SGS

VOLATILE ANALYSIS LOG

Batch ID: VA8820

PH210315

Date: May 17, 2017

Print Analyst Name: Gary Alvarez

Analyst Signature:

Columns: DB624 1.60mx0.25mmx(1.4u)

Method V8260C

Initial Cal. Method MA8806

Standard Data

Lot #	Description	Conc.
VOA2478-55.39	A/B mix	100ppm
VOA2478-56.7	C	100ppm
VOA2478-33.59	F	100ppm
VOA2478-57.23	K	300ppm
VOA2478-36	1/5	50/500ppm

Standard Data

Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: KM Date: 5/18/17

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	A233036A	BCB											Ca	8:10ppm	
	A233036	CC8806-50				24	5				✓		Ca	#6 V, #11 P, #24 SOHABCEK/100ml	
	233037	IB				25	5				✓				
	233038	MB				26	5				✓		Ca		
	233039	BS.				27	5				✓		Ca	SOHABCEK/100ml	
	233040	JC43355-8ms	10089 S2		3	28	5		1X		✓		Ca	20HABCEK/10ml	✓
	233041	JC43355-8msd	✓		4	29	5		1X		✓		Ca	20HABCEK/10ml	✓
	233042	IB				30	5				✓				
	233043	JC43355-12	10089 S2	WTB	1	31	5		1X.		✓		Ca		✓
	233044	JC43355-8	✓	GW	1	32	5		1X		✓		Ca		✓
	233045	JC43355-1	✓	GW	1	33	5		1x		✓		Ca		✓
	233046	JC43355-5	✓	GW	1	34	5		1x		✓		Ca		✓
	233047	JC43355-4	✓	GW	1	35	5		1x		✓		Ca		✓
	233048	JC43355-6	✓	GW	1	36	5		1x		✓		Ca		✓
	233049	JC43355-7	✓	GW	1	37	5		1x		✓		Ca		✓
	233050	JC43355-3	✓	GW	1	38	5		1x		✓		Ca		✓
	233051	JC43355-3	✓	GW	1	39	5/10		10x		✓		Ca		✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

213

Form: OR001-10
Rev. Date: 1/19/16

7.7.2

7

SGS

VOLATILE ANALYSIS LOG

Batch ID: VA8820

Date: May 17, 2017

Print Analyst Name: Gaby Alvarez

Analyst Signature: [signature]

Columns: DB624 (60mx0.25mmx1.4u)

Method V8260C

Initial Cal. Method VA8806

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see pg 213	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 5/18/17

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	A233052	JC43355-2	16089 SL	GW	1	40	10/~~50~~ 1/5	GCA 5/17	50x ~~5x~~		✓	✓	CC		✓
	233053	JC43355-2	V	GW	1	41	9/50	GCA 5/17	5x ~~50x~~		✓	✓	CC		✓
	233054	JC43355-9	V	GW	1	42	5		1X.		✓	✓	CC		✓
	233055	JC43355-10	V	GW	1	43	5		1X.		✓	✓	CC		✓
	233056	JC43355-11	V	GW	1	44	5		1X.		✓	✓	CC		✓
	233057	JC43360-2	16086 BTXMT,VLS	GW	1	45	5		1X.		✓	✓	CC	don't report epa TCL as TICs	✓
	233058	JC43360-3	V	GW	1	46	5		1X.		✓	✓	~~CC~~ RR	✓ [illegible] matrix CCO	✓
	233059	JC43360-4	V	GW	1	47	5		1X.		✓	✓	RR	✓ RR 1X matrix %	✓
	233060	JC43360-5	V	GW	1	48	5		1X.		✓	✓	CC	✓ 8:01 pm	✓

GCA 5/17/17

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-10
Rev. Date: 1/19/16

215

7.7.2 7

Appendix B

Second Quarter 2017 Effluent Air Laboratory Analytical Reports

eurofins

Air Toxics

5/30/2017
Mr. Peter Hollatz
AECOM Environment
4320 Winfield Road

Warrenville IL 60555

Project Name: UTC SER 9110
Project #: 60532451
Workorder #: 1705311

Dear Mr. Peter Hollatz

The following report includes the data for the above referenced project for sample(s) received on 5/16/2017 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-14A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

eurofins | Air Toxics

WORK ORDER #: 1705311

Work Order Summary

CLIENT:	Mr. Peter Hollatz AECOM Environment 4320 Winfield Road Warrenville, IL 60555	**BILL TO:**	Accounts Payable-Warrenville AECOM Environment 4320 Winfield Road Warrenville, IL 60555
PHONE:	630 829-2736	**P.O. #**	74247
FAX:	630-657-6305	**PROJECT #**	60532451 UTC SER 9110
DATE RECEIVED:	05/16/2017	**CONTACT:**	Ausha Scott
DATE COMPLETED:	05/30/2017		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	P1 SVE-EFF C1-051517	Modified TO-14A	3.3 "Hg	15.2 psi
02A	P1 SVE-EFF C2-051517	Modified TO-14A	5.3 "Hg	15 psi
03A	P1 SVE-EFF C3-051517	Modified TO-14A	1.2 "Hg	15 psi
04A	P2 SVE-EFF C4-051517	Modified TO-14A	3.5 "Hg	15.2 psi
05A	P2 SVE-EFF C5-051517	Modified TO-14A	3.9 "Hg	14.9 psi
06A	Lab Blank	Modified TO-14A	NA	NA
06B	Lab Blank	Modified TO-14A	NA	NA
07A	CCV	Modified TO-14A	NA	NA
07B	CCV	Modified TO-14A	NA	NA
08A	LCS	Modified TO-14A	NA	NA
08AA	LCSD	Modified TO-14A	NA	NA
08B	LCS	Modified TO-14A	NA	NA
08BB	LCSD	Modified TO-14A	NA	NA

CERTIFIED BY: Heidi Mayo DATE: 05/30/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-14A
AECOM Environment
Workorder# 1705311

Five 1 Liter Summa Canister samples were received on May 16, 2017. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications. Please note that TO-14A was validated for specially treated canisters, and the use of Tedlar bags for sample collection is outside the scope of the method.

Requirement	*TO-14A*	*ATL Modifications*
Initial Calibration criteria	RSD</=30%	Follow TO-15 requirements of RSD</=30% with two compounds allowed out to </=40%RSD.
BFB absolute abundance criteria	Within 10% of that from previous day	CCV internal standard area counts are compared to ICAL, corrective action when recovery is less than 60%.
Blank acceptance criteria	<0.20 ppbv	<Reporting Limit
Sample Drying System	Nafion Dryer	Multibed hydrophobic sorbent
BFB ion abundance criteria	Ion abundance listed in Table 4 of TO-14A	Follow ion abundance criteria listed in Method TO-15

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.
C - Estimated calculation due to estimated sampling rate.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

eurofins | Air Toxics

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: P1 SVE-EFF C1-051517

Lab ID#: 1705311-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethane	1.1	11	4.6	46
cis-1,2-Dichloroethene	1.1	2.6	4.5	10
1,1,1-Trichloroethane	1.1	49	6.2	270
Trichloroethene	1.1	7.5	6.1	40
Tetrachloroethene	1.1	67	7.7	460

Client Sample ID: P1 SVE-EFF C2-051517

Lab ID#: 1705311-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	1.2	2.1	4.8	8.3
1,1-Dichloroethane	1.2	77	5.0	310
cis-1,2-Dichloroethene	1.2	3.4	4.8	14
1,1,1-Trichloroethane	1.2	150	6.7	800
Trichloroethene	1.2	7.4	6.6	40
Tetrachloroethene	1.2	12	8.3	83

Client Sample ID: P1 SVE-EFF C3-051517

Lab ID#: 1705311-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	1.0	1.1	4.2	4.5
1,1-Dichloroethane	1.0	3.0	4.2	12
cis-1,2-Dichloroethene	1.0	5.2	4.2	21
1,1,1-Trichloroethane	1.0	120	5.7	670
Trichloroethene	1.0	4.5	5.6	24
Tetrachloroethene	1.0	4.0	7.1	27

Client Sample ID: P2 SVE-EFF C4-051517

Lab ID#: 1705311-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

eurofins | Air Toxics

Summary of Detected Compounds
MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Client Sample ID: P2 SVE-EFF C4-051517

Lab ID#: 1705311-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethane	1.2	1.6	4.6	6.5
cis-1,2-Dichloroethene	1.2	2.0	4.6	8.1
1,1,1-Trichloroethane	1.2	25	6.3	130
Trichloroethene	1.2	4.1	6.2	22
Toluene	1.2	2.1	4.3	7.8
Tetrachloroethene	1.2	21	7.8	140

Client Sample ID: P2 SVE-EFF C5-051517

Lab ID#: 1705311-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	1.2	1.6	4.6	6.2
1,1-Dichloroethane	1.2	2.1	4.7	8.5
cis-1,2-Dichloroethene	1.2	2.9	4.6	12
1,1,1-Trichloroethane	1.2	190	6.3	1000
Trichloroethene	1.2	2.7	6.2	14
Toluene	1.2	1.5	4.4	5.6
Tetrachloroethene	1.2	4.7	7.8	32

eurofins | Air Toxics

Client Sample ID: P1 SVE-EFF C1-051517

Lab ID#: 1705311-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17051925**	**Date of Collection:**	**5/15/17 11:00:00 AM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**5/20/17 12:45 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	Not Detected	27	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.1	11	4.6	46
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	2.6	4.5	10
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	49	6.2	270
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	7.5	6.1	40
Toluene	1.1	Not Detected	4.3	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	67	7.7	460
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

eurofins | Air Toxics

Client Sample ID: P1 SVE-EFF C2-051517

Lab ID#: 1705311-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17051926**	**Date of Collection:**	**5/15/17 10:25:00 AM**
Dil. Factor:	**2.45**	**Date of Analysis:**	**5/20/17 01:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Chloroethane	4.9	Not Detected	13	Not Detected
1,1-Dichloroethene	1.2	2.1	4.8	8.3
Acetone	12	Not Detected	29	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
1,1-Dichloroethane	1.2	77	5.0	310
2-Butanone (Methyl Ethyl Ketone)	4.9	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	3.4	4.8	14
Chloroform	1.2	Not Detected	6.0	Not Detected
1,1,1-Trichloroethane	1.2	150	6.7	800
Carbon Tetrachloride	1.2	Not Detected	7.7	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	7.4	6.6	40
Toluene	1.2	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	12	8.3	83
Ethyl Benzene	1.2	Not Detected	5.3	Not Detected
m,p-Xylene	1.2	Not Detected	5.3	Not Detected
o-Xylene	1.2	Not Detected	5.3	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

eurofins | Air Toxics

Client Sample ID: P1 SVE-EFF C3-051517

Lab ID#: 1705311-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17052211**	**Date of Collection:**	**5/15/17 10:45:00 AM**
Dil. Factor:	**2.10**	**Date of Analysis:**	**5/22/17 03:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.0	Not Detected	2.7	Not Detected
Chloroethane	4.2	Not Detected	11	Not Detected
1,1-Dichloroethene	1.0	1.1	4.2	4.5
Acetone	10	Not Detected	25	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.0	3.0	4.2	12
2-Butanone (Methyl Ethyl Ketone)	4.2	Not Detected	12	Not Detected
cis-1,2-Dichloroethene	1.0	5.2	4.2	21
Chloroform	1.0	Not Detected	5.1	Not Detected
1,1,1-Trichloroethane	1.0	120	5.7	670
Carbon Tetrachloride	1.0	Not Detected	6.6	Not Detected
Benzene	1.0	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
Trichloroethene	1.0	4.5	5.6	24
Toluene	1.0	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.7	Not Detected
Tetrachloroethene	1.0	4.0	7.1	27
Ethyl Benzene	1.0	Not Detected	4.6	Not Detected
m,p-Xylene	1.0	Not Detected	4.6	Not Detected
o-Xylene	1.0	Not Detected	4.6	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: P2 SVE-EFF C4-051517

