments:

Animas Environmental Services

e24 L. Comanche Farmington, NM 87401
Tel: (505) 564-2281 Fax: (505) 324-3022

Project No.: AES 050201
Date: 8-28-10
Arrival Time: 11:10
Air Temp: 66°
A.C. Elev. (ft): 5432.77
Well Depth (ft):
Taken at 30" pumping of air
Taken prior to purging well
Taken after sample collection
Thickness: Time:

[illegible]

For VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-10 mL Vials; 5 wt HCl preservative and 1 wt NaOH preservative).
 Antimony per EPA Method 300.0, (100-250 mL headspace vials; no preservative)

Equipment Used During Sampling: K&S Water Level & Reel in Plastic Case YSI Water Quality Meter
300 New Disposable Paper

reviewed by the author

Animals Environmental Services

TV-44

XX

Page 50

Date: 12/1/2011

Arrival Time: 2:00

Air Temp.

Table of Contents

ACKNOWLEDGMENTS

Total Well Depth: 10000'

Time:

[illegible]

Time:

Take an order to sample, for example:

Time:

1000

[illegible][illegible]

Full VOCs: GRO, DRO, MRO per EPA Methods 2260/816 (6-40 m. Vials, 5 w/ HCl preserve and 1 w/ no preserve)
Amo.s per EPA Method 8210, TDS(1-250 mL, plastic w/ no preserve)

Chain of Custody Record Complete:

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter

Dr. Peter Casperson, DVM

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: TW-45

624 E Comanche Farmington NM 87401

Tel: (505) 564-2281 Fax: (505) 324-2077

Site: Thriftway #610 Refinery

Project No.: AFS 050204

Location: Bloomfield, New Mexico

Date: 8-

Project: Groundwater Monitoring and Sampling

Arrival Time: 1240

Sampling Technician: Chad Dawson

Air Temp: 20°

Purge / No Purge: Purge

T.O.C. Elev. (ft):

Well Diameter (in): 2

Total Well Depth (ft):

Initial D.T.W. (ft): 7.06

Time: 1538 (8-18-10) (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 7.06

Time: 1243 (taken prior to purging well)

Final D.T.W. (ft): 7.10

Time: 1257 (taken after sample collection)

If NAPL Present: D.T.P.:

D.T.W.:

Thickness:

Time:

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1248	20.61	5.268	1.96	7.03	225.3	2.5 2.5	
1253	19.38	5.217	1.80	6.99	226.7	1.5	
1258	19.10	5.245	1.84	6.98	224.6	2.5	
1303						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

For VOCs: GRO, BRO, MRO per EPA Methods 8260/8915 (5-40 ml vials; 1 w/ HCl preservative and 1 w/ no preservative)
 Anions per EPA Method 300.0, TDS (1-250 ml; 1 w/ no preservative)

Disposal of Purged Water:

Collected Samples Stored on Ice in Cooler:

Chain of Custody Record Complete:

Analytical Laboratory: Hall Environmental Analysis Laboratory Albuquerque NM

Equipment Used During Sampling: Kock Water Level or Kock Interface Level, YSI Water Quality Meter
and New Decadal + Bufer

Notes/Comments:

Animas Environmental Services

624 E. Commerce Farmington NM 87401
1-800-554-2261 Fax (505) 824-2027

Project No.: AFS 050204
Date: 8-20-05
Arrival Time: 1346
Air Temp: 70°

T.O.C. Elev. (ft): _____
 Total Well Depth (ft): _____
 _____ (1-15-16) (taken at initial gagging of all wells)
 _____ (taken prior to purging well)
 _____ (taken after sample collection)
 Thickness: _____ Time: _____

[illegible]

For VOCs: GPO, DRO, MRO use EPA Method 8260 (15) (6-10 mL Vials, 5 wt % HCl preserve and 1 wt % no preserve)
Anions per EPA Method 8000 (100-1-250 mL plastic w/no preserve)

Equipment Used During Sampling: Kock Water Level or Kock Interface Level, YSI Water Quality Model,
and Neo Disposable Duff