Lab ID#: 1705311-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17052212**	**Date of Collection:**	**5/15/17 10:20:00 AM**
Dil. Factor:	**2.30**	**Date of Analysis:**	**5/22/17 03:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	2.9	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	27	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
1,1-Dichloroethane	1.2	1.6	4.6	6.5
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	2.0	4.6	8.1
Chloroform	1.2	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.2	25	6.3	130
Carbon Tetrachloride	1.2	Not Detected	7.2	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.6	Not Detected
Trichloroethene	1.2	4.1	6.2	22
Toluene	1.2	2.1	4.3	7.8
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	21	7.8	140
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

eurofins | Air Toxics

Client Sample ID: P2 SVE-EFF C5-051517

Lab ID#: 1705311-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17052213**	**Date of Collection:**	**5/15/17 10:10:00 AM**
Dil. Factor:	**2.31**	**Date of Analysis:**	**5/22/17 04:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.2	1.6	4.6	6.2
Acetone	12	Not Detected	27	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
1,1-Dichloroethane	1.2	2.1	4.7	8.5
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	2.9	4.6	12
Chloroform	1.2	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.2	190	6.3	1000
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	2.7	6.2	14
Toluene	1.2	1.5	4.4	5.6
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	4.7	7.8	32
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1705311-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17051905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/19/17 12:49 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	94	70-130

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1705311-06B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17052205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/22/17 11:06 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	93	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1705311-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17051902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/19/17 10:17 AM**	

Compound	**%Recovery**
Vinyl Chloride	90
Chloroethane	92
1,1-Dichloroethene	90
Acetone	93
Methylene Chloride	89
trans-1,2-Dichloroethene	92
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	94
Chloroform	88
1,1,1-Trichloroethane	88
Carbon Tetrachloride	89
Benzene	90
1,2-Dichloroethane	82
Trichloroethene	87
Toluene	92
1,1,2-Trichloroethane	91
Tetrachloroethene	97
Ethyl Benzene	105
m,p-Xylene	106
o-Xylene	108

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130

eurofins | Air Toxics

Client Sample ID: CCV

Lab ID#: 1705311-07B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17052202**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 5/22/17 09:26 AM**

Compound	**%Recovery**
Vinyl Chloride	91
Chloroethane	96
1,1-Dichloroethene	90
Acetone	93
Methylene Chloride	90
trans-1,2-Dichloroethene	93
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	94
Chloroform	91
1,1,1-Trichloroethane	90
Carbon Tetrachloride	91
Benzene	94
1,2-Dichloroethane	89
Trichloroethene	91
Toluene	95
1,1,2-Trichloroethane	94
Tetrachloroethene	98
Ethyl Benzene	107
m,p-Xylene	110
o-Xylene	108

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	105	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1705311-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17051903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/19/17 10:44 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	95	70-130
Chloroethane	98	70-130
1,1-Dichloroethene	91	70-130
Acetone	93	70-130
Methylene Chloride	85	70-130
trans-1,2-Dichloroethene	101	70-130
1,1-Dichloroethane	85	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
cis-1,2-Dichloroethene	86	70-130
Chloroform	88	70-130
1,1,1-Trichloroethane	91	70-130
Carbon Tetrachloride	90	70-130
Benzene	90	70-130
1,2-Dichloroethane	82	70-130
Trichloroethene	90	70-130
Toluene	94	70-130
1,1,2-Trichloroethane	92	70-130
Tetrachloroethene	96	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	111	70-130
o-Xylene	112	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

eurofins

Air Toxics

Client Sample ID: LCSD

Lab ID#: 1705311-08AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17051904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/19/17 11:11 AM**	

Compound	**%Recovery**	**Method Limits**
Vinyl Chloride	97	70-130
Chloroethane	101	70-130
1,1-Dichloroethene	95	70-130
Acetone	95	70-130
Methylene Chloride	91	70-130
trans-1,2-Dichloroethene	108	70-130
1,1-Dichloroethane	88	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
cis-1,2-Dichloroethene	91	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	93	70-130
Carbon Tetrachloride	94	70-130
Benzene	91	70-130
1,2-Dichloroethane	83	70-130
Trichloroethene	92	70-130
Toluene	96	70-130
1,1,2-Trichloroethane	93	70-130
Tetrachloroethene	98	70-130
Ethyl Benzene	110	70-130
m,p-Xylene	112	70-130
o-Xylene	113	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	107	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1705311-08B

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17052203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/22/17 09:52 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	97	70-130
Chloroethane	98	70-130
1,1-Dichloroethene	91	70-130
Acetone	97	70-130
Methylene Chloride	92	70-130
trans-1,2-Dichloroethene	104	70-130
1,1-Dichloroethane	90	70-130
2-Butanone (Methyl Ethyl Ketone)	97	70-130
cis-1,2-Dichloroethene	88	70-130
Chloroform	93	70-130
1,1,1-Trichloroethane	94	70-130
Carbon Tetrachloride	95	70-130
Benzene	96	70-130
1,2-Dichloroethane	88	70-130
Trichloroethene	94	70-130
Toluene	98	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	101	70-130
Ethyl Benzene	112	70-130
m,p-Xylene	114	70-130
o-Xylene	113	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1705311-08BB

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**17052204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/22/17 10:19 AM**	

Compound	**%Recovery**	**Method Limits**
Vinyl Chloride	96	70-130
Chloroethane	100	70-130
1,1-Dichloroethene	90	70-130
Acetone	95	70-130
Methylene Chloride	91	70-130
trans-1,2-Dichloroethene	104	70-130
1,1-Dichloroethane	89	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	88	70-130
Chloroform	92	70-130
1,1,1-Trichloroethane	92	70-130
Carbon Tetrachloride	94	70-130
Benzene	95	70-130
1,2-Dichloroethane	89	70-130
Trichloroethene	95	70-130
Toluene	97	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	98	70-130
Ethyl Benzene	110	70-130
m,p-Xylene	111	70-130
o-Xylene	112	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Appendix C

Second Quarter 2017 Phase1/Phase 2 AS/SVE System Operations Data Sheets

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	6-28-17	6-29-17	6-30-17	7-1-17	7-2-17	7-3-17	7-4-17	7-5-17	7-6-17	7-7-17
TIME	8:15 Am	8:51 Am	8:19 Am	12:40 pm	8:10 Am	10:50 AM	12:12 PM	8:24 Am	0932	9:01 Am
OBSERVER'S INITIALS	RK	RK	RK	MG	KA	MG	MG	RK	AS	RK
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HOURS METERS										
B-701 SVE (hrs)	44918	44943	44966	44994	45014	45040	45066	45086	45111	45135
C-2201 SPRG (hrs)	39638	39663	39686	39715	39734	39761	39787	39807	39833	39856
F-2501 H-XCH (hrs)	39638	39663	39686	39715	39734	39761	39787	39807	39833	39856
ANALOGS										
MV-701 SVE POS (%)	29	29	29	29	29	29	28	29	29	29
PT-701 SVE (-wc)	-81.6	-81.6	-81.6	-68.0	-81.6	-81.6	-81.6	-81.6	-81.6	-81.6
PT-2501 SPRG (psi)	13.7	13.8	13.9	13.8	12.7	13.9	13.8	13.9	13.9	13.9
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	180
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	180
SPRG DELAY (min)	0	0	0	0	0	0	0	0	0	0
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	30

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	6-18-17	6-19-17	6-20-17	6-21-17	6-22-17	6-23-17	6-24-17	6-25-17	6-26-17	6-27-17
TIME	7:51AM	9:55 AM	8:39 AM	12:43 AM	8:43 AM	1:09 PM	7:23 AM	6:19 AM	8:09 AM	8:08AM
OBSERVER'S INITIALS	DE	MG	MG	RK	MG	MG	DE	RK	RK	RK
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HOURS METERS										
B-701 SVE (hrs)	44678	44704	44727	44755	44775	44803	44821	44844	44870	44894
C-2201 SPRG (hrs)	39395	39422	39444	39473	39493	39522	39540	39563	39589	39613
F-2501 H-XCH (hrs)	39395	39422	39444	39473	39493	39522	39540	39563	39589	39613
ANALOGS										
MV-701 SVE POS (%)	28	28	29	28	28	28	28	29	29	29
PT-701 SVE (-wc)	-68.0	-81.6	-81.6	-81.6	-81.6	-81.6	-68.0	-81.6	-81.6	-81.6
PT-2501 SPRG (psi)	13.6	13.7	12.5	13.7	13.7	13.7	13.6	13.7	12.5	13.7
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	180
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	180
SPRG DELAY (min)	0	0	0	0	0	0 ~~30~~ NA	0	0	0	0
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	30

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	6-8-17	6-9-17	6-10-17	6-11-17	6-12-16	6-13-17	6-14-17	6-15-17	6-16-17	6:17.17
TIME	9:15 Am	7:55 Am	9:24 AM	7:46 Am	8:10 Am	8:11 Am	7:44 Am	12:32 Pm	6:57 AM	10:53 AM
OBSERVER'S INITIALS	RK	RK	RK	RK	RK	RK	RK	RK	RK	MG
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HOURS METERS										
B-701 SVE (hrs)	44440	44462	44488	44510	44534	44558	44582	44611	44629	44657
C-2201 SPRG (hrs)	35155	39177	39203	39226	39250	39274	39298	39327	39346	39374
F-2501 H-XCH (hrs)	35155	39177	39203	39226	39250	39274	39298	39327	39346	39374
ANALOGS										
MV-701 SVE POS (%)	28	28	28	28	28	28	28	28	28	28
PT-701 SVE (-wc)	-68.0	-81.6	-81.6	-81.6	-68.0	-81.6	-81.6	-81.6	-81.6	-68.0
PT-2501 SPRG (psi)	13.5	13.6	13.6	14.0	13.5	11.1	13.7	13.7	13.9	12.5
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	180
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	180
SPRG DELAY (min)	0	0	0	0	0	0	0	0	0	0
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	30