REVISED 03-10-69

Anayas Environmental Services

6248 Commerce Center Drive, Suite N5740
Tulsa, OK 74116-2281 Fax (918) 381-2022

Project No.: AES 080204
Date: 8-26-10
Arrival Time: 1417
Air Temp: ~70°
T.O.C. Elev. (ft):
Well Depth (ft):
(ft) taken at 4' fuel gauging of active
(taken prior to plugging well)
(taken after sample collection)
Thickness: Time:

[illegible]

FLUVOCS: GRG, DRG, MRG per EPA Methods 8260/8015 (6-40 m. vials; 1 w/ HCl preservative and 1 w/ no preservative)
Anions per EPA Method 300.2, TDS (1-250 m. plastic w/ no preservative)

Equipment Used During Sampling: Kach Water Level or Kps Interlaco Level, YSI Water Quality Meter
and New Disposable Baker

Notes/Comments: _____

MONITORING WELL SAMPLING RECORD

Annex Environmental Services

Monitor Well No: TW-48

Abstract

[illegible]

1. 姓名: _____ 2. 性别: _____ 3. 年龄: _____ 4. 职业: _____
 5. 住址: _____ 6. 电话: _____ 7. 电子邮箱: _____
 8. 身份证号: _____ 9. 银行卡号: _____ 10. 其他: _____
 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829

Project No.: ACS 0502C-

Location: B-50072, New Mexico

Date: 5-19-70

Project: Home-water Monitoring and Sampling

Arrival Time: 17:45

Sampling Technician, 1960-1961

Air Temp: 47°

Predicted

T.O.C. Elc. 10

Well Diameter (in):

Total Well Depth (ft):

Initial D.T.W. (ft): 2.18 Time: 1351 (8-18-10) (taken at end of survey of all wells)

Confirm D.T.W. (ft): -2.17 Time: 12:16 (taken prior to purging well)

Final D.T.W. (ft): 2.5 Time: 27.8 Station after sample collection

NAPL Present: D.T.F.: D.T.W.: Thickness: Time:

Water Quality Parameters - Recorded During Well Purging

[illegible]

Analytical Parameters (include analysis method and number and type of sample containers)

FLU VOCs GRO, PRO, MRO per EPA Methods 8250/8015 (6-40 mL Vials: 5 w/ HCl preservative and 1 w/ no preservative)
Anions per EPA Method 300.0, TDS (1-250 mL plastic w/ no preservative)

Disposal of Purged Water:

Collected Samples Stored on Ice in Cooler:

Chain of Custody Record Complete:

Analytical Laboratory: Paul F. Reinhardt Analytical Laboratory, Albuquerque, NM

Equipment Used During Sampling. Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Baiter

Notes/Comments:

Animal Environmental Services

SINCE

Project No.: ASES1502-4

Date: 8-20-10

Project: G-34, Greater Metropolitan Area, 6500000000

Arrival Time: 1309

Sampling Technician. *Clay Dawson*

Air Temp ~ 70

| | | |
|-------|----------|----------|
| Purge | No Purge | |
| | | f = 0.98 |

T.O.C. Elev. Wtr. 499.15

Well Diameter (in): 7.25

Total Well Depth (ft):

Initial D.T.W. (M): 6.01

Time: 15VC (9-14-10) (taken at 10:14 AM)

Confirm D.T.W. (tr): 5.99

Time: 13.1 (taken 20:10, 13.000g well)

Final D.T.W. III. 6-67

Time: 00:00:00.000

INAP: Present: DTP

The Knobs

| Temperature (°C) | Rate of reaction |
|------------------|------------------|
| 0 | 0 |
| 5 | 1.5 |
| 10 | 3.5 |
| 15 | 6.5 |
| 20 | 8.5 |
| 25 | 9.0 |
| 30 | 9.5 |
| 35 | 9.5 |
| 40 | 2.5 |

[illegible]

FLU/CCs, GRC, DRG, MRG per EPA Methods 8260/8315 16 40 mL Vials, 5 w/ HC preservative and 1 w/ no preservative
 Analysis per EPA Method 8000, 125, 1-200 mL plastic w/ no preservative

Disposal of Purged Water:

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete:

Analytical Laboratory: Full-Environments Analysis Laboratory, Albuquerque, NM

Equipment Used During Sampling: Koff Water Level or Koff Interface Level, YSI Water Quality Meter and Flow Dyeable Buoy.