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	5-29-17	5-30-17	5-31-17	6-1-17	6-2-17	6-3-17	6-4-17	6-5-17	6-6-17	6-7-17
TIME	2:51 PM	9:32 AM	10:36 AM	8:47 AM	8:44 AM	6:30 AM	8:17 AM	8:02 AM	10:09 AM	9:17 AM
OBSERVER'S INITIALS	MG	MG	RK	RK	RK	KA	DE	MG	RK	RK
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HOURS METERS										
B-701 SVE (hrs)	44206	44224	44249	44271	44295	44317	44343	44367	44393	44416
C-2201 SPRG (hrs)	38918	38937	38962	38985	39009	39031	39057	39081	39107	39130
F-2501 H-XCH (hrs)	38918	38937	38962	38985	39009	39031	39057	39081	39107	39130
ANALOGS										
MV-701 SVE POS (%)	28	28	29	29	28	28	28	28	28	28
PT-701 SVE (-wc)	-81.6	-81.6	-81.6	-68.0	-81.6	-81.6	-81.6	-81.6	-81.6	-68.0
PT-2501 SPRG (psi)	13.6	13.6	13.6	13.9	12.6	13.9	13.7	14.0	13.5	13.9
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	180
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	180
SPRG DELAY (min)	Ø	Ø	0	0	0	0	0	0	0	0
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	30

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	5-19-17	5-20-17	5-21-17	5-22-17	5-23-17	5-24-17	5-25-17	5-26-17	5-27-17	5-28-17
TIME	8:41 Am	1:12 Pm	7:07 AM	10:48 Am	10:09 Am	9:56 Am	8:24 Am	7:23 Am	8:19 AM	1:33 PM
OBSERVER'S INITIALS	RK	MG	DE	RK	RK	RK	RK	RK	KA	MG
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HOURS METERS										
B-701 SVE (hrs)	43960	43988	44006	44034	44057	44081	44103	44126	44151	44180
C-2201 SPRG (hrs)	38670	38699	38717	38745	38768	38792	38815	38838	38863	38893
F-2501 H-XCH (hrs)	38670	38699	38717	38745	38768	38792	38815	38838	38863	38893
ANALOGS										
MV-701 SVE POS (%)	29	29	29	29	28	29	29	29	28	28
PT-701 SVE (-wc)	-68.0	-81.6	-81.6	-68.0	-81.6	-81.6	-68.0	-81.6	-81.6	-81.6
PT-2501 SPRG (psi)	13.6	13.1	13.6	14.0	13.6	13.7	13.7	13.6	13.6	13.6
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	180
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	180
SPRG DELAY (min)	0	0	0	0	0	0	0	0	0	0
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	30

DAILY DOCUMENTATION SHEET

Control Panel Touch Screen

DATE	3-18-17	3-19-17	3-20-17	3-21-17	3-22-17	3-23-17	05/15/17	5-16-17	5-17-17	5-18-17
TIME	8:43Am	9:00Am	6:34AM	8:16Am	10:43Am	0850	1125	8:16Am	2:23Am	11:10Am
OBSERVER'S INITIALS	RK	KA	RK	RK	RK	A-H-	AS	RK	RK	RK
ALARMS										
Shut Down Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Non-critical Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HOURS METERS										
B-701 SVE (hrs)	43742	43767	43788	43814	43840	43862	43868	43887	43918	43933
C-2201 SPRG (hrs)	38450	38475	38496	38522	38549	38571	38577	38597	38627	38642
F-2501 H-XCH (hrs)	38450	38475	38496	38522	38549	38571	38577	38597	38627	38642
ANALOGS										
MV-701 SVE POS (%)	28	28	28	29	28	28	28	28	28	28
PT-701 SVE (-wc)	-81.6	-81.6	-81.6	-68.0	-81.6	-81.6	-81.6	-81.6	-81.6	-81.0
PT-2501 SPRG (psi)	13.2	13.3	12.0	13.1	13.2	11.9	12.2	13.6	13.5	13.0
SET POINTS										
PTLA-2501 SPRG (psi)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PTHA-2501 SPRG (psi)	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
SET POINTS 2										
SVON-101 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-102 SVE (min)	60	60	60	60	60	60	60	60	60	60
SVON-103 SVE (min)	180	180	180	180	180	180	180	180	180	180
SET POINTS 3										
SVON-2801 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2802 SPRG (min)	60	60	60	60	60	60	60	60	60	60
SVON-2803 SPRG (min)	180	180	180	180	180	180	180	180	180	180
SPRG DELAY (min)	0	0	0	0	0	0	0	0	0	0
SET POINTS 4										
MV-701 SVE POS (%)	30	30	30	30	30	30	30	30	30	3

WEEKLY DOCUMENTATION SHEET

SYSTEM COMPONENTS

DATE	5/15/17	5-22-17	5-29-17	6-5-17	6-11-17	6-19-17	6-26-17	7-3-17	7-10-17
TIME	1635	10:49Am	2:53Pm	8:05Am	7:47Am	9:58 AM	8:11Am	10:53Am	9:02Am
OBSERVER'S INITIALS	AS	RK	MG	MG	RK	MG	RK	MG	RK

SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.

Comments and Notes	NA	NA	* COULD NOT GET READING ~~[illegible]~~ RK	NA	NA	NA	NA	NA	NA

SOIL VAPOR EXTRACTION (SVE)

Hours of Operation (hrs)	43871	44084	44206	44367	44570	44704	44870	45040	45206
Inlet Vacuum (-wc)	74 89	82	90	90	92	91	90	91	89
Pre-Filter Vacuum (-wc)	73.2	67.6	* 75.0	74.1	74.6	-74.8	-73.1	-74.7	72.2
Post-Filter Vacuum (-wc)	77	71	79	79	79	78	79	-79	78
Outlet Pressure (wc)	7.0	8	7	6.5	6	6.5	6	6.5	6
Outlet Temperature (°F)	154	141	158	159	162	162	150	163	159
Outlet Magnehelic* (in H_2O)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Water Level Sight Glass (in)	Ø	0	Ø	Ø	0	Ø	Ø	Ø	Ø

AIR SPARGE (SPRG)

Hours Operation (hrs)	38581	38745	38918	39081	39226	39422	39589	39761	39928
Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK

HEAT EXCHANGER (H-XCH)

Hours Operation (hrs)	38581	38745	38918	39081	39226	39422	39589	39761	39928
Inlet Temperature (°F)	225	205	215	215	224	218	200	223	220
Inlet Pressure (psi)	16.0	18	17	17.5	17	17.5	17	17	17
Outlet Temperature (°F)	113	100	110	110	116	111	101	116	115
Outlet Pressure (psi)	13.5	14	13.5	14	14	14	13.5	14.0	13
Outlet Magnehelic* (in H_2O)	3.9	3.9	3.9	3.9	3.9	3.9	4+	3.9	4+

ELECTRICAL USAGE (see display panel below main breaker and next to control panel)

Kilowatts (kwh)	00218064	218878	219751	220572	221307	222297	223140	223993	224832

*

MONTHLY DOCUMENTATION SHEET

SVE MANIFOLD

DATE		1-24-17	2-22-17	3-23-17	5/15/17	6-26-17	7-20-17				
TIME		0900	0905	0850	1030	0855	1255				
INITIALS		N.P.	A.H.	A.H.	AS	AH	A.H.				
MAGNEHELIC GAUGE*											
CELL 1	SVE-1 (in H_2O)	1.0 ~~1.68~~ AH	1.0	1.1	1.2	1.2	1.2				
	SVE-2 (in H_2O)	AH ~~1.42~~ 1.4	1.4	1.5	1.4	1.5	1.5				
CELL 2	SVE-3 (in H_2O)	~~1.53~~ 1.3	1.6	1.7	1.3	1.3	1.4				
	SVE-4 (in H_2O)	AH ~~9~~ 0.4	0.8	1.1	0.4	1.2	1.2				
CELL 3	SVE-5 (in H_2O)	0.6	1.0	1.0	0.9	1.0	1.0				
	SVE-6 (in H_2O)	0.0	0.0	0.0	0.0	1.0	1.0				
VACUUM GAUGE											
CELL 1	SVE-1 (-wc)	30.0	29.0	30.0	27.0	30	30.0				
	SVE-2 (-wc)	26.0	27.0	28.0	26.0	28.0	27.0				
CELL 2	SVE-3 (-wc)	20.0	20.0	20.0	20.0	20.0	20.0				
	SVE-4 (-wc)	20.0	17.0	20.0	20.0	20.0	20.0				
CELL 3	SVE-5 (-wc)	36.0	34.0	34.0	33.0	36.0	35.0				
	SVE-6 (-wc)	38.0	37.0	38.0	37.0	36.0	36.0				

[illegible]eep plastic pinch valves on tubing to magnehelic gauge closed except [illegible] taking a reading.

MONTHLY DOCUMENTATION SHEET

AIR SPARGE MANIFOLD

DATE		1-24-17	2-22-17	3-23-17	5/15/17	6-26-17	7-20-17				
TIME		0900	0905	0850	1030	0855	1255				
INITIALS		N.P.	A.H.	A.H	AS	A.H.	A.H.				
ROTOMETER											
CELL 1	AS-1 (scfm)	17.0	19.0	20.0	17.5	20.0	19.0				
	AS-2 (scfm)	20.0	20.0	20.0	20.0	20.0	20.0				
	AS-3 (scfm)	20.0	20.0	20.0	20.0	19.0	19.0				
	AS-4 (scfm)	18.5	19.0	19.0	19.0	18.0	18.0				
	AS-5 (scfm)	18.0	19.0	20.0	18.5	19.0	19.0				
CELL 2	AS-6 (scfm)	16.5	16.0	16.0	16.0	16.0	16.0				
	AS-7 (scfm)	16.5	17.0	16.0	16.5	16.0	15.0				
	AS-8 (scfm)	21.5	21.5	21.0	20.5	21.0	20.0				
	AS-9 (scfm)	17.0	17.0	18.0	16.0	18.0	17.0				
	AS-10 (scfm)	24.5	24.0	24.5	23.0	24.0	23.0				
CELL 3	AS-11 (scfm)	16.5	16.0	16.0	17.0	16.0	16.0				
	AS-12 (scfm)	16.0	19.0	18.5	16.5	16.0	17.0				
	AS-13 (scfm)	15.0	17.0	17.0	16.0	15.5	16.0				
	AS-14 (scfm)	19.5	21.0	21.0	20.0	20.0	20.0				
	AS-15 (scfm)	21.0	22.0	22.0	22.0	22.0	21.0				
PRESSURE GAUGE											
CELL 1	AS-1 (psi)	12.0	11.0	11.0	12.0	11.5	11.5				
	AS-2 (psi)	11.5	11.0	11.0	12.0	11.0	11.0				
	AS-3 (psi)	11.0	10.0	10.0	11.5	10.5	10.0				
	AS-4 (psi)	12.5	12.5	12.0	12.0	12.5	12.0				
	AS-5 (psi)	13.5	13.5	13.0	13.5	11.0	10.5				
CELL 2	AS-6 (psi)	13.0	11.0	10.5	10.5	13.0	11.5				
	AS-7 (psi)	13.0	10.5	13.0	10.5	13.0	13.0				
	AS-8 (psi)	14.0	11.0	11.0	11.0	13.0	11.0				
	AS-9 (psi)	13.0	12.5	12.0	12.5	12.5	12.0				
	AS-10 (psi)	11.0	13.0	12.5	12.0	13.0	12.5				
CELL 3	AS-11 (psi)	12.0	11.0	10.5	11.0	10.0	11.0				
	AS-12 (psi)	14.0	13.5	13.5	14.0	14.0	14.0				
	AS-13 (psi)	13.5	11.0	12.5	12.5	13.0	10.5				
	AS-14 (psi)	13.5	13.5	13.5	12.5	14.0	12.5				
	AS-15 (psi)	13.5	13.5	13.5	13.0	13.0	13.0				

MONTHLY DOCUMENTATION SHEET

WELL HEAD GAUGES

DATE	6-26-17	7-20-17								
TIME	0855	1255								
INITIALS	A.H	A.H								

CELL 1	AS-1 (psi)	9.79	9.61								
	AS-2 (psi)	9.76	9.73								
	AS-3 (psi)	9.92	9.82								
	AS-4 (psi)	10.10	10.12								
	AS-5 (psi)	9.97	10.04								
CELL 2	AS-6 (psi)	9.95	9.87								
	AS-7 (psi)	10.21	10.15								
	AS-8 (psi)	10.23	10.23								
	AS-9 (psi)	11.37	11.04								
	AS-10 (psi)	10.36	10.47								
CELL 3	AS-11 (psi)	10.04	10.09								
	AS-12 (psi)	11.32	11.14								
	AS-13 (psi)	11.25	11.25								
	AS-14 (psi)	11.10	10.86								
	AS-15 (psi)	10.01	9.67								

CELL 1	SVE-1 (in H_2O)	6.2	6.2								
	SVE-2 (in H_2O)	8.1	8.2								
CELL 2	SVE-3 (in H_2O)	7.4	7.1								
	SVE-4 (in H_2O)	7.2	6.9								
CELL 3	SVE-5 (in H_2O)	10.01	9.97								
	SVE-6 (in H_2O)	7.4	7.4								

MONTHLY DOCUMENTATION SHEET

WELL HEAD GAUGES

	DATE	5/19/16	6-21-16	7-22-16	9-20-16	10-25-16	11-28-16	1-24-16	2-22-17	3-23-17	05-15-17
	TIME	1000	0900	0850	1015	1015	915	0900	0905	0850	1030
	INITIALS	NP	A.H.	A.H.	A.H.	A.H.	A.H.	N.P.	A.H.	A.H.	AS
CELL 1	AS-1 (psi)	9.53	9.44	9.33	9.28	9.32	9.16	9.68	9.19	9.06	9.45
CELL 1	AS-2 (psi)	9.41	9.34	9.23	9.18	9.22	9.11	9.42	9.10	8.46	9.38
CELL 1	AS-3 (psi)	9.63	9.52	9.40	9.38	9.42	9.24	9.53	9.31	9.12	9.57
CELL 1	AS-4 (psi)	9.79	9.72	9.71	9.59	9.58	9.50	9.66	9.43	9.42	9.79
CELL 1	AS-5 (psi)	9.69	9.54	9.47	9.46	9.49	9.36	9.60	9.36	9.24	9.69
CELL 2	AS-6 (psi)	9.62	9.80	9.50	9.66	9.37	9.44	Snow	9.43	9.32	11.04
CELL 2	AS-7 (psi)	9.94	10.05	9.83	9.94	9.67	9.74	Snow	9.66	9.60	10.68
CELL 2	AS-8 (psi)	10.14	10.23	10.02	10.08	9.83	9.90	Snow	9.96	9.34	11.28
CELL 2	AS-9 (psi)	11.03	11.23	10.86	11.02	10.79	10.84	11.10	10.84	10.65	11.16
CELL 2	AS-10 (psi)	10.15	10.20	9.98	10.04	9.81	9.90	10.35	9.87	9.75	8.96
CELL 3	AS-11 (psi)	9.43	9.81	9.60	9.59	9.47	9.44	9.35	9.23	9.26	8.82
CELL 3	AS-12 (psi)	10.41	11.22	10.40	10.41	10.57	10.40	9.97	9.97	10.15	11.05
CELL 3	AS-13 (psi)	10.35	11.11	10.35	10.40	10.57	10.50	9.95	10.02	10.13	11.14
CELL 3	AS-14 (psi)	10.32	10.93	10.29	10.34	10.34	10.20	10.01	9.95	10.01	11.39
CELL 3	AS-15 (psi)	10.37	10.92	10.32	10.35	10.39	10.30	10.12	10.04	10.10	11.45
CELL 1	SVE-1 (in H_2O)	5.7	5.6	5.27	5.7	6.1	5.9	6.4	6.0	5.7	5.7
CELL 1	SVE-2 (in H_2O)	7.8	7.7	7.6	7.8	8.1	8.0	8.2	8.0	~~9.2~~ A.H. 7.6	7.9
CELL 2	SVE-3 (in H_2O)	7.2	7.4	7.2	7.6	7.6	7.7	Snow	7.7	7.1	7.5
CELL 2	SVE-4 (in H_2O)	6.8	7.0	6.9	7.3	7.3	7.1	7.3	7.0	6.9	7.2
CELL 3	SVE-5 (in H_2O)	9.1	9.7	9.6	9.4	9.8	10.20	9.5	9.1	9.2	9.7
CELL 3	SVE-6 (in H_2O)	7.2	7.7	7.7	7.1	8.1	3.8	7.8	7.4	7.4	5.8

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	6-25-17	6-26-17	6-27-17	6-28-17	6-29-17	6-30-17	7-1-17	7-2-17	7-3-17
TIME	6:23AM	8:28AM	8:12AM	8:19AM	8:55AM	8:23AM	12:51PM	8:15AM	11:14AM
OBSERVER'S INITIALS	RK	RK	RK	RK	RK	RK	MG	KA	MG
WEATHER CONDITIONS									
Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	69°F Sunny	69°F Sunny	69°F Sunny	72°F Cloudy	80°F Cloudy/Rain	76°F Cloudy	89°F SUNNY	76°F SUNNY	86°F PARTLY CLOUDY
ALARMS									
Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA
P&ID									
PDT-701 SVE (-wc)	0.03	0.03	0.06	0.05	0.01	0.01	0.00	0.03	0.00
PT-701 SVE (-wc)	-37	-35	-33	-37	-39	-38	-36	-35	-35
PT-702 SVE (-wc)	70.1	68.9	69.9	69.0	66.8	67.5	66.4	67.9	65.7
PT-2201 SPRG (psi)	14.7	14.9	14.4	19.2	14.3	20.0	19.2	19.1	19.1
P-401 PUMP (cycles)	78	78	78	78	78	78	78	78	78
P&ID2									
PDT-801 SVE (-wc)	0.29	0.30	0.33	0.28	0.30	0.32	0.27	0.32	0.33
PT-801 SVE (-wc)	-142	-138	-137	-140	-173	-175	-170	-173	-173
PT-802 SVE (-wc)	49.7	49.4	49.8	49.6	47.0	47.4	46.7	46.4	46.4
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P-501 PUMP (cycles)	659	660	660	661	664	667	671	674	678

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	6-25-17	6-26-17	6-27-17	6-28-17	6-29-17	6-30-17	7-1-17	7-2-17	7-3-17
TIME	6:23-17	8:28 Am	8:12 A.M.	8:19Am	8:55 Am	8:23 Am	12:51 PM	8:15AM	11:14 AM
OBSERVER'S INITIALS	RK	RK	RK	RK	RK	RK	MG	KA	MG
HOURS METERS									
B-701 SVE (hrs)	14477	14500	14520	14537	14561	14585	14613	14632	14659
C-2201 SPRG (hrs)	12928	12951	12971	12988	13012	13036	13064	13084	13111
C-2202 SPRG (hrs)	14104	14127	14147	14164	14188	14212	14240	14259	14286
B-801 SVE (hrs)	14409	14432	14452	14469	[illegible]	14517	14545	14565	14592
C-2301 SPRG (hrs)	14328	14351	14370	14387	14412	14435	14464	14483	14510
C-2302 SPRG (hrs)	14328	14351	14370	14387	14412	14435	14464	14483	14510
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27	-27	-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25	-25	-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40	40	40	40	40
SV-2802 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2901 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2902 SPRG (min)	20	20	20	20	20	20	20	20	20

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	6-16-17	6-17-17	6-18-17	6-19-17	6-20-17	6-21-17	6-22-17	6-23-17	6-24-17
TIME	6:59AM	10:43AM	7:58 AM	10:24AM	8:44 AM	12:48PM	8:49 AM	1:16 PM	7:30AM
OBSERVER'S INITIALS	RK	MG	DE	MG	MG	RK	MG	MG	DE
WEATHER CONDITIONS									
Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	76°F RAIN	82°F HUMID CLOUDY	76°F SUNNY	78°F SUNNY	76°F SUNNY	84°F SUNNY	82°F CLOUDY OVERCAST	88°F SUNNY	72°F SUNNY
ALARMS									
Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA
P&ID									
PDT-701 SVE (-wc)	0.03	0.00	0.02	0.03	0.07	0.01	0.00	0.00	0.03
PT-701 SVE (-wc)	-38	-40	-41	-38	-37	-37	-39	-41	-38
PT-702 SVE (-wc)	68.0	66.5	68.0	68.5	68.7	66.9	66.8	66.8	69.1
PT-2201 SPRG (psi)	13.9	13.7	13.9	18.7	18.5	18.5	14.2	19.0	19.3
P-401 PUMP (cycles)	78	78	78	78	78	78	78	78	78
P&ID2									
PDT-801 SVE (-wc)	0.22	0.24	0.23	0.24	0.26	0.24	0.28	0.27	0.30
PT-801 SVE (-wc)	-140	-139	-139	-134	-136	-126	-137	-140	-142
PT-802 SVE (-wc)	50.1	48.8	49.4	49.8	49.9	48.5	49.0	48.3	48.5
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P-501 PUMP (cycles)	653	653	653	653	653	653	655	656	657

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	6-16-17	6-17-17	6-18-17	6-19-17	6-20-17	6-21-17	6-22-17	6-23-17	6-24-17
TIME	6:59 AM	10:43 AM	7:58 AM	10:24 AM	8:44 AM	12:48 PM	8:49 AM	1:16 PM	7:30 AM
OBSERVER'S INITIALS	RK	MG	DE	MG	MG	~~FK~~	MG	MG	DE
HOURS METERS									
B-701 SVE (hrs)	14264	14292	14313	14339	14362	14390	14408	14436	14454
C-2201 SPRG (hrs)	12716	12743	12764	12790	12813	12841	12859	12887	12905
C-2202 SPRG (hrs)	13891	13919	13940	13966	13989	14017	14035	14063	14081
B-801 SVE (hrs)	14197	14224	14245	14271	14294	14322	14340	14368	14386
C-2301 SPRG (hrs)	14115	14142	14164	14190	14212	14240	14258	14287	14305
C-2302 SPRG (hrs)	14115	14142	14163	14190	14212	14240	14258	14287	14305
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27	-27	-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25	-25	-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40	40	40	40	40
SV-2802 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2901 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2902 SPRG (min)	20	20	20	20	20	20	20	20	20

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	6-7-17	6-8-17	6-9-17	6-10-17	6-11-17	6-12-17	6-13-17	6-14-17	6-15-17
TIME	9:09 Am	9:57 Am	8:06 Am	9:30 AM	8:00 Am	8:14 Am	8:15 Am	7:47 A	12:37 Pm
OBSERVER'S INITIALS	RK	RK	RK	KA	RK	RK	RK	RK	RK

WEATHER CONDITIONS

Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	79°F Sunny	84°F Sunny	82°F Sunny	82°F Sunny	83°F Sunny	89°F Sunny	89°F Sunny	86°F Sunny	96°F Sunny

ALARMS

Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA

P&ID

PDT-701 SVE (-wc)	0.01	0.01	0.00	0.00	0.0	0.0	0.0	0.03	0.0
PT-701 SVE (-wc)	-33	-35	-37	-37	-37	-36	-36	-36	-37
PT-702 SVE (-wc)	68.3	68.2	67.5	67.4	68.0	67.8	66.8	66.9	65.4
PT-2201 SPRG (psi)	14.2	18.5	18.4	18.2	13.8	13.8	16.0	13.6	14.0
P-401 PUMP (cycles)	78	78	78	78	78	78	78	78	78

P&ID2

PDT-801 SVE (-wc)	0.16	0.18	0.18	0.19	0.18	0.19	0.22	0.23	0.22
PT-801 SVE (-wc)	-112	-116	-122	-124	-126	-127	-127	-133	-134
PT-802 SVE (-wc)	53.2	52.5	51.4	51.4	51.1	50.0	49.6	49.5	47.9
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P-501 PUMP (cycles)	653	653	653	653	653	653	653	653	653

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	6-7-17	6-8-17	6-9-17	6-10-17	6-11-17	6-12-17	6-13-17	6-14-17	6-15-17
TIME	9:09Am	9:57Am	8:06Am	9:30 AM	8:00Am	8:14Am	8:15Am	7:47Am	12:37P.m.
OBSERVER'S INITIALS	RK	RK	RK	KA	RK	RK	RK	RK	RK
HOURS METERS									
B-701 SVE (hrs)	14051	14076	14098	14123	14146	14170	14194	14217	14246
C-2201 SPRG (hrs)	12502	12527	12549	12574	12597	12621	12645	12668	12697
C-2202 SPRG (hrs)	13678	13703	13725	13750	13773	13797	13821	13844	13873
B-801 SVE (hrs)	13983	14008	14030	14055	14078	14102	14126	14149	14178
C-2301 SPRG (hrs)	13928	13953	13975	14000	14023	14040	14057	14073	14102
C-2302 SPRG (hrs)	13928	13953	13975	14000	14023	14040	14057	14073	14102
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27	-27	-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25	-25	-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40	40	40	40	40
SV-2802 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2901 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2902 SPRG (min)	20	20	20	20	20	20	20	20	20

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	5-29-17	5-30-17	5-31	6-1-17	6-2-17	6-3-17	6-4-17	6-5-17	6-6-17
TIME	3:23 PM	9:46 AM	10:48 AM	8:50 AM	8:48 AM	6:22 AM	8:24 AM	8:48 AM	10:14 AM
OBSERVER'S INITIALS	MG	MG	RK	RK	RK	KA	DE	MG	RK
WEATHER CONDITIONS									
Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	83° F SUNNY	74° F SUNNY	78°F SUNNY	74°F SUNNY	76°F SUNNY	70°F SUNNY	86°F CLOUDY	84°F SUNNY	86°F SUNNY
ALARMS									
Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA
P&ID									
PDT-701 SVE (-wc)	0.01	0.00	0.01	0.04	0.02	0.03	0.01	0.00	0.02
PT-701 SVE (-wc)	-36	-36	-34	-33	-35	-35	-37	-37	-35
PT-702 SVE (-wc)	68.1	68.3	67.9	69.3	68.5	69.4	66.9	67.2	68.8
PT-2201 SPRG (psi)	23.3	20.0	14.1	18.6	18.6	15.1	18.2	13.9	19.1
P-401 PUMP (cycles)	78	78	78	78	78	78	78	78	78
P&ID2									
PDT-801 SVE (-wc)	0.10	0.13	0.14	0.14	0.12	0.13	0.14	0.15	0.17
PT-801 SVE (-wc)	-109	-108	-106	-106	-108	-113	-116	-117	-113
PT-802 SVE (-wc)	54.7	55.0	55.7	54.2	54.8	54.1	52.9	52.2	52.4
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P-501 PUMP (cycles)	653	653	653	653	653	653	653	653	653

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	5-29-17	5-30-17	5-31-17	6-1-17	6-2-17	6-2-17	6-4-17	6-5-17	6-6-17
TIME	3:23 PM	9:46 AM	10:48 AM	8:50 AM	8:48 AM	6:22 AM	8:24 AM	8:48 AM	10:14 AM
OBSERVER'S INITIALS	MG	MG	RL	FR	RK	KA	DE	MG	RK
HOURS METERS									
B-701 SVE (hrs)	13841	13860	13885	13907	13931	13952	13978	14003	14028
C-2201 SPRG (hrs)	12292	12311	12336	12358	12381	12403	12429	12454	12479
C-2202 SPRG (hrs)	13468	13487	13512	13534	13558	13579	13605	13630	13655
B-801 SVE (hrs)	13773	13792	13817	13839	13863	13884	13910	13935	13960
C-2301 SPRG (hrs)	13722	13740	13765	13787	13811	13833	13859	13880	13905
C-2302 SPRG (hrs)	13722	13740	13765	13787	13811	13833	13859	13880	13905
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27	-27	-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25	-25	-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40	40	40	40	40
SV-2802 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2901 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2902 SPRG (min)	20	20	20	20	20	20	20	20	20

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	5-20-17	5-21-17	5-22-17	5-23-17	5-24-17	5-25-17	5-26-17	5-27-17	5-28-17
TIME	1:17 pm	7:14 AM	11:01 Am	10:13 Am	10:00 Am	8:27 Am	7:57 Am	8:11 Am	2:20 Pm
OBSERVER'S INITIALS	MG	DE	RK	RK	RK	RK	RK	KA	MG

WEATHER CONDITIONS

Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	70°F CLOUDY, RAIN	74°F SUNNY	70°F CLOUDY	70°F CLOUDY	69°F RAIN	72°F CLOUDY	71°F SUNNY	72°F SUNNY	81°F SUNNY

ALARMS

Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA

P&ID

PDT-701 SVE (-wc)	0.04	0.06	0.08	0.02	0.06	0.03	0.05	0.07	0.02
PT-701 SVE (-wc)	-36	-36	-35	-37	-41	-39	-37	-37	-37
PT-702 SVE (-wc)	69.9	69.8	69.5	69.3	69.5	69.0	68.2	68.4	67.8
PT-2201 SPRG (psi)	18.8	19.5	14.0	14.1	18.6	18.7	18.7	13.9	19.0
P-401 PUMP (cycles)	78	78	78	78	78	78	78	78	78

P&ID2

PDT-801 SVE (-wc)	0.11	0.12	0.12	0.14	0.14	0.11	0.13	0.12	0.10
PT-801 SVE (-wc)	-104	-105	-103	-108	-114	-112	-109	-108	-109
PT-802 SVE (-wc)	57.1	57.2	57.3	55.8	56.6	56.5	55.5	56.1	54.1
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P-501 PUMP (cycles)	653	653	653	653	653	653	653	653	653

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	5-20-17	5-21-17	5-22-17	5-23-17	5-24-17	5-25-17	5-26-17	5-27-17	5-28-17
TIME	1:17 pm	7:14AM	11:01Am	10:13Am	10:00Am	8:27Am	7:27Am	8:11AM	2:20Pm
OBSERVER'S INITIALS	MG	DE	RK	RK	RK	RK	RK	KA	MG
HOURS METERS									
B-701 SVE (hrs)	13623	13641	13669	13692	13716	13738	13761	13786	13816
C-2201 SPRG (hrs)	12075	12092	12120	12143	12167	12190	12213	12237	12267
C-2202 SPRG (hrs)	13250	13268	13296	13319	13343	13365	13388	13413	13443
B-801 SVE (hrs)	13556	13573	13601	13623	13648	13671	13694	13718	13748
C-2301 SPRG (hrs)	13504	13522	13550	13573	13597	13619	13642	13667	13697
C-2302 SPRG (hrs)	13504	13522	13550	13573	13597	13619	13642	13667	13697
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27	-27	-27	-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25	-25	-25	-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	100	10.0	10.0	10.0	10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40	40	40	40	40	40
SV-2802 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2901 SPRG (min)	20	20	20	20	20	20	20	20	20
SV-2902 SPRG (min)	20	20	20	20	20	20	20	20	20

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	3-20-17	3-21-17	3-22-17	3-23-17	05-15-17	5-16-17	5-17-17	5-18-17	5-19-17
TIME	6:39 Am	8:36 Am	10:47 Am	0920	1155	8:20 Am	2:16 Pm	11:00 Am	8:50 Am
OBSERVER'S INITIALS	RK	RK	RK	A.H.	AS	RK	RL	RL	RK
WEATHER CONDITIONS									
Indoor Room Temp (°F), Outdoor Conditions: (Rain, Snow, Clear, Overcast, etc.)	76°F "DARK" Cloudy	72°F Sunny	71°F Sunny	70°F Overcast	85°F Sunny	76°F Sunny	90°F Sunny	88°F Sunny	67°F Rain
ALARMS									
Alarm Code	NA	NA	NA	NA	NA	NA	NA	NA	NA
P&ID									
PDT-701 SVE (-wc)	0.0	0.05	0.02	0.01	0.03	0.01	0.0	0.01	0.06
PT-701 SVE (-wc)	-34	-31	-27	-30	-34	-37	-40	-35	-34
PT-702 SVE (-wc)	70.0	71.9	73.1	72.4	68.0	68.5	66.3	68.1	71.1
PT-2201 SPRG (psi)	17.9	18.4	18.8	18.3	20.6	19.3	18.9	19.2	19.4
P-401 PUMP (cycles)	76	76	76	76	78	78	78	78	78
P&ID2									
PDT-801 SVE (-wc)	0.11	0.10	0.11	0.14	0.08	0.07	0.09	0.06	0.11
PT-801 SVE (-wc)	-95	-90	-83	-90	-92	-101	-106	-98	-100
PT-802 SVE (-wc)	58.7	59.5	61.7	60.0	57.9	56.7	55.0	54.3	59.3
PT-2301 SPRG (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P-501 PUMP (cycles)	647	647	647	647	653	653	653	653	653

DAILY DOCUMENTATION SHEET

BUILDINGS 1 - 2

Control Panel Touch Screen

DATE	3-20-17	3-21-17	3-22-17	3-23-17	~~5-4-17~~	5-16-17	5-17-17	5-18-17	5-19-17
TIME	6:39Am	8:36Am	10:47Am	0920	~~8:20Am~~	8:20Am	2:16	11:00	8:50Am
OBSERVER'S INITIALS	RK	RK	RK	RH	~~RK~~	RK	RK	RK	RK
HOURS METERS									
B-701 SVE (hrs)	13423	13449	13475	13498	NOT	13523	13552	13564	13595
C-2201 SPRG (hrs)	11874	11900	11926	11949	TAKEN	11974	12004	12016	12046
C-2202 SPRG (hrs)	13050	13076	13102	13125	ON	13150	13179	13191	13222
B-801 SVE (hrs)	13355	13381	13407	13430	5-15-17	13455	13485	13497	13527
C-2301 SPRG (hrs)	13304	13330	13356	13378	RK	13403	13433	13445	13476
C-2302 SPRG (hrs)	13304	13330	13356	13378		13403	13433	13445	13476
SET POINTS									
PAL-701 SVE (wc)	-27	-27	-27	-27		-27	-27	-27	-27
PAH-702 SVE (wc)	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0
PAL-702 SVE (wc)	10.0	10.0	10.0	10.0		10.0	10.0	10.0	10.0
PAH-2201 SPRG (psi)	30.0	30.0	30.0	30.0		30.0	30.0	30.0	30.0
PAL-2201 SPRG (psi)	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
PAL-801 SVE (wc)	-25	-25	-25	-25		-25	-25	-25	-25
PAH-802 SVE (wc)	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0
PAL-802 SVE (wc)	10.0	10.0	10.0	10.0		10.0	10.0	10.0	10.0
PAH-2301 SPRG (psi)	30.0	30.0	30.0	30.0		30.0	30.0	30.0	30.0
PAL-2301 SPRG (psi)	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
SV-2801 SPRG (min)	40	40	40	40		40	40	40	40
SV-2802 SPRG (min)	20	20	20	20		20	20	20	20
SV-2901 SPRG (min)	20	20	20	20		20	20	20	20
SV-2902 SPRG (min)	20	20	20	20		20	20	20	20

WEEKLY DOCUMENTATION SHEET
BUILDING 1
SYSTEM COMPONENTS

DATE	5-29-17	6-5-17	6-11-17	6-19-17	6-26-17	7-03-17	7-10-17	7-17-17	
TIME	4:05 PM	8:39 AM	8:00 AM	10:18 AM	8:24 AM	11:08 AM	11:03 AM	10:25 AM	
OBSERVER'S INITIALS	MG	MG	RK	MG	RK	MG	RK	RK	

SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.

Comments and Notes	* COULD NOT GET READING ~~GOT READING~~ RK	NA	SUNNY NA	SUNNY NA	SUNNY NA	PARTLY CLOUDY NA	RAIN NA	SUN NA	

SOIL VAPOR EXTRACTION (SVE) BLOWER B-701

Pre-Filter Vacuum (-wc)	-27	-28	28	-29	29	-28	30	30	
Post-Filter Vacuum (-wc)	-40	-40	41	-40	41	-40	-39	41	
Inlet Magnehelic* (in H_2O)	0.30	0.30	2.5	0.34	3.0	0.35	0.3.5	0.3.5	
Inlet Vacuum (-wc)	*~~30.8~~	30.1	-30.1	-32.1	-32.3	-30.9	-31.8	-32.2	

SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)

Inlet Pressure (wc)	4	MG ~~4~~ 8	11	13	11	13	16	16	
Inlet Temperature (°F)	125	125	115	123	102	130	105	120	
Outlet Pressure (wc)	10	9.5	10	8.5	10	8.5	9	9	
Outlet Temperature (°F)	100	100	100	96	89	102	94	99	
Water Level Sight Glass (in)	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	

AIR SPARGE (SPRG) COMPRESSOR C-2201

Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	

AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)

Inlet Pressure (psi)	13.5	13.75	14.5	19.2	20	19.6	15	15	
Inlet Temperature (°F)	225	230	230	230	286	246	215	224	
Outlet Pressure (psi)	15.0	15.0	15.5	19.7	20	20	15.5	15.5	
Outlet Temperature (°F)	110	112	116	101	92	111	100	110	

*) plastic pinch valves on tubing to magnehelic gauge closed except wh ing a reading.

WEEKLY DOCUMENTATION SHEET
BUILDING 1
SYSTEM COMPONENTS

DATE	2-8-17	2-13-17	2-20-17	2-27-17	3-6-17	3-13-17	3-21-17	05/15/17	5-22-17
TIME	1330	10:57Am	1000	10:57Am	10:36Am	10:22Am	8:32Am	1200	11:32Am
OBSERVER'S INITIALS	A.H.	RK	A.H.	RK	RK	RK	RK	AS	RK

SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.

Comments and Notes	NA	NA	NA.	NA	NA	NA	NA	NA	NA

SOIL VAPOR EXTRACTION (SVE) BLOWER B-701

Pre-Filter Vacuum (-wc)	30	28	30	28	28	24	28	25	32
Post-Filter Vacuum (-wc)	36	38	38	38	39	38	40	37	40
Inlet Magnehelic* (in H_2O)	0.0	0.0	0.0	0	0	0	0	0.0	3.0
Inlet Vacuum (-wc)	31.0	-30.1	30.6	-32.2	-31.3	-32.7	-32.5	-27.0	-30.2

SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)

Inlet Pressure (wc)	~~8~~ 4	8.2	4.0	10	8	9	10	9	9
Inlet Temperature (°F)	80	90	105	98	100	70	90	125	105
Outlet Pressure (wc)	10	10	10	8	8	8	8	10	10
Outlet Temperature (°F)	74	74	84	80	82	74	80	110	84
Water Level Sight Glass (in)	Ø	Ø	Ø	Ø	Ø	6"	8"	0	0

AIR SPARGE (SPRG) COMPRESSOR C-2201

Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK

AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)

Inlet Pressure (psi)	17.0	19	17.5	18.5	17.5	15.5	19	20.5 ~~21.5~~	14
Inlet Temperature (°F)	176	210	225	205	214	215	215	240	205
Outlet Pressure (psi)	16.5	21	19.0	20	19	16	19	21.5	15
Outlet Temperature (°F)	92	105	104	100	105	110	99	120	90

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading.

WEEKLY DOCUMENTATION SHEET
BUILDING 2
SYSTEM COMPONENTS

DATE	6-11-17	6-19-17	6-26-17	7-3-17	7-10-17	7-17-17			
TIME	7:55AM	10:09 AM	8:18AM	11:22 AM	10:57AM	10:20AM			
OBSERVER'S INITIALS	RK	MG	RK	MG	RK	RK			

SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.

Comments and Notes	SUNNY 80°F	SUNNY 76°F	SUNNY 70°F	PARTLY CLOUDY 82°F	RAIN 78°F	SUN 76°F			

SOIL VAPOR EXTRACTION (SVE) BLOWER B-801

Pre-Filter Vacuum (-wc)	50	-54	59	-65	70	70			
Post-Filter Vacuum (-wc)	55	-59	65	-71	75	85			
Inlet Magnehelic* (in H_2O)	3.0	0.39	3.5	0.45	.5	.5			
Inlet Vacuum (-wc)	-53.9	-59.3	-65.1	-64.3	-76.7	-76.3			

SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)

Inlet Pressure (wc)	53	50	50	46	45	46			
Inlet Temperature (°F)	126	130	127	138	130	126			
Outlet Pressure (wc)	2	2	2	1.5	2	1			
Outlet Temperature (°F)	110	99	92	104	100	100			
Water Level Sight Glass (in)	Ø	Ø	24"	16"	12"	14"			

AIR SPARGE (SPRG) COMPRESSOR C-2301

Upper Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK			
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK			

AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)

Inlet Pressure (psi)	15.5	16.5	18	16.5	17	17.5			
Inlet Temperature (°F)	240	234	224	235	225	226			
Outlet Pressure (psi)	14.5	16.0	16.5	17.0	16	16.5			
Outlet Temperature (°F)	120	112	114	121	124	117			

* [illegible] lastic pinch valves on tubing to magnehelic gauge closed except whe[illegible]ng a reading.

WEEKLY DOCUMENTATION SHEET
BUILDING 2
SYSTEM COMPONENTS

DATE	2-20-17	2-27-17	3-6-17	3-13-17	3-21-17	05-15-17	5-22-17	5-31-17	6-5-17
TIME	0950	10:52Am	10:27Am	10:16 Am	8:26 Am	11:40	10:54Am	10:37 Am	8:20 Am
OBSERVER'S INITIALS	A.H.	RK	RK	RK	RK	AS	RK	MG	MG
SYSTEM LEAKS, EXCESSIVE OR UNFAMILAR NOISE, MOISTURE, ETC.									
Comments and Notes	76°F NA	74°F NA	74°F NA	70°F NA	72.°F NA	80° NA	82°F NA	75°F NA	76°F NA
SOIL VAPOR EXTRACTION (SVE) BLOWER B-801									
Pre-Filter Vacuum (-wc)	32	32	35	38	35	30	36	40	43
Post-Filter Vacuum (-wc)	37	38	39	39	40	34	41	44	48
Inlet Magnehelic* (in H_2O)	0.1	0.1	0.1	0	0.1	0.15	0.15	0.20	0.25
Inlet Vacuum (-wc)	36.1	-37.5	-39.2	-39.9	-39.8	-33.2	-40.9	44.5	48.1
SOIL VAPOR EXTRACTION (SVE) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (wc)	60	60+	59	60+	60+	58.5	58	56	53
Inlet Temperature (°F)	105	100	105	80	98	125	110	120	126
Outlet Pressure (wc)	3.0	3	3	3	3	3	3	3.5	~~2.5~~ MG ~~4.5~~ 2.5
Outlet Temperature (°F)	86	79	80	70	80	100	90	91	97
Water Level Sight Glass (in)	4"	23"	20"	16"	22"	Ø	Ø	Ø	Ø
AIR SPARGE (SPRG) COMPRESSOR C-2301									
Upper Oil Sight Glass (half pt.)	ok	OK	OK	OK	OK	OK	OK	OK	OK
Lower Oil Sight Glass (half pt.)	OK	OK	OK	OK	OK	OK	OK	OK	OK
AIR SPARGE (SPRG) HEAT EXCHANGER (H-XCH)									
Inlet Pressure (psi)	15	14.5	15	14	13.5	15.5	15.5	14	16
Inlet Temperature (°F)	225	220	216	210	224	225	220	225	231
Outlet Pressure (psi)	13	14	12.5	13	13	13	14.5	13.5	14.5
Outlet Temperature (°F)	116	116	116	115	112	125	110	110	116

* Keep plastic pinch valves on tubing to magnehelic gauge closed except when taking a reading.

MONTHLY DOCUMENTATION SHEET
BUILDING 1
SVE MANIFOLD

DATE	7-22-16	9-20-16	10-28-16	11-26-16	1-24-17	2-22-17	3-23-17	05/15/17	6-26-17	7-20-17
TIME	0950	1000am	0950	0930	0945	0930	0920	1210	0925	1310
INITIALS	A.H.	A.H.	A.H.	A.H.	N.P.	A.H.	A.H.	AS	A.H.	A.K.

MAGNEHELIC GAUGE*

SVE-15 (in H_2O)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVE-14 (in H_2O)	1.75	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
SVE-13 (in H_2O)	0.15	0.0	0.15	0.15	0.0	0.1	0.15	0.15	0.25	0.10
SVE-11 (in H_2O)	0.15	0.10	0.10	0.10	0.15	0.15	0.10	0.15	0.20	0.20
SVE-9 (in H_2O)	0.2	0.2	0.02	0.20	0.25	0.20	0.25	0.20	0.25	0.25

VACUUM GAUGE

SVE-15 (-wc)	25	22	28	30	30	30	36	25	30	30
SVE-14 (-wc)	25	22	30	30	30	30	30	26	30	30
SVE-13 (-wc)	25	22	30	30	30	30	35	26	30	30
SVE-11 (-wc)	12	16	18	18	18	14	18	13	15	16
SVE-9 (-wc)	22	22	24	23	30	28	30	0	28	28

* plastic pinch valves on tubing to magnehelic gauge closed except wh[illegible]king a reading.

MONTHLY DOCUMENTATION SHEET
BUILDING 1 UPPER CELL
AIR SPARGE MANIFOLD

DATE	6-21-16	7-22-16	9-20-16	10-28-16	11-28-16	1-24-17	2-22-17	3-23-17	05-15-17	6-26-17
TIME	0835	0950	1000	0950	0930	0945	0930	0920	1205	0925
INITIALS	A.H.	A.H.	A.H.	A.H.	A.H.	N.P.	A.H.	A.H.	AS	A.H.
ROTOMETER										
UPPER CELL AS-47 (scfm)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UPPER CELL AS-38 (scfm)	10	7.0	7.0	6.0	11.0	11.5	11.0	12.0	12.0	11.0
UPPER CELL AS-37 (scfm)	10	8.0	8.0	9.0	12.0	13.0	11.5	12.0	13.0	11.5
UPPER CELL AS-23 (scfm)	10.5	8.0	8.5	8.0	13.0	14.5	12.0	12.5	14.0	12.5
UPPER CELL AS-24 (scfm)	11.0	8.5	9.0	9.0	13.0	14.5	13.0	13.5	15.0	13.5
UPPER CELL AS-39 (scfm)	10.0	8.0	8.0	8.0	12.0	13.0	12.0	12.5	13.5	13.0
UPPER CELL AS-48 (scfm)	10.5	8.0	9.0	9.0	12.5	14.0	12.0	13.0	14.0	13.0
UPPER CELL AS-52 (scfm)	10.0	8.0	8.0	8.5	12.0	13.0	12.0	12.5	13.5	12.0
UPPER CELL AS-56 (scfm)	10.0	8.0	8.0	8.5	11.5	13.0	11.5	12.0	13.0	12.0
UPPER CELL AS-54 (scfm)	10.0	8.0	8.0	8.0	12.0	14.0	12.0	12.5	14.0	12.5
UPPER CELL AS-58 (scfm)	9.0	8.0	8.0	8.0	11.0	12.0	10.5	11.0	12.0	11.0
PRESSURE GAUGE										
UPPER CELL AS-47 (psi)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UPPER CELL AS-38 (psi)	16.5	16.0	14.0	17.0	17.0	12.0	17.0	17.0	17.0	17.0
UPPER CELL AS-37 (psi)	8.0	8.0	8.0	8.5	8.0	8.0	8.0	8.0	8.5	8.5
UPPER CELL AS-23 (psi)	11.5	12.0	11.5	12.5	12.5	12.5	12.0	12.0	~~8.5~~ 13.0	13.0
UPPER CELL AS-24 (psi)	12.5	12.5	12.0	13.0	12.5	13.0	12.0	12.0	13.0 ~~13.0~~	13.0
UPPER CELL AS-39 (psi)	11.5	11.5	11.0	12.0	11.5	11.5	11.0	11.0	12.0	12.0
UPPER CELL AS-48 (psi)	11.0	11.0	11.0	11.5	11.0	11.0	10.5	10.5	11.5	11.0
UPPER CELL AS-52 (psi)	10.5	11.0	11.0	11.0	11.0	11.0	10.5	10.5	11.0	11.0
UPPER CELL AS-56 (psi)	11.0	11.0	11.0	11.0	11.0	11.0	10.5	10.5	11.0	11.0
UPPER CELL AS-54 (psi)	12.5	13.0	12.5	14.0	17.5	14.0	17.5	12.0	14.0	17.5
UPPER CELL AS-58 (psi)	12.0	12.0	11.5	12.0	10.0	10.0	12.0	10.0	9.0	10.0

MONTHLY DOCUMENTATION SHEET
BUILDING 1 LOWER CELL
AIR SPARGE MANIFOLD

DATE	6-21-16	7-22-16	9-20-16	10-28-16	11-28-16	1-24-17	2-22-17	3-23-17	05-15-17	6-20-17
TIME	0835	0950	1000 am	0950	0930	0945	0930	0920	1505	0925
INITIALS	A.H.	A.H	A.H.	A.H	A.H.	N.P.	A.H.	A.H.	AS	A.H.
ROTOMETER										
LOWER CELL AS-49 (scfm)	8.5	7.0	6.0	7.0	9.5	11.0	9.5	10.0	10.5	~~8~~ 10.0
LOWER CELL AS-44 (scfm)	10.0	8.0	7.0	6.0	9.5	8.5	9.5	9.5	8.0	8.0
LOWER CELL AS-31 (scfm)	9.0	6.5	7.5	8.0	10.0	12.0	10.0	10.5	11.0	10.5
LOWER CELL AS-32 (scfm)	9.0	6.5	7.5	8.0	11.0	13.0	11.0	12.0	13.0	11.5
LOWER CELL AS-45 (scfm)	9.5	7.0	7.0	8.0	11.0	14.0	11.5	10.5	14.0	11.5
LOWER CELL AS-51 (scfm)	10.0	8.0	7.5	8.0	12.0	14.5	11.5	12.5	13.5	13.0
LOWER CELL AS-55 (scfm)	12.5	10.0	10.5	11.0	15.0	17.0	14.5	15.0	17.0	15.0
LOWER CELL AS-53 (scfm)	10.5	9.0	8.5	9.0	13.0	14.0	12.5	13.0	15.0	13.0
LOWER CELL AS-59 (scfm)	9.5	7.5	8.5	8.0	11.0	11.0	11.0	11.0	13.5	11.0
LOWER CELL AS-57 (scfm)	8.5	7.0	6.0	6.0	12.0	15.0	12.0	11.0	16.0	11.0
LOWER CELL AS-50 (scfm)	13.0	9.5	10.0	10.5	16.0	17.0	15.0	15.5	18.0	14.5
PRESSURE GAUGE										
LOWER CELL AS-49 (psi)	10.5	10.5	10.5	10.5	10.5	12.0	10.5	14.0	11.0	11.5
LOWER CELL AS-44 (psi)	12.0	11.5	11.0	11.5	12.5	14.0	12.0	~~9.5~~ 13.0	~~11.0~~ 13.5	13.5
LOWER CELL AS-31 (psi)	11.0	11.0	10.5	10.5	10.5	11.5	10.0	11.0	11.0	11.5
LOWER CELL AS-32 (psi)	10.5	10.5	10.5	10.0	11.0	11.5	10.5	13.0	~~12.5~~ 11.0	12.0
LOWER CELL AS-45 (psi)	12.0	11.5	11.5	12.0	12.0	13.0	12.0	12.5	12.5	13.0
LOWER CELL AS-51 (psi)	11.0	11.0	10.5	10.5	11.0	11.5	10.5	11.5	11.5	12.0
LOWER CELL AS-55 (psi)	11.0	11.0	10.5	10.5	11.0	11.5	10.5	11.5	11.5	12.0
LOWER CELL AS-53 (psi)	11.5	11.0	11.0	11.0	12.0	12.0	11.0	12.0	12.0	13.0
LOWER CELL AS-59 (psi)	11.5	11.0	11.0	11.0	11.5	12.0	11.0	12.0	11.5	12.5
LOWER CELL AS-57 (psi)	12.0	11.5	11.5	11.5	12.5	13.0	12.0	13.0	13.0	13.5
LOWER CELL AS-50 (psi)	12.0	12.0	11.5	12.0	12.5	13.0	12.0	13.0	13.0	14.0

MONTHLY DOCUMENTATION SHEET
BUILDING 1
PID MEASUREMENTS

DATE	5/19/16	6-21-16	7-22-16	9-20-16	10-25-16	11-25-16	1-24-17	2-22-17	3-23-17	05-15-17	6-26-17	7-20-17
TIME	0930	0835	0950	1000 am	0950	0930	0945	0930	0920	1235	0925	1310
INITIALS	MP	A.H.	A.H.	A.H.	A.H.	A.H.	N.P	A.H.	A.H.	AS	A.H.	A.H.

SVE Effluent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVE - 15	0.0	0.0	0.0	0.0	0.0	water	0.0	water	water	0.0	0.0	0.0
SVE - 14	0.0	0.0	0.0	0.0	0.0		0.0			0.0	0.0	0.0
SVE - 13	0.0	0.0	0.0	0.0	0.0		0.0			0.0	0.0	0.0
SVE - 11	0.0	0.0	0.0	0.0	0.0		0.0			0.0	0.0	0.0
SVE - 9	0.0	0.0	0.0	0.0	0.0		0.0			0.0	0.0	0.0
Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

MONTHLY DOCUMENTATION SHEET
BUILDING 2
SVE MANIFOLD

DATE	7-22-16	9-20-16	10-28-16	11-28-16	1-24-17	2-22-17	3-23-17	5-15-17	6-26-17	7-20-17
TIME	0940	1450	0005	0925	~~0745~~ 0920	0920	0910	1140	0915	1305
INITIALS	A.H.	A.H.	A.H.	A.H.	N.P.	A.H.	A.H.	AS	A.H.	AK

MAGNEHELIC GAUGE*

SVE-10 (in H_2O)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20
SVE-12 (in H_2O)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVE-8 (in H_2O)	0.2	0.15	0.20	0.30	0.6	0.35	0.4	0.20	0.65	1.1
SVE-7 (in H_2O)	0.1	0.1	0.05	0.10	0.3	0.15	~~0.0~~ 0.10 AH	0.10	0.30	0.35

VACUUM GAUGE

SVE-10 (-wc)	30	0	53	60	35	38	55	52	74	75
SVE-12 (-wc)	26	0	30	23	35	20	35	24	58	70
SVE-8 (-wc)	25	20	40	47	45	~~20~~ 30 AH	40	4	56	65
SVE-7 (-wc)	60	55	72	68	75	60	68	60	67	55

ELECTRICAL USAGE

Kilowatts (kwh)	392208.60	393568.3	451790.30	513531.76	521427.50	569740.80	626548.60		714225.80	763776.00

* plastic pinch valves on tubing to magnehelic gauge closed except wh[illegible]king a reading.

MONTHLY DOCUMENTATION SHEET
BUILDING 2 UPPER CELL
AIR SPARGE MANIFOLD

	DATE	6-21-16	7-22-16	9-20-16	10-28-16	11-28-16	1-24-17	2-22-17	3-23-17	05/15/17	6-26-17
	TIME	0840	0940	1450	1005	0925	~~0715~~ 0920	0920	0916	1605	0965
	INITIALS	A.H.	A.H	A.H	A.H	A.H	N.P.	A.H.	A.H	AS	A.H
	ROTOMETER										
UPPER CELL	AS-20 (scfm)	13.5	13.0	13.0	13.0	11.5	13.0	11.5	11.5	12.5	12.0
	AS-26 (scfm)	7.0	7.5	7.5	7.0	6.5	8.0	6.0	6.0	6.5	7.0
	AS-16 (scfm)	15.0	15.0	15.0	14.5	13.0	15.5	13.0	12.0	14.0	14.0
	AS-18 (scfm)	8.0	8.0	8.0	7.5	7.0	8.0	7.0	6.5	8.0	7.0
	AS-22 (scfm)	11.5	11.5	11.5	11.0	10.0	12.0	10.5	10.0	11.0	11.0
	AS-28 (scfm)	11.5	11.5	11.5	11.0	10.0	12.0	10.0	9.5	11.0	11.0
	AS-30 (scfm)	16.5	16.0	16.0	15.5	14.0	16.0	14.0	13.0	16.0	15.0
	AS-36 (scfm)	13.0	13.0	13.0	12.0	11.0	13.0	11.0	10.5	12.5	11.5
	AS-42 (scfm)	9.0	9.0	9.0	8.0	8.0	9.0	7.5	7.5	8.5	8.0
	AS-40 (scfm)	17.0	16.0	16.0	16.0	14.0	16.5	14.0	14.0	16.5	15.0
	AS-34 (scfm)	24.0	24.0	24.0	24.0	20.0	23.5	20.0	19.5	24.0	21.5
	PRESSURE GAUGE										
UPPER CELL	AS-20 (psi)	10.5	11.0	11.0	10.0	11.0	11.0	10.5	10.5	10.5	11.5
	AS-26 (psi)	11.0	11.5	11.0	11.0	11.0	11.5	11.0	11.0	11.0	12.0
	AS-16 (psi)	10.5	11.0	10.5	10.5	11.0	11.0	10.5	10.5	10.5	11.5
	AS-18 (psi)	15.0	15.5	15.0	14.5	15.0	16.0	14.0	14.0	14.5	15.5
	AS-22 (psi)	10.5	11.0	10.5	10.5	11.0	11.0	10.0	10.5	10.5	11.5
	AS-28 (psi)	11.5	12.0	12.0	11.0	11.5	12.0	11.0	11.0	11.5	12.5
	AS-30 (psi)	11.0	11.5	11.5	11.0	11.0	12.0	11.0	11.0	11.5	12.0
	AS-36 (psi)	12.5	13.0	12.5	12.0	12.5	13.0	12.5	12.5	13.5	13.5
	AS-42 (psi)	11.0	11.5	11.0	11.0	11.5	11.5	11.0	11.0	11.0	12.0
	AS-40 (psi)	11.5	12.0	12.0	11.0	11.5	12.0	11.5	11.5	11.5	12.5
	AS-34 (psi)	12.0	12.5	12.5	12.0	12.0	13.0	12.0	12.0	13.0	13.0

MONTHLY DOCUMENTATION SHEET
BUILDING 2 LOWER CELL
AIR SPARGE MANIFOLD

DATE	6-21-16	7-22-16	9-20-16	10-28-16	10-28-16	1-24-17	2-22-17	3-23-17	05/15/17	6-26-17
TIME	0840	0940	1450	1005	0925	0750 0920	0920	0910	1130	0915
INITIALS	A.H.	A.H.	A.H.	A.H.	A.H.	N.P.	A.H.	A.H.	AH	A.H.
ROTOMETER										
LOWER CELL AS-27 (scfm)	13.0	13.0	15.0	12.5	11.5	14.5	11.5	11.0	13.0	12.0
LOWER CELL AS-25 (scfm)	15.0	14.5	17.0	14.0	13.0	15.5	12.5	12.0	14.0	13.5
LOWER CELL AS-17 (scfm)	13.0	13.0	15.0	12.0	11.0	14.0	12.0	11.0	12.5	11.5
LOWER CELL AS-19 (scfm)	14.0	14.5	16.5	13.0	11.5	15.5	16.0	11.5	13.5	13.0
LOWER CELL AS-21 (scfm)	18.5	20.0	22.0	18.0	16.0	20.5	8.0	15.5	18.5	18.5
LOWER CELL AS-29 (scfm)	9.5	10.0	11.0	8.5	8.0	10.5	8.5	8.0	9.5	8.5
LOWER CELL AS-43 (scfm)	10.0	10.0	11.0	9.5	8.5	10.5	8.5	8.5	9.5	9.0
LOWER CELL AS-46 (scfm)	20.0	20.0	23.0	19.0	17.0	22.0	17.0	16.5	20.0	19.0
LOWER CELL AS-41 (scfm)	11.0	11.0	13.5	11.0	10.0	12.0	10.0	9.5	11.0	10.0
LOWER CELL AS-33 (scfm)	16.0	16.5	18.5	15.0	14.5	18.0	14.0	13.5	16.0	15.5
LOWER CELL AS-35 (scfm)	12.5	13.0	14.0	12.0	11.0	14.0	11.0	10.5	12.5	11.5
PRESSURE GAUGE										
LOWER CELL AS-27 (psi)	12.0	11.5	12.0	11.5	11.0	11.5	11.0	11.0	11.5	11.5
LOWER CELL AS-25 (psi)	11.5	11.0	11.5	11.0	11.0	11.0	10.5	10.5	11.0	11.5
LOWER CELL AS-17 (psi)	11.5	11.0	11.5	11.0	11.0	11.0	11.0	10.5	11.5	11.5
LOWER CELL AS-19 (psi)	13.5	12.5	13.5	13.0	12.5	13.0	12.0	12.0	13.0	13.0
LOWER CELL AS-21 (psi)	12.0	11.5	12.0	12.0	11.5	11.5	11.0	11.0	12.0	11.5
LOWER CELL AS-29 (psi)	12.5	12.0	12.5	12.5	11.5	12.0	11.5	11.5	12.0	12.0
LOWER CELL AS-43 (psi)	11.0	10.5	11.0	11.0	10.5	11.0	10.5	10.5	11.0	11.0
LOWER CELL AS-46 (psi)	11.5	12.0	12.5	12.0	12.0	12.0	11.5	11.5	12.0	12.0
LOWER CELL AS-41 (psi)	11.0	10.5	11.0	10.5	10.5	10.5	10.5	10.5	11.0	11.0
LOWER CELL AS-33 (psi)	11.5	11.0	12.0	11.5	11.0	11.0	10.5	10.5	11.5	11.5
LOWER CELL AS-35 (psi)	11.5	11.0	11.5	11.0	11.0	11.0	10.5	10.5	11.0	11.0

MONTHLY DOCUMENTATION SHEET
BUILDING 2
PID MEASUREMENTS

DATE	5/19/16	6-21-16	7-22-16	9-20-16	10-28-16	10-28-16	1-24-17	2-22-17	3-23-17	5-15-17	6-26-17	07-20-17
TIME	0915	0840	0940	1450	1005	0925	0759	0920	0910	1130	0915	1305
INITIALS	NP	A.H.	A.H.	A.H.	A.H.	A.H.	N.P.	A.H.	A.H.	AS	A.H.	A.H.
SVE Effluent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVE - 10	0.0	0.0	0.0	0.0	water	water	0.0	water	water	water	water	water
SVE - 12	0.0	0.0	0.0	0.0	↓	↓	0.0	↓	↓	↓	↓	↓
SVE - 8	0.0	0.0	0.0	0.0	↓	↓	0.0	↓	↓	↓	↓	↓
SVE - 7	0.0	0.0	0.0	0.0	↓	↓	0.0	↓	↓	↓	↓	↓
Exhaust	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Appendix D

Second Quarter 2017 Groundwater Sampling Data Sheets

May 2017 Groundwater Sampling Checklist

Well ID	Depth to Water	Date of Water Level Reading	Depth of Intake	Sample Date	Total Depth	Notes
RAMW-01	29.84	5/9/2017	38.00	5/10/17 1165	46.02	FBLK02 - 1535
RAMW-02	29.74		37.00	5/10/17 1505	44.86	Collect MS/MSD02
RAMW-03	29.54		38.00	5/10/17 1350	45.25	HSSER-DUP02 - 0000
RAMW-04	29.43		41.00	5/10/17 1215	44.88	EBLK02 - 1145
RAMW-05	28.31		36.00	5/10/17 1125	43.75	
RAMW-06	28.33		37.00	5/10/17 1015	44.30	
RAMW-07	32.83		41.00	5/9/17 1400	48.68	
RAMW-08	29.00		37.00	5/9/17 1235	44.34	
GMZ-01	32.29		40.00	5/9/17 1345	47.77	
GMZ-02	29.81		37.00	5/11/17 0900	44.81	Collect MS/MSD01
GMZ-03	29.20		37.00	5/11/17 1030	44.65	HSSER-DUP01 - 0000
GMZ-04	27.53		38.00	5/11/17 1510	44.98	
MW-07FGA	27.68		39.00	5/10/17 1220	46.52	
MW-203	28.47		40.00	5/10/17 1135	48.95	
PMW-01	29.92		37.00	5/11/17 0915	44.21	
PMW-02	29.90		37.00	5/11/17 1040	44.95	EBLK01 - 0935
SMW-01	30.38		32.00	5/9/17 1155	39.20	
SMW-02	27.00		32.00	5/10/17 1040	39.73	
SMW-04	29.49		35.00	5/11/17 1150	42.36	
SMW-08	30.21		34.00	5/9/17 1045	41.84	FBLK01 - 0930
SMW-19	28.62		35.00	5/10/17 1400	41.05	
SMW-20	28.61		33.00	5/11/17 1145	40.07	
SMW-21	28.13		34.00	5/10/17 1625	41.46	
BGW-01	28.45		N/A	N/A	—	Not Sampled
BGW-02	28.95		N/A	N/A	—	Not Sampled
BGW-03	29.02	↓	N/A	N/A	—	Not Sampled