Notes/Comments:

| | |
|---|---|
| MONITORING WELL SAMPLING RECORD

Monitor Well No: <u> MW-21 </u> | Animas Environmental Services

634 E. Comanche, Farmington NM 87401
Tel: (505) 594-2281 Fax: (505) 324-2022 |
|---|---|

| | |
|---|---|
| MONITORING WELL SAMPLING RECORD

Monitor Well No: <u> MW-21 </u> | Animas Environmental Services

634 E. Comanche, Farmington NM 87401
Tel: (505) 594-2281 Fax: (505) 324-2022 |
|---|---|

| | |
|---|---|
| MONITORING WELL SAMPLING RECORD

Monitor Well No: <u> MW-21 </u> | Animas Environmental Services

634 E. Comanche, Farmington NM 87401
Tel: (505) 594-2281 Fax: (505) 324-2022 |
|---|---|

| | |
|---|---|
| MONITORING WELL SAMPLING RECORD

Monitor Well No: <u> MW-21 </u> | Animas Environmental Services

634 E. Comanche, Farmington NM 87401
Tel: (505) 594-2281 Fax: (505) 324-2022 |
|---|---|

| | |
|---|---|
| MONITORING WELL SAMPLING RECORD

Monitor Well No: <u> MW-21 </u> | Animas Environmental Services

634 E. Comanche, Farmington NM 87401
Tel: (505) 594-2281 Fax: (505) 324-2022 |
|---|---|

Site: Thriftway 4810 Rd. Hwy 4
Project No.: A15160254

Site: Thriftway 4810 Rd. Hwy 4
Project No.: A15160254

Location: Bloomfield, New Mexico Date: 4-18-78 3-2070
 Subject: Communist Movement, New Mexico Arrival Time: 1:46 PM 1978

Location: Bloomfield, New Mexico Date: 4-18-78 3-2070
 Subject: Communist Movement, New Mexico Arrival Time: 1:46 PM 1978

Project: Gravelwater Monitoring Site Sampling

Project: Gravelwater Monitoring Site Sampling

Purge / No Purge: ☐ Purge ☒ T.O.C. Elev. (ft): 5128.62

Purge / No Purge: ☐ Purge ☒ T.O.C. Elev. (ft): 5128.62

Well Diameter (in): _____ Total Well Depth (ft): _____

Well Diameter (in): _____ Total Well Depth (ft): _____

Initial D.T.W. (H): _____ Time: _____ (to end of "turn" jumping of all winds)

Initial D.T.W. (H): _____ Time: _____ (to end of "turn" jumping of all winds)

Confirm D.T.W. (H): 3.31 Time: 14.37 (taken prior to phasing well)
Final D.T.W. (H): Time: (taken after normal collection)

Confirm D.T.W. (H): 3.31 Time: 11.23 (taken prior to phasing well)
Final D.T.W. (H): Time: (taken after normal collection)

NAPL Present: Q.T.P. Q.T.W. Thickness: Time:

NAPL Present: Q.T.P. Q.T.W. Thickness: Time:

Water Quality Parameters Recorded During Moll Bugging

Water Quality Parameters Recorded During Moll Bugging

| Water Quality Parameters - Recorded During Well Drilling | | | | | | | | | | | |
|--|------|-------|----------------|------|-------|------------------|------|-------|-------------------------|-------|-------|
| Parameter | Unit | Value | Parameter | Unit | Value | Parameter | Unit | Value | Parameter | Unit | Value |
| Temperature | °C | 15.2 | pH | | 7.8 | Dissolved Oxygen | mg/L | 4.5 | Electrical Conductivity | µS/cm | 120 |
| Turbidity | NTU | 0.5 | Total Hardness | mg/L | 150 | Total Solids | mg/L | 200 | Calcium | mg/L | 80 |
| Iron | mg/L | 0.2 | Manganese | mg/L | 0.1 | Nitrate | mg/L | 5 | Nitrite | mg/L | 0.5 |
| Ammonia | mg/L | 0.1 | Chloride | mg/L | 10 | Sulfate | mg/L | 20 | Fluoride | mg/L | 0.5 |

| Water Quality Parameters - Recorded During Well Drilling | | | | | | | | | | | |
|--|------|-------|----------------|------|-------|------------------|------|-------|-------------------------|-------|-------|
| Parameter | Unit | Value | Parameter | Unit | Value | Parameter | Unit | Value | Parameter | Unit | Value |
| Temperature | °C | 15.2 | pH | | 7.8 | Dissolved Oxygen | mg/L | 4.5 | Electrical Conductivity | µS/cm | 120 |
| Turbidity | NTU | 0.5 | Total Hardness | mg/L | 150 | Total Solids | mg/L | 200 | Calcium | mg/L | 80 |
| Iron | mg/L | 0.2 | Manganese | mg/L | 0.1 | Nitrate | mg/L | 10 | Nitrite | mg/L | 0.5 |
| Ammonia | mg/L | 0.05 | Chloride | mg/L | 50 | Sulfate | mg/L | 30 | Fluoride | mg/L | 0.2 |

| Temp | Conductivity | DO | ORP | PURGED VOLUME |
|------|--------------|----|-----|---------------|
|------|--------------|----|-----|---------------|

| Time | [deg C] | (μ S) | (mS) | (mg/L) | pH | (mV) | (see reverse for calc.) | Notes/Observations |
|------|---------|------------|------|--------|-------|------|-------------------------|--------------------|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 1446 | 21.23 | 16.836 | 1.69 | 2.06 | 234.4 | | | |
| 1452 | | | | | | | 30 | |

Analytical Parameters (include analysis method and number and type of sample containers)

Full Vials, CRO, DRO MRO per EPA Methods 8260/8015 (6-40 mL via 5.0 wt HC preservative and 1 wt no preservative)
Amors per EPA Method 300.0 TDS: 1-250 mL plastic w/ no preservative

Disposal of Purged Water: _____

Collected Samples Stored on Ice in Cooler.

Chain of Custody Record Complete: _____

Analytical laboratories shall perform initial and subsequent analyses at least once every 60 days.

Equipment Used During Sampling: Kock Water Level or Kock Interface Level YSI Water Quality Meter
and Non Disposable Beaker

[illegible]

Animas Environmental Services

Monitor Well No: MW-7

E241. Comanche, Compton: ARZ 934E J
14, 1905) 564 2084 7.45 (1915) 324-2622

Since the time of the first

Project No. 3762-00

Location: Boy's Hill, New Mexico

Date: 2-15-2001

Project: GSA, Nevada Non-Competing or "Stagnant"

Arrival Time: 343

Sampling Technician: Chad Johnson

Air Temp: 30°

Purge / No Purge: _____ Five

T.O.C Elev. (mg/L)

Well Diameter (in): 2.4

Total Well Depth (ft):

Initial D.T.W. (hr) 4.20

Time: 1376.08 sec (in) Pattern: Initial (loading of oil wells)

Confirm D.T.W. (ft): 5.9

Time: 2:44 (taken prior to purging well)

Final D. I. W. (ft) 5.95

Time: 1:50 (before after sample collection)

If NAPL Present: D T P

DTW
The Times
Time

Water Quality Parameters - Recorded During Well Purgings

[illegible]

Analytical Parameters (include analysis method and number and type of sample containers)

For VOCs: GRC, DRG, MRG per EPA Methods 8260/8015 (6-40 mL Vials, 5 w/ HCl preservative and 1 w/ no preservative)
 Aqueous per EPA Method 300.0 (125 mL/250 mL plastic w/ no preservative)

Disposal of Purged Water:

Collected Samples Stored on Ice in Cooler: _____

Chain of Custody Record Complete: _____

Analytical Laboratory: H-1 Environmental Analysis Laboratory, Albuquerque NM

Equipment Used During Sampling: Neck Water Level or Neck Interface Level, YSI Water Quality Meter and New Disposable Burette

Notes/Comments: