SIMCOE LLC

(formerly BPX Energy Inc.)

REVIEWED

By Mike Buchanan at 3:44 pm, Jan 16, 2024

REMEDIATION REPORT

Review of the 2020 Remediation Report for Sandoval Gas Com A 001A: Content Satisfactory

1. Continue operating and conducting O&M as prescribed for the SVE system on site. 2. When appropriate, advance soil borings in soil to confirm closure requirements have been met for TPH, BTEX and chlorides in

3. Options for re-drilling or replacement will need to be considered for MW#1 and MW3# as both have not produced a viable sample due to insufficient volume

every calendar year.

SANDOVAL GAS COM A 001 since 2013. (C) SECTION 35, T30N, R9W, NI annual reports and SAN JUAN COUNTY, NEW MEX documentation as necessary by April 1 of

PREPARED FOR: NEW MEXICO OIL CONSERVATION DIVISION

JANUARY 2021

PREPARED BY: SIMCOE LLC 1100 Main Ave., Suite 101 Durango, Colorado 81301

SIMCOE LLC Sandoval GC A # 1A

Unit Letter C, Sec. 35, T30N, R09W

Incident #: nCS1803742861 API #: 3004522294

Monitor Well Installation Dates: BH-1 (09/20/2006), MW #2 (08/22/2011), MW #1

(12/02/2011), MW #3 (12/05/2011), MW #4 (12/06/2011).

Monitor Well Sampling Dates: 08/30/11, 12/09/11, 02/09/12, 06/21/12, 09/20/12,

12/20/12, 03/28/19, 06/24/19, 09/19/19, 12/10/19,

03/30/20, 06/01/20, 09/14/20, 12/15/20.

Soil Vapor Extraction System Installation: October 2018.

Impact Discovery Background:

10/28/2003	Unlined/earthen pit closure initiated. Vertical extent not established with backhoe.
09/20/2006	Boring advanced with drill rig to determine vertical extent. Hollow stem auger refusal at 17 feet
	below grade (large cobbles encountered).
08/22/2011	Installed monitor/test well within source area (MW #2) using air powered hammer drilling method.
12/02/2011	Installed up gradient monitor/test well (MW #1) using same method noted for MW #2.
12/05/2011	Installed suspected side gradient monitor/test well (MW #3) using same method noted for MW #2.
12/05/2011	Installed suspected down gradient monitor/test well (MW #4) using same method noted for MW #2.
01/30/2018	Form C-141 initial report submitted to the New Mexico Oil Conservation Division (NMOCD).
	Included were the earthen pit closure documentation with lab analyses, bore hole logs, 1998
	NMOCD correspondence letter, and transmission operator site map.
02/06/2018	NMOCD approved Form C-141 and stated additional remediation is required. Assigned
	administrative & order # 3RP-1057 and incident # nCS1803742861 [NMOCD filename [FN]:
	pcs1731132655_1_ao.pdf].
03/05/2018	Remediation plan submitted to the NMOCD.
04/13/2018	NMOCD approves remediation plan with stated conditions [NMOCD online well file FN:
	nCS1803742861_18_wf.pdf].

Groundwater Monitor Well Sampling Procedures:

Test/monitor wells were initially purged using a battery-operated 1½ inch submersible pump and utilizing new vinyl tubing. Starting in 2019, new disposable bailers have been employed per event during the sampling of MW #2. Water samples were collected following US EPA: SW-846 protocol, placed into laboratory supplied containers with appropriate preservative, and stored in an ice chest for express delivery to an analytical laboratory for testing under strict chain-of-custody procedures. Analytical testing for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by US EPA Method 8021B or 8260B was conducted as well as regulated general chemistry parameters from MW #1 only.

Fluids generated during test/monitor well purging were managed by discarding into the separator's pre-existing below-grade tank (BGT) or the currently used above-grade tank (AGT) located on the well site. The BGT and AGT contents were eventually disposed through approved NMOCD operational procedures for removal of produced fluids.

Soil Vapor Extraction System Data:

The soil vapor extraction system (**SVE**) was installed and commenced operation in October 2018. Weekly to monthly monitoring and/or inspections have been ongoing to the present. Volatile organic compounds exhaust [organic vapor meter (OVM) readings] and exhaust vacuum pressure have been recorded and documented (see Soil Vapor Extraction Data Section). The initial and subsequent annual effluent air samples were collected and are included within this report.

Water Quality and Gradient Information:

Quarterly sampling of the groundwater monitor wells was conducted from August 2011 to June 2013. Afterward, insufficient water quantity within MW #1 was measured and has not changed since. Light non-aqueous phase liquid (LNAPL) was initially observed within MW #2 in March 2013. After the SVE start up in October 2018, LNAPL in MW #2 appears to have been removed and quarterly sampling resumed in March 2019. A historical summary of laboratory analytical results as well as field/laboratory reports are included within this report.

Due to LNAPL and the SVE effects in MW #2 as well as lack of water observed within MW #1 and MW #3 since June 2013, contour maps could not be generated within the relative degree of accuracy required.

Summary and/or Recommendations:

The SVE system appears to have effectively removed the LNAPL observed within MW #2. Continued operation and monitoring of the SVE system is recommended. In the future, SIMCOE will eventually advance subsurface borings to verify closure standards for Total Petroleum Hydrocarbons, BTEX, and chlorides in soils are met.

Since this discovery of impacts originated from an earthen/unlined pit, management of the sampling and testing was pursuant to the previous operator's (BP America Production Company) NMOCD approved Groundwater Management Plan (**GMP**). MW #2 continues to record elevated benzene, toluene, and total xylenes above the New Mexico Water Quality Control Commission allowable concentrations. This condition is most likely caused by the quantity of impacts remaining that is not directly acted upon by the SVE system. It is recommended to continue monitoring and testing from MW #2 on an annual basis at a minimum. This site will continue to utilize and maintain site specific sampling frequency stated within the GMP.

SIMCOE LLC

WATER/FLUID FIELD DATA & LAB RESULTS

Sandoval GC A # 1A - Compr. pit UNIT C, SEC. 35, T30N, R9W

REVISED DATE: December 31, 2020 Submitted by Blagg Engineering, Inc.

				_				BTEX	US EPA METH	OD 8021B or	8260B
SAMPLE	WELL NAME	DEPTH TO	WELL	TDS	CONDUCT.	рН	FREE PHASE	BENZENE	TOLUENE	ETHYL	TOTAL
DATE	/ NUMBER	WATER	DEPTH			•	PRODUCT			BENZENE	XYLENES
		(ft)	(ft)	(mg/L)	(umhos)		(ft)	(ppb)	(ppb)	(ppb)	(ppb)
12/00/11	D 4) A / #4	24.07	40.00		2 100	7.46	1 1	200	1.000	Ε0.	F40
12/09/11	MW #1	34.97	40.00		3,100	7.46		280	1,000	50	540
02/09/12		35.01			3,300	6.82		210	<5.0	9.3 <1.0	230
06/21/12 09/20/12		37.13			3,300	6.78 6.94		<1.0	<1.0		1.3 <2.0
12/20/12		36.08 37.22			3,700 2,700			55 22	<1.0 <1.0	<1.0 <1.0	<2.0
03/19/13					2,700	6.90					
		38.29			,	7.21		1.4	4.3 <1.0	<1.0 <1.0	41 <2.0
06/19/13		39.31			2,100	7.31		<1.0			
08/30/11	MW #2	33.54	40.00		2,400	7.38		990	6,700	710	10,000
12/09/11		33.57			3,300	7.04		1,900	8,600	930	13,000
02/09/12		33.56			2,800	6.90		1,900	7,500	800	12,000
06/21/12		33.70			2,600	6.87		2,600	10,000	700	18,000
09/20/12		33.78			2,600	6.90		2,200	9,900	970	47,000
12/20/12		33.85			2,200	7.01		2,800	7,600	640	18,000
03/19/13		33.95					0.21				
06/19/13		34.01					0.26				
08/26/13		33.98					0.11				
12/17/13		34.23					0.38				
03/11/14		34.21					0.39				
06/25/14		34.31					0.42				
08/28/14		34.05					0.23				
12/03/14		34.48					0.64				
03/31/15		34.60					0.68				
05/26/15		35.13					0.54				
08/29/15		34.39					>2.25				
11/30/15		34.66					>2.50				
02/24/16		35.95					?				
05/24/16		37.55					3.61				
09/23/16		37.89					3.24				
12/08/16		36.99					2.88				
03/31/17		36.83					?				
05/28/17		36.97					3.06				
09/12/17		36.74					?				
06/30/18		36.38					2.10				
09/27/18		?					>3.23				
03/28/19		34.15			1,700	7.01		1,400	230	1,500	23,000
06/24/19		34.11			1,350	7.12		920	200	1,000	21,000
09/19/19		34.31			1,050	6.92		920	<100	840	17,000
12/10/20		34.13			1,200	7.17		800	<100	780	16,000
03/30/20		34.13			1,500	7.14		570	<100	850	18,000
06/01/20		35.53			1,300	6.98		570	<50	870	17,000
09/14/20		36.96			1,300	7.01		620	150	790	15,000
12/15/20		35.85			1,400	7.07	1	1,400	13	830	13,000
				ı				•	1	1	

	SAMPLE DATE	WELL NAME /NUMBER	Fluoride (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	TDS (mg/L)	Iron (mg/L)
	06/19/13	MW #1	0.15	91	2,200	<0.10	3,880	2.3
NMWQCC GROUP	NDWATER ST	TANDARDS	1.60	250	600	10	1,000	1.0

NMWQCC GROUNDWATER STANDARDS

NOTES:

- 1) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS &/OR BACKGROUND.
- 2) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PREVIOUS EXCEEDED.
- 3) NMWQCC INDICATES NEW MEXICO WATER QUALITY CONTROL COMMISSION (levels not to exceed allowable threshold noted or background levels MW #1 serves as background data when applicable)
- 4) SOIL VAPOR EXTRACTION SYSTEM (SVE) OFFICIAL START UP DATE OCTOBER 29, 2018.
- 5) Depth to Water measured from top of well casing
- 9) NMWQCC pH allowable range between 6-9

6) TDS - Total Dissolved Solids

10) μg/L - Micrograms per liter

7) mg/L - Milligrams per liter8) μmhos - Micro ohms

11) (-) - Not analyzed

750

750

620

P.O. BOX 87 **BLOOMFIELD, NEW MEXICO 87413**

PHONE: (505) 632-1199

FILENAME: SANDOVAL GC A 1A-SM3.SKF

REVISED: 12-08-11

MAP 11/11

Released to Imaging: 1/17/2024 9:23:18 AM

NE/4 NW/4 SEC. 35, T30N, R9W

SAN JUAN COUNTY, NEW MEXICO

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOT-AGE & BEARING FROM THE WELL HEAD (TAPE MEAS-URE, LASER RANGE FINDER, & BRUNTON COMPASS) ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E.

BP AMERICA PRODUCTION CO.

NE/4 NW/4 SEC. 35, T30N, R9W

SAN JUAN COUNTY, NEW MEXICO

B LAGG ENGINEERING.

SANDOVAL GC A # 1A CONSULTING PETROLEUM / RECLAMATION SERVICES

> P.O. BOX 87 **BLOOMFIELD, NEW MEXICO 87413**

> > PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

FILENAME: SANDOVAL GC A 1A-SM5.SKF

REVISED: 07-26-12



80 FT.

40

AGE & BEARING FROM THE WELL HEAD (TAPE MEAS-URE, LASER RANGE FINDER, & BRUNTON COMPASS) ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E.

SANDOVAL GC A # 1A

SAN JUAN COUNTY, NEW MEXICO

B LAGG ENGINEERING.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87 **BLOOMFIELD, NEW MEXICO 87413**

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

FILENAME: SANDOVAL GC A 1A-SM6.SKF

REVISED: 10-23-12



80 FT.

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MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOT-

BP AMERICA PRODUCTION CO. NE/4 NW/4 SEC. 35, T30N, R9W

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOT AGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALO THER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E.

NE/4 NW/4 SEC. 35, T30N, R9W

SAN JUAN COUNTY, NEW MEXICO

B LAGG ENGINEERING, IN

SANDOVAL GC A # 1A CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

FILENAME: SANDOVAL GC A 1A-SM7.SKF

REVISED: 12-31-12



80 FT.

40

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DRAWING: SANDOVAL GC A 1A BH1.SKF DATE: 03/19/07 DWN BY: NJV

40

Hall Environmental Analysis Laboratory, Inc.

Blagg Engineering

Client Sample ID: BH1 @15'-17' COMPRESSOR P

Date: 06-Oct-06

CLIENT: Lab Order:

0609259

0609259-01

Collection Date: 9/20/2006 12:18:00 PM

Project: Lab 1D: Sandoval GC A #1A

Date Received: 9/21/2006

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS					Алаlyst: SCC
Diesel Range Organics (DRO)	1800	200		mg/Kg	20	9/26/2006 11:49:36 PM
Motor Oil Range Organics (MRO)	6800	1000		mg/Kg	20	9/26/2006 11:49:36 PM
Surr: DNOP	0	61.7-135	S	%REC	20	9/26/2006 11:49:36 PM
EPA METHOD 8015B: GASOLINE R.	ANGE					Алаlyst: BDH
Gasoline Range Organics (GRO)	8200	250		mg/Kg	50	9/29/2006 2:50:06 PM
Surr: BFB	348	84.5-129	S	%REC	50	9/29/2006 2:50:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: BDH
Benzene	19	2.5		mg/Kg	50	9/29/2006 2:50:06 PM
Toluene	320	5.0		mg/Kg	100	10/1/2006 6:10:42 PM
Ethylbenzene	64	2.5		mg/Kg	50	9/29/2006 2:50:06 PM
Xylenes, Total	780	15		mg/Kg	100	10/1/2006 6:10:42 PM
Surr: 4-Bromofluorobenzene	124	76.8-115	S	%REC	50	9/29/2006 2:50:06 PM
EPA METHOD 9056A: ANIONS						Analyst: TES
Chloride	5.5	1.5		mg/Kg	5	9/26/2006 3:18:32 PM

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

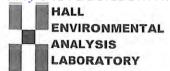
MCL Maximum Contaminant Level

RL Reporting Limit

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Received by OCD: 2/1/2021 10:00:37 QA / QC Package: HALL ENVIRONMENTAL Std 🗖 Level 4 🗖 **CHAIN-OF-CUSTODY RECORD ANALYSIS LABORATORY** Other: 4901 Hawkins NE, Suite D Client: BLAGG ENGR. | BP AMERICA Albuquerque, New Mexico 87109 Project Name: Tel. 505.345.3975 Fax 505.345.4107 SANDOVAL GC A #IA www.hallenvironmental.com Address: P.O. BOX 87 **ANALYSIS REQUEST** Project #: BLFD., NM 874/3 カリ BTEX + MT8E + TPH (Gasoline Only) Project Manager: (BTEX)+-MATBE-1-TMB's (8021) Air Bubbles or Headspace (Y or N) TPH Method 8015B (Gas/Diesel) Anions (F, Cl, NO₃, NO₂, PO₄, SO₄) 8081 Pesticides / PCB's (8082) NV Phone #: 632-1199 Sampler: NV EDB (Method 504.1) TPH (Method 418.1) EDC (Method 8021) 8310 (PNA or PAH) CHLORIDE 8270 (Semi-VOA) Fax #: Sample Temperature: RCRA 8 Metals 8260B (VOA) Preservative Date Time Matrix Sample I.D. No. Number/Volume HEAL No. HgCl₂ HNO₃ cool 0609259 BH1 @ 15-17' 9/20/06 1218 501L 1-402. COMPRESSOR PIT Relinquished By (Signature) Received By: (Signature)
Received By: (Signature) 9-21-060 Remarks: 0730 1610 Relinguished By: (Signature)



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Num	ber: 2006046		RcptNo: 1	
Received By: Emily Mocho	6/2/2020 8:00:00 A	M			
Completed By: Isaiah Ortiz	6/2/2020 8:29:08 A	M	1,0	4	
Reviewed By: JR 64120					
Chain of Custody	R 6/2/20				
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the sample	s?	Yes 🗸	No 🗌	NA 🗆	
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated tes	t(s)?	Yes 🗸	No 🗆		
7. Are samples (except VOA and ONG) prop		Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗸	NA 🗆	
9. Received at least 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers received bro	ken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗆	bottles checked for pH: (<2 or >12 unless no	ited)
12. Are matrices correctly identified on Chain	of Custody?	Yes 🗸	No 🗆	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗸	No 🗌	/	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗌	checked by: GM Ce 12	126
Special Handling (if applicable)					
15. Was client notified of all discrepancies wi	th this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail P	hone Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information Cooler No Temp °C Condition 1 6.6 Good	Seal Intact Seal No Not Present	Seal Date	Signed By		

Hall Environmental Analysis Laboratory, Inc.

Date: 06-Oct-06

CLIENT:

Blagg Engineering

Project:

Sandoval GC A #1A

Lab Order:

0609259

CASE NARRATIVE

Analytical Comments for METHOD 8015DRO_S, SAMPLE 0609259-01A: DNOP not recovered due to dilution

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Date: 06-Oct-06

QA/QC SUMMARY REPORT

Client:

Blagg Engineering

Project: Sandoval GC A #1A

Work Order:

0609259

										VOU 92.39
Analyte	Result	Units	PQL	%Rec	LowLimit F	HighLimit	%RPD	RPDI	Limit (Qual
Method: SW9056A										
Sample ID: MB-11355		MBLK			Batch ID	: 11355	Analysis [)ate:	9/26/20	061:34:07 PM
Chloride	ND	mg/Kg	0.30							
Sample ID: LCS-11355		LCS			Batch ID	: 11355	Analysis D)ale: 9	9/26/200	16 12:24:29 PM
Chloride	14.68	mg/Kg	0.30	97.9	90	110				
Method: SW8015										
Sample ID: MB-11335		MBLK			Batch ID	: 11335	Analysis E)ate:	9/22/20	1068:31:32 PM
Diesel Range Organics (DRO)	ND	mg/Kg	10							
Motor Oil Range Organics (MRO)	ND	mg/Kg	50							
Sample ID: LCS-11335		LCS			Batch ID	: 11335	Analysis D	ate:	9/22/20	069:06:03 PM
Diesel Range Organics (DRO)	39.52	mg/Kg	10	79.0	64.6	116				
Sample ID: LCSD-11335		LCSD			Batch ID	: 11335	Analysis D	ate:	9/22/20	069:40:51 PM
Diesel Range Organics (DRO)	37.46	mg/Kg	10	74.9	64.6	116	5.35	17.4	ļ	
Method: SW8015										
Sample ID: MB-11343		MBLK			Batch ID	: 11343	Analysis D	ate:	9/26/20	06 1:06:36 AM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0				•			
Sample ID: LCS-11343		LCŞ			Batch ID	: 11343	Analysis D	ate:	9/26/20	06 1:36:35 AM
Gasoline Range Organics (GRO)	21.20	mg/Kg	5.0	80.8	73,4	115	•			
Sample ID: LCSD-11343		LCSD			Batch ID		Analysis D	ate:	9/26/20	06 2:06:38 AM
Gasoline Range Organics (GRO)	20.60	mg/Kg	5.0	78.4	73.4	115	2.87	11.6	,	
Method: SW8021					Po. 17: 7 to the second control to				THE THE PERSON NAMED IN COLUMN	
Sample ID: MB-11343		MBLK			Batch ID	: 11343	Analysis D	ate:	9/26/20	061:06:36 AM
Benzene	ND	mg/Kg	0.050						-,,	
Toluene	ND	mg/Kg	0.050							
Ethylbenzene	ND	mg/Kg	0.050							
Xylenes, Total	ND	mg/Kg	0.15							
Sample ID: LCS-11343	•	LCS			Batch ID	: 11343	Analysis D	ale:	9/26/20	06 1:36:35 AM
Benzene	0.2887	mg/Kg	0.050	111	77.5	123				
Toluene	2.015	mg/Kg	0.050	110	85.3	129				
Ethylbenzene	0.3749	mg/Kg	0.050	104	79.6	121				
Xylenes, Total	2.318	mg/Kg	0.15	107	80	130				
Sample ID: LCSD-11343		LCSD			Batch ID	: 11343	Analysis D	ate:	9/26/20	06 2:06:38 AM
Benzene	0.2927	mg/Kg	0.050	113	77.5	123	1.38	27		
Toluene	2.044	mg/Kg	0.050	112	85.3	129	1.42	19		
Ethylbenzene	0.3802	mg/Kg	0.050	106	79.6	121	1.40	10		
Xylenes, Total	2.342	mg/Kg	0.15	108	80	130	1.05	13		

Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist Client Name BLAGG Date and Time Received: 9/21/2006 Work Order Number 0609259 Received by **GLS** Checklist completed by Matrix Carrier name Greyhound Yes 🗹 Shipping container/cooler in good condition? No \square Not Present Custody seals intact on shipping container/cooler? Yes 🗹 No 🗆 Not Present Not Shipped Custody seals intact on sample bottles? Yes 🗌 No 🗆 \checkmark N/A Chain of custody present? Yes 🗹 No 🗆 Chain of custody signed when relinquished and received? Yes 🗹 No 🗆 Yes 🔽 No 🗆 Chain of custody agrees with sample labels? Samples in proper container/bottle? Yes 🔽 No 🗆 Sample containers intact? Yes 🗹 No 🗆 Sufficient sample volume for indicated test? Yes 🔽 No \square All samples received within holding time? Yes 🗹 No 🗆 No VOA vials submitted 🔽 Yes No 🗌 Water - VOA vials have zero headspace? Water - pH acceptable upon receipt? Yes 🗌 No 🗆 N/A Container/Temp Blank temperature? 4° C ± 2 Acceptable 6° If given sufficient time to cool. COMMENTS: Client contacted Date contacted: Person contacted Contacted by: Regarding Comments: Corrective Action

P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199

MW # 1

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME: CONTRACTOR:

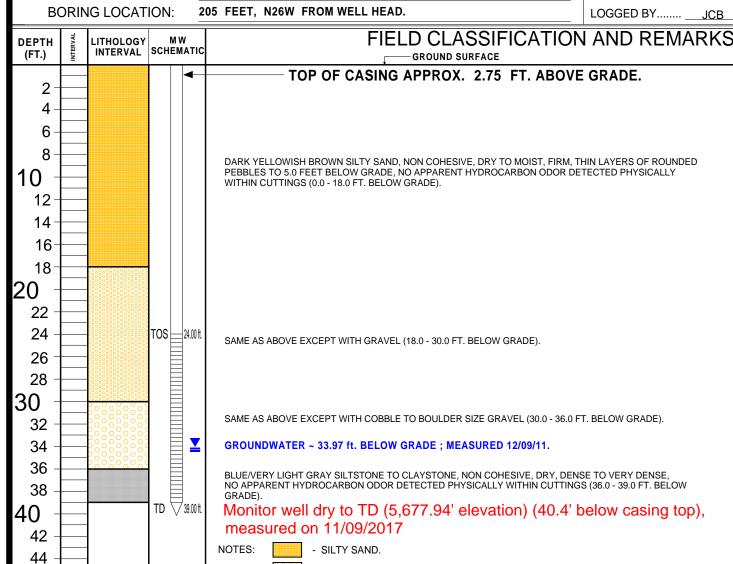
EQUIPMENT USED:

BP AMERICA PRODUCTION CO

SANDOVAL GC A # 1A COMPRESSOR PIT UNIT C, SEC. 35, T30N, R9W BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG (CME 75) - TUBEX SYSTEM

BORING #..... BH - 3 MW #..... 1 PAGE #.....___ DATE STARTED __12/01/11 DATE FINISHED __12/02/11 OPERATOR..... KP LOGGED BY.....



SAME AS ABOVE EXCEPT WITH COBBLE TO BOULDER SIZE GRAVEL (30.0 - 36.0 FT. BELOW GRADE).

BLUE/VERY LIGHT GRAY SILTSTONE TO CLAYSTONE, NON COHESIVE, DRY, DENSE TO VERY DENSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (36.0 - 39.0 FT. BELOW

Monitor well dry to TD (5,677.94' elevation) (40.4' below casing top),

- SILTY SAND & GRAVEL.

- SILTSTONE / CLAYSTONE.

TOS - Top of screen of monitor well. TD

- Total depth/bottom extent of monitor well.

Monitor well consist of 2 inch PVC piping - casing from 1.00 ft. above grade to 24.00 ft. below grade, 0.020 slotted screen between 24.00 to 39.00 ft. below grade, sand packed annular to 22.0 ft. below grade, bentonite grout between 20.0 to 22.0 ft. below grade. Steel protector encompassing above grade casing and secured with padlock.

DRAWING: SANDOVAL GC A 1A MW1-BH3. SKF DATE: 12/07/11 DWN BY: NJV

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P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199

MW # 2

BORING #..... BH - 2 MW #..... 2 PAGE #....._

BORE / TEST HOLE REPORT

CLIENT: LOCATION NAME:

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CONTRACTOR:

EQUIPMENT USED:

BP AMERICA PRODUCTION CO

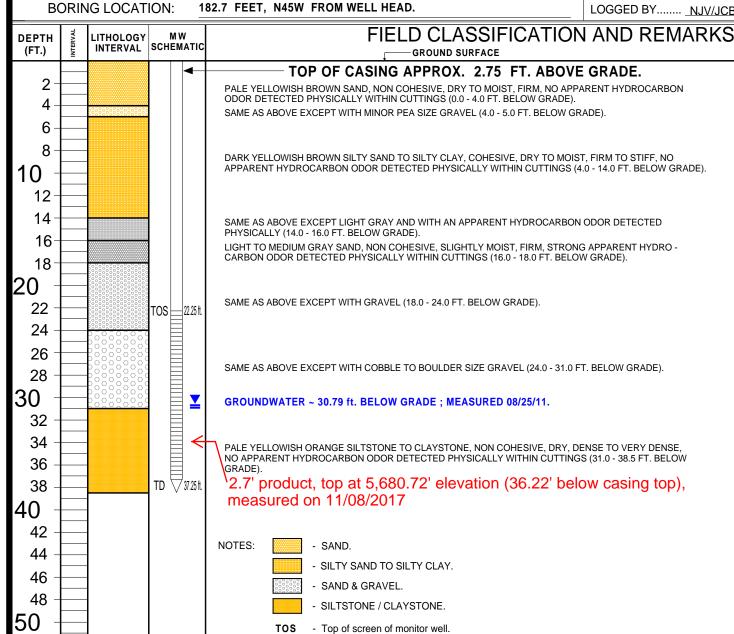
SANDOVAL GC A # 1A COMPRESSOR PIT

UNIT C, SEC. 35, T30N, R9W BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG (CME 75) - TUBEX SYSTEM

182.7 FEET, N45W FROM WELL HEAD.

DATE STARTED __08/11/11 DATE FINISHED _08/22/11 OPERATOR...... KP LOGGED BY...... NJV/JCB



grade casing and secured with padlock. DRAWING: SANDOVAL GC A 1A MW2-BH2. SKF DATE: 08/25/11 DWN BY: NJV

Monitor well consist of 2 inch PVC piping - casing from 2.75 ft. above grade to 22.25 ft. below grade, 0.020 slotted screen between 22.25 to 37.25 ft. below grade, sand packed annular to 20.0 ft. below

grade, bentonite grout between 17.0 to 20.0 ft. below grade. Steel protector encompassing above

- Total depth/bottom extent of monitor well.

P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199

MW # 3

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR: **EQUIPMENT USED:**

BORING LOCATION:

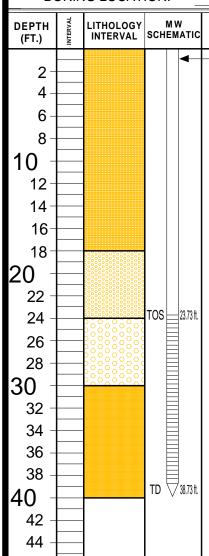
BP AMERICA PRODUCTION CO

SANDOVAL GC A # 1A COMPRESSOR PIT UNIT C, SEC. 35, T30N, R9W BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG (CME 75) - TUBEX SYSTEM

73 FEET, N34.5W FROM WELL HEAD.

BORING #..... BH - 4 MW #..... 3 PAGE #.....___ DATE STARTED __12/05/11 DATE FINISHED __12/05/11 OPERATOR..... KP LOGGED BY..... JCB



TOP OF CASING APPROX. AT GRADE.

GROUND SURFACE

FIELD CLASSIFICATION AND REMARKS

DARK YELLOWISH BROWN SILTY SAND, NON COHESIVE, DRY TO MOIST, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 18.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH GRAVEL (18.0 - 24.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH COBBLE TO BOULDER SIZE GRAVEL (24.0 - 30.0 FT. BELOW GRADE).

DARK YELLOWISH ORAGEN SILTSTONE TO CLAYSTONE, NON COHESIVE, DRY, DENSE TO VERY DENSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (30.0 - 40.0 FT. BELOW

Monitor well dry to TD (5,675.08' elevation) (39.2' below casing top), measured on 11/09/2017

NOTES:

- SILTY SAND.

- SILTY SAND & GRAVEL.

- SILTSTONE / CLAYSTONE.

- Top of screen of monitor well.

- Total depth/bottom extent of monitor well.

GROUNDWATER NOT PRESENT DURING 12/09/11 GAUGING.

Monitor well consist of 2 inch PVC piping - casing from grade to 23.73 ft. below grade, 0.020 slotted screen between 23.73 to 38.73 ft. below grade, sand packed annular to 22.0 ft. below grade, bentonite grout between 20.0 to 22.0 ft. below grade. Flush mount protector encompassing exposed casing. Secured well with locking cap and padlock.

DRAWING: SANDOVAL GC A 1A MW3-BH4. SKF DATE: 12/07/11

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P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199

MW # 4

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR: **EQUIPMENT USED:**

BORING LOCATION:

BP AMERICA PRODUCTION CO

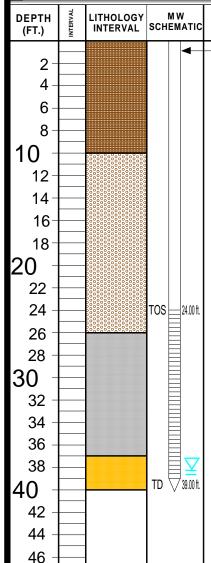
SANDOVAL GC A # 1A COMPRESSOR PIT UNIT C, SEC. 35, T30N, R9W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG (CME 75) - TUBEX SYSTEM

150 FEET, N61W FROM WELL HEAD.

BORING #..... BH - 5 MW #..... PAGE #.....___ DATE STARTED __12/06/11 DATE FINISHED __12/06/11 OPERATOR..... KP LOGGED BY...... NJV



GROUND SURFACE TOP OF CASING APPROX. 0.25 FT. BELOW GRADE.

FIELD CLASSIFICATION AND REMARKS

MODERATE YELLOWISH BROWN SILTY SAND, NON COHESIVE, DRY TO MOIST, FIRM, NO APPARENT

HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 10.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH GRAVEL (10.0 - 26.0 FT. BELOW GRADE).

BLUE/VERY LIGHT GRAY SILTSTONE TO CLAYSTONE, NON COHESIVE, DRY, DENSE TO VERY DENSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (26.0 - 37.0 FT. BELOW

GW measured at 5,676.07' elevation (38.25' below casing top), SAME AS ABOVE EXCEPT PALE YELLOWISH ORANGE (37.0 - 40.0 FT. BELOW GRADE). measured on 11/20/2017

NOTES:

- SILTY SAND.

- SILTY SAND & GRAVEL.

- SILTSTONE / CLAYSTONE.

- Top of screen of monitor well.

- Total depth/bottom extent of monitor well.

GROUNDWATER NOT PRESENT DURING 12/09/11 GAUGING.

Monitor well consist of 2 inch PVC piping - casing from 0.25 ft. to 24.00 ft. below grade, 0.020 slotted screen between 24.00 to 39.00 ft. below grade, sand packed annular to 22.0 ft. below grade, bentonite grout between 20.0 to 22.0 ft. below grade. Flush mount protector encompassing exposed casing. Secured well with locking cap and padlock.

DRAWING: SANDOVAL GC A 1A MW4-BH5. SKF DATE: 12/07/11

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SOIL VAPOR

EXTRACTION

DATA

Day

SIMCOE LLC - Sandoval GC A #1A

Summary SVE System Monitoring Data

Date	SVE Pt.	Exhaust	Exhaust	Exhaust	System	H ₂ O	H ₂ O Amt.	Comments
		OVM	Vacuum (in)	Rate (cfm)	Operational at Time of	Drained	Drained	
		(ppm)	(111)	(CIIII)	Arrival?	from drum?	(Gal.)?	
					, and an	urum:		
10/22/2018	MW-2				NO	NO		Hose transferred from Irvin Com 1E
10/26/2018	MW-2				NO	NO		PVC installation completed from unit to MW #2.
10/29/2018	MW-2	2,766	32	_	-	NO		Initial start up bailed 3 gal. of prod. from MW #2
10/30/2018	MW-2	2,720	34	-	YES	NO		Dry drum
10/31/2018	MW-2	2,525	34	-	YES	NO		Dry drum
11/1/2018	MW-2	2,355	34	_	YES	NO		Dry drum, effluent air sample collected
11/2/2018	MW-2	1,978	33	_	YES	YES	2.00	Drained drum, restarted
11/5/2018	MW-2	1,433	32	_	YES	YES	4.00	Installed 1 inch PVC drain piping to LLPT, drained drum, restarted
11/13/2018	MW-2	890	34	_	YES	YES	23.00	Drained drum, restarted
11/16/2018	MW-2	1,016	32	_	YES	YES	7.00	Drained drum, restarted
11/21/2018	MW-2	370	34	_	YES	YES	12.00	Drained drum, restarted
11/26/2018	MW-2	555	34	_	YES	YES	13.00	Drained drum, restarted
12/4/2018	MW-2	629	34	-	YES	YES	25.50	Drained drum, restarted
12/10/2018	MW-2	501	34	-	YES	YES	18.50	Drained drum, restarted
12/17/2018	MW-2	325	34	-	YES	YES	22.00	Drained drum, restarted
12/24/2018	MW-2	342	33	-	YES	YES	20.50	Drained drum, restarted
12/31/2018	MW-2	355	34	_	YES	YES	23.50	Drained drum, restarted
1/4/2019	MW-2	-	-	-	YES	YES	17.00	Drained drum only, restarted
1/9/2019	MW-2	383	34	_	YES	YES	18.50	Drained drum, restarted
1/15/2019	MW-2	372	34	-	YES	YES	19.50	,
1/21/2019	MW-2	338	34	-	YES	YES	18.00	
1/26/2019	MW-2	350	34	-	YES	YES	17.00	
2/1/2019	MW-2	313	34	-	YES	YES	19.50	
2/7/2019 2/14/2019	MW-2 MW-2	316 319	33 34	-	YES YES	YES YES	15.50 23.50	
2/14/2019	MW-2	260	33		YES	YES	22.00	
2/27/2019	MW-2	253	33	-	YES	YES	23.50	
3/5/2019	MW-2	252	32	-	YES	YES	12.00	
3/10/2019	MW-2	233	32	-	YES	YES	7.00	
3/18/2019	MW-2	254	32	-	YES	YES	18.00	
3/28/2019	MW-2	243	33	-	YES	YES	11.50	
4/16/2019	MW-2	222	32	-	YES	YES	20.50	

SIMCOE LLC - Sandoval GC A #1A

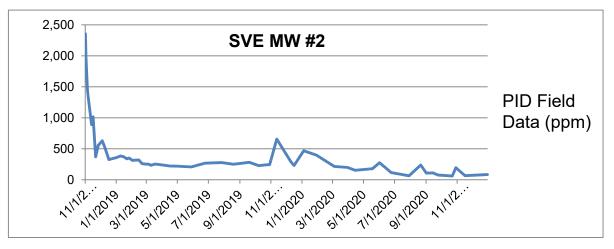
Summary SVE System Monitoring Data

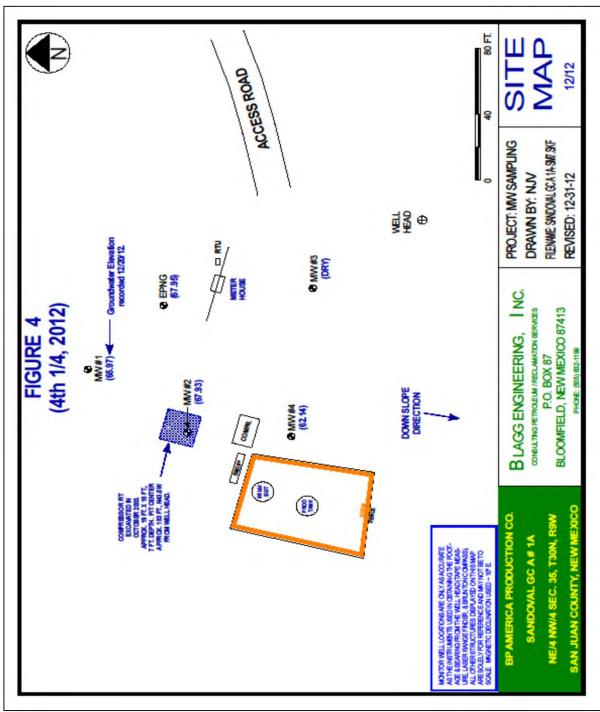
Date	SVE Pt.	Exhaust	Exhaust	Exhaust	System	H ₂ O	H ₂ O Amt.	Comments
		OVM	Vacuum	Rate	Operational	Drained	Drained	
		(ppm)	(in)	(cfm)	at Time of	from	(Gal.)?	
					Arrival?	drum?		
5/2/2019	MW-2	219	32	_	YES	YES	4.50	
5/28/2019	MW-2	207	32	_	YES	YES	10.50	
6/24/2019	MW-2	268	32	-	YES	NO	10.00	Water in drum below drain port, effluent air sample collected
7/26/2019	MW-2	277	32	-	YES	NO		Dry drum
8/19/2019	MW-2	251	32	-	YES	NO		Dry drum
9/19/2019	MW-2	281	32	-	YES	NO		Dry drum
10/8/2019	MW-2	227	25	-	YES	NO		Water in drum 0.50" above drain port
10/22/2019	MW-2	241	35	-	YES	YES	14.00	
10/29/2019	MW-2	244	33	-	YES	YES	12.00	
11/12/2019	MW-2	656	33	-	NO	YES	25.50	Drained, restarted, collect data
11/22/2019	MW-2	NA	33	-	YES	YES	18.50	
12/6/2019	MW-2	NA	33	-	NO	YES	22.00	Drained, restarted
12/10/2019	MW-2	287	33	-	YES	YES	9.00	Drained, restarted after water sample collected
12/16/2019	MW-2	230	34	_	YES	YES	17.00	Drained, restarted
12/21/2019	MW-2	NA	34	-	NO	NO		Restarted, then collected data
12/24/2019	MW-2	NA	34	-	YES	YES	14.00	Drained, restarted
12/30/2019	MW-2	NA	34	-	NO	YES	12.00	Restarted, then collected data
1/4/2020	MW-2	468	33	-	NO	NO		Restarted, then collected data
1/6/2020	MW-2	NA	NA	-	NO	NO		·
1/9/2020	MW-2	NA	16		NO	YES	10.50	Drained, restarted, then collected data
1/10/2020	MW-2	NA	18	-	NO	YES	10.50	Drained, restarted, then collected data
1/11/2020	MW-2	NA	34	-	NO	YES	5.50	Drained, restarted, then collected data
1/14/2020	MW-2	NA	33	-	YES	YES	9.00	Drained, restarted
1/22/2020	MW-2	NA	NA	-	NO	YES	14.00	Drained, restarted, then collected data
1/29/2020	MW-2	397	33	ı	NO	NO		Water in drum below drain port
2/4/2020	MW-2	NA	32	ı	NO	YES	20.50	Drained, restarted, then collected data
2/10/2020	MW-2	NA	32	ı	YES	YES	23.50	Drained, restarted
2/18/2020	MW-2	NA	34	-	YES	YES	21.00	Drained, restarted
2/19/2020	MW-2	NA	34	ı	YES	NO		Water level in drum not measured
2/25/2020	MW-2	NA	32	ı	YES	YES	15.50	
3/4/2020	MW-2	215	30	-	NO	YES	15.50	Drained, restarted, then collected data
3/12/2020	MW-2	NA	29	ı	NO	NO		Water in drum below drain port, restarted, then collected data
3/25/2020	MW-2	NA	30	ı	YES	YES	14.00	
3/30/2020	MW-2	199	30	ı	YES	YES	5.50	Shut down during MW sampling, drained, restarted
4/14/2020	MW-2	153	30	-	NO	YES	11.50	Drained, restarted, then collected data

SIMCOE LLC - Sandoval GC A #1A

Summary SVE System Monitoring Data

Date	SVE Pt.	Exhaust	Exhaust	Exhaust	System	H ₂ O	H ₂ O Amt.	Comments
		OVM	Vacuum	Rate	Operational	Drained	Drained	
		(ppm)	(in)	(cfm)	at Time of	from	(Gal.)?	
					Arrival?	drum?		
4/28/2020	MW-2	NA	29	_	YES	NO	<u> </u>	Water in drum below drain port, restarted
	MW-2	178	28			NO		
5/18/2020			29	-	NO VEC			Water in drum below drain port, restarted
5/20/2020	MW-2	NA 075		-	YES	NO		Water level in drum not measured
6/1/2020	MW-2	275	28	-	NO	NO		Water in drum below drain port, restarted, effluent air sample collected
6/24/2020	MW-2	116	26	-	NO	NO		Water in drum below drain port, restarted
7/29/2020	MW-2	64	26	-	NO	NO		Water level in drum not measured, restarted, then collected readings
8/21/2020	MW-2	238	27	-	NO	NO		Dry drum, restarted, then collected readings
9/1/2020	MW-2	107	28	-	YES	NO		Water level in drum not measured
9/14/2020	MW-2	111	29	-	YES	NO		Shut down prior to sampling, water in drum below drain port, restarted
9/24/2020	MW-2	76	29	-	YES	NO		Water in drum below drain port, restarted
10/9/2020	MW-2	NA	30	-	YES	NO		Water in drum just above drain port
10/22/2020	MW-2	61	29	-	YES	YES	9.50	
10/29/2020	MW-2	194	29	-	NO	YES	4.00	Drained, restarted, then collected data
11/5/2020	MW-2	NA	29	-	NO	YES		Water in drum below drain port, restarted, then collected readings
11/11/2020	MW-2	NA	30	-	YES	YES	10.50	
11/16/2020	MW-2	66	30	-	YES	YES	11.50	
11/23/2020	MW-2	NA	29	-	YES	YES	9.00	
12/4/2020	MW-2	NA	30	-	NO	YES	25.50	Drained, restarted, then collected data
12/10/2020	MW-2	NA	30	-	YES	YES	20.50	
12/15/2020	MW-2	NA	29	-	YES	YES	18.50	
12/21/2020	MW-2	NA	29	-	YES	YES	20.50	
12/30/2020	MW-2	84	29	-	NO	YES	27.00	Drained, restarted, then collected data





SIMCOE LLC - Sandoval GC A 1A SVE MW #2 OVM Data

Date	Exhaust
Date	OVM (ppm)
	O v Ivi (ppiii)
11/1/2018	2,355
11/2/2018	1,978
11/5/2018	1,433
11/13/2018	890
11/16/2018	1,016
11/21/2018	370
11/21/2018	
	555
12/4/2018	629
12/10/2018	501
12/17/2018	325
12/24/2018	342
12/31/2018	355
1/9/2019	383
1/15/2019	372
1/21/2019	338
1/26/2019	350
2/1/2019	313
2/7/2019	316
2/14/2019	319
2/20/2019	260
2/27/2019	253
3/5/2019	252
3/10/2019	233
3/18/2019	254
3/28/2019	243
4/16/2019	222
5/2/2019	219
5/28/2019	207
6/24/2019	268
7/26/2019	277
8/19/2019	251
9/19/2019	281
10/8/2019	227
10/22/2019	241
10/29/2019	244
11/12/2019	656
12/10/2019	287
12/16/2019	230
1/4/2020	468
1/29/2020	397
3/4/2020	215
3/30/2020	199
4/14/2020	153
5/18/2020	178
6/1/2020	275
	-

Date	Exhaust
	OVM (ppm)
	о т (рр)
6/24/2020	116
7/29/2020	64
8/21/2020	238
9/1/2020	107.1
9/14/2020	110.6
9/24/2020	76
10/22/2020	61
10/22/2020	194
11/16/2020	66
12/30/2020	84
-	

Received by OCD: 2/1/2021 10:00:37 AM

SIMCOE LLC

SOIL VAPOR EXTRACTION (SVE) SYSTEM EFFLUENT AIR TEST RESULTS Official Start Up Date - October 29, 2020

SANDOVAL GC A #1A UNIT C, SEC. 35, T30N, R9W Revised Date: December 31, 2020 Submitted by Cottonwood Consulting LLC

SAMPLE	SAMPLE ID	BENZENE	TOLUENE	ETHYL	TOTAL	02	CO ₂
DATE				BENZENE	XYLENES		
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	Mol %	Mol %
11/01/18	SVE (BH-1)	2.7	17	5.5	130	ı	-
09/19/19	"	<0.10	2.2	0.37	20	22.355	0.259

NOTES:

- 1) μg/L Micrograms per liter
- 2) Mol % Mole percentage
- 3) (-) Not analyzed

Analytical ReportLab Order **1811103**

Date Reported: 11/6/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SVE Effluent

 Project:
 SANDOVAL GC A 1A
 Collection Date: 11/1/2018 10:30:00 AM

 Lab ID:
 1811103-001
 Matrix: AIR
 Received Date: 11/2/2018 6:45:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	DJF
Benzene	2.7	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Toluene	17	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Ethylbenzene	5.5	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Methyl tert-butyl ether (MTBE)	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,2,4-Trimethylbenzene	7.3	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,3,5-Trimethylbenzene	12	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,2-Dichloroethane (EDC)	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,2-Dibromoethane (EDB)	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Naphthalene	ND	5.0	μg/L	25	11/5/2018 12:02:10 PM	W55411
1-Methylnaphthalene	ND	10	μg/L	25	11/5/2018 12:02:10 PM	W55411
2-Methylnaphthalene	ND	10	μg/L	25	11/5/2018 12:02:10 PM	W55411
Acetone	ND	25	μg/L	25	11/5/2018 12:02:10 PM	W55411
Bromobenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Bromodichloromethane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	
Bromoform	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Bromomethane	ND	5.0	μg/L	25	11/5/2018 12:02:10 PM	W55411
2-Butanone	ND	25	μg/L	25	11/5/2018 12:02:10 PM	W55411
Carbon disulfide	ND	25	μg/L	25	11/5/2018 12:02:10 PM	W55411
Carbon tetrachloride	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Chlorobenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Chloroethane	ND	5.0	μg/L	25	11/5/2018 12:02:10 PM	
Chloroform	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Chloromethane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	
2-Chlorotoluene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
4-Chlorotoluene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	
cis-1,2-DCE	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	
cis-1,3-Dichloropropene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,2-Dibromo-3-chloropropane	ND	5.0	μg/L	25	11/5/2018 12:02:10 PM	W55411
Dibromochloromethane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Dibromomethane	ND	5.0	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,2-Dichlorobenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,3-Dichlorobenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,4-Dichlorobenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Dichlorodifluoromethane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,1-Dichloroethane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,1-Dichloroethene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	
1,2-Dichloropropane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,3-Dichloropropane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	
2,2-Dichloropropane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1811103

Date Reported: 11/6/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SVE Effluent

 Project:
 SANDOVAL GC A 1A
 Collection Date: 11/1/2018 10:30:00 AM

 Lab ID:
 1811103-001
 Matrix: AIR
 Received Date: 11/2/2018 6:45:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: DJF
1,1-Dichloropropene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Hexachlorobutadiene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
2-Hexanone	ND	25	μg/L	25	11/5/2018 12:02:10 PM	W55411
Isopropylbenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
4-Isopropyltoluene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
4-Methyl-2-pentanone	ND	25	μg/L	25	11/5/2018 12:02:10 PM	W55411
Methylene chloride	ND	7.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
n-Butylbenzene	ND	7.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
n-Propylbenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
sec-Butylbenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Styrene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
tert-Butylbenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,1,1,2-Tetrachloroethane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,1,2,2-Tetrachloroethane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Tetrachloroethene (PCE)	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
trans-1,2-DCE	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
trans-1,3-Dichloropropene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,2,3-Trichlorobenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,2,4-Trichlorobenzene	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,1,1-Trichloroethane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,1,2-Trichloroethane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Trichloroethene (TCE)	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Trichlorofluoromethane	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
1,2,3-Trichloropropane	ND	5.0	μg/L	25	11/5/2018 12:02:10 PM	W55411
Vinyl chloride	ND	2.5	μg/L	25	11/5/2018 12:02:10 PM	W55411
Xylenes, Total	130	3.8	μg/L	25	11/5/2018 12:02:10 PM	W55411
Surr: Dibromofluoromethane	101	70-130	%Rec	25	11/5/2018 12:02:10 PM	W55411
Surr: 1,2-Dichloroethane-d4	86.6	70-130	%Rec	25	11/5/2018 12:02:10 PM	W55411
Surr: Toluene-d8	107	70-130	%Rec	25	11/5/2018 12:02:10 PM	W55411
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	25	11/5/2018 12:02:10 PM	W55411

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical ReportLab Order **1909A94**

Date Reported: 10/2/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SVE (MW2)

 Project:
 Sandoval GC A 1A
 Collection Date: 9/19/2019 8:40:00 AM

 Lab ID:
 1909A94-001
 Matrix: AIR
 Received Date: 9/20/2019 8:15:00 AM

Analyses	Result	RL C	Qual Units	DF Da	ate Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	DJF
Benzene	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Toluene	2.2	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Ethylbenzene	0.37	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Methyl tert-butyl ether (MTBE)	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
1,2,4-Trimethylbenzene	1.5	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
1,3,5-Trimethylbenzene	2.3	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
1,2-Dichloroethane (EDC)	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
1,2-Dibromoethane (EDB)	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Naphthalene	ND	0.20	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
1-Methylnaphthalene	ND	0.40	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
2-Methylnaphthalene	ND	0.40	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Acetone	ND	1.0	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Bromobenzene	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Bromodichloromethane	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Bromoform	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Bromomethane	ND	0.20	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
2-Butanone	ND	1.0	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Carbon disulfide	ND	1.0	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Carbon tetrachloride	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Chlorobenzene	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Chloroethane	ND	0.20	μg/L		/20/2019 11:22:17 AM	
Chloroform	ND	0.10	μg/L		/20/2019 11:22:17 AM	
Chloromethane	ND	0.10	μg/L		/20/2019 11:22:17 AM	
2-Chlorotoluene	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
4-Chlorotoluene	ND	0.10	μg/L		/20/2019 11:22:17 AM	
cis-1,2-DCE	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
cis-1,3-Dichloropropene	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
1,2-Dibromo-3-chloropropane	ND	0.20	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Dibromochloromethane	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Dibromomethane	ND	0.20	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
1,2-Dichlorobenzene	ND	0.10	μg/L		/20/2019 11:22:17 AM	
1,3-Dichlorobenzene	ND	0.10	μg/L		/20/2019 11:22:17 AM	
1,4-Dichlorobenzene	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
Dichlorodifluoromethane	ND	0.10	μg/L		/20/2019 11:22:17 AM	
1,1-Dichloroethane	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092
1,1-Dichloroethene	ND	0.10	μg/L		/20/2019 11:22:17 AM	
1,2-Dichloropropane	ND	0.10	μg/L		/20/2019 11:22:17 AM	
1,3-Dichloropropane	ND	0.10	μg/L		/20/2019 11:22:17 AM	
2,2-Dichloropropane	ND	0.10	μg/L	1 9/	/20/2019 11:22:17 AM	R63092

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 2

Analytical ReportLab Order **1909A94**

Date Reported: 10/2/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SVE (MW2)

 Project:
 Sandoval GC A 1A
 Collection Date: 9/19/2019 8:40:00 AM

 Lab ID:
 1909A94-001
 Matrix: AIR
 Received Date: 9/20/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: DJF
1,1-Dichloropropene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
Hexachlorobutadiene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
2-Hexanone	ND	1.0	μg/L	1	9/20/2019 11:22:17 AM	R63092
Isopropylbenzene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
4-Isopropyltoluene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
4-Methyl-2-pentanone	ND	1.0	μg/L	1	9/20/2019 11:22:17 AM	R63092
Methylene chloride	ND	0.30	μg/L	1	9/20/2019 11:22:17 AM	R63092
n-Butylbenzene	ND	0.30	μg/L	1	9/20/2019 11:22:17 AM	R63092
n-Propylbenzene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
sec-Butylbenzene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
Styrene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
tert-Butylbenzene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
1,1,1,2-Tetrachloroethane	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
1,1,2,2-Tetrachloroethane	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
Tetrachloroethene (PCE)	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
trans-1,2-DCE	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
trans-1,3-Dichloropropene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
1,2,3-Trichlorobenzene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
1,2,4-Trichlorobenzene	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
1,1,1-Trichloroethane	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
1,1,2-Trichloroethane	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
Trichloroethene (TCE)	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
Trichlorofluoromethane	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
1,2,3-Trichloropropane	ND	0.20	μg/L	1	9/20/2019 11:22:17 AM	R63092
Vinyl chloride	ND	0.10	μg/L	1	9/20/2019 11:22:17 AM	R63092
Xylenes, Total	20	0.15	μg/L	1	9/20/2019 11:22:17 AM	R63092
Surr: Dibromofluoromethane	83.0	53.9-127	%Rec	1	9/20/2019 11:22:17 AM	R63092
Surr: 1,2-Dichloroethane-d4	88.5	70-130	%Rec	1	9/20/2019 11:22:17 AM	R63092
Surr: Toluene-d8	98.3	70-130	%Rec	1	9/20/2019 11:22:17 AM	R63092
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	9/20/2019 11:22:17 AM	R63092

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 2

Analytical ReportLab Order **2006046**

Date Reported: 6/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SVE (MW2)

 Project:
 Sandoval GC A #1A
 Collection Date: 6/1/2020 11:35:00 AM

 Lab ID:
 2006046-001
 Matrix: AIR
 Received Date: 6/2/2020 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: DJF
Benzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Toluene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Ethylbenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Methyl tert-butyl ether (MTBE)	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,2,4-Trimethylbenzene	0.47	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,3,5-Trimethylbenzene	0.69	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,2-Dichloroethane (EDC)	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,2-Dibromoethane (EDB)	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Naphthalene	ND	0.20	μg/L	1	6/8/2020 12:29:40 PM	A69471
1-Methylnaphthalene	ND	0.40	μg/L	1	6/8/2020 12:29:40 PM	A69471
2-Methylnaphthalene	ND	0.40	μg/L	1	6/8/2020 12:29:40 PM	A69471
Acetone	ND	1.0	μg/L	1	6/8/2020 12:29:40 PM	A69471
Bromobenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Bromodichloromethane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Bromoform	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Bromomethane	ND	0.20	μg/L	1	6/8/2020 12:29:40 PM	A69471
2-Butanone	ND	1.0	μg/L	1	6/8/2020 12:29:40 PM	A69471
Carbon disulfide	ND	1.0	μg/L	1	6/8/2020 12:29:40 PM	A69471
Carbon tetrachloride	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Chlorobenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Chloroethane	ND	0.20	μg/L	1	6/8/2020 12:29:40 PM	A69471
Chloroform	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Chloromethane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
2-Chlorotoluene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
4-Chlorotoluene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
cis-1,2-DCE	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
cis-1,3-Dichloropropene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,2-Dibromo-3-chloropropane	ND	0.20	μg/L	1	6/8/2020 12:29:40 PM	A69471
Dibromochloromethane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Dibromomethane	ND	0.20	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,2-Dichlorobenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,3-Dichlorobenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,4-Dichlorobenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Dichlorodifluoromethane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,1-Dichloroethane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,1-Dichloroethene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,2-Dichloropropane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,3-Dichloropropane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
2,2-Dichloropropane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Analytical ReportLab Order **2006046**

Date Reported: 6/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: SVE (MW2)

 Project:
 Sandoval GC A #1A
 Collection Date: 6/1/2020 11:35:00 AM

 Lab ID:
 2006046-001
 Matrix: AIR
 Received Date: 6/2/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: DJF
1,1-Dichloropropene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Hexachlorobutadiene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
2-Hexanone	ND	1.0	μg/L	1	6/8/2020 12:29:40 PM	A69471
Isopropylbenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
4-Isopropyltoluene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
4-Methyl-2-pentanone	ND	1.0	μg/L	1	6/8/2020 12:29:40 PM	A69471
Methylene chloride	ND	0.30	μg/L	1	6/8/2020 12:29:40 PM	A69471
n-Butylbenzene	ND	0.30	μg/L	1	6/8/2020 12:29:40 PM	A69471
n-Propylbenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
sec-Butylbenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Styrene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
tert-Butylbenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,1,1,2-Tetrachloroethane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,1,2,2-Tetrachloroethane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Tetrachloroethene (PCE)	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
trans-1,2-DCE	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A6947
trans-1,3-Dichloropropene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,2,3-Trichlorobenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,2,4-Trichlorobenzene	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,1,1-Trichloroethane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,1,2-Trichloroethane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Trichloroethene (TCE)	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Trichlorofluoromethane	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
1,2,3-Trichloropropane	ND	0.20	μg/L	1	6/8/2020 12:29:40 PM	A69471
Vinyl chloride	ND	0.10	μg/L	1	6/8/2020 12:29:40 PM	A69471
Xylenes, Total	1.8	0.15	μg/L	1	6/8/2020 12:29:40 PM	A69471
Surr: Dibromofluoromethane	83.6	70-130	%Rec	1	6/8/2020 12:29:40 PM	A69471
Surr: 1,2-Dichloroethane-d4	84.7	70-130	%Rec	1	6/8/2020 12:29:40 PM	A69471
Surr: Toluene-d8	102	70-130	%Rec	1	6/8/2020 12:29:40 PM	A69471
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	6/8/2020 12:29:40 PM	A69471

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Received: 09/24/19



Dontonia Coopie Tenerono Erita

LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental

 Project:
 Not Indicated
 Report Date:
 10/02/19

 Client Sample ID:
 1909A94-001B; SVE (MW2)
 Collection Date:
 09/19/19 08:40

Location:

Lab ID: G19090499-001 Sampled By: Not Provided

Analyses	Result Units	Qualifier Method	Analysis Date / By
NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT			
Oxygen	22.355 Mol %	GPA 2261	10/01/19 11:33 / djb
Nitrogen	77.386 Mol %	GPA 2261	10/01/19 11:33 / djb
Carbon Dioxide	0.259 Mol %	GPA 2261	10/01/19 11:33 / djb
Hydrogen Sulfide	< 0.001 Mol %		10/01/19 11:33 / djb
Methane	< 0.001 Mol %		10/01/19 11:33 / djb
Ethane	< 0.001 Mol %	GPA 2261	10/01/19 11:33 / djb
Propane	< 0.001 Mol %	GPA 2261	10/01/19 11:33 / djb
Isobutane	< 0.001 Mol %	GPA 2261	10/01/19 11:33 / djb
n-Butane	< 0.001 Mol %	GPA 2261	10/01/19 11:33 / djb
Isopentane	< 0.001 Mol %	GPA 2261	10/01/19 11:33 / djb
n-Pentane	< 0.001 Mol %	GPA 2261	10/01/19 11:33 / djb
Hexanes plus	< 0.001 Mol %	GPA 2261	10/01/19 11:33 / djb
GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS			
GPM Ethane	< 0.0003 gal/MCF	GPA 2261	10/01/19 11:33 / djb
GPM Propane	< 0.0003 gal/MCF	GPA 2261	10/01/19 11:33 / djb
GPM Isobutane	< 0.0003 gal/MCF	GPA 2261	10/01/19 11:33 / djb
GPM n-Butane	< 0.0003 gal/MCF	GPA 2261	10/01/19 11:33 / djb
GPM Isopentane	< 0.0004 gal/MCF	GPA 2261	10/01/19 11:33 / djb
GPM n-Pentane	< 0.0004 gal/MCF	GPA 2261	10/01/19 11:33 / djb
GPM Hexanes plus	< 0.0004 gal/MCF	GPA 2261	10/01/19 11:33 / djb
GPM Pentanes plus	< 0.0004 gal/MCF	GPA 2261	10/01/19 11:33 / djb
GPM Total	< 0.0004 gal/MCF	GPA 2261	10/01/19 11:33 / djb
CALCULATED PROPERTIES			
Calculation Pressure Base	14.730 psia	GPA 2261	10/01/19 11:33 / djb
Calculation Temperature Base	60 °F		10/01/19 11:33 / djb
Compressibility Factor, Z	1.0000 unitless		10/01/19 11:33 / djb
Molecular Weight	28.94 unitless		10/01/19 11:33 / djb
Pseudo-critical Pressure, psia	549 psia		10/01/19 11:33 / djb
Pseudo-critical Temperature, deg R	240 deg R		10/01/19 11:33 / djb
Specific Gravity (air=1.000)	1.002 unitless		10/01/19 11:33 / djb
Gross BTU per cu ft @ std cond, dry	< 0.01 BTU/cu ft		10/01/19 11:33 / djb
Gross BTU per cu ft @ std cond, wet	< 0.01 BTU/cu ft		10/01/19 11:33 / djb

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Date Received: 06/05/20



LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental

 Project:
 Not Indicated
 Report Date:
 06/11/20

 Client Sample ID:
 2006046-001B; SVE (MW2)
 Collection Date:
 06/01/20 11:35

Location:

Lab ID: G20060137-001 Sampled By: Not Provided

		•				
Analyses	Result Units	Qualifier Method	Analysis Date / By			
NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT						
Oxygen	22.614 Mol %	GPA 2261	06/09/20 15:54 / djb			
Nitrogen	77.325 Mol %	GPA 2261	06/09/20 15:54 / djb			
Carbon Dioxide	0.061 Mol %	GPA 2261	06/09/20 15:54 / djb			
Hydrogen Sulfide	< 0.001 Mol %	GPA 2261	06/09/20 15:54 / djb			
Methane	< 0.001 Mol %	GPA 2261	06/09/20 15:54 / djb			
Ethane	< 0.001 Mol %	GPA 2261	06/09/20 15:54 / djb			
Propane	< 0.001 Mol %	GPA 2261	06/09/20 15:54 / djb			
Isobutane	< 0.001 Mol %	GPA 2261	06/09/20 15:54 / djb			
n-Butane	< 0.001 Mol %	GPA 2261	06/09/20 15:54 / djb			
Isopentane	< 0.001 Mol %	GPA 2261	06/09/20 15:54 / djb			
n-Pentane	< 0.001 Mol %	GPA 2261	06/09/20 15:54 / djb			
Hexanes plus	< 0.001 Mol %	GPA 2261	06/09/20 15:54 / djb			
GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS						
GPM Ethane	< 0.0003 gal/MCF	GPA 2261	06/09/20 15:54 / djb			
GPM Propane	< 0.0003 gal/MCF	GPA 2261	06/09/20 15:54 / djb			
GPM Isobutane	< 0.0003 gal/MCF	GPA 2261	06/09/20 15:54 / djb			
GPM n-Butane	< 0.0003 gal/MCF	GPA 2261	06/09/20 15:54 / djb			
GPM Isopentane	< 0.0004 gal/MCF	GPA 2261	06/09/20 15:54 / djb			
GPM n-Pentane	< 0.0004 gal/MCF	GPA 2261	06/09/20 15:54 / djb			
GPM Hexanes plus	< 0.0004 gal/MCF	GPA 2261	06/09/20 15:54 / djb			
GPM Pentanes plus	< 0.0004 gal/MCF	GPA 2261	06/09/20 15:54 / djb			
GPM Total	< 0.0004 gal/MCF	GPA 2261	06/09/20 15:54 / djb			
CALCULATED PROPERTIES						
Calculation Pressure Base	14.730 psia	GPA 2261	06/09/20 15:54 / djb			
Calculation Temperature Base	60 °F	GPA 2261	06/09/20 15:54 / djb			
Compressibility Factor, Z	1.0000 unitless	GPA 2261	06/09/20 15:54 / djb			
Molecular Weight	28.92 unitless	GPA 2261	06/09/20 15:54 / djb			
Pseudo-critical Pressure, psia	548 psia	GPA 2261	06/09/20 15:54 / djb			
Pseudo-critical Temperature, deg R	239 deg R	GPA 2261	06/09/20 15:54 / djb			
Specific Gravity (air=1.000)	1.002 unitless	GPA 2261	06/09/20 15:54 / djb			
Gross BTU per cu ft @ std cond, dry	< 0.01 BTU/cu ft	GPA 2261	06/09/20 15:54 / djb			
Gross BTU per cu ft @ std cond, wet	< 0.01 BTU/cu ft	004 0004	06/09/20 15:54 / djb			

Report RL - Analyte Reporting Limit MCL - Maximum Contaminant Level

Definitions: QCL - Quality Control Limit ND - Not detected at the Reporting Limit (RL)

Chain-of-Custody Record Client: BP AMERICA BLAGE ENGWERING INC- Mailing Address:			Standard Project Name	Turn-Around Time: Standard □ Rush Project Name: SANDOVAL GC A 1A Project#:			HALL ENVIRONMENTA ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107													
Phone # email or QA/QC F Stand	Fax#: Package: dard tation		□ Level 4 (Full Validation)	Sampler: 5	MOSKAL TEFF BLAGO			TMB's (8021)	TPH (Gas only)	/ DRO / MRO)	(1)		Ana (SIMIS)	NO ₂ ,PO ₄ ,SO ₄)	s	uest				
Date		Matrix	Sample Request ID	On Ice Sample Tem Container Type and #	Preservative		AL No.	BTEX + MTBE + 1	BTEX + MTBE + 1	TPH 8015B (GRO	TPH (Method 418.1)	2	PAHS (8310 of 82	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB'	8260B (VOA)	8270 (Semi-VOA)	8260		(May V) solddiddid al
1/2018	1030	· ·	SVE EFFLUENT NV 01/28/2021	TEDLAR BAG			1001											×		1
N -			01/28/2021																	+ +
12018	Time: 1346	Relinquishe	Bleege	Received by:	t War		Time 8 1340	Rem	narks		ill DNTA	BP cr:	5T6	EVE SEN	Mas	KAL				1
17/1/18	Time:	Relinquishe Samples subr	st by. Student Commentation of the Student Commentation o	Received by:	credited laboratorie	<u> </u>	Time 12//Y CK 45 s as notice of this	possib	oility. <i>F</i>									nalytica		

Turn-Around Time: Chain-of-Custody Record HALL ENVIRONMENTAL Client: **BLAGG ENGR. / BP AMERICA** Standard Rush ANALYSIS LABORATORY Project Name: www.hallenvironmental.com Mailing Address: Sandoval GC A #1A P.O. BOX 87 Project #: **BLOOMFIELD. NM 87413** Tel. 505-345-3975 Fax 505-345-4107 (505) 632-1199 **Analysis Request** Phone #: email or Fax#: Project Manager: Chloride (soil - 300.0 / water - 300.1) Anions (F,CI,NO₃,NO₂,PO₄,SO₄) 8081 Pesticides / 8082 PCB's QA/QC Package: TPH 8015B (GRO / DRO / MRO) BTEX + MTBE + TPH (Gas only) BTEX + MTBE + TMB's (8021B) STEVE MOSKAL Standard Level 4 (Full Validation) PAH (8310 or 8270SIMS) **NELSON VELEZ** Accreditation: Sampler: TPH (Method 418.1) EDB (Method 504.1) □ NOY69/20/19 Yes Yes ☐ NELAP □ Other On Ice: RCRA 8 Metals ☐ EDD (Type) Sample Temperature: 8260B (VOA) Container Preservative Sample Request ID Date Time Matrix HEAL No. Type and # Type 909A94 9/19/19 SVE (MW2) n/a 0840 AIR tedlar bag - 2 -001

4901 Hawkins NE - Albuquerque, NM 87109 0:00:37 AM composite sample Air Bubbles (Y or N) Carbon Dioxide Grab sample Oxygen 5 pt. One tediar recieved empty. myg/20 Date: Relinquished by: Received by: Date Time Time: Contact: Steve Moskal BILL DIRECTLY TO BPX: 9/19/19 1343 Date: Date Time: Relinquished by: Received by: Should receive/Should've received PO from BPX. 806 19/19 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.

		☐ Rush _													Received by				
OX 87			A # 1A	-	■ 49	 01 ⊦	ławk									9			y OCD: 2/1/2
MFIELD, NM 87413	Project #:				Te	el. 50	05-3	45-3	975		Fax	505	-345	-410	7				2/1/2
532-1199									1	Anal	ysis	Red	ques	t					021
	Project Manag	jer:									÷			1)					10:0
Level 4 (Full Validation)		STEVE MO	SKAL	021B)	only)	/ MRO)			15)		PO4,SO,	PCB's						Ф	0:00:37 AM
	Sampler:	NELSON VI	ELEZ no	8)-9,	(Gas	RO/	1.	1.	OSIN		102,1	808		\				ldmi	×
er	On Ice:	☑ Yes	□ No] #	TPH	1	418	504	827		03,6	ss/		0.00					N.
	Sample Temp	erature: 6.7	0-1=6-6-6	1 +	3E +	(GR(por	pot	or	etals	C'N	cide	A		xide		e e	osit	(ح
Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +M₩	BTEX + MTE	TPH 8015B	TPH (Meth	EDB (Meth	PAH (8310	RCRA 8 M	Anions (F,	8081 Pesti	8260B (VC	Chloride (so	Carbon Dio	Oxygen	Grab samp	5 pt. comp	Air Bubbles (Y or N)
SVE (MW2)	tedlar bag - 2	n/a	-001										٧		٧	٧	٧		
R MW # E	1/0,1/- 2	HGI d coo.	-001	910									/						
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holy	Christs	Walter	6/1/2020 1520	С	ONT	ACT:	Stev	e M	oska	ıl									Page 37
released inter	Eum 1	Courier le	12/20 8:00									- 1							37 of 1
	Sample Request ID SVE (MW2) Shed by:	Standard Project Name SOX 87 MFIELD, NM 87413 632-1199 Project Manage Level 4 (Full Validation) Sampler: On Ice: Sample Temp X Sample Request ID South From the sample Received by: Shed by: Shed by: Shed by: Standard Project Name SAN Project #: Container Type and # SVE (MW2) Received by: Rec	R. / BP AMERICA Standard Rush Project Name: SANDOVAL GC MFIELD, NM 87413 632-1199 Project Manager: STEVE MO Sampler: NELSON VI On Ice: Yes Sample Temperature: Grand Type and # Type SVE (MW2) SVE (MW2) Type Shed by: Received by: Received by: Received by: Received by:	Standard Rush Project Name: SANDOVAL GC A # 1A Project Manager: STEVE MOSKAL Sampler: NELSON VELEZ NO Sample Temperature: 9.7 0.2 6.6 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Standard Rush Project Name: SANDOVAL GC A # 1A Project Name: SANDOVAL GC A # 1A Project #: 632-1199 Project Manager: STEVE MOSKAL Sampler: NELSON VELEZ On Ice: Yes No Sample Temperature: 6.1-0-1-6-6-6-6 Sample Request ID Container Type and # Type SVE (MW2) SVE (MW2) Total a COOL Received by: Date Time Rem And A COOL Received by: Date Time	Standard Rush Project Name: SANDOVAL GC A # 1A Project Name: SANDOVAL GC A # 1A Project H: STEVE MOSKAL Sampler: NELSON VELEZ On Ice: Yes No Sample Temperature: 6.7 - 0.1 - 6.6 - 6.7 - 6	Standard Rush Project Name: SANDOVAL GC A # 1A 4901 H Tel. 56 SANDOVAL GC A # 1A 4901 H Tel. 56 SANDOVAL GC A # 1A 4901 H Tel. 56 SANDOVAL GC A # 1A 4901 H Tel. 56 SANDOVAL GC A # 1A 4901 H Tel. 56 STEVE MOSKAL Sampler: NELSON VELEZ On Ice: Yes No Sample Temperature: 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Standard Rush Project Name: SOX 87 SANDOVAL GC A # 1A 4901 Hawling Tel. 505-3 Aproject Manager: STEVE MOSKAL Sampler: NELSON VELEZ On Ice: Yes No Sample Temperature: (-7 0	R. / BP AMERICA Standard Rush Project Name: SANDOVAL GC A # 1A 4901 Hawkins Tel. 505-345-3 632-1199 Project Manager: STEVE MOSKAL Sampler: NELSON VELEZ On Ice: Yes No Sample Temperature: () () () () () () () () () (R. / BP AMERICA Standard Rush Project Name: SANDOVAL GC A # 1A MFIELD, NM 87413 Project #: Sanpler: NELSON VELEZ On Ice: Yes No Sample Temperature: (x 1 0 1 2 6 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R. / BP AMERICA Standard Rush Project Name: SANDOVAL GC A # 1A Froject Name: SANDOVAL GC A # 1A Froject Name: SANDOVAL GC A # 1A Froject Name: SANDOVAL GC A # 1A Tel. 505-345-3975 Anal Sampler: STEVE MOSKAL Sampler: On Ice: Yes No Sample Temperature: Type and # SVE (MW2) SVE (MW2) SVE (MW2) Telandard Type Anal Tel. 505-345-3975 Te	R. / BP AMERICA Standard Rush Project Name: SANDOVAL GC A # 1A Project Name: SANDOVAL GC A # 1A Project Name: SANDOVAL GC A # 1A Project Manager: STEVE MOSKAL Sampler: NELSON VELEZ On Ice: Yes No Sample Temperature: Preservative Type and # Type Type and # Type Type and # Type Type Type Type Type Type Type Type	## ALL ENVIGATION Record Rr. / BP AMERICA	Standard	Analysis Request Project Manager: Sampler Mediation Sampler Temperature: Tope and # Type and	Standard Rush Project Name: SANDOVAL GC A # 1A Amalysis Request Project Manager: Project Manag	R. / BP AMERICA Standard Rush Project Name: Www.hallenvironmental.com Www.hallenvironmental.com Www.hallenvironmental.com Analysis Request Name: Www.hallenvironmental.com Tel. 505-345-395 Fax 505-345-4107 Tel. 505-345-345-375 Fax 505-345-4107 Tel. 505-345-345-4107 Tel. 505-345-345-345-345-4107 Tel. 505-345-345-345-345-345-345-345-345-345-34	R. / BP AMERICA Standard Rush Project Name: OX 87 SANDOVAL GC A # 1A MFIELD, NM 87413 Project #: 632-1199 Project Manager: Level 4 (Full Validation) Sampler: NELSON VELEZ On 1ce: Yes No Sample Request ID Container Type and # Type Container Type and # Type SVE (MW2) Total are a standard Rush MATLE ENVIRONMENTA ANALL ENVIRONMENTA ANALYSIS LABORATOF Www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-34107 Fel. 505-345-3975 Fax 505-345-4107 Fel. 505-345-3975 Fax 505-	R. / BP AMERICA Standard Rush Project Name: Www.hallenvironmental.com Analysis Laboratory Www.hallenvironmental.com Analysis Request Project #: Tel. 505-345-3975 Fax 505-345-4107

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Billings, MT 800.735.4489 = Casper, WY 888.235.0515 Gillette: WY 866.686.7175 - Helena, MT 877,472.0711

ANALYTICAL SUMMARY REPORT

October 02, 2019

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: G19090499 Project Name: Not Indicated

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 9/24/2019 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G19090499-001	1909A94-001B; SVE (MW2)	09/19/19 8:40	0 09/24/19	Gas	Natural Gas Analysis - BTU Natural Gas Analysis - Compressibility Factor Natural Gas Analysis - GPM Natural Gas Analysis - Molecular Weight Natural Gas Analysis - Routine Natural Gas Analysis - Pressure Base Natural Gas Analysis - Psuedo- Critical Pressure Natural Gas Analysis - Psuedo- Critical Temperature Natural Gas Analysis - Specific Gravity Natural Gas Analysis - Temperature Base

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these tests results, please contact your Project Manager.

Report Approved By:

Digitally signed by Julie L. Weisz Date: 2019.10.02 08:18:59 -06:00



QA/QC Summary Report

Prepared by Gillette, WY Branch

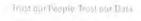
Client: Hall Environmental Work Order: G19090499 Report Date: 10/02/19

Qual	RPDLimit	RPD	High Limit	Low Limit	%REC	RL	Units	Result		Analyte
R25320	alytical Run:	An							GPA 2261	Method:
19 11:1	10/01					Standard	ion Verification	Initial Calibrat	ICV-1910011111	Lab ID:
			110	75	83	0.001	Mol %	0.397		Oxygen
			110	90	99	0.001	Mol %	5.005		Nitrogen
			110	90	99	0.001	Mol %	4.905	oxide	Carbon Did
			136	100	126	0.001	Mol %	0.127	Sulfide	Hydrogen :
			110	90	100	0.001	Mol %	73.107		Methane
			110	90	101	0.001	Mol %	5.017		Ethane
			110	90	101	0.001	Mol %	5.132		Propane
			110	90	100	0.001	Mol %	2.022		Isobutane
			110	90	99	0.001	Mol %	1.999		n-Butane
			110	90	100	0.001	Mol %	0.995	е	Isopentane
			110	90	99	0.001	Mol %	0.988		n-Pentane
			110	90	101	0.001	Mol %	0.306	olus	Hexanes p
19 11:19	10/01				rd	cation Standa	libration Verifi	Continuing Ca	CCV-1910011119	ab ID:
3,01,1			110	90	95	0.001	Mol %	0.572		Oxygen
			110	85	88	0.001	Mol %	1.236		Vitrogen
			110	90	96	0.001	Mol %	0.963	oxide	Carbon Dic
			130	70	88	0.001	Mol %	0.022	Sulfide	Hydrogen S
			110	90	100	0.001	Mol %	93.621		/lethane
			110	90	102	0.001	Mol %	1.027		thane
			110	90	101	0.001	Mol %	1.013		Propane
			110	90	101	0.001	Mol %	0.505		sobutane
			110	90	98	0.001	Mol %	0.491		-Butane
			110	90	100	0.001	Mol %	0.201	e	sopentane
			110	90	98	0.001	Mol %	0.196		-Pentane
			110	90	101	0.001	Mol %	0.153	lus	Hexanes pl
19 14:39	10/01				rd	cation Standa	libration Verific	Continuing Ca	CCV-1910011439	ab ID:
			110	90	100	0.001	Mol %	0.601		Oxygen
			110	85	95	0.001	Mol %	1.329		Vitrogen
			110	90	97	0.001	Mol %	0.969	oxide	Carbon Dio
			130	70	96	0.001	Mol %	0.024	Sulfide	Hydrogen S
			110	90	100	0.001	Mol %	93.461		Methane
			110	90	102	0.001	Mol %	1.029		Ethane
			110	90	102	0.001	Mol %	1.025		ropane
			110	90	101	0.001	Mol %	0.507		sobutane
			110	90	100	0.001	Mol %	0.498		n-Butane
			110	90	101	0.001	Mol %	0.202		sopentane
			110	90	99	0.001	Mol %	0.199		n-Pentane
			110	90	103	0.001	Mol %	0.156	lus	lexanes pl
R253209	Batch:								GPA 2261	Method:
19 11:38	10/01		GC_191001A	Run: Varian			ate	Sample Duplic	G19090499-001ADUP	ab ID:
	10	0.0	2			0.001	Mol %	22.354		Oxygen

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Allouge, M1 800,735,4489 - 1000 Nr 888,235,0515 Collette, Nr 866,686,7175 - 10000, Nr 877,472,0711

QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental Work Order: G19090499 Report Date: 10/02/19

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261								Batch:	R253209
Lab ID:	G19090499-001ADUP	Sample Dupli	cate			Run: Varia	n GC_191001A		10/01	/19 11:38
Nitrogen		77.386	Mol %	0.001				0.0	10	
Carbon Did	oxide	0.260	Mol %	0.001				0.4	10	
Hydrogen :	Sulfide	< 0.001	Mol %	0.001					10	
Methane		< 0.001	Mol %	0.001					10	
Ethane		< 0.001	Mol %	0.001					10	
Propane		< 0.001	Mol %	0.001					10	
Isobutane		< 0.001	Mol %	0.001					10	
n-Butane		< 0.001	Mol %	0.001					10	
Isopentane		< 0.001	Mol %	0.001					10	
n-Pentane		< 0.001	Mol %	0.001					10	
Hexanes p	lus	< 0.001	Mol %	0.001					10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Work Order Receipt Checklist

Hall Environmental

G19090499

Login completed by:	Misty Stephens		Da	te Received: 9/24/2019
Reviewed by:	Kasey Vidick		F	Received by: mas
Reviewed Date:	9/24/2019		C	arrier name: FedEx
Shipping container/cooler	n good condition?	Yes 🗸	No 🗌	Not Present
Custody seals intact on all	shipping container(s)/cooler(s)?	Yes 🔽	No 🗌	Not Present
Custody seals intact on all	sample bottles?	Yes	No 🔲	Not Present ✓
Chain of custody present?		Yes 🗸	No 🗌	
Chain of custody signed w	hen relinquished and received?	Yes 🗸	No 🗌	
Chain of custody agrees w	ith sample labels?	Yes 🗸	No 🔲	
Samples in proper contain	er/bottle?	Yes 🗸	No 🔲	
Sample containers intact?		Yes ✓	No 🗌	
Sufficient sample volume f	or indicated test?	Yes 🗸	No 🗌	
All samples received within (Exclude analyses that are such as pH, DO, Res CI, S	considered field parameters	Yes 🗸	No 🗌	
Temp Blank received in all	shipping container(s)/cooler(s)?	Yes	No 🗌	Not Applicable ☑
Container/Temp Blank tem	perature:	°C		
Water - VOA vials have zer	o headspace?	Yes 🗌	No 🗌	No VOA vials submitted
Water - pH acceptable upo	n receipt?	Yes	No 🗌	Not Applicable
Lab measurement of pH, Dissolved Oxyge Solid/soil samples ar	en and Residual Chlorine, a e reported on a wet weight	re qualified as basis (as rece	s being analyz eived) unless	alysis within 15 minutes of sampling such a zed outside of recommended holding time specifically indicated. If moisture correcte meters/characteristics, all samples are dries.

Released to Imaging: 1/17/2024 9:23:18 AM

ADDRESS:	1120 S	ergy COMPANY: outh 27th Street s, MT 59107	Energy Laborator	ies	PHONE:	(800) 735-4489	FAX:	(406) 252-6069
ІТЕМ	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICA	AL COMMENTS
1 19	09A94-001B	SVE (MW2)	TEDLAR	Air	9/19/2019 8:40:00 AM	1 Natural Gas Analys	No.	

QUEV),	71.				
hed by:	Date: Time: 10:36	AM Received By	Date: Time:	REPORT TRANS HARDCOPY (extra cost) FA	MITTAL DESIRED
sed By:	Date: Time:	DINE DO	h a m & 9/24/19	FOR LAB	USE ONLY
TAT:	Standard RU	SH Next BD	2nd BD 3rd BD	Temp of samples	Attempt to Cool ?



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

С	lient Name:	BLAGG		Work	Order Nun	nber: 190	9A94			RcptNo: 1	
Re	eceived By:	Yazmine	Garduno	9/20/20	19 8:15:00	AM		Atapai	nu (Glader	Janua)	
Co	ompleted By:	Michelle	Garcia	9/20/20	19 9:51:45	AM		mi	hell (nui)	
Re	eviewed By:	AT	09/20	119						,	
<u>Ch</u>	ain of Cus	tody									
1.	Is Chain of C	ustody comp	olete?			Yes	/	No		Not Present	
2.	How was the	sample deli	vered?			Cou	<u>irier</u>				
	og In										
3.	Was an atten	npt made to	cool the sam	ples?		Yes	/	No		NA 🗆	
4.	Were all samp	ples received	d at a temper	ature of >0° C	to 6.0°C	Yes	V	No		NA 🗆	
5.	Sample(s) in	proper conta	iner(s)?			Yes	✓	No			
6. 5	Sufficient sam	ple volume	for indicated	test(s)?		Yes	~	No			
7.	Are samples (except VOA	and ONG) pr	operly preserve	ed?	Yes	~	No			
8. \	Nas preserva	tive added to	bottles?			Yes		No	V	NA 🗆	
9. \	/OA vials hav	e zero head	space?			Yes	/	No		No VOA Vials	
10.	Were any san	nple contain	ers received	broken?		Yes		No	~	# of preserved	
	Does paperwo Note discrepa			y)		Yes	~	No		bottles checked for pH:	ted)
12.	Are matrices o	correctly ider	ntified on Cha	in of Custody?		Yes	V	No		Adjusted?	- 1
13.1	s it clear what	analyses w	ere requested	d?		Yes	~	No		m nala	110
	Vere all holdir If no, notify cu)		Yes	V	No		Checked by:	119
Spe	cial Handl	ing (if app	olicable)								
15.	Was client no	tified of all d	iscrepancies	with this order?)	Yes		No		NA 🗹	
	Person	Notified:			Date				_		
	By Who	m:			Via:	_ еМ	ail 🗌	Phone [Fax	☐ In Person	
	Regardi										
	Client In	structions:									
16.	Additional rer	narks:									
17.	Cooler Infor	147									
	Cooler No	-	Condition	Seal Intact	Seal No	Seal D	ate	Signed I	Ву		
	1	NA	Good	Yes							
	2	NA	Good	Yes							

ANALYTICAL SUMMARY REPORT

June 11, 2020

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: G20060137
Project Name: Not Indicated

Energy Laboratories Inc. Gillette WY received the following 1 sample for Hall Environmental on 6/5/2020 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G20060137-001	2006046-001B; SVE (MW2)	06/01/20 11:35	06/05/20	Air	Natural Gas Analysis - BTU Natural Gas Analysis - Compressibility Factor Natural Gas Analysis - GPM Natural Gas Analysis - Molecular Weight Natural Gas Analysis - Routine Natural Gas Analysis - Pressure Base Natural Gas Analysis - Psuedo- Critical Pressure Natural Gas Analysis - Psuedo- Critical Temperature Natural Gas Analysis - Specific Gravity Natural Gas Analysis - Temperatur Base

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these tests results, please contact your Project Manager.

Report Approved By:



QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental Work Order: G20060137 **Report Date:** 06/11/20

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	GPA 2261							An	nalytical Run:	R257868
Lab ID:	ICV-2006091524	Initial Calibrat	ion Verific	ation Standard					06/09	9/20 15:24
Oxygen		0.390	Mol %	0.001	81	75	110			
Nitrogen		5.004	Mol %	0.001	99	90	110			
Carbon Dic	oxide	4.925	Mol %	0.001	99	90	110			
Hydrogen S	Sulfide	0.131	Mol %	0.001	130	100	136			
Methane		73.079	Mol %	0.001	100	90	110			
Ethane		5.023	Mol %	0.001	101	90	110			
Propane		5.132	Mol %	0.001	101	90	110			
Isobutane		2.020	Mol %	0.001	100	90	110			
n-Butane		1.996	Mol %	0.001	99	90	110			
Isopentane	;	0.997	Mol %	0.001	100	90	110			
n-Pentane		0.991	Mol %	0.001	99	90	110			
Hexanes p	lus	0.312	Mol %	0.001	103	90	110			
Lab ID:	CCV-2006091530	Continuing Ca	alibration V	erification Standa	ard				06/09	9/20 15:30
Oxygen		0.573	Mol %	0.001	95	90	110			
Nitrogen		1.283	Mol %	0.001	91	85	110			
Carbon Dic	oxide	0.956	Mol %	0.001	95	90	110			
Hydrogen S	Sulfide	0.024	Mol %	0.001	96	70	130			
Methane		93.567	Mol %	0.001	100	90	110			
Ethane		1.029	Mol %	0.001	102	90	110			
Propane		1.013	Mol %	0.001	101	90	110			
Isobutane		0.507	Mol %	0.001	101	90	110			
n-Butane		0.492	Mol %	0.001	98	90	110			
Isopentane	;	0.202	Mol %	0.001	101	90	110			
n-Pentane		0.198	Mol %	0.001	99	90	110			
Hexanes p	lus	0.156	Mol %	0.001	103	90	110			
Lab ID:	CCV-2006100757	Continuing Ca	alibration V	erification Standa	ard				06/10	0/20 07:58
Oxygen		0.593	Mol %	0.001	99	90	110			
Nitrogen		1.331	Mol %	0.001	95	85	110			
Carbon Dic	oxide	0.972	Mol %	0.001	97	90	110			
Hydrogen S	Sulfide	0.028	Mol %	0.001	112	70	130			
Methane		93.500	Mol %	0.001	100	90	110			
Ethane		1.024	Mol %	0.001	102	90	110			
Propane		1.006	Mol %	0.001	101	90	110			
Isobutane		0.502	Mol %	0.001	100	90	110			
n-Butane		0.489	Mol %	0.001	98	90	110			
Isopentane)	0.201	Mol %	0.001	100	90	110			
n-Pentane		0.198	Mol %	0.001	99	90	110			
Hexanes p	lus	0.156	Mol %	0.001	103	90	110			
Method:	GPA 2261								Batch:	R257868
Lab ID:	G20060137-001ADUP	Sample Dupli	cate			Run: Varia	n GC_200610A		06/09	9/20 15:59
Oxygen		22.613	Mol %	0.001				0.0	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Gillette, WY Branch

Work Order: G20060137 Client: Hall Environmental Report Date: 06/11/20

Analyte	Result	Units	RL	%REC Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261							Batch:	R257868
Lab ID: G20060137-001ADUP	Sample Dupli	cate		Run: Varia	n GC_200610A		06/09	/20 15:59
Nitrogen	77.328	Mol %	0.001			0.0	10	
Carbon Dioxide	0.059	Mol %	0.001			3.3	10	
Hydrogen Sulfide	< 0.001	Mol %	0.001				10	
Methane	< 0.001	Mol %	0.001				10	
Ethane	< 0.001	Mol %	0.001				10	
Propane	< 0.001	Mol %	0.001				10	
Isobutane	< 0.001	Mol %	0.001				10	
n-Butane	< 0.001	Mol %	0.001				10	
Isopentane	< 0.001	Mol %	0.001				10	
n-Pentane	< 0.001	Mol %	0.001				10	
Hexanes plus	< 0.001	Mol %	0.001				10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)



Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

Work Order Receipt Checklist

Hall Environmental

G20060137

Login completed by:	Chantel S. Johnson		Date	Received: 6/5/2020	
Reviewed by:	Misty Stephens		Re	ceived by: csj	
Reviewed Date:	6/8/2020		Car	rier name: UPS	
Shipping container/cooler in	good condition?	Yes ✓	No 🗌	Not Present	
Custody seals intact on all s	hipping container(s)/cooler(s)?	Yes √	No 🗌	Not Present	
Custody seals intact on all s	ample bottles?	Yes	No 🗌	Not Present ✓	
Chain of custody present?		Yes √	No 🗌		
Chain of custody signed whe	en relinquished and received?	Yes √	No 🗌		
Chain of custody agrees with	n 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? (Exclude analyses that are considered field parameters such as pH, DO, Res CI, Sulfite, Ferrous Iron, etc.)		Yes 🔽	No 🗌		
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗌	Not Applicable 🗹	
Container/Temp Blank temper	erature:	°C			
Water - VOA vials have zero	headspace?	Yes	No 🗌	No VOA vials submitted	\checkmark
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable 🔽	
Standard Reporti	ng Procedures:				
	analytes considered field pa n and Residual Chlorine, are				
	reported on a wet weight ba noted as –dry. For agricult mple analysis.				
Radiochemical precisi	ion results represent a 2-sig	ma Total Meas	urement Un	certainty.	
Contact and Corr	ective Action Comme	nts:			

Released to Imaging: 1/17/2024 9:23:18 AM

		gy Labs-Gillette COMPANY:	Energy Laborator	ies	PHONE:	(866) 686-7175	FAX
	400 W Boxelder Rd CITY, STATE, ZIP: Gillette, WY 82718			ACC			EMAIL:
	Gine	w, w 1 02/10					
ІТЕМ	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	CONTAINERS	ANALYTICAL COMMENTS
1 2	2006046-001B	SVE (MW2)	TEDLAR	Air	6/1/2020 11:35:00 AM	1 Natural Gas Analy	

Relinquished By:	Date: 6/2/2020	Time: 8:32 AM	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED:		
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE		
elinquished By:	Date:	Time:	to hoopey with	Jago Co	1 trans/	FOR LAB USE ONLY		
TAT· Str	nderd 🔊		1 1/2	4400		Temp of samples C Attempt to Cool ?		
TAT: Standard RUSH Next BD 2nd BD 3rd BD Comments:								

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **2006046**

11-Jun-20

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID: mb1

Sample ID: 100NG LCS	SampT	ype: LC	S	TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch	ID: We	9341	RunNo: 69341						
Prep Date:	Analysis D	ate: 6/	2/2020	SeqNo: 2405014 Units: μg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	114	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.5	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.1	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.3		10.00		93.2	70	130			

TestCode: EPA Method 8260B: VOLATILES

•	• ap.	• •		. co.co.co. Zi / motile							
Client ID: PBW	Batch	ID: A6	9471	F	RunNo: 6 9	9471					
Prep Date:	Analysis D	ate: 6/	8/2020	S	SeqNo: 24	410459	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	3.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	3.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006046**

11-Jun-20

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Campic ID. IIID1	Camp Type. MBER			restoode. El A Metilod 02005. VOLATILLO						
Client ID: PBW	Batch	ID: A6	9471	R	RunNo: 69	9471				
Prep Date:	Analysis D	ate: 6/	8/2020	S	SeqNo: 24	110459	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		99.9	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006046**

11-Jun-20

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID: mb1	le ID: mb1 SampType: MBLK				TestCode: EPA Method 8260B: VOLATILES					
Client ID: PBW	ient ID: PBW Batch ID: A69471			RunNo: 69471						
Prep Date:	Analysis D	Date: 6/	/8/2020	9	SeqNo: 2	410459	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10		10.00		99.9	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.1	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

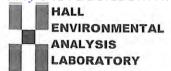
Sample ID: 100ng lcs	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	Batch ID: A69471			RunNo: 69471					
Prep Date:	Analysis D	ate: 6/	8/2020	S	SeqNo: 2410460					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	87.8	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	90.5	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	85.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.7	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.0	70	130			
Surr: Dibromofluoromethane	9.0		10.00		89.6	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

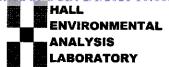
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Num	ber: 2006046		RcptNo: 1	
Received By: Emily Mocho	6/2/2020 8:00:00 A	M			
Completed By: Isaiah Ortiz	6/2/2020 8:29:08 A	M	1,0	4	
Reviewed By: JR 64120					
Chain of Custody	R 6/2/20				
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the sample	s?	Yes 🗸	No 🗌	NA 🗆	
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated tes	t(s)?	Yes 🗸	No 🗆		
7. Are samples (except VOA and ONG) prop		Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗸	NA 🗆	
9. Received at least 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers received bro	ken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗆	bottles checked for pH: (<2 or >12 unless no	ited)
12. Are matrices correctly identified on Chain	of Custody?	Yes 🗸	No 🗆	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗸	No 🗌	/	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸	No 🗌	checked by: GM Ce 12	126
Special Handling (if applicable)					
15. Was client notified of all discrepancies wi	th this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail P	hone Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information Cooler No Temp °C Condition 1 6.6 Good	Seal Intact Seal No Not Present	Seal Date	Signed By		



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG	Work Order Numi	per: 1811103		RcptNo:	1
Received By:	Anne Thorne	11/2/2018 6:45:00 /	M	anne II-	_	,
Completed By:	Anne Thorne	11/2/2018 1:06:26 F	PM	Ame St. Ame St.		
Reviewed By:	JAB 11/0	2/18		Clare Stan	_	
Chain of Cus	by: 11/2/18	K .		,		* **
	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>		Y				
3. Was an attern	npt made to cool the	samples?	Yes 🗌	No 🗌	NA 🗹	
4. Were all samp	oles received at a ter	mperature of >0° C to 6.0°C	Yes 🗌	No 🗌	NA 🗹	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sam	ple volume for indica	ated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ON	G) properly preserved?	Yes 🗹	No 🗆		
8. Was preserva	tive added to bottles	?	Yes 🗌	No 🗹	NA \square	
9. VOA vials hav	e zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
10. Were any san	nple containers recei	ved broken?	Yes	No 🗹	# of preserved	
11. Does paperwo	ork match bottle labe	is?	Yes 🗹	No 🗆	bottles checked for pH:	
	ancies on chain of cu	- ·	_	_	•	>12 unless noted)
	correctly identified on	•	Yes 🗹	No 📙	Adjusted?	
	t analyses were requ		Yes 🗹	No 🗆		
	ng times able to be n ustomer for authoriza		Yes 🗹	No ∐	Checked by:	
Special <u>Handl</u>	ing (if applicabl	<u>e)</u>				
15. Was client no	tified of all discrepan	cies with this order?	Yes \square	No 🗌	NA 🗹	
Person	Notified:	Date				
By Who	m:	Via:	eMailP	hone Fax	In Person	
Regardi	ng:		Appropriate the contract of th			
Client In	structions:					
16. Additional rer	marks:					
17. Cooler Inform	mation					
Cooler No	Temp °C Cond	ition Seal Intact Seal No	Seal Date	Signed By		
1	Good	Yes				

Page 1 of 1

WATER/FLUID

FIELD LOG

SHEETS

MONITOR WELL DEVELOPMENT &/OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #:

LABORATORY (S) USED: HALL ENVIRONMENTAL

N/A

Sandoval GC A #1A - Compr. pit

UNIT C, SEC. 35, T30N, R9W

Date: August 30, 2011

DEVELOPER / SAMPLER:

NJV

Filename: 08-30-11.WK4

PROJECT MANAGER:

NJV

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
2			33.54	40.00	1135	7.28	2700	17.8	3.75

INSTRUMENT CALIBRATIONS =

DATE & TIME = 08/30/2011

 4.01/7.00/10.00
 2,800

 08/30/2011
 1130

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW #2, murky brown appearance, undistinguishable odor detected

within purged water. Collected sample for BTEX per US EPA Method 8021B.

EPNG well monitor well top elevation = 101.46 ft.

Top of casing MW #2 \sim 2.75 ft. above grade.

on-site	11:00	temp	80 F
off-site	11:45	temp	84 F
sky cond.	Sunny		
wind speed	0 - 5	direct.	ESE - WNW

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #:

N/A

Sandoval GC A #1A - Compr. pit

Date: December 9, 2011

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT C, SEC. 35, T30N, R9W

DEVELOPER / SAMPLER:

NJV

Filename: **12-09-11.WK4**

PROJECT MANAGER:

NJV

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	68.22	34.97	40.00	1430	7.38	2,200	14.9	2.50
2	101.78	68.21	33.57	40.00	1530	7.09	2,700	14.9	3.25
3	99.13		DRY	38.73	-	-	-	-	-
4	98.96		DRY	38.62	-	-	-	-	-
EPNG	101.46	68.20	33.26		-	-	-	_	-

INSTRUMENT CALIBRATIONS =

DATE & TIME = ||12/09/2011|

4.01/7.00/10.00 2,800 1035

NOTES:

Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW #2, murky brown appearance, undistinguishable odor detected

within purged water. Collected sample for BTEX per US EPA Method 8021B.

Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with

brass adjustable flow valve attachment added near sampling end of tubing.

Inserted 5 new ORC filter socks within MW #1 water column after sample collection within MW #2.

Top of casing MW #1 ~ 1.00 ft., MW #2 ~ 2.75 ft. above grade, MW #3 ~ @ grade,

on-site	1:10	temp	34 F
off-site	3.55	temp	39 F
sky cond.	Sun	ny	
wind speed	CALM	direct.	S

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #: N/A

Sandoval GC A #1A - Compr. pit

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT C, SEC. 35, T30N, R9W

Date: February 9, 2012

DEVELOPER / SAMPLER:

NJV

Filename: **02-09-12.WK4**

PROJECT MANAGER:

NJV

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	68.18	35.01	40.00	1300	6.82	3,300	16.3	2.50
2	101.78	68.22	33.56	40.00	1345	6.90	2,800	16.1	3.25
3	99.13	60.61	38.52	38.73	-	-	-	-	-
4	98.96	61.90	37.06	38.62	-	-	-	-	-
EPNG	101.46	68.20	33.26		-	-	-	_	-

INSTRUMENT CALIBRATIONS =

4.01/7.00/10.00 2.800 **DATE & TIME =** ||02/07/2012|0830

NOTES:

Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW #1 & #2, undistinguishable odor detected within purged water from

MW #2. Collected samples for BTEX per US EPA Method 8021B from MW #1 & #2 only.

Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with

brass adjustable flow valve attachment added near sampling end of tubing.

Top of casing MW #1 ~ 1.00 ft., MW #2 ~ 2.75 ft. above grade, MW #3 ~ @ grade,

on-site	12:14	temp	47 F
off-site	2:38	temp	51 F
sky cond.	Mostly	sunny	
wind speed	5 - 15	direct.	W - WNW

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. CHAIN-OF-CU

CHAIN-OF-CUSTODY #: N/A

Sandoval GC A #1A - Compr. pit

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT C, SEC. 35, T30N, R9W

Date: June 21, 2012

DEVELOPER / SAMPLER: N J V

Filename: **06-21-12.WK4**

PROJECT MANAGER: NJV

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	66.06	37.13	40.00	1400	6.78	3,300	19.6	1.00
2	101.78	68.08	33.70	40.00	1505	6.87	2,600	18.4	3.00
3	99.13	59.98	39.15	38.73	-	-	-	-	-
4	98.96	61.27	37.69	38.62	-	-	-	-	-
EPNG	101.46	68.05	33.41		-	-	-	-	-

INSTRUMENT CALIBRATIONS = 4.01/7.00/10.00

DATE & TIME =

 4.01/7.00/10.00
 2,800

 06/20/12
 1010

NOTES:

Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Good recovery in MW #1 & #2, undistinguishable odor detected within purged water from

MW #2. Collected samples for BTEX per US EPA Method 8021B from MW #1 & #2 only.

Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with

brass adjustable flow valve attachment added near sampling end of tubing.

Top of casing MW #1 \sim 1.00 ft., MW #2 \sim 2.75 ft. above grade, MW #3 \sim @ grade,

on-site	1:10	temp	91 F
off-site	3:15	temp	96 F
sky cond.	Sun		
wind speed	0 - 5	direct.	Calm

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. CHAIN-OF-CUSTODY #:

N/A

Sandoval GC A #1A - Compr. pit

Date: September 20, 2012

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT C, SEC. 35, T30N, R9W

DEVELOPER / SAMPLER:

NJV

Filename: **09-20-12.WK4**

PROJECT MANAGER:

NJV

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	67.11	36.08	40.00	1220	6.94	3,700	15.2	2.00
2	101.78	68.00	33.78	40.00	1320	6.90	2,600	15.6	3.00
3	99.13	-	DRY	38.73	-	-	-	-	-
4	98.96	-	-	38.62	-	-	-	-	-
EPNG	101.46	-	-	?	-	-	-	-	-

INSTRUMENT CALIBRATIONS = | 4.01/7.00/10.00

DATE & TIME =

2.800 09/20/12 0700

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW #1 & #2, undistinguishable odor detected within purged water from

MW #2. Collected samples for BTEX per US EPA Method 8021B from MW #1 & #2 only.

Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with

brass adjustable flow valve attachment added near sampling end of tubing.

Top of casing MW #1 \sim 1.00 ft., MW #2 \sim 2.75 ft. above grade, MW #3 \sim @ grade,

on-site	11:30	temp	75 F
off-site	1:30	temp	83 F
sky cond.	Sun		
wind speed	5 - 10	direct.	WSW

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. CHAIN-OF-CUSTODY#: N/A

Sandoval GC A # 1A - Compr. pit
UNIT C, SEC. 35, T30N, R9W

LABORATORY (S) USED: HALL ENVIRONMENTAL

Date: December 20, 2012 DEVELOPER / SAMPLER: N J V

Filename: 12-20-12.WK4 PROJECT MANAGER: N J V

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	65.97	37.22	40.00	1345	6.90	2,700	13.8	1.25
2	101.78	67.93	33.85	40.00	1420	7.01	2,200	14.8	2.50
3	99.13	-	DRY	38.73	-	-	-	-	-
4	98.96	62.14	36.82	38.62	-	-	-	-	-
EPNG	101.46	67.95	33.51	?	-	-	-	_	-

INSTRUMENT CALIBRATIONS =

DATE & TIME =

 4.01/7.00/10.00
 2,800

 12/20/12
 0820

NOTES: Volume of water purged from well prior to sampling; $V = pi \times r2 \times h \times 7.48 \text{ gal./ft3} \times 3 \text{ (wellbores)}$. (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

(1.6. 2 10100 1 (1/12)16. 11 116.) (1.6. 4 10100 1 (2/12)16.

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Good recovery in MW #1 & #2, undistinguishable odor detected within purged water from

MW #2. Collected samples for BTEX per US EPA Method 8021B from MW #1 & #2 only.

Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with

brass adjustable flow valve attachment added near sampling end of tubing.

Top of casing MW #1 \sim 1.00 ft., MW #2 \sim 2.75 ft. above grade, MW #3 \sim @ grade,

on-site	1:00	temp	23 F
off-site	2:30	temp	26 F
sky cond.	Sun		
wind speed	0 - 5	direct.	Calm

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. CHAIN-OF-CUSTODY #:

N/A

Sandoval GC A #1A - Compr. pit

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT C, SEC. 35, T30N, R9W

DEVELOPER / SAMPLER: NJV

Date: March 19, 2013 *Filename* : **03-19-13.WK4**

NJVPROJECT MANAGER:

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	64.90	38.29	40.00	1025	7.21	2,600	10.4	0.75
2	101.78	67.83	33.95 *	28.50	-	-	-	-	-
	DEPTH TO PRO	DDUCT (FT.) =	33.88	DEPTH TO WATER (FT.) =		34.09	PRODUCT THICKNESS (FT.) =		0.21
3	99.13	-	DRY	38.73	-	-	-	-	ı
4	98.96	62.09	36.87	38.62	-	-	-	-	-
EPNG	101.46	67.87	33.59	?	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

2,800 03/12/13 0900

4.01/7.00/10.00

DATE & TIME =

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65.

Very poor recovery in MW #1. Collected sample for BTEX per US EPA Method 8021B from MW #1 only. Purged well using 2 inch submersible electrical pump, new/clear vinyl tubing, and with brass adjustable flow valve attachment added near sampling end of tubing.

Top of casing MW #1 \sim 1.00 ft., MW #2 \sim 2.75 ft. above grade, MW #3 \sim @ grade, MW #4 \sim 0.25 ft. below grade.

on-site	9:30	temp	44 F
off-site	10:40	temp	50 F
sky cond.	Sun		
wind speed	0 - 5	direct.	SE - W

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #: N/A

Sandoval GC A #1A - Compr. pit

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT C, SEC. 35, T30N, R9W

Date: June 19, 2013

DEVELOPER / SAMPLER : N J V

2,800

Filename: 06-19-13.WK4

PROJECT MANAGER: NJV

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	63.88	39.31	40.00	0905	7.31	2,100	16.5	0.50
2	101.78	67.77	34.01 *	28.50	-	-	-	-	-
	DEPTH TO PRO	DUCT (FT.) =	33.92	DEPTH TO WATER (FT.) =		34.18	PRODUCT THICKNESS (FT.) =		0.26
3	99.13	-	DRY	38.73	-	-	-	-	-
4	98.96	64.26	34.70	38.62	-	-	-	-	-
EPNG	101.46	-	-	?	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

OATE & TIME = 06/18/13 0630

4.01/7.00/10.00

DATE & TIME =

NOTES: Volume of water purged from well prior to sampling; $V = pi \times r2 \times h \times 7.48 \text{ gal./ft3} \times 3 \text{ (wellbores)}$. (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65.

Very poor recovery in MW #1. Collected sample for BTEX per US EPA Method 8021B from MW #1 only. Purged well using 2 inch submersible electrical pump, new / clear vinyl tubing, and with brass adjustable flow valve attachment added near sampling end of tubing. No access to EPNG well.

Top of casing MW #1 \sim 1.00 ft., MW #2 \sim 2.75 ft. above grade, MW #3 \sim @ grade, MW #4 \sim 0.25 ft. below grade.

on-site	8:00	temp	68 F
off-site	10:00	temp	81 F
sky cond.	Sun	ny	
wind speed	0 - 10	direct.	E - SE

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. CHAIN-OF-CUSTODY#: N/A

SANDOVAL GC A #1A - COMPR. PIT

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT C, SEC. 35, T30N, R9W

Date: September 26, 2013 DEVELOPER/SAMPLER: NJV

Filename: 09-26-13.WK4 PROJECT MANAGER: N J V

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	63.34	39.85	40.00	-	-	-	-	-
2	101.78		33.98 *	28.50	-	-	-	-	1
	DEPTH TO PRO	DUCT (FT.) =	33.94	DEPTH TO WATER (FT.) =		34.05	PRODUCT THICKNESS (FT.) =		0.11
3	99.13	-	DRY	38.73	-	-	-	-	-
4	98.96	-	-	38.62	-	-	-	-	-
EPNG	101.46	-	-	?	-	-	-	_	-

INSTRUMENT CALIBRATIONS =

DATE & TIME = 0

 4.01/7.00/10.00
 2,800

 09/26/13
 0700

NOTES: Volume of water purged from well prior to sampling; $V = pi \times r2 \times h \times 7.48 \text{ gal./ft3} \times 3 \text{ (wellbores)}$. (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

* INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65.

Insufficient quantity within MW #1. Completed gauging of MW #2 only. No access to EPNG well.

Top of casing MW #1 ~ 1.00 ft., MW #2 ~ 2.75 ft. above grade, MW #3 ~@ grade,

on-site	12:45	temp	76 F
off-site	1:05	temp	76 F
sky cond.	Sun	ny	
wind speed	10 - 20	direct.	SSW

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. CHAIN-OF-CUSTODY #: N/A

SANDOVAL GC A #1A - COMPR. PIT

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT C, SEC. 35, T30N, R9W

Date: December 17, 2013

DEVELOPER / SAMPLER: NJV

NJV*Filename* : **12-17-13.WK4** PROJECT MANAGER:

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	63.30	39.89	40.00	-	-	-	-	-
2	101.78	67.55	34.23 *	28.50	-	-	-	-	-
	DEPTH TO PRO	DUCT (FT.) =	34.10	DEPTH TO WATER (FT.) =		34.48	PRODUCT THICKNESS (FT.) =		0.38
3	99.13	-	DRY	38.73	-	-	-	-	-
4	98.96	62.04	36.92	38.62	-	-	-	-	-
EPNG	101.46	-	-	?	-	-	-	_	-

INSTRUMENT CALIBRATIONS = $\parallel 4.01/7.00/10.00$

2,800 12/16/13 0600 DATE & TIME =

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

INDICATES PRODUCT SPECIFIC GRAVITY ASSUMED TO = 0.65.

Insufficient quantity within MW #1. Completed gauging of MW #2 only. No access to EPNG well.

Top of casing MW #1 \sim 1.00 ft., MW #2 \sim 2.75 ft. above grade, MW #3 \sim @ grade,

on-site	8:45	temp	21 F
off-site	9:45	temp	26 F
sky cond.	Sun	iny	
wind speed	0 - 5	direct.	ESE

CLIENT :	BP AME	RICA PRO	OD. CO.	CHAIN-OF-CUSTODY #:			N / A		
	. GC A # 1A EC. 35, T30N		PIT		L	ABORATOR'	Y(S) USED:	HALL ENVIR	RONMENTAL
Date :	March 11,		g 03-11-14.xls		Г		/ SAMPLER : MANAGER :		J V I V
i ilonamo .	<u> </u>	JA IA IIIW IO	9 00 11 14.8.0	-		TROULOT	WATER COLICE		, ,
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME	•	(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)			,	,	(gal.)
1	, , ,		, ,	. ,	•				,,
1	103.19	63.25	39.94	40.00	-	-	-	-	-
2	101.78	67.57	34.21 *	28.50	-	-	-	-	-
	DEPTH TO	PRODUCT (FT.)=	34.07	DEPTH	TO WATER (FT.)=	34.46	PRODUCT	THICKNESS (FT.) =	0.39
3	99.13	-	DRY	38.73	-	-	-	-	-
4	98.96	62.06	36.90	38.62	-	-	-	-	-
EPNG	101.46	-	-	?	-	•	-	-	-
			INSTRUMENT	CALIBRATIC	NS =	4.01/7.00/10.00	2,800		
			DATE & TIMI	= 02/24/14 0600					
					<u>'</u>				
NOTES:	Volume of	water purge	ed from well	prior to sa	ampling: V =	pi X r2 X h	X 7.48 gal./ft	3) X 3 (wellb	ores).
	(i.e. 2" MW	r = (1/12) ft	. h = 1 ft.)	(i.e. 4" MW	r = (2/12) ft.	h = 1 ft.)			
	Ideally a mir	nimum of thre	ee (3) wellboi	re volumes:		2.00" well d	iameter =	0.49 gal./ft.	of water.
Comments	or note we	ll diameter i	f not standa	ırd 2 ".					
			assumed to						
Insufficient q	uantity within l	MW # 1 . Com	pleted gaugin	g of MW #2 c	nly. No access	s to EPNG we	ell.		
-									
T	NAVAL#4 - 4.0	0.6 101110	0.75 %	B 43 4 4	#0 G '	NAVA/#4 0.1	75 ft L.		
rop of casing	g IVIVV #1 ~ 1.0	υ π., MW #2 [^]	~ 2.75 ft. above	e grade, MW	#3 ~ @ grade	, IVIVV #4 ~ 0.2	25 π. below gra	age.	

on-site	10:15 AM	temp	48 F
off-site	10:45 AM	temp	49 F
sky cond.		Sunny	
wind speed	5 - 10	direct.	NW

BLAGG ENGINEERING, INC. MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.					CHAIN-OF-CUSTODY # :			N / A	
	. GC A # 1A		PIT		L	.ABORATOR	Y (S) USED :	HALL ENVIR	RONMENTAL
UNIT C, SE	EC. 35, T30N	I, R9W							
Date :	June 25, 2	2014			[DEVELOPER	/ SAMPLER :	N.	JV
Filename :	Sandoval GC A 1A mw log 06-25-14.xls			3		PROJECT	MANAGER :	N.	JV
\A/E1.1	\A/E11	\A/ATED	DEDTH TO	TOTAL	CAMPLING		CONDUCT	TEMP	VOLUME
WELL #	WELL ELEV.	WATER ELEV.	DEPTH TO WATER	TOTAL DEPTH	SAMPLING TIME	pН	CONDUCT		VOLUME PURGED
#	(ft)	(ft)	(ft)	(ft)	IIIVIE		(umhos)	(celcius)	(gal.)
	(11)	(11)	(11)	(11)					(gai.)
1	103.19	63.24	39.95	40.00	-	-	-	-	-
2	101.78	67.47	34.31 *	28.50	-	-	-	-	-
1	DEPTH TO	PRODUCT (FT.)=	34.16	DEPT	H TO WATER (FT.)=	34.58	PRODUCT	THICKNESS (FT.) =	0.42
3	99.13	-	-	38.73	-	-	-	-	-
4	98.96	-	-	38.62	-	-	-	-	-
EPNG	101.46	-	-	?	-	-	-	-	ı
			INSTRUMENT	CALIBRATIO	ONS =	4.01/7.00/10.00	2,800		
			DATE & TIMI	E =		06/24/14	1730		
NOTES:	(i.e. 2" MW	r = (1/12) ft		(i.e. 4" MW	ampling: V = r = (2/12) ft.		-	3) X 3 (wellb 0.49 gal./ft.	,
Comments	or note wel	ll diameter i	f not standa	ırd 2".					
* - Indicates	product spe	ecific gravity	assumed to	o = 0.65 (if	f applicable).				
					only. No access		ell.		
Top of cooing	n MM/ #4 4 0	00 ft - ΝΛ\Λ/ #Ω -	2 75 ft obov	arada MM	#3 ~ @ grade	MM #4 ~ 0 1	05 ft holow are	ado	
Top or casing	y 1V1VV #1 ~ 1.U	ιι., IVIVV #2 ^	- 2.10 IL above	z graue, ww	#5 ~ @ grade	, IVIVV #4 ~ U.Z	20 II. Delow gra	au c .	

on-site	9:00 AM	temp	75 F
off-site	9:30 AM	temp	77 F
sky cond.		Sunny	
wind speed	0 - 10	direct.	ESE - E

CLIENT :	BP AME	RICA PRO	OD. CO.		CHAIN-OF-CUSTODY #			:N/A	
_	GC A # 1A		PIT		L	.ABORATOR	Y(S) USED:	HALL ENVIR	RONMENTAL
UNIT C, SE	EC. 35, T30N	I, R9W							
Date :	August 28	, 2014			Г	DEVELOPER	/ SAMPLER :	N.	JV
Filename :	Sandoval Go	C A 1A mw lo	g 08-28-14.xls	S			MANAGER :		JV
\	1 14/51		DEDTUTO	TOTAL			CONDUCT	TE. 40	
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT		VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	63.24	39.95	40.00	_	_	_	_	_
2	101.78	67.73	34.05 *	28.50	_		_		
		PRODUCT (FT.)=	33.97		TO WATER (FT.) =	34.20	PRODUCT	THICKNESS (FT.)=	0.23
3	99.13	-	-	38.73	-	-	-	-	-
4	98.96	_	-	38.62	_	-	_	_	-
EPNG	101.46	-	-	?	-	-	-	-	-
	•	I.	INSTRUMENT	CALIBRATIO	NS =	4.01/7.00/10.00	2,800		
			DATE & TIM	E =		08/25/14	0600		
					L			1	
NOTES:	Volume of	water purge	ed from well	prior to sa	mplina: V =	pi X r2 X h	X 7.48 gal./ft	3) X 3 (wellb	ores).
					r = (2/12) ft.		_	,	
	Ideally a mir	nimum of thre	ee (3) wellbo	re volumes:		2.00" well d	iameter =	0.49 gal./ft.	of water.
Comments	or note we	ll diameter i	f not standa	ard 2 ".					
					applicable).				
	•	MW # 1 . Com	pleted gaugin	g of MW #2 o	nly. Measured	free product	thickness fron	n disposable b	pailer.
No access to	EPNG well.								
-									
-									
•									
Top of casino	g MW #1 ~ 1.0	00 ft MW #2 ^	~ 2.75 ft. above	e grade. MW	#3 ~ @ grade	. MW #4 ~ 0.2	25 ft. below ar	ade.	
	, 1.0	,		J,		, 0.1	s.e.r. giv		

on-site	11:00 AM	temp	73 F
off-site	11:30 AM	temp	74 F
sky cond.		Sunny	
wind speed	5 - 15	direct.	WNW

CLIENT: BP AMERICA PROD. CO.					CHAIN-OF-CUSTODY # :			N / A	
	GC A # 1A EC. 35, T30N		PIT		L	.ABORATOR`	Y(S) USED:	HALL ENVIR	ONMENTAL
Date : Filename :	December Sandoval GO	,	g 2014-12-03.	xls	[/ SAMPLER : MANAGER :		
			<u> </u>				•		
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
	1		T						
1	103.19	63.25	39.94	40.00	-	-	-	-	-
2	101.78	67.30	34.48 *	28.50	-	-	-	-	-
	DEPTH TO	PRODUCT (FT.) =	34.26		TO WATER (FT.)=	34.90	PRODUCT 1	THICKNESS (FT.) =	0.64
3	99.13	-	-	38.73	-	-	-	-	-
4	98.96	-	-	38.62	-	-	-	-	-
EPNG	101.46	-	-	?	-	-	-	-	-
	INSTRUMENT CALIBRATIONS = 4.01/7.00/10.00 2,800								
NOTES:					<u>ampling: V =</u> r = (2/12) ft.		X 7.48 gal./ft	3) X 3 (wellb	ores).
	Ideally a mir	nimum of thr	ee (3) wellbo	re volumes:		2.00" well di	ameter =	0.49 gal./ft.	of water.
Comments	or note wel	ll diameter i	f not standa	ard 2".					
* - Indicates	product spe	ecific gravity	assumed to	o = 0.65 (if	applicable).				
Insufficient q	uantity within I	MW # 1 . Com	pleted gaugin	g of MW #2 o	only. No access	s to EPNG we	II.		
-									
Tf '	NAVA 4. 0	0.6 101120	0.75.4 -1	NAMA	#0 O !	NAVA / 44 O C	VE # 11	- 4 -	
op of casing	j ivivv #1 ~ 1.0	υ π., MW #2 [^]	~ ∠./5 ft. above	e grade, MW	#3 ~ @ grade	, IVIVV #4 ~ 0.2	to π. below gra	ade.	

on-site	3:45 PM	temp	49 F				
off-site	4:15 PM	temp	49 F				
sky cond.	Cloudy/Light Rain						
wind speed	Calm	direct.	NA				

CLIENT : BP AMERICA PROD. CO. CHAIN-OF-CUSTODY #					CUSTODY # :	N.	/ A		
	GC A # 1A EC. 35, T30N	- COMPR. F	PIT		L	.ABORATOR`	Y (S) USED :	HALL ENVIR	ONMENTAL
ONIT C, SI	_0. 33, 1301	1, 1300							
Date :	May 26, 20	015				DEVELOPER	/ SAMPLER :	Ν.	JV
Filename :	Sandoval GO	C A 1A mw lo	g 2015-05-26.	xls		PROJECT	MANAGER :	N.	JV
	1	1					,		
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT		VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
	100.40	1	55)/	40.00			T I		
1	103.19	-	DRY	40.00	-	-	-	-	-
2	101.78	66.65	35.13 *	28.50	-	-	-	-	-
_		PRODUCT (FT.) =			TO WATER (FT.) =	35.48	PRODUCT 1	THICKNESS (FT.) =	0.54
3	99.13	-	-	38.73	-	-	-	-	-
4	98.96	-	-	38.62	-	-	-	-	-
EPNG	101.46	-	-	?	-	-	-	-	-
			INSTRUMENT		DNS =	4.01/7.00/10.00	2,800		
			DATE & TIM	E =		05/26/15	0630		
NOTES:	(i.e. 2" MW	r = (1/12) ft	. h = 1 ft.)	(i.e. 4" MW	ampling: V = r = (2/12) ft.	h = 1 ft.)			
	Ideally a mir	nimum of thre	ee (3) wellbo	re volumes:		2.00" well di	iameter =	0.49 gal./ft.	of water.
Comments	or note wel	ll diameter i	f not standa	ard 2".					
* - Indicates	product spe	ecific gravity	assumed to	o = 0.65 (if	applicable).				
			ccess to EPN						
		<u>-</u>							
Top of casing	g MW #1 ~ 1.0	00 ft., MW #2 ~	- 2.75 ft. above	e grade, MW	#3 ~ @ grade	, MW #4 ~ 0.2	25 ft. below gra	ade.	

on-site	8:45 AM	temp	58 F
off-site	9:15 AM	temp	60 F
sky cond.		Mostly sunny	
wind speed	0 - 5	direct.	E - SE

BLAGG ENGINEERING, INC. MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. CHAIN-OF-CUSTODY#					N / A				
	GC A # 1A EC. 35, T30N		PIT		L	.ABORATOR`	Y (S) USED :	HALL ENVIR	ONMENTAL
Date :	August 29,				[DEVELOPER	/ SAMPLER :	N.	J V
Filename :	ilename : Sandoval GC A 1A mw log 2014-12-03.xls PROJECT MANAGER :							N.	J V
\A/E11	\A/=1.1	WATER	DEDTUTO	TOTAL	CAMPLING	ml I	CONDUCT	TEMP	VOLUME
WELL #	WELL ELEV.	WATER ELEV.	DEPTH TO WATER	TOTAL DEPTH	SAMPLING TIME	pН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED
#	(ft)	(ft)	(ft)	(ft)	I IIVIL		(uninos)	(Celcius)	(gal.)
	()	()	(/	(1.5)					(94)
1	103.19	-	DRY	40.00	-	-	-	-	-
2	101.78	67.39	34.39	28.50	-	-	-	-	-
	DEPTH TO	PRODUCT (FT.)=	?	DEPTH	TO WATER (FT.)=	34.39	PRODUCT 1	THICKNESS (FT.)=	.2.25
3	99.13	-	-	38.73	-	-	-	-	-
4	98.96	-	-	38.62	-	-	-	-	-
EPNG	101.46	-	-	?	-	-	-	-	-
			INSTRUMENT DATE & TIM		DNS =	4.01/7.00/10.00 12/03/14	2,800 0600		
NOTES:	(i.e. 2" MW	r = (1/12) ft.		(i.e. 4" MW	ampling: V = r = (2/12) ft.		•	3) X 3 (wellb 0.49 gal./ft.	,
			f not standa						
				•	applicable).				
Completed g	auging of MW	#2 only. No a	ccess to EPN	G well.					
Top of casing	g MW #1 ~ 1.0	0 ft., MW #2 ~	~ 2.75 ft. above	e grade, MW	#3 ~ @ grade	, MW #4 ~ 0.2	25 ft. below gra	ade.	

on-site	11:00 AM	temp	49 F			
off-site	11:30 AM	temp	49 F			
sky cond.	Cloudy/Light Rain					
wind speed	Calm	direct.	NA			

CLIENT : BP AMERICA PROD. CO. CHAIN-OF-CUSTODY #					CUSTODY#:	N/A			
	. GC A # 1A EC. 35, T30N		PIT		L	.ABORATOR`	Y (S) USED :	HALL ENVIR	RONMENTAL
Date : Filename :	November Sandoval G		g 2015-11-30.	vle	[/ SAMPLER : MANAGER :		1
i licitatile .	Sandovai G	JA IA IIIW IO	<u>g 2013-11-30.</u>	AIS		TROJECT	WANAOLIY.		
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
		T	1		1	T	1		I
1	103.19	- 07.40	DRY	40.00	-	-	-	-	-
2	101.78	67.12	34.66	28.50	-	-	-	-	- 0.50
	1	PRODUCT (FT.) =	?		TO WATER (FT.) =	34.66	PRODUCT 1	THICKNESS (FT.) =	>2.50
3	99.13	-	-	38.73	-	-	-	-	-
EPNG	98.96 101.46	-	-	38.62	-	-	-	-	-
LFNG	101.40	_	INICTOLINACNIT		NIC -	-	2 900	-	-
INSTRUMENT CALIBRATIONS = 4.01/7.00/10.00 2,800 DATE & TIME = 11/30/15 0630									
NOTES:	(i.e. 2" MW	r = (1/12) ft		(i.e. 4" MW	ampling: V = r = (2/12) ft.	. h = 1 ft.)	-	3) X 3 (wellb 0.49 gal./ft.	ŕ
Comments	or note wel	ll diameter i	f not standa	ard 2".					
					applicable).				
Completed g	auging of MW	#2 only. No a	ccess to EPN	G well.					
Top of casing	g MW #1 ~ 1.0	00 ft., MW #2 ^	~ 2.75 ft. abov	e grade, MW	#3 ~ @ grade	, MW #4 ~ 0.2	25 ft. below gra	ade.	
		_							

on-site	10:15 AM	temp	28 F
off-site	11:15 AM	temp	30 F
sky cond.		Sunny	
wind speed	5 - 10	direct.	W

BLAGG ENGINEERING, INC. MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT:	BP AME	RICA PRO	OD. CO.			CHAIN-OF-0	CUSTODY#:	N.	/ A
II	. GC A # 1A		PIT		L	.ABORATOR	Y (S) USED :	HALL ENVIR	RONMENTAL
UNIT C, SI	EC. 35, T30N	I, R9W							
Date :	February 24	, 2016			Г	DEVELOPER	/ SAMPLER :	Ν,	JV
Filename :	Sandoval G	C A 1A mw lo	g 2016-02-24.	xls		PROJECT	MANAGER :	N.	J V
\		\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	DEDTUTO	TOTAL	0.4451.1410		CONDUCT	TE. 10	
WELL #	WELL ELEV.	WATER ELEV.	DEPTH TO	TOTAL DEPTH	SAMPLING	рН	CONDUCT		VOLUME
#	(ft)	(ft)	WATER (ft)	(ft)	TIME		(umhos)	(celcius)	PURGED (gal.)
	(11)	(11)	(11)	(11)					(gai.)
1	103.19	63.24	39.95	40.00	-	-	-	-	-
2	101.78	-	35.95 *	28.50	-	-	-	-	-
	DEPTH TO	PRODUCT (FT.)=	?	DEPTI	TO WATER (FT.) =	35.95	PRODUCT	THICKNESS (FT.) =	?
3	99.13	-	DRY	38.73	-	•	-	-	-
4	98.96	61.26	37.70	38.62		-	-	-	-
			INSTRUMENT	CALIBRATIO	DNS =	4.01/7.00/10.00	2,800		
			DATE & TIMI	E =		08/25/14	0600		
NOTES:					$\frac{\text{ampling}; V = }{(2.42)^{\frac{6}{3}}}$		X 7.48 gal./ft	3) X 3 (wellb	ores).
	(i.e. 2" MW	r = (1/12) ft	h = 1 ft.	(i.e. 4" MW	r = (2/12) ft.	h = 1 ft.			
	ldoally a mir	nimum of thr	ee (3) wellboi	ro volumos:		2.00" well d	iamotor –	0.49 gal./ft.	of water
	lucally a IIII	IIIIIuiii oi uii	ee (3) wellbol	e volumes.		2.00 Well u	iameter –	0.49 gai./it.	oi water.
Comments	or note we	ll diameter i	f not standa	rd 2"					
Commonto	or moto wo	ii didiffictor i	i not otanda						
* - Indicates	product spe	ecific gravity	assumed to	= 0.65 (if	applicable).				
Insufficient q	uantity within I	MW # 1 . Com	pleted gauging	g of MW #2 o	only. No access	s to EPNG we	ell.		
Top of casin	n M/M #1 ~ 1 0	n∩ ft N/\Λ/ #? -	~ 2.75 ft .abov	arade M/M	#3 ~ @ grade	M\N/ #4 ~ 0 1	25 ft helow are	ade	
TOP OF CASIN	y 10100 #1 ~ 1.U	10 IL., IVIVV #Z ^	2.10 IL ADUVE	graue, IVIVV	πo - w grade	, IVIVV #4 ~ U.Z	LO IL. DEIOW GIA	au c .	

on-site	1:30 PM	temp	36 F
off-site	2:15 PM	temp	40 F
sky cond.		Partly cloud	dy
wind speed	0 - 5	direct.	Calm - WSW

BLAGG ENGINEERING, INC.

CLIENT :	CLIENT: BP AMERICA PROD. CO.				CHAIN-OF-CUSTODY # :			N / A	
	. GC A # 1A		PIT		L	.ABORATOR	Y (S) USED :	HALL ENVIR	RONMENTAL
UNIT C, SE	EC. 35, T30N	I, R9W							
Date :	May 24, 2010	6			Г	DEVELOPER	/ SAMPLER :	N.	J V
Filename :			g 2016-05-24.	xls	_		MANAGER:		
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
		ı	1				1	ı	
1	103.19	63.24	39.95	40.00	-	-	-	-	-
2	101.78	64.23	37.55 *	28.50		-	-	-	-
	1	PRODUCT (FT.) =	36.29		TO WATER (FT.) =	39.90	PRODUCT	THICKNESS (FT.) =	3.61
3	99.13	-	DRY	38.73	-	-	-	-	-
4	98.96	60.78	38.18	38.62		-	-	-	-
			INSTRUMENT		NS =	4.01/7.00/10.00	2,800		
			DATE & TIMI	E =		05/23/16	0600		
NOTES:					ampling; V = r = (2/12) ft.		X 7.48 gal./ft	3) X 3 (wellb	ores).
	Ideally a mi	nimum of thre	ee (3) wellbo	re volumes:		2.00" well d	iameter =	0.49 gal./ft.	of water.
Comments	or note wel	ll diameter i	f not standa	rd 2 ".					
					applicable).				
Insufficient q	uantity within l	MW # 1 . Com	pleted gauging	g of MW #2 c	only. No access	s to EPNG we	ell.		
-									
-									
Top of casing	n MW #1 ~ 1 f	00 ft MW #2 ~	- 2 75 ft above	e grade MW	#3 ~ @ grade	MW #4 ~ 0 1	25 ft below an	ade	
1 op or odding	9	70 I, IVIVV #Z	2.70 It. above	9.440, 17177	"o w grado	, 111111 11 - 0.2	-0 11. DOIOW 911	<u> </u>	

on-site	12:00 PM	temp	73 F
off-site	12:45 PM	temp	74 F
sky cond.		Sunny	
wind speed	0 - 10	direct.	SSE - S

BLAGG ENGINEERING, INC.

CLIENT:	BP AME	RICA PRO	OD. CO.		CHAIN-OF-CUSTODY # :			N / A		
	. GC A # 1A EC. 35, T30N		PIT		L	ABORATOR'	Y(S) USED:	HALL ENVIR	RONMENTAL	
Date : Filename :	September 2 Sandoval GC		g 2016-09-23.	xls	DEVELOPER / SAMPLER : PROJECT MANAGER :					
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)	
1	103.19	63.23	39.96	40.00	-	-	-	-	-	
2	101.78	63.89	37.89 *	40.00	-	-	-	-	-	
	DEPTH TO	PRODUCT (FT.)=	36.76	DEPTH	TO WATER (FT.) =	40.00	PRODUCT	THICKNESS (FT.) =	3.24	
3	99.13	-	DRY	38.73	-	•	-	-	-	
4	98.96	-	-	38.62		-	-	-	-	
NOTES:	(i.e. 2" MW	r = (1/12) ft.		(i.e. 4" MW	ampling; V = r = (2/12) ft.		-	3) X 3 (wellb 0.49 gal./ft.		
Comments	or note wel	l diameter i	f not standa	rd 2".						
Insufficient q	uantity within N	MW # 1 . Com	pleted gauging	g of MW #2 c	applicable). only. No access #3 ~ @ grade	s to EPNG we		nda		
TOP OF CASIFIC	g 1VIVV #1 1.0	II., IVIVV #2 ^	2.70 II. ADUVE	yraus, mivv	mo w grade	, ινίνν π4 ·- U.2	LO IL. DOIOW GIA	uu6.		

CLIENT:	BP AME	RICA PRO	OD. CO.			CHAIN-OF-CUSTODY #: N / A			/ A
_	GC A # 1A EC. 35, T30N	- COMPR. F I, R9W	PIT		L	.ABORATOR'	Y (S) USED :	HALL ENVIR	CONMENTAL
Date :	December 8	. 2016			Γ	DEVELOPER	/ SAMPLER :	N.	J V
Filename :		,	g 2016-12-08.	xls	_		MANAGER :		
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
						T			
1	103.19	63.23	39.96	40.00	-	-	-	-	-
2	101.78	64.79	36.99 *	40.00	-	-	-	-	-
•		PRODUCT (FT.) =	35.98		H TO WATER (FT.) =	38.86	PRODUCT 1	THICKNESS (FT.) =	2.88
3	99.13	-	-	38.73	-	-	-	-	-
4	98.96	-	-	38.62	-	-	-	-	-
			INSTRU	_	IBRATIONS =	4.01/7.00/10.00	2,800		
				DAT	E & TIME =	NA	NA		
NOTES:					$\frac{\text{ampling}; V = }{(2/42)^{\frac{1}{2}}}$		X 7.48 gal./ft	3) X 3 (wellb	ores).
	(i.e. 2" MW	r = (1/12) ft	h = 1 ft.	(i.e. 4" MW	r = (2/12) ft.	n = 1 ft.			
	Idaally a mir	nimum of thr	oo (2) wallba	ra valumaa		2.00" well d	iomotor –	0.40 gal /ft	ofwator
	ideally a mil	nimum or une	ee (3) wellboi	e volumes.		2.00 well a	iameter –	0.49 gal./ft.	or water.
Comments	or note we	II diameter i	f not standa	rd 2"					
Comments	of flote we	ıı ulametel i	i ilot Stariua	iu Z .					
* - Indicates	product spe	ecific gravity	assumed to	= 0.65 (if	f applicable).				
					only. No access		ااد		
mounicient q	admitty Within I	11.0011	pictou gaugiii	9 01 11111 112 1	5111y: 140 G0000	o to El 110 we	,		
Top of casing	y MW #1 ~ 1.0	00 ft., MW #2 ~	~ 2.75 ft. above	e grade, MW	#3 ~ @ grade	, MW #4 ~ 0.2	25 ft. below gra	ade.	

on-site	12:20 PM	temp	37 F
off-site	1:20 PM	temp	38 F
sky cond.		Mostly cloudy	/
wind speed	0 - 5	direct.	E

CLIENT :	BP AME	RICA PRO	OD. CO.		CHAIN-OF-CUSTODY # :			N / A	
	GC A # 1A		PIT		L	ABORATOR'	Y(S) USED:	HALL ENVIR	ONMENTAL
UNIT C, SI	EC. 35, T30N	I, R9W							
Date :	March 31, 20	017			DEVELOPER / SAMPLER			NJV	
Filename :	Sandoval GO	C A 1A mw lo	g 2017-03-31.	xls		PROJECT	MANAGER :	NJV	
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME	Pii	(umhos)	(celcius)	PURGED
"	(ft)	(ft)	(ft)	(ft)			(4111100)	(ociolac)	(gal.)
	. , ,	, ,	, , ,	,					(0 /
1	103.19	63.24	39.95	40.00	-	-	-	-	-
MW - 2	101.78	64.95	36.83	40.00	-	-	-	-	-
	1	PRODUCT (FT.) =	?		TO WATER (FT.)=	36.83	PRODUCT	THICKNESS (FT.) =	?
	3 99.13 38.73							-	-
4	98.96	-	- INICEDI	38.62	- DDATIONS	-	-	-	-
			INSTRU		BRATIONS = E & TIME =	4.01/7.00/10.00 NA	2,800 NA		
				DAI	L & IIIVIL -	14/3	14/1		
NOTES:	Volume of	water purge	ed from well	prior to sa	ampling; V =	pi X r2 X h	X 7.48 gal./ft	3) X 3 (wellb	ores).
	(i.e. 2" MW	r = (1/12) ft	. h = 1 ft.)	(i.e. 4" MW	r = (2/12) ft.	h = 1 ft.)	-		
	Ideally a mir	nimum of thre	ee (3) wellbor	re volumes:		2.00" well d	iameter =	0.49 gal./ft.	of water.
0		II al:	£ 4 4						
Comments	or note wer	ıı diameter i	f not standa	ra Z .					
Insufficient a	uantity within I	MW # 1 Com	pleted gauging	n of MW #2 c	nlv				
			.p.o.ou guag;	9 0					
-									
Top of casino	a MW #1 ~ 1.0	00 ft MW #2 ^	~ 2.75 ft. above	e grade. MW	#3 ~ @ grade	. MW #4 ~ 0.3	25 ft. below ara	ade.	
F =: ====	<i>,</i>	·-, · //-		<u> </u>		,			

on-site	10:00 AM	temp	44 F
off-site	10:45 AM	temp	45 F
sky cond.		Cloudy	
wind speed	5 - 15	direct.	West

CLIENT :	BP AME	RICA PRO	OD. CO.			CHAIN-OF-CUSTODY # :			N / A	
	GC A # 1A		PIT		L	.ABORATOR	Y (S) USED :	HALL ENVIRONMENTAL		
UNIT C, SE	EC. 35, T30N	I, R9W								
Date :	May 28, 2017	7			Г	DEVELOPER	/ SAMPLER :	N.	JV	
Filename :	Sandoval GO	C A 1A mw lo	g 2017-05-28.	xls		PROJECT	MANAGER :	N.	J V	
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рH	CONDUCT	TEMP.	VOLUME	
#	ELEV.	ELEV.	WATER	DEPTH	TIME	рп	(umhos)	(celcius)	PURGED	
"	(ft)	(ft)	(ft)	(ft)	1 IIVIL		(4111103)	(ociolas)	(gal.)	
	(11)	(1.1)	(,	(1.7)					(9)	
1	1 103.19 63.24 39.95 40.00								-	
MW - 2	101.78	66.80	34.98 *	40.00	-	-	-	-	-	
	DEPTH TO	PRODUCT (FT.)=	33.91	DEPT	H TO WATER (FT.) =	36.97	PRODUCT 1	THICKNESS (FT.)=	3.06	
3	99.13	-	-	38.73	-	-	-	-	-	
4	98.96	-	-	38.62	-	-	-	-	-	
			INSTRU		IBRATIONS =	4.01/7.00/10.00	2,800			
				DAT	TE & TIME =	NA	NA			
NOTEO :	\/-l -	4	-l f			: VO V I-	V 7 40 1 /ft/	0) V 0 /III-		
NOTES:					ampling: V =		X 7.48 gai./π	3) X 3 (Wellb	ores).	
	(i.e. Z IVIVV	r = (1/12) IL	. n = 1 1t.)	(i.e. 4 ivivv	r = (2/12) ft.	n = 1 i.i.				
	ldeally a mir	nimum of thre	ee (3) wellboi	re volumes:		2.00" well d	iameter =	0.49 gal./ft.	of water	
	racally a fill	illinain or an	cc (o) wender	re volunies.		2.00 WCII u		0.45 gai./it.	or water.	
Comments	or note wel	ll diameter i	f not standa	rd 2 ".						
* - Indicates	product spe	ecific gravity	assumed to	o = 0.65 (if	f applicable).					
Insufficient q	uantity within I	MW # 1 . Com	pleted gaugin	g of MW #2	only.					
Top of casino	MW #1 ~ 1.0	0 ft., MW #2 ^	~ 2.75 ft. above	e grade, MW	/ #3 ~ @ grade	, MW #4 ~ 0.2	25 ft. below gra	ade.		
		, <u>-</u>		<u> </u>			3			

on-site	7:15 AM	temp	50 F
off-site	8:00 AM	temp	52 F
sky cond.		Sunny	
wind speed	Calm	direct.	NA

CLIENT:	BP AME	RICA PR	OD. CO.			CHAIN-OF-C	CUSTODY#:	: <u>N/A</u>	
	. GC A # 1A EC. 35, T30N		PIT		L	.ABORATOR	Y(S) USED:	HALL ENVIRONMENTAL	
Date : Filename :	September 1	12, 2017	g 2017-09-12	.xls	Е		/ SAMPLER : MANAGER :	N.	
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	103.19	-	39.97	40.00	-	-	-	-	-
MW - 2	101.78	-	?	40.00	-	-	-	-	-
	DEPTH TO	PRODUCT (FT.)=	36.93	DEPT	H TO WATER (FT.)=	?	PRODUCT	THICKNESS (FT.) =	?
3	99.13	-	-	38.73	-	-	-	-	-
4	98.96	-	-	38.62	BRATIONS =	4.01/7.00/10.00	2,800	-	-
NOTES:	DATE & TIME = NA NA								
Comments	or note we	II diameter	if not standa	ard 2".					
Insufficient q	uantity within	MW#1. Una	able to confirm	depth to wa	ter below free	product.			
Top of casing	g MW #1 ~ 1.0	00 ft., MW #2	~ 2.75 ft. abov	e grade, MV	/ #3 ∼ @ grade	e, MW #4 ~ 0	.25 ft. below g	rade.	

CLIENT:	BP AME	RICA PR	OD. CO.			: <u>N/A</u>			
II	GC A # 1A EC. 35, T30N		PIT		LABORATORY (S) USED : HALL ENVIRONME				
Date : Filename :	,						/ SAMPLER : MANAGER :		
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	103.19	-	DRY	40.00	-	-	_	-	-
2	101.78	-	36.38 *	40.00	-	-	-	-	2.15 1
	DEPTH TO	O PRODUCT (FT.)=	35.64	DEPTH	TO WATER (FT.)=	37.74	PRODUCT	THICKNESS (FT.)=	2.10
3	99.13	-	DRY	38.73	-	-	-	-	-
4	98.96	-	32.81	38.62	-	-	-	-	-
NOTES :	NOTES: Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.) Ideally a minimum of three (3) wellbore volumes: 2.00" well diameter = 0.49 gal./ft. of water. Comments or note well diameter if not standard 2 ".								
Top of casin	g MW #1 ~ 1.0	00 ft., MW #2 ·	~ 2.75 ft. abov	re grade, MW	#3 ~ @ grade	e, MW #4 ~ 0	.25 ft. below g	rade.	

BLAGG ENGINEERING, INC.

CLIENT:	BP AME	RICA PR	OD. CO.		CHAIN-OF-CUSTODY#			: <u>N/A</u>	
	. GC A # 1A EC. 35, T30N		PIT		L	ABORATORY	Y(S) USED:	HALL ENVIR	RONMENTAL
UNIT C, SI	=C. 35, 130N	I, R9VV							
Date :	September 2	27, 2018				EVELOPER	/ SAMPLER :	N.	JV
Filename :	Sandoval GO	C A 1A mw lo	g 2018-09-27	.xls		PROJECT	MANAGER :	STEVE MOSKAL	
WELL	WELL		DEPTH TO		SAMPLING	рН	CONDUCT		VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
					ı		ı	ı	
1	103.19	-	DRY	40.00	-	-	-	-	-
MW - 2	101.78		?	40.00	-	- 40.00	-	-	. 0.00
	1	PRODUCT (FT.)=	36.77		TO WATER (FT.)=	>40.00	PRODUCT	THICKNESS (FT.) =	>3.23
3	99.13	- 04.05	DRY	38.73	-	-	-	-	-
4	98.96	61.25	37.71	38.62	-	-	-	<u> </u>	-
			INSTRU	JMENT CALII	E & TIME =	4.01/7.00/10.00 NA	2,800 NA		
				DAII	E & IIIVIE -	INA	INA	<u>J</u>	
NOTES:	Volume of	water purac	ed from well	prior to se	amplina: \/ -	ni Yr2 Yh	V 7 49 gal /	ft2) V 3 (wall	horos)
NOTES.			. h = 1 ft.)				7 7.40 yai./	IIO) X 3 (Well	<u>bores).</u>
	(1.6. 2 10100	1 - (1/12)10	. 11 – 1 11.)	(1.6. 4 10100	1 - (2/12) 11	. 11 – 1 11.)			
	ldeally a mir	nimum of thr	ee (3) wellbo	re volumes:		2 00" well d	iameter =	0.49 gal./ft.	of water
	racany a min	ilinain or un	oo (o) wonbo	no volunios.		2.00 Woll d	idiffotoi	0. 10 gai./1t.	or water.
Comments	or note wel	II diameter	if not standa	ard 2".					
Completed g	auging of MW	#2 only.							
	0 0	,							
Top of casing	g MW #1 ~ 1.0	00 ft., MW #2	~ 2.75 ft. abov	e grade, MW	#3 ~ @ grade	e, MW #4 ~ 0.	.25 ft. below g	jrade.	

on-site	8:25 AM	temp	57 F
off-site	9:25 AM	temp	59 F
sky cond.		Sunny	
wind speed	0 - 5	direct.	ESE - SE

CLIENT: BP AMERICA PROD. CO.

98.96

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

1	EC. 35, T30N		PII		L	Y (S) USED:	HALL ENVIRONMENTAL		
Date : March 28, 2019					D	EVELOPER	/ SAMPLER :	N.	J V
Filename :	ame : Sandoval GC A 1A mw log 2019-03-28			.xls		PROJECT	MANAGER :	STEVE N	MOSKAL
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
		-							
1	103.19	-	DRY	40.00	-	-	-	-	-
2	101.78	67.63	34.15	40.00	1000	7.01	1,700	15.8	2.00
3	99.13	-	DRY	38.73	-	-	-	-	-

INSTRUMENT CALIBRATIONS = 2,800 DATE & TIME = 03/26/19

Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). NOTES: (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00" well diameter = 0.49 gal./ft. of water.

CHAIN-OF-CUSTODY #: N / A

Comments or note well diameter if not standard 2 ".

Fair/poor recovery in MW #2. Purged well using new disposable bailer. Collected sample for BTEX per US EPA Method 8260B from MW #2 only. SVE operational prior to sampling, shut down during sampling, then re-started afterward.

Top of casing MW #1 \sim 1.00 ft., MW #2 \sim 2.75 ft. above grade, MW #3 \sim @ grade, MW #4 \sim 0.25 ft. below grade.

on-site	8:23 AM	temp	52 F
off-site	10:23 AM	temp	63 F
sky cond.		Sunny	
wind speed	0 - 5	direct.	E - SE

BLAGG ENGINEERING, INC.

CLIENT : BPX ENERGY INC.						CHAIN-OF-0	CUSTODY#:	N / A	
	_ GC A # 1A EC. 35, T30N		PIT		L	ABORATOR	Y(S) USED:	HALL ENVIF	RONMENTAL
Date :	June 24, 201				С		/ SAMPLER :		J V
Filename :	Sandoval GC A 1A mw log 2019-06-24.			.xls		PROJECT	MANAGER :	STEVE	MOSKAL
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME	-	(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)			, ,	,	(gal.)
	1		I ==v/ I						1
1	103.19	-	DRY	40.00	-		-	-	-
2	101.78	67.67	34.11	40.00	1350	7.12	1,350	19.5	2.75
3	99.13	-	DRY	38.73	-	-	-	-	-
4	98.96	-	- INICEDI	38.62	- DDATIONS	-	-	-	-
NOTES :	NOTES: Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).								
	Ideally a min	nimum of thr	ree (3) wellbo	re volumes	r = (2/12) ft :	2.00" well d	iameter =	0.49 gal./ft.	of water.
Fair/good re		#2. Purged v	vell using new	disposable b	pailer. Collect		•		1 8260B
from MW #2	only. SVE of	perational pric	or to sampling,	shut down d	luring samplinឲ	g, then re-star	ted afterward.		
Top of casin	g MW #1 ~ 1.0	00 ft., MW #2	~ 2.75 ft. abov	e grade, MV	√ #3 ~ @ grade	e, MW #4 ~ 0	.25 ft. below g	rade.	

on-site	12:45 PM	temp	77 F
off-site	2:00 PM	temp	80 F
sky cond.		Sunny	
wind speed	0 - 10	direct.	SW

BLAGG ENGINEERING, INC.

CLIENT : BPX ENERGY INC.						CHAIN-OF-CUSTODY # :			N / A	
SANDOVAL GC A #1A - COMPR. PIT UNIT C, SEC. 35, T30N, R9W					L	ABORATOR	(S) USED:	HALL ENVIF	RONMENTAL	
Date : Filename :	September 19, 2019 Sandoval GC A 1A mw log 2019-09-19.xls				D		/ SAMPLER : MANAGER :		J V MOSKAL	
WELL #	WELL ELEV.	WATER ELEV.	DEPTH TO WATER	TOTAL DEPTH	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED	
	(ft)	(ft)	(ft)	(ft)					(gal.)	
1	103.19	_	DRY	40.00	_		_	_	_	
2	101.78	67.47	34.31	40.00	1000	6.92	1,050	17.0	2.75	
3	99.13	-	DRY	38.73	-	-	-	-	-	
4	98.96	-	37.70	38.62	-	-	-	-	-	
NOTES: Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.) Ideally a minimum of three (3) wellbore volumes: 2.00" well diameter = 0.49 gal./ft. of water.										
Fair/good red	covery in MW	#2. Purged v		disposable b	pailer. Collecte		•		1 8260B	
from MW #2	only. SVE or	perational pric	or to sampling,	shut down o	luring purging/s	sampling, the	n re-started af	terward.		
Top of casing	n MW #1 ~ 1 (00 ft MW #2	~ 2.75 ft abov	ve grade MV	V #3 ~ @ grade	MW #4 ~ 0	25 ft below a	rade		

on-site	8:15 AM	temp	59 F
off-site	10:22 AM	temp	71 F
sky cond.		Partly cloudy	
wind speed	0 - 10	direct.	E - ESE

CLIENT : BPX ENERGY INC.						CHAIN-OF-C	CUSTODY#:	N / A	
	. GC A #1A EC. 35, T30N		PIT		L	ABORATOR	(S) USED:	HALL ENVIF	RONMENTAL
Date :	December 1	,			С		/ SAMPLER :		JV
Filename :	Sandoval Go	SA 1A mw Id	og 2019-12-10	.xis		PROJECT	MANAGER :	SIEVE	MOSKAL
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
P.	•		, ,		,				1
1	103.19	-	DRY	40.00	-	-	-	-	-
2	101.78	67.65	34.13	40.00	1210	7.17	1,200	14.7	3.00
3	99.13	-	DRY	38.73	-	-	-	-	-
4	98.96	-	- INICEDI	38.62	-	-	-	-	-
INSTRUMENT CALIBRATIONS = 4.01/7.00/10.00 2,800 DATE & TIME = 12/10/19 0700									
NOTES:	(i.e. 2" MW	r = (1/12) ft		prior to s (i.e. 4" MW	<u>ampling; V =</u> r = (2/12) ft	pi X r2 X h	X 7.48 gal./f	t <u>3) X 3 (well</u> 0.49 gal./ft.	
Fair/good red	covery in MW	#2. Purged w		disposable b	pailer. Collect		•		d 8260B
from IVIVV #2	only. SVE of	perational pric	or to sampling,	snut down d	uring purging/	sampling, the	n re-started at	terward.	
Top of casin	n MW #1 ~ 1.0	00 ft MW #2	~ 2.75 ft. abov	e grade MV	/ #3 ~ @ grade	e. MW #4 ~ 0	.25 ft. below g	rade.	

on-site	11:30 AM	temp	38 F
off-site	12:30 PM	temp	41 F
sky cond.		Mostly sunny	1
wind speed	0 - 5	direct.	W

CLIENT : BPX ENERGY INC.				CHAIN-OF-CUSTODY # :			N / A		
SANDOVAL GC A # 1A - COMPR. PIT UNIT C, SEC. 35, T30N, R9W					L	ABORATOR	Y(S) USED:	HALL ENVIF	RONMENTAL
Date :	March 30, 20)20			Г	EVELOPER	/ SAMPLER :	N -	J V
Filename :	Sandoval GC A 1A mw log 2020-03-30.xls					PROJECT	MANAGER :	S. MC	SKAL
١٨/٢١١	WELL	WATER	DEDTH TO	TOTAL	ICAMPI INC	ъЦ	CONDUCT	TEMP	VOLUME
WELL #	ELEV.	WATER ELEV.	DEPTH TO WATER	TOTAL DEPTH	SAMPLING TIME	pН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED
#	(ft)	(ft)	(ft)	(ft)	I IIVIL		(uninos)	(celcius)	(gal.)
	(11)	(11)	(11)	(11)					(gui.)
1	103.19	-	-	40.00	-	-	-	-	-
2	101.78	67.65	34.13	40.00	1130	7.14	1,500	14.4	3.00
3	99.13	-	-	38.73	-	-	-	-	-
4	98.96	-	-	38.62	-	-	-	-	-
NOTES:	NOTES: Volume of water purged from well prior to sampling: $V = pi \times r2 \times h \times 7.48 \text{ gal./ft3} \times 3 \text{ (wellbores)}$. (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.) Ideally a minimum of three (3) wellbore volumes: 2.00" well diameter = 0.49 gal./ft. of water.								
	or note we				ailer. Collect	ed sample for	BTEX per US	S EPA Method	i 8260B
from MW #2	only. SVE of	perational prio	r to sampling,	shut down d	uring purging/	sampling, the	n re-started af	terward.	
								•	
Top of casin	g MW #1 ~ 1.0	00 ft., MW #2	~ 2.75 ft. abov	∕e grade, MW	/ #3 ~ @ grad	e, MW #4 ~ 0	.25 ft. below g	rade.	

on-site	10:18 AM	temp	47 F
off-site	11:45 AM	temp	49 F
sky cond.		Mostly cloudy	У
wind speed	10 - 20	direct.	W - WNW

BLAGG ENGINEERING, INC.

CLIENT :	CLIENT : BPX ENERGY INC.			CHAIN-OF-CUSTODY#				:N/A	
	L GC A # 1A EC. 35, T30N		PIT		L	ABORATOR'	Y(S) USED:	HALL ENVIF	RONMENTAL
Date :	June 1, 2020				Г	EVELOPER	/ SAMPLER :		J V
Filename :	Sandoval G	C A 1A mw lo	g 2020-06-01	.xls		PROJECT	MANAGER :	S. MC	OSKAL
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME	'	(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)			,	,	(gal.)
		1			1		1		1
1	103.19	-	-	40.00	-	-	-	-	-
2	101.78	66.25	35.53	40.00	1210	6.98	1,300	17.9	1.50
3	99.13	-	-	38.73	-	-	-	-	-
4	98.96	-	-	38.62	-	-	-	-	-
	NOTES: Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.) Ideally a minimum of three (3) wellbore volumes: 2.00" well diameter = 0.49 gal./ft. of water.								
	covery in MW only. SVE o			•					d 8260B
IIOIII WWW #2	Only. SVE O	perational pric	i to sampling,	Shut down d	uring purging/	sampling, the	ii ie-staiteu ai	terwaru.	
Top of casin	ng MW #1 ~ 1.0	00 ft., MW #2	~ 2.75 ft. abov	∕e grade, MW	′ #3 ~ @ grade	e, MW #4 ~ 0	.25 ft. below g	rade.	

on-site	11:20 AM	temp	79 F
off-site	12:30 PM	temp	82 F
sky cond.		Cloudy	
wind speed	0 - 5	direct.	SW - W

COTTONWOOD CONSULTING LLC

CLIENT : SIMCOE LLC					CHAIN-OF-0	CUSTODY#:	N	/ A	
SANDOVAL GC A #1A - COMPR. PIT UNIT C, SEC. 35, T30N, R9W				L	ABORATOR'	Y(S) USED:	HALL ENVIF	RONMENTAL	
Date :	September '	14, 2020			D	EVELOPER	/ SAMPLER :	N	J V
Filename :			g 2020-09-14	.xls		PROJECT	MANAGER :	S. MC	SKAL
NA/ELI	1 \A/=1 1	LVALED	DEDTH TO	TOTAL	ICAMPI INO	11	CONDUCT	TEMP	L VOLLIME
WELL #	WELL ELEV.	WATER ELEV.	DEPTH TO WATER	DEPTH	SAMPLING TIME	pН	CONDUCT	TEMP.	VOLUME PURGED
#	(ft)	(ft)	(ft)	(ft)	I IIVIE		(umhos)	(celcius)	(gal.)
	(11)	(11)	(11)	(11)					(gai.)
1	103.19		DRY	40.00	-	-	-	-	-
2	101.78	64.82	36.96	40.00	1100	7.01	1,300	18.3	1.50
3	99.13		DRY	38.73	-	-	-	-	-
4	98.96	61.94	37.02	38.62	-	-	-	-	-
NOTES:	(i.e. 2" MW	r = (1/12) ft	. h = 1 ft.) ee (3) wellbo	prior to s (i.e. 4" MW re volumes	e & TIME = ampling: V = r = (2/12) ft		-	f <u>t3) X 3 (well</u> 0.49 gal./ft.	
	or note we						DTEV 110		L 0000D
					pailer. Collecte				8260B
ITOTTI IVIVV #2	Only. SVE O	perational pric	ir to sampling,	Shut down d	luring purging/s	sampling, the	n re-started ar	terwaru.	
Top of casin	g MW #1 ~ 1.0	00 ft., MW #2	~ 2.75 ft. abov	e grade, MW	√ #3 ~ @ grade	e, MW #4 ~ 0	.25 ft. below g	rade.	

on-site	10:15 AM	temp	74 F
off-site	11:25 AM	temp	78 F
sky cond.		Sunny	
wind speed	Calm	direct.	NA

COTTONWOOD CONSULTING LLC

CLIENT : SIMCOE LLC					CHAIN-OF-0	CUSTODY#:	N	/ A	
SANDOVAL GC A # 1A - COMPR. PIT UNIT C, SEC. 35, T30N, R9W					L	ABORATOR	Y(S) USED:	HALL ENVIF	RONMENTAL
Date :	December 1	5, 2020				EVELOPER	/ SAMPLER :	N	JV
Filename :	Sandoval GO	C A 1A mw lo	g 2020-12-15	.xls		PROJECT	MANAGER :	S. MC	SKAL
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	103.19	_	_	40.00	_	_	_	_	
2	103.19	65.93	35.85	40.00	1300	7.07	1,400	13.6	2.00
3	99.13	-	-	38.73	-	-	-	-	-
4	98.96	-	-	38.62	-	-	-	-	-
NOTES:	(i.e. 2" MW	r = (1/12) ft	ed from well . h = 1 ft.) ee (3) wellbo	DAT I prior to s (i.e. 4" MW ore volumes	BRATIONS = E & TIME = S ampling: V = F r = (2/12) ft :		-	(<u>t3) X 3 (well</u> 0.49 gal./ft.	
	or note we covery in MW				ailer Collect	ed sample for	· RTFX ner US	S EPA Method	1 8260B
									02000
from MW #2 only. SVE operational prior to sampling, shut down during purging/sampling, then re-started afterward. Top of casing MW #1 ~ 1.00 ft., MW #2 ~ 2.75 ft. above grade, MW #3 ~ @ grade, MW #4 ~ 0.25 ft. below grade.									
l op of casin	g MVV #1 ~ 1.0	υ π., MW #2	~ 2./5 ft. abov	∕e grade, MW	/ #3 ~ @ grade	e, MVV #4 ~ 0	.25 ft. below g	rade.	

on-site	11:55 AM	temp	33 F
off-site	1:15 PM	temp	34 F
sky cond.		Mostly sunny	/
wind speed	0 - 10	direct.	W

WATER/FLUID

LABORATORY

REPORTS

Hall Environmental Analysis Laboratory, Inc.

Date: 06-Sep-11

Analytical Report

CLIENT:

Blagg Engineering

Client Sample ID: MW #2

Lab Order:

1108C18

Collection Date: 8/30/2011 11:35:00 AM

Project:

Sandoval GC A #1A

Date Received: 8/31/2011

Lab ID:

1108C18-01

Matrix: AQUEOUS

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SI		Analyst: NSB			
Benzene	990	100	μg/L	100	9/1/2011 10:35:16 PM
Toluene	6700	100	μg/L	100	9/1/2011 10:35:16 PM
Ethylbenzene	710	100	μg/L	100	9/1/2011 10:35:16 PM
Xylenes, Total	10000	200	μg/L	100	9/1/2011 10:35:16 PM
Surr: 1,2-Dichloroethane-d4	89.5	70-130	%REC	100	9/1/2011 10:35:16 PM
Surr: 4-Bromofluorobenzene	131	73-131	%REC	100	9/1/2011 10:35:16 PM
Surr: Dibromofluoromethane	87.9	70-130	%REC	100	9/1/2011 10:35:16 PM
Surr: Toluene-d8	97.5	70-130	%REC	100	9/1/2011 10:35:16 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: 15-Dec-11

Analytical Report

CLIENT: Lab Order: Blagg Engineering

1112525

Client Sample ID: MW#1

Collection Date: 12/9/2011 2:30:00 PM

Sandoval GC A #1A

Date Received: 12/12/2011

Project: Matrix: AQUEOUS Lab ID: 1112525-01

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	280	20		μg/L	20	12/14/2011 10:46:48 AM
Toluene	1000	20		μg/L	20	12/14/2011 10:46:48 AM
Ethylbenzene	50	20		μg/L	20	12/14/2011 10:46:48 AM
Xylenes, Total	540	40		μg/L	20	12/14/2011 10:46:48 AM
Surr: 4-Bromofluorobenzene	99.8	76.5-115		%REC	20	12/14/2011 10:46:48 AM

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Date: 15-Dec-11

Analytical Report

CLIENT:

Blagg Engineering

Client Sample ID: MW#2

Lab Order:

1112525

Collection Date: 12/9/2011 3:30:00 PM

Project:

Sandoval GC A #1A

Date Received: 12/12/2011

Lab ID:

1112525-02

Matrix: AQUEOUS

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	1900	100	μg/L	100	12/13/2011 3:12:00 PM
Toluene	8600	100	μg/L	100	12/13/2011 3:12:00 PM
Ethylbenzene	930	100	μg/L	100	12/13/2011 3:12:00 PM
Xylenes, Total	13000	200	μg/L	100	12/13/2011 3:12:00 PM
Surr: 4-Bromofluorobenzene	104	76.5-115	%REC	100	12/13/2011 3:12:00 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 2

Date Reported: 2/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #1

 Project:
 SANDOVAL GC A #A
 Collection Date: 2/9/2012 1:00:00 PM

 Lab ID:
 1202366-001
 Matrix: AQUEOUS
 Received Date: 2/10/2012 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	210	5.0	μg/L	5	2/13/2012 1:33:13 PM
Toluene	ND	5.0	μg/L	5	2/13/2012 1:33:13 PM
Ethylbenzene	9.3	5.0	μg/L	5	2/13/2012 1:33:13 PM
Xylenes, Total	230	10	μg/L	5	2/13/2012 1:33:13 PM
Surr: 4-Bromofluorobenzene	94.8	76.5-115	%REC	5	2/13/2012 1:33:13 PM

Qualifiers: */X

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 2/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #2

 Project:
 SANDOVAL GC A #A
 Collection Date: 2/9/2012 1:45:00 PM

 Lab ID:
 1202366-002
 Matrix: AQUEOUS
 Received Date: 2/10/2012 10:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	1,900	100	μg/L	100	2/11/2012 2:25:08 AM
Toluene	7,500	100	μg/L	100	2/11/2012 2:25:08 AM
Ethylbenzene	800	100	μg/L	100	2/11/2012 2:25:08 AM
Xylenes, Total	12,000	200	μg/L	100	2/11/2012 2:25:08 AM
Surr: 4-Bromofluorobenzene	101	76.5-115	%REC	100	2/11/2012 2:25:08 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 2 of 3

Analytical Report

Lab Order: 1206B08

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/30/2012

CLIENT: Blagg Engineering Lab Order: 1206B08

Project: Sandoval GC A #1A

Lab ID: 1206B08-001 **Collection Date:** 6/21/2012 2:00:00 PM

Client Sample ID: MW #1 Matrix: AQUEOUS

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	μg/L	1	6/28/2012 4:15:58 PM
Toluene	ND	1.0	μg/L	1	6/28/2012 4:15:58 PM
Ethylbenzene	ND	1.0	μg/L	1	6/28/2012 4:15:58 PM
Xylenes, Total	3.3	2.0	μg/L	1	6/28/2012 4:15:58 PM
Surr: 4-Bromofluorobenzene	103	55-140	%REC	1	6/28/2012 4:15:58 PM

Lab ID: 1206B08-002 **Collection Date:** 6/21/2012 3:05:00 PM

Client Sample ID: MW #2 Matrix: AQUEOUS

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	2600	100	μg/L	100	6/28/2012 2:59:08 AM
Toluene	10000	200	μg/L	200	6/28/2012 4:46:14 PM
Ethylbenzene	700	100	μg/L	100	6/28/2012 2:59:08 AM
Xylenes, Total	18000	200	μg/L	100	6/28/2012 2:59:08 AM
Surr: 4-Bromofluorobenzene	107	55-140	%REC	100	6/28/2012 2:59:08 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

U Samples with CalcVal < MDL

Analytical Report Lab Order 1209D07

Date Reported: 10/5/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #1

Project: SANDOVAL GC A #1A **Collection Date:** 9/20/2012 12:20:00 PM 1209D07-001 Matrix: AQUEOUS Lab ID: Received Date: 9/25/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	55	1.0	μg/L	1	10/1/2012 3:21:48 PM
Toluene	ND	1.0	μg/L	1	10/1/2012 3:21:48 PM
Ethylbenzene	ND	1.0	μg/L	1	10/1/2012 3:21:48 PM
Xylenes, Total	ND	2.0	μg/L	1	10/1/2012 3:21:48 PM
Surr: 4-Bromofluorobenzene	77 9	69 7-152	%RFC	1	10/1/2012 3:21:48 PM

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 1 of 4

Analytical Report Lab Order 1209D07

Date Reported: 10/5/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #2

Project: SANDOVAL GC A #1A **Collection Date:** 9/20/2012 1:20:00 PM 1209D07-002 Matrix: AQUEOUS Lab ID: Received Date: 9/25/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	2200	200	μg/L	200	10/1/2012 3:52:00 PM
Toluene	9900	200	μg/L	200	10/1/2012 3:52:00 PM
Ethylbenzene	970	200	μg/L	200	10/1/2012 3:52:00 PM
Xylenes, Total	47000	400	μg/L	200	10/1/2012 3:52:00 PM
Surr: 4-Bromofluorobenzene	97.4	69.7-152	%REC	200	10/1/2012 3:52:00 PM

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 2 of 4

Date Reported: 12/28/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW#1

Project: Sandoval GC A #1A Collection Date: 12/20/2012 1:45:00 PM

Lab ID: 1212986-001 **Matrix:** AQUEOUS **Received Date:** 12/21/2012 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	22	1.0	μg/L	1	12/26/2012 1:06:52 PM
Toluene	ND	1.0	μg/L	1	12/26/2012 1:06:52 PM
Ethylbenzene	ND	1.0	μg/L	1	12/26/2012 1:06:52 PM
Xylenes, Total	ND	2.0	μg/L	1	12/26/2012 1:06:52 PM
Surr: 4-Bromofluorobenzene	122	69.7-152	%REC	1	12/26/2012 1:06:52 PM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits 1 of 3

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 1212986

Date Reported: 12/28/2012

12/26/2012 1:36:51 PM

12/26/2012 1:36:51 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW#2

18000

133

 Project:
 Sandoval GC A #1A
 Collection Date: 12/20/2012 2:20:00 PM

 Lab ID:
 1212986-002
 Matrix: AQUEOUS
 Received Date: 12/21/2012 9:55:00 AM

Analyses Result **RL Qual Units** DF **Date Analyzed EPA METHOD 8021B: VOLATILES** Analyst: NSB 2800 200 Benzene μg/L 200 12/26/2012 1:36:51 PM Toluene 200 μg/L 7600 200 12/26/2012 1:36:51 PM Ethylbenzene 640 200 μg/L 200 12/26/2012 1:36:51 PM

400

69.7-152

μg/L

%REC

200

200

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits 2 of 3

Analytical Report

Lab Order 1303817

Date Reported: 3/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW#1

 Project:
 Sandoval GC A #1A
 Collection Date: 3/19/2013 10:25:00 AM

 Lab ID:
 1303817-001
 Matrix: AQUEOUS
 Received Date: 3/20/2013 9:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	1.4	1.0	μg/L	1	3/23/2013 1:17:47 AM
Toluene	4.3	1.0	μg/L	1	3/23/2013 1:17:47 AM
Ethylbenzene	ND	1.0	μg/L	1	3/23/2013 1:17:47 AM
Xylenes, Total	41	2.0	μg/L	1	3/23/2013 1:17:47 AM
Surr: 4-Bromofluorobenzene	96.5	69.4-129	%REC	1	3/23/2013 1:17:47 AM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits 1 of 2

Date Reported: 7/2/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #1

 Project:
 Sandoval GC A #1A
 Collection Date: 6/19/2013 9:00:00 AM

 Lab ID:
 1306874-001
 Matrix: AQUEOUS
 Received Date: 6/20/2013 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	1.0		μg/L	1	6/21/2013 8:37:32 PM	R11503
Toluene	ND	1.0		μg/L	1	6/21/2013 8:37:32 PM	R11503
Ethylbenzene	ND	1.0		μg/L	1	6/21/2013 8:37:32 PM	R11503
Xylenes, Total	ND	2.0		μg/L	1	6/21/2013 8:37:32 PM	R11503
Surr: 4-Bromofluorobenzene	106	69.4-129		%REC	1	6/21/2013 8:37:32 PM	R11503
EPA METHOD 300.0: ANIONS						Analyst	JRR
Fluoride	0.15	0.10		mg/L	1	6/20/2013 9:19:00 PM	R11471
Chloride	91	10		mg/L	20	6/20/2013 9:31:24 PM	R11471
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	6/20/2013 9:19:00 PM	R11471
Sulfate	2200	50		mg/L	100	6/26/2013 11:21:07 PM	R11597
EPA METHOD 200.7: DISSOLVED M	METALS					Analyst	ELS
Iron	2.3	0.10	*	mg/L	5	6/27/2013 9:53:21 AM	R11609
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS					Analyst	KS
Total Dissolved Solids	3880	200	*	mg/L	1	6/24/2013 6:36:00 PM	8063

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Date Reported: 4/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #2

 Project:
 Sandoval GC A #1A
 Collection Date: 3/28/2019 10:00:00 AM

 Lab ID:
 1904020-001
 Matrix: AQUEOUS
 Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analys	t: DJF
Benzene	1400	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Toluene	230	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Ethylbenzene	1500	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Methyl tert-butyl ether (MTBE)	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,2,4-Trimethylbenzene	3900	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,3,5-Trimethylbenzene	2900	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,2-Dichloroethane (EDC)	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,2-Dibromoethane (EDB)	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Naphthalene	210	200	μg/L	100 4/6/2019 9:46:58 AM	C58957
1-Methylnaphthalene	ND	400	μg/L	100 4/6/2019 9:46:58 AM	C58957
2-Methylnaphthalene	ND	400	μg/L	100 4/6/2019 9:46:58 AM	C58957
Acetone	ND	1000	μg/L	100 4/6/2019 9:46:58 AM	C58957
Bromobenzene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Bromodichloromethane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Bromoform	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Bromomethane	ND	300	μg/L	100 4/6/2019 9:46:58 AM	C58957
2-Butanone	ND	1000	μg/L	100 4/6/2019 9:46:58 AM	C58957
Carbon disulfide	ND	1000	μg/L	100 4/6/2019 9:46:58 AM	C58957
Carbon Tetrachloride	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Chlorobenzene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Chloroethane	ND	200	μg/L	100 4/6/2019 9:46:58 AM	C58957
Chloroform	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Chloromethane	ND	300	μg/L	100 4/6/2019 9:46:58 AM	C58957
2-Chlorotoluene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
4-Chlorotoluene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
cis-1,2-DCE	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
cis-1,3-Dichloropropene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,2-Dibromo-3-chloropropane	ND	200	μg/L	100 4/6/2019 9:46:58 AM	C58957
Dibromochloromethane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Dibromomethane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,2-Dichlorobenzene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,3-Dichlorobenzene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,4-Dichlorobenzene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Dichlorodifluoromethane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,1-Dichloroethane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,1-Dichloroethene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,2-Dichloropropane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,3-Dichloropropane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
2,2-Dichloropropane	ND	200	μg/L	100 4/6/2019 9:46:58 AM	C58957

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

Date Reported: 4/9/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #2

 Project:
 Sandoval GC A #1A
 Collection Date: 3/28/2019 10:00:00 AM

 Lab ID:
 1904020-001
 Matrix: AQUEOUS
 Received Date: 3/30/2019 9:20:00 AM

Analyses	Result	RL	Qual Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	:: DJF
1,1-Dichloropropene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Hexachlorobutadiene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
2-Hexanone	ND	1000	μg/L	100 4/6/2019 9:46:58 AM	C58957
Isopropylbenzene	290	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
4-Isopropyltoluene	160	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
4-Methyl-2-pentanone	ND	1000	μg/L	100 4/6/2019 9:46:58 AM	C58957
Methylene Chloride	ND	300	μg/L	100 4/6/2019 9:46:58 AM	C58957
n-Butylbenzene	ND	300	μg/L	100 4/6/2019 9:46:58 AM	C58957
n-Propylbenzene	370	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
sec-Butylbenzene	110	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Styrene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
tert-Butylbenzene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,1,1,2-Tetrachloroethane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,1,2,2-Tetrachloroethane	ND	200	μg/L	100 4/6/2019 9:46:58 AM	C58957
Tetrachloroethene (PCE)	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
trans-1,2-DCE	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
trans-1,3-Dichloropropene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,2,3-Trichlorobenzene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,2,4-Trichlorobenzene	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,1,1-Trichloroethane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,1,2-Trichloroethane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Trichloroethene (TCE)	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Trichlorofluoromethane	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
1,2,3-Trichloropropane	ND	200	μg/L	100 4/6/2019 9:46:58 AM	C58957
Vinyl chloride	ND	100	μg/L	100 4/6/2019 9:46:58 AM	C58957
Xylenes, Total	23000	1500	μg/L	1E+ 4/8/2019 12:36:03 PM	A58989
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	100 4/6/2019 9:46:58 AM	C58957
Surr: 4-Bromofluorobenzene	115	70-130	%Rec	100 4/6/2019 9:46:58 AM	C58957
Surr: Dibromofluoromethane	119	70-130	%Rec	100 4/6/2019 9:46:58 AM	C58957
Surr: Toluene-d8	104	70-130	%Rec	100 4/6/2019 9:46:58 AM	C58957

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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Analytical ReportLab Order **1906D58**

Date Reported: 7/3/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW#2

 Project:
 Sandoval GC A 1A
 Collection Date: 6/24/2019 1:50:00 PM

 Lab ID:
 1906D58-001
 Matrix: AQUEOUS
 Received Date: 6/25/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	: RAA
Benzene	920	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Toluene	200	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Ethylbenzene	1000	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Methyl tert-butyl ether (MTBE)	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,2,4-Trimethylbenzene	1700	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,3,5-Trimethylbenzene	1200	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,2-Dichloroethane (EDC)	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,2-Dibromoethane (EDB)	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Naphthalene	ND	200	μg/L	100 6/28/2019 9:47:00 PM	R61035
1-Methylnaphthalene	ND	400	μg/L	100 6/28/2019 9:47:00 PM	R61035
2-Methylnaphthalene	ND	400	μg/L	100 6/28/2019 9:47:00 PM	R61035
Acetone	ND	1000	μg/L	100 6/28/2019 9:47:00 PM	R61035
Bromobenzene	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Bromodichloromethane	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Bromoform	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Bromomethane	ND	300	μg/L	100 6/28/2019 9:47:00 PM	R61035
2-Butanone	ND	1000	μg/L	100 6/28/2019 9:47:00 PM	R61035
Carbon disulfide	ND	1000	μg/L	100 6/28/2019 9:47:00 PM	R61035
Carbon Tetrachloride	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Chlorobenzene	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Chloroethane	ND	200	μg/L	100 6/28/2019 9:47:00 PM	R61035
Chloroform	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Chloromethane	ND	300	μg/L	100 6/28/2019 9:47:00 PM	R61035
2-Chlorotoluene	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
4-Chlorotoluene	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
cis-1,2-DCE	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
cis-1,3-Dichloropropene	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,2-Dibromo-3-chloropropane	ND	200	μg/L	100 6/28/2019 9:47:00 PM	R61035
Dibromochloromethane	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Dibromomethane	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,2-Dichlorobenzene	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,3-Dichlorobenzene	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,4-Dichlorobenzene	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
Dichlorodifluoromethane	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,1-Dichloroethane	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,1-Dichloroethene	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,2-Dichloropropane	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
1,3-Dichloropropane	ND	100	μg/L	100 6/28/2019 9:47:00 PM	R61035
2,2-Dichloropropane	ND	200	μg/L	100 6/28/2019 9:47:00 PM	R61035

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Analytical ReportLab Order **1906D58**

Date Reported: 7/3/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW#2

 Project:
 Sandoval GC A 1A
 Collection Date: 6/24/2019 1:50:00 PM

 Lab ID:
 1906D58-001
 Matrix: AQUEOUS
 Received Date: 6/25/2019 8:15:00 AM

Result **RL Oual Units DF** Date Analyzed Analyses **Batch EPA METHOD 8260B: VOLATILES** Analyst: RAA 100 6/28/2019 9:47:00 PM ND R61035 1.1-Dichloropropene 100 μg/L Hexachlorobutadiene ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 ND 1000 100 6/28/2019 9:47:00 PM 2-Hexanone μg/L R61035 100 6/28/2019 9:47:00 PM Isopropylbenzene 150 100 μg/L R61035 4-Isopropyltoluene ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 4-Methyl-2-pentanone ND 1000 μg/L 100 6/28/2019 9:47:00 PM R61035 Methylene Chloride ND 300 μg/L 100 6/28/2019 9:47:00 PM R61035 n-Butylbenzene ND 300 μg/L 100 6/28/2019 9:47:00 PM R61035 n-Propylbenzene 160 100 μg/L 100 6/28/2019 9:47:00 PM R61035 sec-Butylbenzene ND 100 100 6/28/2019 9:47:00 PM R61035 μg/L Styrene ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 tert-Butylbenzene ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 1,1,1,2-Tetrachloroethane ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 1,1,2,2-Tetrachloroethane ND 200 100 6/28/2019 9:47:00 PM μg/L R61035 Tetrachloroethene (PCE) 100 6/28/2019 9:47:00 PM ND 100 μg/L R61035 trans-1,2-DCE ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 trans-1,3-Dichloropropene ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 1,2,3-Trichlorobenzene ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 1.2.4-Trichlorobenzene ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 1,1,1-Trichloroethane ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 ND 1,1,2-Trichloroethane 100 μg/L 100 6/28/2019 9:47:00 PM R61035 Trichloroethene (TCE) ND 100 6/28/2019 9:47:00 PM R61035 100 μg/L Trichlorofluoromethane ND 100 μg/L 100 6/28/2019 9:47:00 PM R61035 1,2,3-Trichloropropane ND 100 6/28/2019 9:47:00 PM 200 μg/L R61035 ND Vinyl chloride 100 μg/L 100 6/28/2019 9:47:00 PM R61035 Xylenes, Total 21000 150 μg/L 100 6/28/2019 9:47:00 PM R61035 Surr: 1,2-Dichloroethane-d4 92.2 70-130 %Rec 100 6/28/2019 9:47:00 PM R61035 Surr: 4-Bromofluorobenzene 97.2 70-130 %Rec 100 6/28/2019 9:47:00 PM R61035 Surr: Dibromofluoromethane 92.7 70-130 %Rec 100 6/28/2019 9:47:00 PM R61035 Surr: Toluene-d8 104 70-130 %Rec 100 6/28/2019 9:47:00 PM R61035

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 1909B00

Date Reported: 9/26/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #2

 Project:
 Sandoval GC A 1A
 Collection Date: 9/19/2019 10:00:00 AM

 Lab ID:
 1909B00-001
 Matrix: AQUEOUS
 Received Date: 9/20/2019 8:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Analyses Batch EPA METHOD 8260B: VOLATILES** Analyst: JMR Benzene 920 100 μg/L 100 9/23/2019 6:05:10 PM R63131 Toluene ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 Ethylbenzene 840 100 μg/L 100 9/23/2019 6:05:10 PM R63131 Methyl tert-butyl ether (MTBE) ND 100 100 9/23/2019 6:05:10 PM μg/L R63131 1,2,4-Trimethylbenzene 1200 100 μg/L 100 9/23/2019 6:05:10 PM R63131 1,3,5-Trimethylbenzene 840 100 100 9/23/2019 6:05:10 PM R63131 μg/L 1,2-Dichloroethane (EDC) ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 1,2-Dibromoethane (EDB) 100 9/23/2019 6:05:10 PM ND 100 μg/L R63131 200 100 9/23/2019 6:05:10 PM Naphthalene ND μg/L R63131 ND 1-Methylnaphthalene 400 μg/L 100 9/23/2019 6:05:10 PM R63131 2-Methylnaphthalene ND 400 μg/L 100 9/23/2019 6:05:10 PM R63131 Acetone ND 1000 μg/L 100 9/23/2019 6:05:10 PM R63131 Bromobenzene ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 Bromodichloromethane ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 ND 100 100 9/23/2019 6:05:10 PM Bromoform μg/L R63131 Bromomethane ND 300 μg/L 100 9/23/2019 6:05:10 PM R63131 ND 1000 100 9/23/2019 6:05:10 PM 2-Butanone μg/L R63131 Carbon disulfide ND 1000 μg/L 100 9/23/2019 6:05:10 PM R63131 Carbon Tetrachloride ND 100 9/23/2019 6:05:10 PM R63131 100 μg/L Chlorobenzene ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 ND Chloroethane 200 μg/L 100 9/23/2019 6:05:10 PM R63131 Chloroform ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 Chloromethane ND 300 μg/L 100 9/23/2019 6:05:10 PM R63131 2-Chlorotoluene ND 100 100 9/23/2019 6:05:10 PM μg/L R63131 4-Chlorotoluene ND 100 µg/L 100 9/23/2019 6:05:10 PM R63131 cis-1,2-DCE ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 ND 100 9/23/2019 6:05:10 PM R63131 cis-1,3-Dichloropropene 100 μg/L ND 1,2-Dibromo-3-chloropropane 200 μg/L 100 9/23/2019 6:05:10 PM R63131 Dibromochloromethane ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 Dibromomethane ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 1,2-Dichlorobenzene ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 ND 1,3-Dichlorobenzene 100 μg/L 100 9/23/2019 6:05:10 PM R63131 1,4-Dichlorobenzene ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 Dichlorodifluoromethane ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 100 9/23/2019 6:05:10 PM 1.1-Dichloroethane ND 100 μg/L R63131 1,1-Dichloroethene ND 100 μg/L 100 9/23/2019 6:05:10 PM R63131 ND 100 100 9/23/2019 6:05:10 PM 1,2-Dichloropropane μg/L R63131 1,3-Dichloropropane ND 100 100 9/23/2019 6:05:10 PM R63131 μg/L ND 2,2-Dichloropropane 200 μg/L 100 9/23/2019 6:05:10 PM R63131

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Analytical ReportLab Order **1909B00**

Date Reported: 9/26/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #2

 Project:
 Sandoval GC A 1A
 Collection Date: 9/19/2019 10:00:00 AM

 Lab ID:
 1909B00-001
 Matrix: AQUEOUS
 Received Date: 9/20/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	JMR
1,1-Dichloropropene	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
Hexachlorobutadiene	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
2-Hexanone	ND	1000	μg/L	100 9/23/2019 6:05:10 PM	R63131
Isopropylbenzene	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
4-Isopropyltoluene	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
4-Methyl-2-pentanone	ND	1000	μg/L	100 9/23/2019 6:05:10 PM	R63131
Methylene Chloride	ND	300	μg/L	100 9/23/2019 6:05:10 PM	R63131
n-Butylbenzene	ND	300	μg/L	100 9/23/2019 6:05:10 PM	R63131
n-Propylbenzene	100	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
sec-Butylbenzene	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
Styrene	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
tert-Butylbenzene	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
1,1,1,2-Tetrachloroethane	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
1,1,2,2-Tetrachloroethane	ND	200	μg/L	100 9/23/2019 6:05:10 PM	R63131
Tetrachloroethene (PCE)	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
trans-1,2-DCE	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
trans-1,3-Dichloropropene	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
1,2,3-Trichlorobenzene	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
1,2,4-Trichlorobenzene	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
1,1,1-Trichloroethane	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
1,1,2-Trichloroethane	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
Trichloroethene (TCE)	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
Trichlorofluoromethane	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
1,2,3-Trichloropropane	ND	200	μg/L	100 9/23/2019 6:05:10 PM	R63131
Vinyl chloride	ND	100	μg/L	100 9/23/2019 6:05:10 PM	R63131
Xylenes, Total	17000	150	μg/L	100 9/23/2019 6:05:10 PM	R63131
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	100 9/23/2019 6:05:10 PM	R63131
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	100 9/23/2019 6:05:10 PM	R63131
Surr: Dibromofluoromethane	110	70-130	%Rec	100 9/23/2019 6:05:10 PM	R63131
Surr: Toluene-d8	102	70-130	%Rec	100 9/23/2019 6:05:10 PM	R63131

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 5

Date Reported: 12/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW 2

Project: Sandoval GC A 1A Collection Date: 12/10/2019 12:10:00 PM

Lab ID: 1912620-001 **Matrix:** AQUEOUS **Received Date:** 12/12/2019 8:45:00 AM

Analyses	Result	RL	Qual Units	DF Date Analyzed Batch
EPA METHOD 8260B: VOLATILES				Analyst: JMR
Benzene	800	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Toluene	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Ethylbenzene	780	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Methyl tert-butyl ether (MTBE)	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,2,4-Trimethylbenzene	1000	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,3,5-Trimethylbenzene	750	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,2-Dichloroethane (EDC)	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,2-Dibromoethane (EDB)	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Naphthalene	ND	200	μg/L	100 12/17/2019 2:01:42 AM R65220
1-Methylnaphthalene	ND	400	μg/L	100 12/17/2019 2:01:42 AM R65220
2-Methylnaphthalene	ND	400	μg/L	100 12/17/2019 2:01:42 AM R65220
Acetone	ND	1000	μg/L	100 12/17/2019 2:01:42 AM R65220
Bromobenzene	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Bromodichloromethane	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Bromoform	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Bromomethane	ND	300	μg/L	100 12/17/2019 2:01:42 AM R65220
2-Butanone	ND	1000	μg/L	100 12/17/2019 2:01:42 AM R65220
Carbon disulfide	ND	1000	μg/L	100 12/17/2019 2:01:42 AM R65220
Carbon Tetrachloride	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Chlorobenzene	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Chloroethane	ND	200	μg/L	100 12/17/2019 2:01:42 AM R65220
Chloroform	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Chloromethane	ND	300	μg/L	100 12/17/2019 2:01:42 AM R65220
2-Chlorotoluene	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
4-Chlorotoluene	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
cis-1,2-DCE	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
cis-1,3-Dichloropropene	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,2-Dibromo-3-chloropropane	ND	200	μg/L	100 12/17/2019 2:01:42 AM R65220
Dibromochloromethane	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Dibromomethane	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,2-Dichlorobenzene	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,3-Dichlorobenzene	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,4-Dichlorobenzene	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
Dichlorodifluoromethane	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,1-Dichloroethane	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,1-Dichloroethene	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,2-Dichloropropane	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
1,3-Dichloropropane	ND	100	μg/L	100 12/17/2019 2:01:42 AM R65220
2,2-Dichloropropane	ND	200	μg/L	100 12/17/2019 2:01:42 AM R65220

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Analytical Report Lab Order 1912620

Date Reported: 12/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW 2

 Project:
 Sandoval GC A 1A
 Collection Date: 12/10/2019 12:10:00 PM

 Lab ID:
 1912620-001
 Matrix: AQUEOUS
 Received Date: 12/12/2019 8:45:00 AM

Result **RL Oual Units DF** Date Analyzed **Analyses Batch EPA METHOD 8260B: VOLATILES** Analyst: JMR ND 100 12/17/2019 2:01:42 AM R65220 1.1-Dichloropropene 100 μg/L Hexachlorobutadiene ND 100 µg/L 100 12/17/2019 2:01:42 AM R65220 ND 1000 100 12/17/2019 2:01:42 AM R65220 2-Hexanone μg/L 100 12/17/2019 2:01:42 AM R65220 Isopropylbenzene 69 50 μg/L 4-Isopropyltoluene ND 100 100 12/17/2019 2:01:42 AM R65220 μg/L 4-Methyl-2-pentanone ND 1000 μg/L 100 12/17/2019 2:01:42 AM R65220 Methylene Chloride ND 300 μg/L 100 12/17/2019 2:01:42 AM R65220 n-Butylbenzene ND 300 μg/L 100 12/17/2019 2:01:42 AM R65220 n-Propylbenzene 78 50 μg/L 100 12/17/2019 2:01:42 AM R65220 sec-Butylbenzene ND 100 100 12/17/2019 2:01:42 AM R65220 μg/L Styrene ND 100 μg/L 100 12/17/2019 2:01:42 AM R65220 tert-Butylbenzene ND 100 μg/L 100 12/17/2019 2:01:42 AM R65220 1,1,1,2-Tetrachloroethane ND 100 100 12/17/2019 2:01:42 AM R65220 μg/L 1,1,2,2-Tetrachloroethane NΠ 200 100 12/17/2019 2:01:42 AM R65220 μg/L 100 12/17/2019 2:01:42 AM Tetrachloroethene (PCE) ND 100 μg/L trans-1,2-DCE ND 100 μg/L 100 12/17/2019 2:01:42 AM R65220 trans-1,3-Dichloropropene ND 100 μg/L 100 12/17/2019 2:01:42 AM R65220 1,2,3-Trichlorobenzene ND 100 μg/L 100 12/17/2019 2:01:42 AM R65220 1.2.4-Trichlorobenzene ND 100 12/17/2019 2:01:42 AM R65220 100 µg/L 1,1,1-Trichloroethane ND 100 μg/L 100 12/17/2019 2:01:42 AM R65220 ND 1,1,2-Trichloroethane 100 μg/L 100 12/17/2019 2:01:42 AM R65220 Trichloroethene (TCE) ND 100 12/17/2019 2:01:42 AM 100 μg/L Trichlorofluoromethane ND 100 12/17/2019 2:01:42 AM R65220 100 μg/L 1,2,3-Trichloropropane 100 12/17/2019 2:01:42 AM R65220 ND 200 µg/L ND Vinyl chloride 100 μg/L 100 12/17/2019 2:01:42 AM R65220 Xylenes, Total 16000 150 μg/L 100 12/17/2019 2:01:42 AM R65220 Surr: 1,2-Dichloroethane-d4 109 70-130 %Rec 100 12/17/2019 2:01:42 AM R65220 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 100 12/17/2019 2:01:42 AM R65220 Surr: Dibromofluoromethane 112 70-130 %Rec 100 12/17/2019 2:01:42 AM R65220 Surr: Toluene-d8 109 70-130 %Rec 100 12/17/2019 2:01:42 AM R65220

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Analytical Report

Lab Order 2004027

Date Reported: 4/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #2

 Project:
 Sandoval GC A 1A
 Collection Date: 3/30/2020 11:30:00 AM

 Lab ID:
 2004027-001
 Matrix: AQUEOUS
 Received Date: 4/1/2020 8:05:00 AM

Analyses	Result	RL	Qual Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analys	t: RAA
Benzene	570	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Toluene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Ethylbenzene	850	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Methyl tert-butyl ether (MTBE)	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,2,4-Trimethylbenzene	1400	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,3,5-Trimethylbenzene	890	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,2-Dichloroethane (EDC)	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,2-Dibromoethane (EDB)	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Naphthalene	ND	200	μg/L	100 4/6/2020 6:14:00 PM	R67944
1-Methylnaphthalene	ND	400	μg/L	100 4/6/2020 6:14:00 PM	R67944
2-Methylnaphthalene	ND	400	μg/L	100 4/6/2020 6:14:00 PM	R67944
Acetone	ND	1000	μg/L	100 4/6/2020 6:14:00 PM	R67944
Bromobenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Bromodichloromethane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Bromoform	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Bromomethane	ND	300	μg/L	100 4/6/2020 6:14:00 PM	R67944
2-Butanone	ND	1000	μg/L	100 4/6/2020 6:14:00 PM	R67944
Carbon disulfide	ND	1000	μg/L	100 4/6/2020 6:14:00 PM	R67944
Carbon Tetrachloride	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Chlorobenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Chloroethane	ND	200	μg/L	100 4/6/2020 6:14:00 PM	R67944
Chloroform	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Chloromethane	ND	300	μg/L	100 4/6/2020 6:14:00 PM	R67944
2-Chlorotoluene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
4-Chlorotoluene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
cis-1,2-DCE	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
cis-1,3-Dichloropropene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,2-Dibromo-3-chloropropane	ND	200	μg/L	100 4/6/2020 6:14:00 PM	R67944
Dibromochloromethane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Dibromomethane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,2-Dichlorobenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,3-Dichlorobenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,4-Dichlorobenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Dichlorodifluoromethane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,1-Dichloroethane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,1-Dichloroethene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,2-Dichloropropane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,3-Dichloropropane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
2,2-Dichloropropane	ND	200	μg/L	100 4/6/2020 6:14:00 PM	R67944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 5

Analytical Report

Lab Order **2004027**

Date Reported: 4/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #2

 Project:
 Sandoval GC A 1A
 Collection Date: 3/30/2020 11:30:00 AM

 Lab ID:
 2004027-001
 Matrix: AQUEOUS
 Received Date: 4/1/2020 8:05:00 AM

Analyses	Result	RL	Qual Units	DF Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES				Analyst	: RAA
1,1-Dichloropropene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Hexachlorobutadiene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
2-Hexanone	ND	1000	μg/L	100 4/6/2020 6:14:00 PM	R67944
Isopropylbenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
4-Isopropyltoluene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
4-Methyl-2-pentanone	ND	1000	μg/L	100 4/6/2020 6:14:00 PM	R67944
Methylene Chloride	ND	300	μg/L	100 4/6/2020 6:14:00 PM	R67944
n-Butylbenzene	ND	300	μg/L	100 4/6/2020 6:14:00 PM	R67944
n-Propylbenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
sec-Butylbenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Styrene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
tert-Butylbenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,1,1,2-Tetrachloroethane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,1,2,2-Tetrachloroethane	ND	200	μg/L	100 4/6/2020 6:14:00 PM	R67944
Tetrachloroethene (PCE)	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
trans-1,2-DCE	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
trans-1,3-Dichloropropene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,2,3-Trichlorobenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,2,4-Trichlorobenzene	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,1,1-Trichloroethane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,1,2-Trichloroethane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Trichloroethene (TCE)	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Trichlorofluoromethane	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
1,2,3-Trichloropropane	ND	200	μg/L	100 4/6/2020 6:14:00 PM	R67944
Vinyl chloride	ND	100	μg/L	100 4/6/2020 6:14:00 PM	R67944
Xylenes, Total	18000	150	μg/L	100 4/6/2020 6:14:00 PM	R67944
Surr: 1,2-Dichloroethane-d4	94.3	70-130	%Rec	100 4/6/2020 6:14:00 PM	R67944
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	100 4/6/2020 6:14:00 PM	R67944
Surr: Dibromofluoromethane	97.0	70-130	%Rec	100 4/6/2020 6:14:00 PM	R67944
Surr: Toluene-d8	104	70-130	%Rec	100 4/6/2020 6:14:00 PM	R67944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Analytical ReportLab Order **2006046**

Date Reported: 6/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW#2

 Project:
 Sandoval GC A #1A
 Collection Date: 6/1/2020 12:10:00 PM

 Lab ID:
 2006046-002
 Matrix: AQUEOUS
 Received Date: 6/2/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analys	t: JMR
Benzene	570	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Toluene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Ethylbenzene	870	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Methyl tert-butyl ether (MTBE)	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,2,4-Trimethylbenzene	1200	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,3,5-Trimethylbenzene	740	50	μg/L	50	6/3/2020 5:46:24 AM	W6934
1,2-Dichloroethane (EDC)	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W6934
1,2-Dibromoethane (EDB)	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Naphthalene	93	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1-Methylnaphthalene	ND	200	μg/L	50	6/3/2020 5:46:24 AM	W69341
2-Methylnaphthalene	ND	200	μg/L	50	6/3/2020 5:46:24 AM	W69341
Acetone	ND	500	μg/L	50	6/3/2020 5:46:24 AM	W69341
Bromobenzene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Bromodichloromethane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Bromoform	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Bromomethane	ND	150	μg/L	50	6/3/2020 5:46:24 AM	W6934
2-Butanone	ND	500	μg/L	50	6/3/2020 5:46:24 AM	W69341
Carbon disulfide	ND	500	μg/L	50	6/3/2020 5:46:24 AM	W69341
Carbon Tetrachloride	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Chlorobenzene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Chloroethane	ND	100	μg/L	50	6/3/2020 5:46:24 AM	W69341
Chloroform	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Chloromethane	ND	150	μg/L	50	6/3/2020 5:46:24 AM	W69341
2-Chlorotoluene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
4-Chlorotoluene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
cis-1,2-DCE	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
cis-1,3-Dichloropropene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,2-Dibromo-3-chloropropane	ND	100	μg/L	50	6/3/2020 5:46:24 AM	W69341
Dibromochloromethane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Dibromomethane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,2-Dichlorobenzene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,3-Dichlorobenzene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,4-Dichlorobenzene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Dichlorodifluoromethane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,1-Dichloroethane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,1-Dichloroethene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,2-Dichloropropane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W6934
1,3-Dichloropropane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
2,2-Dichloropropane	ND	100	μg/L	50	6/3/2020 5:46:24 AM	W69341

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical ReportLab Order **2006046**

Date Reported: 6/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW#2

 Project:
 Sandoval GC A #1A
 Collection Date: 6/1/2020 12:10:00 PM

 Lab ID:
 2006046-002
 Matrix: AQUEOUS
 Received Date: 6/2/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analys	t: JMR
1,1-Dichloropropene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Hexachlorobutadiene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
2-Hexanone	ND	500	μg/L	50	6/3/2020 5:46:24 AM	W69341
Isopropylbenzene	83	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
4-Isopropyltoluene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
4-Methyl-2-pentanone	ND	500	μg/L	50	6/3/2020 5:46:24 AM	W69341
Methylene Chloride	ND	150	μg/L	50	6/3/2020 5:46:24 AM	W69341
n-Butylbenzene	ND	150	μg/L	50	6/3/2020 5:46:24 AM	W69341
n-Propylbenzene	85	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
sec-Butylbenzene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Styrene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
tert-Butylbenzene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,1,1,2-Tetrachloroethane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,1,2,2-Tetrachloroethane	ND	100	μg/L	50	6/3/2020 5:46:24 AM	W69341
Tetrachloroethene (PCE)	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
trans-1,2-DCE	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
trans-1,3-Dichloropropene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,2,3-Trichlorobenzene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,2,4-Trichlorobenzene	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,1,1-Trichloroethane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,1,2-Trichloroethane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Trichloroethene (TCE)	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Trichlorofluoromethane	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
1,2,3-Trichloropropane	ND	100	μg/L	50	6/3/2020 5:46:24 AM	W69341
Vinyl chloride	ND	50	μg/L	50	6/3/2020 5:46:24 AM	W69341
Xylenes, Total	17000	750	μg/L	500	6/3/2020 5:17:53 AM	W69341
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	50	6/3/2020 5:46:24 AM	W69341
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	50	6/3/2020 5:46:24 AM	W69341
Surr: Dibromofluoromethane	101	70-130	%Rec	50	6/3/2020 5:46:24 AM	W69341
Surr: Toluene-d8	91.7	70-130	%Rec	50	6/3/2020 5:46:24 AM	W69341

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 9

Analytical Report Lab Order 2009A97

Date Reported: 9/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Project: Sandoval GC A 1A

Lab ID:

2009A97-001 Matrix: AQUEOUS

Collection Date: 9/14/2020 11:00:00 AM **Received Date:** 9/18/2020 8:00:00 AM

Client Sample ID: MW #2

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: RAA
Benzene	620	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Toluene	150	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Ethylbenzene	790	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Methyl tert-butyl ether (MTBE)	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,2,4-Trimethylbenzene	1200	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,3,5-Trimethylbenzene	730	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,2-Dichloroethane (EDC)	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,2-Dibromoethane (EDB)	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Naphthalene	ND	100	μg/L	50	9/24/2020 1:50:00 PM	B7208
1-Methylnaphthalene	ND	200	μg/L	50	9/24/2020 1:50:00 PM	B7208
2-Methylnaphthalene	ND	200	μg/L	50	9/24/2020 1:50:00 PM	B7208
Acetone	ND	500	μg/L	50	9/24/2020 1:50:00 PM	B7208
Bromobenzene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Bromodichloromethane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Bromoform	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Bromomethane	ND	150	μg/L	50	9/24/2020 1:50:00 PM	B7208
2-Butanone	ND	500	μg/L	50	9/24/2020 1:50:00 PM	B7208
Carbon disulfide	ND	500	μg/L	50	9/24/2020 1:50:00 PM	B7208
Carbon Tetrachloride	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Chlorobenzene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Chloroethane	ND	100	μg/L	50	9/24/2020 1:50:00 PM	B720
Chloroform	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Chloromethane	ND	150	μg/L	50	9/24/2020 1:50:00 PM	B7208
2-Chlorotoluene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
4-Chlorotoluene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
cis-1,2-DCE	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
cis-1,3-Dichloropropene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,2-Dibromo-3-chloropropane	ND	100	μg/L	50	9/24/2020 1:50:00 PM	B7208
Dibromochloromethane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Dibromomethane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,2-Dichlorobenzene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,3-Dichlorobenzene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,4-Dichlorobenzene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
Dichlorodifluoromethane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,1-Dichloroethane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,1-Dichloroethene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,2-Dichloropropane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
1,3-Dichloropropane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B7208
2,2-Dichloropropane	ND	100	μg/L	50	9/24/2020 1:50:00 PM	B7208

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 5

Analytical Report Lab Order 2009A97

Date Reported: 9/29/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Project: Sandoval GC A 1A

Lab ID:

Collection Date: 9/14/2020 11:00:00 AM

Client Sample ID: MW #2

2009A97-001 Matrix: AQUEOUS Received Date: 9/18/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: RAA
1,1-Dichloropropene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
Hexachlorobutadiene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
2-Hexanone	ND	500	μg/L	50	9/24/2020 1:50:00 PM	B72085
Isopropylbenzene	79	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
4-Isopropyltoluene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
4-Methyl-2-pentanone	ND	500	μg/L	50	9/24/2020 1:50:00 PM	B72085
Methylene Chloride	ND	150	μg/L	50	9/24/2020 1:50:00 PM	B72085
n-Butylbenzene	ND	150	μg/L	50	9/24/2020 1:50:00 PM	B72085
n-Propylbenzene	77	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
sec-Butylbenzene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
Styrene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
tert-Butylbenzene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
1,1,1,2-Tetrachloroethane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
1,1,2,2-Tetrachloroethane	ND	100	μg/L	50	9/24/2020 1:50:00 PM	B72085
Tetrachloroethene (PCE)	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
trans-1,2-DCE	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
trans-1,3-Dichloropropene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
1,2,3-Trichlorobenzene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
1,2,4-Trichlorobenzene	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
1,1,1-Trichloroethane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
1,1,2-Trichloroethane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
Trichloroethene (TCE)	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
Trichlorofluoromethane	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
1,2,3-Trichloropropane	ND	100	μg/L	50	9/24/2020 1:50:00 PM	B72085
Vinyl chloride	ND	50	μg/L	50	9/24/2020 1:50:00 PM	B72085
Xylenes, Total	15000	750	μg/L	500	9/24/2020 1:26:00 PM	B72085
Surr: 1,2-Dichloroethane-d4	95.2	70-130	%Rec	50	9/24/2020 1:50:00 PM	B72085
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	50	9/24/2020 1:50:00 PM	B72085
Surr: Dibromofluoromethane	99.6	70-130	%Rec	50	9/24/2020 1:50:00 PM	B72085
Surr: Toluene-d8	102	70-130	%Rec	50	9/24/2020 1:50:00 PM	B72085

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

CLIENT: SIMCOE/Cottonwood Consulting

Analytical Report

Lab Order 2012772

Date Reported: 12/30/2020

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW #2

 Project:
 Sandoval GC A 1A
 Collection Date: 12/15/2020 1:00:00 PM

 Lab ID:
 2012772-001
 Matrix: AQUEOUS
 Received Date: 12/16/2020 8:00:00 AM

Result **RL Qual Units** DF Analyses **Date Analyzed EPA METHOD 8260B: VOLATILES** Analyst: JMR Benzene 1400 50 μg/L 50 12/24/2020 2:41:31 AM Toluene 13 5.0 μg/L 5 12/24/2020 3:09:55 AM 830 50 50 12/24/2020 2:41:31 AM Ethylbenzene μg/L Methyl tert-butyl ether (MTBE) ND 5.0 μg/L 5 12/24/2020 3:09:55 AM 1,2,4-Trimethylbenzene 1000 50 μg/L 50 12/24/2020 2:41:31 AM 1,3,5-Trimethylbenzene 610 50 μg/L 50 12/24/2020 2:41:31 AM ND 5 1,2-Dichloroethane (EDC) 5.0 μg/L 12/24/2020 3:09:55 AM 1,2-Dibromoethane (EDB) 5 ND 5.0 μg/L 12/24/2020 3:09:55 AM 5 Naphthalene 94 10 12/24/2020 3:09:55 AM μg/L 5 1-Methylnaphthalene 21 20 μg/L 12/24/2020 3:09:55 AM 2-Methylnaphthalene 52 20 μg/L 5 12/24/2020 3:09:55 AM Acetone 170 50 μg/L 5 12/24/2020 3:09:55 AM 5 Bromobenzene ND 5.0 μg/L 12/24/2020 3:09:55 AM Bromodichloromethane ND 5.0 5 12/24/2020 3:09:55 AM μg/L **Bromoform** ND 5.0 μg/L 5 12/24/2020 3:09:55 AM **Bromomethane** ND 15 μg/L 5 12/24/2020 3:09:55 AM 2-Butanone ND 50 μg/L 5 12/24/2020 3:09:55 AM Carbon disulfide 5 ND 50 12/24/2020 3:09:55 AM μg/L Carbon Tetrachloride ND 5.0 μg/L 5 12/24/2020 3:09:55 AM Chlorobenzene ND 5.0 μg/L 5 12/24/2020 3:09:55 AM Chloroethane ND 10 μg/L 5 12/24/2020 3:09:55 AM 5 Chloroform ND 5.0 μg/L 12/24/2020 3:09:55 AM Chloromethane ND 15 μg/L 5 12/24/2020 3:09:55 AM 2-Chlorotoluene ND 5.0 μg/L 5 12/24/2020 3:09:55 AM 5 4-Chlorotoluene ND 5.0 μg/L 12/24/2020 3:09:55 AM cis-1,2-DCE ND 5.0 5 12/24/2020 3:09:55 AM μg/L ND 5.0 5 cis-1,3-Dichloropropene μg/L 12/24/2020 3:09:55 AM 5 1,2-Dibromo-3-chloropropane ND 10 μg/L 12/24/2020 3:09:55 AM Dibromochloromethane ND 5 5.0 μg/L 12/24/2020 3:09:55 AM Dibromomethane ND 5.0 μg/L 5 12/24/2020 3:09:55 AM ND 5 1,2-Dichlorobenzene 5.0 μg/L 12/24/2020 3:09:55 AM 1,3-Dichlorobenzene ND 5.0 μg/L 5 12/24/2020 3:09:55 AM 5 1,4-Dichlorobenzene ND 5.0 μg/L 12/24/2020 3:09:55 AM Dichlorodifluoromethane ND 5.0 5 12/24/2020 3:09:55 AM μg/L 1,1-Dichloroethane ND 5.0 μg/L 5 12/24/2020 3:09:55 AM 1,1-Dichloroethene ND 5.0 μg/L 5 12/24/2020 3:09:55 AM ND μg/L 5 12/24/2020 3:09:55 AM 1,2-Dichloropropane 5.0 ND 5.0 5 1,3-Dichloropropane μg/L 12/24/2020 3:09:55 AM μg/L 2,2-Dichloropropane 5 12/24/2020 3:09:55 AM ND 10

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 5

Analytical ReportLab Order **2012772**

Date Reported: 12/30/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: SIMCOE/Cottonwood Consulting

Project: Sandoval GC A 1A

Lab ID: 2012772-001

Client Sample ID: MW #2

Collection Date: 12/15/2020 1:00:00 PM

Received Date: 12/16/2020 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: JMR
1,1-Dichloropropene	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
Hexachlorobutadiene	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
2-Hexanone	ND	50	μg/L	5	12/24/2020 3:09:55 AM
Isopropylbenzene	90	5.0	μg/L	5	12/24/2020 3:09:55 AM
4-Isopropyltoluene	21	5.0	μg/L	5	12/24/2020 3:09:55 AM
4-Methyl-2-pentanone	ND	50	μg/L	5	12/24/2020 3:09:55 AM
Methylene Chloride	ND	15	μg/L	5	12/24/2020 3:09:55 AM
n-Butylbenzene	ND	15	μg/L	5	12/24/2020 3:09:55 AM
n-Propylbenzene	80	5.0	μg/L	5	12/24/2020 3:09:55 AM
sec-Butylbenzene	12	5.0	μg/L	5	12/24/2020 3:09:55 AM
Styrene	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
tert-Butylbenzene	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
1,1,2,2-Tetrachloroethane	ND	10	μg/L	5	12/24/2020 3:09:55 AM
Tetrachloroethene (PCE)	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
trans-1,2-DCE	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
trans-1,3-Dichloropropene	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
1,2,3-Trichlorobenzene	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
1,2,4-Trichlorobenzene	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
1,1,1-Trichloroethane	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
1,1,2-Trichloroethane	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
Trichloroethene (TCE)	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
Trichlorofluoromethane	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
1,2,3-Trichloropropane	ND	10	μg/L	5	12/24/2020 3:09:55 AM
Vinyl chloride	ND	5.0	μg/L	5	12/24/2020 3:09:55 AM
Xylenes, Total	13000	150	μg/L	100	12/24/2020 1:14:03 PM
Surr: 1,2-Dichloroethane-d4	118	70-130	%Rec	5	12/24/2020 3:09:55 AM
Surr: 4-Bromofluorobenzene	158	70-130	S %Rec	5	12/24/2020 3:09:55 AM
Surr: Dibromofluoromethane	106	70-130	%Rec	5	12/24/2020 3:09:55 AM
Surr: Toluene-d8	96.2	70-130	%Rec	5	12/24/2020 3:09:55 AM

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Cation / Anion Balance	8081 Pesticides / 8082 PCB's	8260B (VOA) BTEX	8270 (Semi-VOA)			
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX (-MFT)	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, C	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)			3
12/9/11	1430	WATER	MW #1	40 ml VOA - 2	HCl & Cool	i	٧														
405044	4-00		BRM 40																\square	\dashv	
12/9/11	1530	WATER	MW #2	40 ml VOA - 2	HCI & Cool	2	٧						<u> </u>	_		<u> </u>			\vdash		
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Turn-Around Time: Chain-of-Custody Record HALL ENVIRONMENTAL Client: **BLAGG ENGR. / BP AMERICA** √ Standard Rush **ANALYSIS LABORATORY** Project Name: www.hallenvironmental.com Mailing Address: **SANDOVAL GC A # 1A** P.O. BOX 87 4901 Hawkins NE - Albuquerque, NM 87109 Project #: **BLOOMFIELD, NM 87413** Tel. 505-345-3975 Fax 505-345-4107 (505) 632-1199 **Analysis Request** Phone #: email or Fax#: Project Manager: 504) TPH Method 8015B (Gas/Diesel) QA/QC Package: BTEX + MTBE + TPH (Gas only) **řMB's (80**21B) **NELSON VELEZ** Anions (F, Cl, NO3, NO2, PO4, 8081 Pesticides / 8082 PCB's ✓ Standard Level 4 (Full Validation) **NELSON VELEZ** Accreditation: Sampler: 4/15 TPH (Method 418.1) EDB (Method 504.1) □ NELAP □ Other ⊠ Yes On Ice: □ No 8310 (PNA or PAH) 8270 (Semi-VOA) ☐ EDD (Type) Chloride (300.0) Sample Temperature: RCRA 8 Metals 8260B (VOA) 2/18/12 Container Preservative | Sample Request ID # HEAL No. Date Time Matrix Type Type and # 1300 ٧ 2/9/12 MW #1 WATER 40 ml VOA - 2 HCI & Cool 1345 2/9/12 MW #2 ٧ WATER 40 ml VOA - 2 **HCI & Cool**

Received by:

Date

Date

02/10/12

2/9/12/1652

Time

Relinquished by:

Relinguished by:

Date:

Date:

49/12

Time:

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BILL DIRECTLY TO BP:

Jeff Peace, 200 Energy Court, Farmington, NM 87401

Work Order: N1520114 Paykey: ZPEACJDENV

TPH (8015B) - GRO & DRO ONLY.

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email or F	ax#:			Project Manag	er:									504)							
QA/QC Pa	•		Level 4 (Full Validation)		NELSON VI	ELEZ	5 (8021B)	TPH (Gas only)	/Diesel)					_	PCB's						10:00:37
Accredita	tion:			Sampler:	NELSON VI	ELEZ	<u>®</u>	(Gas	(Gas		_			102,	82 Pt						sample
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO.	BTEX +-NHT	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method	EDB (Method	8310 (PNA	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4,	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite
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□ EDD (1	Гуре) I			Sample Temp	erature: \	0		+	98 p	24 PC)d 55	or P/	tals	Cl, NO3,	ides		٥	0.0		<u>ا</u> و	osit
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9		BLOOM	FIELD, NM 87413	Project #:				Te	l. 50)5-34	5-39	975	F	ax	505-	345	-410)7				2/1/
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QA/QC Pad ☑ Standa	•		Level 4 (Full Validation)		NELSON VI	ELEZ	(8021B)	only)	/ MRO)			(S)	on t	4,S		۷	PIV	/ -			a	00:3/ 6
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1306874	BTEX ←M	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH (8310	RCRA 8 Metals	Anions (F,	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N			Grab sample	5 pt. composite sample	Air Dukklar
6/19/13	0900	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	- 001	٧													٧		
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If necessary samples submitted to Hall Environmental may be subcontracted/of other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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3/28/19	1000	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	-00)									50	V	Ŭ			V	
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3/29/19	1404 Time:	Relinquishe	la VJ	Received by:	Walte	3/20/	ВІ		RECT	TLY T					act: S						Page 127 of
7/29/1,	184p	any samples su	Ibmitted to Hall Environmental may be s	subcontracted to other:	non	0920	this n	necibil	ity A	av cub	contr	acted	datau	uill bo	alcarlı	notat	od on	the an	alutical	inort	of 19

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104/19	If necessa	ary samples s	ubmitted to I \f all Environmental may be				_	ossibi	lity. Ar	ny sub	-contr	acted	data v	vill be	clearl	y nota	ted on	the ar	nalytica	repo		191

Turn-Around Time: Chain-of-Custody Record HALL ENVIRONMENTAL Client: **BLAGG ENGR. / BP AMERICA** Rush ANALYSIS LABORATORY Standard Project Name: www.hallenvironmental.com Mailing Address: Sandoval GC A #1A P.O. BOX 87 4901 Hawkins NE - Albuquerque, NM 87109 Project #: **BLOOMFIELD, NM 87413** Tel. 505-345-3975 Fax 505-345-4107 (505) 632-1199 **Analysis Request** Phone #: Project Manager: 10:00:37 AM email or Fax#: Anions (F,CI,NO₃,NO₂,PO₄,SO₄) 8081 Pesticides / 8082 PCB's QA/QC Package: BTEX + MTBE + TPH (Gas only) STEVE MOSKAL BTEX + MTBE + TMB's (8021B) ✓ Standard Level 4 (Full Validation) PAH (8310 or 8270SIMS) sample Balance **Total Dissolved Solids NELSON VELEZ** Accreditation: Sampler: EDB (Method 504.1) TPH (Method 418.1) Air Bubbles (Y or N) Y Yes □ NELAP □ Other On Ice: □ No TPH 8015B (GRO / RCRA 8 Metals Sample Temperature: ☐ EDD (Type) 8260B (VOA) Grab sample 0-3=5-9 Preservative Container Sample Request ID Time Matrix HEAL No. Date Type and # Type 909300 V MW # 2 9/19/19 WATER 40 ml VOA - 2 HCl & Cool -60 Date: Relinquished by Received by: Date Time Time: Remarks: 9/19/19 1343 **BILL DIRECTLY TO BPX:** Contact: Steve Moskal Date: Time: Relinquished by: Should receive/Should've received PO from BPX. 19

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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides /	8260B (VOA)	Cation / Anion Balance	Total Dissolved Solids		Grab sample	5 pt. composite sample	Air Bubbles (V an Au)
12/10/19	1210	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	1912620	<u> </u>	B	<u> </u>		Ξ.	Ь	æ	A	8	<u>8</u> ✓	Ü	T		<u>©</u> ✓	2	Δ.
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12/10/19 12/11/19	72D	N	hr V)	Must	Jalk	12/1/19 720	Rem BIL			LY TO	Э ВР	X:	Co	onta	ct: St	eve	Mosl	kal /	7.3	- (J.	7=9	Dado
12/11/19	Time:	Relinquished	at 1.1 and	Received by:	rec blu	Date Time	Sho	ould	recei	ive/S	houl	d've	rece	ived	PO fi	rom	врх.	Ċ	Ś.Ś.	0.3	0 تد	73

Client:			/ BP AMERICA	Turn-Around T ✓ Standard Project Name:	☐ Rush _					A	٩N	AL	Y:	5I:	5 L		ВО	R	EN'		
Mailing A	ddress:	P.O. BOX	X 87	Sar	doval GC	A # 1A		49	01 H	lawk	kins	NE -	All	ouqu	ıerqı	ue, N	MI	3710	9		
		BLOOM	FIELD, NM 87413	Project #:	3			Te	el. 50)5-34	45-3	975		Fax	505	-345	-410	07			
Phone #:		(505) 63	2-1199									ļ	Anal	ysis	Red	ques	t				
email or F	ax#:			Project Manag	er:									4)							
QA/QC Pad	200		Level 4 (Full Validation)		STEVE MOS	SKAL	0218)	only)	/ MRO)			15)		PO4,50	PCB's		a)				ple
Accreditat	ion:			Sampler:	NELSON VE	LEZ	3's (8	(Gas	ORO /	.1)	1)	OSIN		102,	8082		lance	Solids			Ē١
□ NELAP)	☐ Other_		On Ice:	₽ Yes	□ No	TME	TPH	1/c	418	504	827	S	03,1	-		Bal	d So			e sa
□ EDD (T	ype)			Sample Tempe	erature: 1.7	-0= 1.7	3E +	3E +	(GR(pou	pot	or (etal	CLN	icide	(A)	nior	olve		ele	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2004027	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	Cation / Anion Balance	Total Dissolved		Grab sample	5 pt. composite sample
3/30/20	1130	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	-001										٧				٧	
																				_	1
-																				4	+
-																				-	
-						7														+	
-															. 1						+
										F											
										1						_					
Date: 3/31/20	Time: 1434	Relinquishe	ed by:	Received by:	u Wheles	Date Time 3/31/20 1434	Ren BI			гцү т	О ВІ	PX:									o
Date: 3/31/20	Time:	Relinquishe	ed by:	Received by:	Courier 4	Date Time	Co	onta	ct: S	teve	Mo	skal			PO	to b	oe pr	rovio	led		

	hain-d	of-Cus	tody Record	Turn-Around	Γime:		l			Н	IA	LL	E	NV	/IF	80	NI	ME	N	ГА	L	Recei
Client:	BLAG	G ENGR.	/ BP AMERICA	✓ Standard	Rush _				6								BO					ved by
				Project Name:													.con					
Mailing A	ddress:	P.O. BOX	(87	SAN	DOVAL GC	A # 1A		49	01 H	awki	ins N	NE -	Alb	ouqu	erq	ue, N	MI 8	3710	9			OCD: 2/1/2
		BLOOM	FIELD, NM 87413	Project #:				Te	el. 50	5-34	5-3	975		Fax	505	-345	-410	7				2/1/2
Phone #:		(505) 63	2-1199									A	nal	ysis	Red	ques	it					021
email or F	ax#:			Project Manag	jer:									4			1)					10:0
QA/QC Pa			Level 4 (Full Validation)		STEVE MO	SKAL	WB's (8021B)	only)	MRO)			15)		05,40	/ 8082 PCB's		er - 300.1)				e e	0:00:37 AM
Accreditat	tion:			Sampler:	NELSON VI	ELEZ no	8) 5,	+ TPH (Gas	/ DRO /	7	1	8270SIMS)		102,1	808		/water				sample	N
□ NELAF)	☐ Other_		On Ice:	☑ Yes	□ No	1	TPH	3/c	418	504.1)	827	S	03,1	18		300.0					r N
□ EDD (1	Гуре)			Sample Temp	erature: 6.7	-0-1=6-6°e	4	BE +	(GR(pou	pou	0	etal	CI,N	icide	(A)	oil-3	xide		e	osit	٨)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method	PAH (8310	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	Chloride (soil -	Carbon Dioxide	Oxygen	Grab sample	5 pt. composite	Air Bubbles (Y or N)
6/1/20	1/35	AIR	SVE (MW2)	tedlar bas 2	n/a	001										V		V	4	V		
							805							H								
6/1/20	1210	WATER	MW #Z	40m/- Z	HCloco	-007	1							H		1						
														LA								
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		1					-			1												
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Date:	Time:	Relinquishe	ed by:	Received by:		Date Time	Rem	narks		BILL D	IRECT	TLY TO	Э ВРХ	USIN	IG IN	ORM	ATION	BELC	ow.			
6/1/20	1520	The	eVI	Christ	Waston	6/1/2020 1520	c	ONT	ACT:	Steve	e Mo	oskal										Page
Date:	Time: 1807	Relinquishe	ed bly!	Received by:	(n. 10 - 10	Date Time			0 #:					(SVE	0&1	VI 1H	202	0)				Page 132 of
11/2020		ary samples si	bbmitted to Hall Environmental may be		accredited laboratorie		f this p	ossibi	lity. An	y sub-	contra	acted	data v	vill be	clearl	y notal	ted on	the ar	alytica	al repo	ort.	191

Client:			tody Record	Turn-Around Standard Project Name	☐ Rush _						N		Y	SIS	5 L	A	ВО	R	EN" AT			£
Mailing A	ddress:	1100 MA	IN ST.	SAN	DOVAL GC	A # 1A		49	01 F	lawl	kins	NE -	All	ouau	ıeraı	ue. N	MI S	3710	19			CD:
		DURANG	GO, COLO. 81301	Project #:								975			505							OCD: 2/1/2
Phone #:		(505) 33	0-9179						1			-			Red	-						2021
email or F	ax#:			Project Manag	jer:						7			_								10:
QA/QC Pad	1		Level 4 (Full Validation)		STEVE MO	SKAL	TMB's (8021B)	only)	MRO)			IS)		04,504	PCB's						a)	0:00:37 AM
Accreditat	ion:			Sampler:	NELSON VI	ELEZ)8) s,	+ TPH (Gas	DRO /	1)	1)	SIIV		102,F	/ 8082		Balance	Solids			sample	N
□ NELAP	1	☐ Other_		On Ice:	☑ Yes	□ No	TMB	TPH	-	418.	504.	8270	,,	03,N	8/8		Bal	d So			e sa	S
□ EDD (T	ype)			Sample Temp	erature: 4.6	20-4.5	+		(GRC	por	por	or	etals	S,N	cide	(A)	nion	olve		e e	osit	٥ ک
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	Cation / Anion	Total Dissolved		Grab sample	5 pt. composite	Air Bubbles (Y or N)
9/14/20	1100	WATER	MW #2	40 ml VOA - 2	HCl & Cool	001										V				٧		
Date: 9/17/20		1004	1/		urier q	Date Time						CTLY losk							MATIO COV			
Date:	Time:	Relinquishe	d by:	Received by:	accredited laboratorie	Date Time s. This serves as notice of	f this po					or t					ed on					133 of 19

Conting	SIM TONWA Address RANE	100 COE	MAIN ST., SUTE 101	Turn-Around Standard Project Name SAN Project #:	☐ Rush_ e:	CA FIA				A	www.	haller E - A	SI nviron Ibuqu	S L men ierqu 505	tal.co	om M 87	RA	TO	AL RY	Received by OCD: 2/1/202
mail or Stand	Fax#: Package: dard ation		330 − 9179 □ Level 4 (Full Validation)	Sampler: \(\) On Ice:	TEVE M JESON 1 A Yes	,	BE + TMB's (8021)	MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	od 418.1)	od 504.1)	SIMS)	3,NO ₂ ,PO ₄ ,SO ₄)	_		(Semi-VOA)				(N or N)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2012772	BTEX + MTBE	BTEX + MT	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	Anions (F,C	8081 Pesticides	8260B (VOA)	8270 (Semi				Air Bubbles
12/15/20	1360	WATER	MW#Z	HOMI VOA	HC14 cool	001									X					
45/2020	Time: 1637 Time: 1804	Relinquishe Relinquishe	my	Received by: Received by: Received by:	100000000000000000000000000000000000000	Date Time 12/15/2020 Date Time 12/16/20 8:00 s. This serves as notice of the	(ממב	TRE	गः	5TE	IN.	mo	5KI Im	SL J	/			NC.	Page 134 of 191

LABORATORY

QUALITY CONTROL /

QUALITY ASSURANCE

QA/QC SUMMARY REPORT

Client:

Blagg Engineering

Project: Sandoval GC A #1A

Work Order:

1108C18

Date: 06-Stage 1136 of 191

Analyte	Result	Units	PQL	SPK Va SPK ref	%Rec L	owLimit Hi	ghLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: 1	Volatiles Shor	t List						•		
Sample ID: 5ml rb		MBLK			Batch ID:	R47544	Analysis	Date:	9/1/2011	9:12:02 AM
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				•			
Sample ID: 100ng lcs		LCS			Batch ID:	R47544	Analysis	Date:	9/1/2011 10	0:10:09 AM
Benzene	23.03	μg/L	1.0	20 0	115	81.1	130			
Toluene	22.38	µg/L	1.0	20 0	112	82.3	122			

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

Page 1

Hall Environmental Analysis Laboratory, Inc.

	Sample	Rece	eipt Ch	eckl	ist			r
Client Name BLAGG				Da	ate Received	l:		8/31/2011
Work Order Number 1108C18					Received by:	LNM		11/6
Checklist completed by:		8	31 Date	11	Sample ID la	bels checked	by:	Initials
Matrix:	Carrier name:	Grey	hound					
Shipping container/cooler in good condition?		Yes	✓	ļ	No 🗆	Not Present		
Custody seals intact on shipping container/coo	ler?	Yes	✓	1	No 🗆	Not Present		Not Shipped
Custody seals intact on sample bottles?		Yes		1	No 🗆	N/A	~	
Chain of custody present?		Yes	\checkmark	ļ	No 🗆			
Chain of custody signed when relinquished and	received?	Yes	.	ı	No 🗌			
Chain of custody agrees with sample labels?		Yes	✓	I	No 🗆			
Samples in proper container/bottle?		Yes	V	ı	No 🗆			
Sample containers intact?		Yes	✓	ı	No 🗌			
Sufficient sample volume for indicated test?		Yes	✓	ı	No 🗌			
All samples received within holding time?		Yes	✓	ı	No 🗌			Number of preserved
Water - VOA vials have zero headspace?	No VOA vials subr	nitted		Υe	es 🗹	No □)	bottles checked for pH:
Water - Preservation labels on bottle and cap n	natch?	Yes		ı	No 🗆	N/A 🗹)	
Water - pH acceptable upon receipt?		Yes		I	No 🗆	N/A 🔽		<2 >12 unless noted below.
Container/Temp Blank temperature?		4.	6°		C Acceptable			рвюж.
COMMENTS:				lf giv	en sufficient	time to cool.		
Client contacted	Date contacted:				Perso	on contacted		·
Contacted by:	Regarding:							
-	<u> </u>							
Comments:								
Corrective Action								
Ocheciye Adion								

QA/QC SUMMARY REPORT

Client:

Blagg Engineering

Project: Sandoval GC A #1A

Work Order:

1112525

Date: 15-Deage1138 of 191

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec L	owLimit Hi	ghLimit %R	PD RPDLimit	Qual
Method: EPA Method 8021B: \	/olatiles				-				,	
Sample ID: 5ML-RB		MBLK				Batch ID:	R49592	Analysis Dat	e: 12/13/2011 1 ⁻	1:47:40 AN
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							
Sample ID: 5ML-RB		MBLK				Batch ID:	R49600	Analysis Dat	e: 12/14/2011 10	D:17:54 AN
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							
Sample ID: 100NG BTEX LCS		LCS				Batch ID:	R49592	Analysis Dat	e: 12/13/2011 1	I:18:48 AN
Benzene	23.09	μg/L	1.0	20	0.4276	113	80	120		
Toluene	23.34	μg/L	1.0	20	0.483	114	80	120		
Ethylbenzene	23.14	μg/L	1.0	20	0.5194	113	80	120		
Xylenes, Total	69.75	μg/L	2.0	60	0	116	78.6	121		
Sample ID: 100NG BTEX LCS		LCS				Batch ID:	R49600	Analysis Dat	e: 12/14/2011 9	9:49:02 AN
Benzene	22.91	μg/L	1.0	20	0.43	112	80	120		
Toluene	23.20	μg/L	1.0	20	0.4418	114	80	120		
Ethylbenzene	23.21	μg/L	1.0	20	0.465	114	80	120		
Xylenes, Total	69.13	μg/L	2.0	60	0	115	78.6	121		

Qualisiers:

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

Page 1

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

			Date Receive	d:	12/12/2011	
			Received by	: LNM		
2		Date	Sample ID la	abels checked by:	Initials	
Carrier name:	Couri	<u>ier</u>				
	Yes	✓	No 🗆	Not Present		
ler?	Yes	\checkmark	No 🗌	Not Present	Not Shipped	
	Yes		No 🗆	N/A		
	Yes	✓	No 🗆			
d received?	Yes	✓	No \square			
	Yes	✓	No 🗆			
	Yes	✓	No 🗆			
	Yes	✓	No 🗆			
	Yes	✓	No 🗆			
	Yes	✓	No 🗌		Number of	
No VOA vials subr	nitted		Yes 🗹	No 🗔	pH:	cked for
natch?	Yes		No 🗌	N/A 🗹		
	Yes		No 🗌	N/A 🗹	<2 >12 unle	ss noted
	4.0		•		DOIGH.	
			If given sufficient	t time to cool.		
======		===	=== = :	=====	======	
Date contacted:			Pers	on contacted		
Regarding:					<u>.</u> .	
-						
	<u>-</u> _					
		-				
-						
	No VOA vials submatch? Date contacted: Regarding:	Ves	Ves	Received by Sample ID Is Carrier name: Courier	Sample ID labels checked by: Dete Dete	Received by: LNM Sample ID labels checked by: Carrier name: Courier

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1202366**

14-Feb-12

Client: Blagg Engineering
Project: SANDOVAL GC A #A

Sample ID 5ML-RB	SampT	уре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW	Batch ID: R905			F	RunNo: 9	05					
Prep Date:	Analysis D	oate: 2/	10/2012	8	SeqNo: 25961						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	2.0									
Surr: 4-Bromofluorobenzene	19		20.00		94.2	76.5	115				

Sample ID 100NG BTEX LCS	S SampT	ype: LC	s	Tes	8021B: Volat	iles				
Client ID: LCSW	Batch	n ID: R9	05	F	RunNo: 9					
Prep Date: Analysis Date: 2/10/2012 SeqNo: 25965					5965	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.4	80	120			
Toluene	19	1.0	20.00	0	94.2	80	120			
Ethylbenzene	19	1.0	20.00	0	93.7	80	120			
Xylenes, Total	enes, Total 57 2.0 60.00			0	94.3	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		94.9	76.5	115			

Qualifiers:

Page 3 of 3

^{*/}X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



4901 Hawkins NE

ANALYSIS Laboratory	Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com	Sample Log-In Check Lis

Clie	nt Name:	BLAGG				Work Order N	lumber: 1	202366				
Rec	eived by/date:_	02	[10/12	A		·	•		•			
Log	ged By:	Anne Thor	ne	2/10/2012	2 10:10:00 <i>F</i>	AM	Anne	Я. Я.				
Con	npleted By:	Anne Thor	ne/	2/10/2012	2	•	1	11				
Rev	riewed By:	ZX		2/10/	n		CAME	Ji-				
Cha	in of Custo	dy	7	·								
	Were seals int					Yes 🗌	No 🗌	Not Pre	esent 🗹			
2.	Is Chain of Cu		elete?			_	No 🗆	Not Pre	esent 🗌			
	How was the s					Courier						
<u>Log</u>	ıİn											
	Coolers are pr	esent? (see	e 19. for coole	r specific infor	mation)	Yes 🗹	No 🗌		NA 🗆			
5.	Was an attem	pt made to	cool the samp	oles?		Yes 🗹	No 🗆		NA 🗆			
6.	Were all samp	oles receive	d at a temper	ature of >0° C	to 6.0°C	Yes 🗹	No 🗆		NA 🗆			
-												
7.	Sample(s) in p	proper conta	ainer(s)?			Yes 🗸	No 🗀					
8.	Sufficient sam	ple volume	for indicated t	test(s)?		Yes 🗹						
	Are samples (•	roperly preserv	ed?	Yes 🗹						
10.	Was preserva	tive added t	o bottles?			Yes 🗌	No 🗹		NA 🗆			
11.	VOA vials hav	e zero head	ispace?			Yes 🗸	No 🗌	No VOA	Vials 🗌			
	Were any sam			oroken?		Yes 🗌	No 🗹					7
13.	Does paperwo	ork match be	ottle labels?			Yes 🗹	No 🗆		of preserved ottles checked			
	(Note discrepa	incies on ch	nain of custod	y)					r pH:			
	Are matrices of					Yes 🗹	_		(<2 Adjusted?	2 or >12	unless noted)	
-	Is it clear what			d'?			No □		. Adjusted:			
	Were all holding (If no, notify cu)		Yes 🗹	NU 🗀		Checked by:			
	cial Handlir											J
17.	Was client not	ified of all d	iscrepancies	with this order?	?	Yes 🗌	No 🗆		NA 🗹			
	Person N	lotified:			Date							
	By Whon	n:			Via:	r ☐ eMail ☐	Phone	Fax	In Person			
	Regardin	g:	***************************************									
	Client Ins	tructions:										
18.	Additional rem	arks:										
19	Cooler Inform	nation										
. • .	Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signe	d By				
	1	1	Good	Yes								
												_

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206B08**30-Jun-12

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID: 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBW Batch ID: R3739 RunNo: 3739

Prep Date: Analysis Date: 6/27/2012 SeqNo: 105696 Units: µg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Ethylbenzene ND 1.0

Ethylbenzene ND 1.0

Xylenes, Total ND 2.0

 Surr: 4-Bromofluorobenzene
 19
 20.00
 94.8
 55
 140

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSW Batch ID: R3739 RunNo: 3739

Prep Date: Analysis Date: 6/27/2012 SeqNo: 105697 Units: µg/L

RPDLimit POL SPK value SPK Ref Val %REC HighLimit %RPD Analyte Result LowLimit Qual Benzene 21 1.0 20.00 0 106 80 120 0 22 20.00 80 Ethylbenzene 1.0 111 120 Xylenes, Total 66 2.0 60.00 0 109 80 120 23 20.00 55 140 Surr: 4-Bromofluorobenzene 114

Sample ID: 1206977-019AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC Batch ID: R3739 RunNo: 3739

Units: µg/L Prep Date: Analysis Date: 6/27/2012 SeqNo: 105710 Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 21 1.0 20.00 0.2100 105 70.1 118 Benzene Ethylbenzene 22 1.0 20.00 0.1660 110 73.5 117 Xylenes, Total 68 2.0 60.00 0.4680 73.1 112 119 Surr: 4-Bromofluorobenzene 23 20.00 55 140 113

Sample ID: 1206977-019AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC Batch ID: R3739 RunNo: 3739

Prep Date: Analysis Date: 6/27/2012 SeqNo: 105716 Units: µg/L

%REC %RPD Analyte Result SPK value SPK Ref Val LowLimit HighLimit **RPDLimit** Qual Benzene 20 1.0 20.00 0.2100 101 70.1 118 4.22 16.4 Ethylbenzene 21 1.0 20.00 0.1660 104 73.5 117 5.32 13.5 Xylenes, Total 65 2.0 60.00 0.4680 107 73.1 119 5.00 12.9 20 20.00 98.9 55 140 0 0 Surr: 4-Bromofluorobenzene

Sample ID: 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBW Batch ID: R3770 RunNo: 3770

Prep Date: Analysis Date: 6/28/2012 SeqNo: 106779 Units: μg/L

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

 Benzene
 ND
 1.0

 Toluene
 ND
 1.0

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206B08

30-Jun-12

Client: Blagg Engineering **Project:** Sandoval GC A #1A

Sample ID: 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBW Batch ID: R3770 RunNo: 3770

Prep Date: Analysis Date: 6/28/2012 SeqNo: 106779 Units: µg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Ethylbenzene ND 1.0

Xylenes, Total ND 2.0

Surr: 4-Bromofluorobenzene 16 20.00 78.9 55 140

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSW Batch ID: R3770 RunNo: 3770

Prep Date: Analysis Date: 6/28/2012 SeqNo: 106780

Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 21 1.0 20.00 0 106 80 120 Toluene 22 1.0 20.00 0 108 80 120 0 21 20.00 107 80 Ethylbenzene 1.0 120 Xylenes, Total 64 60.00 0 106 80 120 20 20.00 99.5 55 140 Surr: 4-Bromofluorobenzene

TestCode: EPA Method 8021B: Volatiles Sample ID: 1206B09-002AMS SampType: MS

Client ID: **BatchQC** Batch ID: R3770 RunNo: 3770

Units: µg/L Prep Date: Analysis Date: 6/28/2012 SeqNo: 106785

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 490 10 200.0 252.8 118 70.1 118 S Benzene Toluene 310 10 200.0 93.78 111 72.3 117 Ethylbenzene 950 10 200.0 682.1 134 73.5 S 117 Surr: 4-Bromofluorobenzene 200 200.0 101 55 140

Sample ID: 1206B09-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **BatchQC** Batch ID: R3770 RunNo: 3770

Analysis Date: 6/28/2012 Prep Date: SeqNo: 106786 Units: µg/L

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Benzene 480 10 200.0 252.8 116 70.1 118 1.17 16.4 Toluene 320 10 200.0 93.78 111 72.3 117 0.551 13.9 Ethylbenzene 950 10 200.0 682.1 135 73.5 117 0.133 13.5 S Surr: 4-Bromofluorobenzene 190 200.0 94.5 55 140 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level. */X

Value above quantitation range

T Analyte detected below quantitation limits RPD outside accepted recovery limits

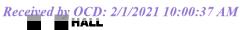
В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 3 of 3





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410', Website: www.hallenvironmental.com

Sample Log-In Check List

Clie	nt Name:	BLAGG				Work Or	der N	lumb	er:	1206B08	3		
Rec	eived by/date	:	4T061	26/17									
Log	ged By:	Anne Thor	ne	6/26/201	2 10:10:00 A	M			Ann		•		
Con	npleted By:												
Rev	riewed By:	426	a'	nu 2	10/12								
<u>Cha</u>	in of Cust	ody ~		,	ı								
1.	Were seals in	ntact?				Yes		No		Not P	resent 🗹		
2.	Is Chain of C	ustody com	plete?			Yes	✓	No		Not P	resent 🗌		
3.	How was the	sample deli	vered?			Cour	<u>ier</u>						
<u>Log</u>	<u>In</u>												
4.	Coolers are	oresent? (se	e 19. for coole	r specific infor	mation)	Yes	V	No			NA \square		
5.	Was an atter	npt made to	cool the samp	les?		Yes	✓	No			NA \square		
6.	Were all sam	iples receive	ed at a tempera	ature of >0° C	to 6.0°C	Yes	V	No			NA \square		
7.	Sample(s) in	proper cont	ainer(s)?			Yes	V	No					
8.			for indicated t	est(s)?			V						
-			A and ONG) pr		/ed?	Yes							
	Was preserva					Yes		No	✓		NA \square		
11.	VOA vials ha	ve zero hea	dspace?			Yes	V	No		No VOA	A Vials □		
			ners received b	roken?		Yes		No	✓			·	
13.	Does paperw (Note discrep		ottle labels? hain of custody	<i>(</i>)		Yes	✓	No		b	f of preserve pottles check or pH:		
14.	Are matrices	correctly ide	entified on Cha	in of Custody?	?	Yes	V	No				(<2 or >12	2 unless noted)
15.	Is it clear wha	at analyses v	were requested	1?		Yes	✓	No			Adjuste	ed?	
16.		_	le to be met? authorization.))		Yes	✓	No			Checke	d bv:	
Spe	cial Handl	ing (if apı	olicable)										
			discrepancies v	with this order	?	Yes		No			NA 🗹		
	Person	Notified:			Date								
	By Who	m:	*		Via:	│ │ ⊟ eMa	il [Ph	one	☐ Fax	In Pers	son	
	Regardi	ng:							- 				
	Client Ir	structions:						•					
18.	Additional rer	marks:											
19.	Cooler Infor	<u>mation</u>										•	
	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	te	_ 5	Signe	ed By	1		
	1	1.0	Good	Yes							_		
								_					

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209D07** *05-Oct-12*

Client: Blagg Engineering
Project: SANDOVAL GC A #1A

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBW Batch ID: R5899 RunNo: 5899

Prep Date: Analysis Date: 10/1/2012 SeqNo: 169940 Units: %REC

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

Surr: BFB 17 20.00 84.0 69.8 119

Sample ID 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSW Batch ID: R5899 RunNo: 5899

Prep Date: Analysis Date: 10/1/2012 SeqNo: 169941 Units: %REC

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

Surr: BFB 20 20.00 98.8 69.8 119

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209D07

05-Oct-12

Client: Blagg Engineering **Project:** SANDOVAL GC A #1A

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBW Client ID: Batch ID: R5899 RunNo: 5899 Prep Date: Analysis Date: 10/1/2012 SeqNo: 169948 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 Surr: 4-Bromofluorobenzene 16 20.00 80.2 69.7 152

Sample ID 100NG BTEX LC	S Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batc	h ID: R5	899	F	RunNo: 5	899				
Prep Date:	Analysis [Date: 10	0/1/2012	S	SeqNo: 1	69949	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	80	120			
Toluene	21	1.0	20.00	0	105	80	120			
Ethylbenzene	22	1.0	20.00	0	108	80	120			
Xylenes, Total	65	2.0	60.00	0	109	80	120			
Surr: 4-Bromofluorobenzene	17		20.00		82.8	69.7	152			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits J
- Sample pH greater than 2

- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

- ND Not Detected at the Reporting Limit
 - Page 4 of 4



ABORATORY

Hall Environmental Analysis Laboratory

4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Received by/date: $LM /9/2 5/2$	Work Order Number: 1209D07
Received by/date: CM 09/25 // 2	
Logged By: Anne Thorne 9/25/2012 10:00:00	AM Am Shan
Completed By: Anne Thorne 9/28/2012	aone Am
Reviewed By: Oa 28 12	
Chain of Custody	
1. Were seals intact?	Yes ☐ No ☐ Not Present 🗹
2. Is Chain of Custody complete?	Yes ✓ No ☐ Not Present ☐
3. How was the sample delivered?	Courier
<u>Log In</u>	
4. Coolers are present? (see 19. for cooler specific information)	Yes ☑ No □ NA □
5. Was an attempt made to cool the samples?	Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑ No ☐ NA ☐
7 Sample(s) in proper container(s)?	Yes ✔ No □
8. Sufficient sample volume for indicated test(s)?	Yes ☑ No □
9. Are samples (except VOA and ONG) properly preserved?	Yes ☑ No □
10. Was preservative added to bottles?	Yes □ No 🗹 NA □
11. VOA vials have zero headspace?	Yes ☑ No ☐ No VOA Vials ☐
12. Were any sample containers received broken?	Yes ☐ No ☑ # of preserved
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes Mo bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?	Yes ✓ No ☐ (<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes ✓ No ☐ Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ✓ No Checked by:
Special Handling (if applicable)	Cilected by.
17. Was client notified of all discrepancies with this order?	Yes □ No □ NA 🗹
Person Notified: Date	
By Whom: Via:	eMail Phone Fax In Person
Regarding:	
Client Instructions:	_
18. Additional remarks:	
19 Cooler Information	
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date Signed By
1 1.0 Good Yes	

Hall Environmental Analysis Laboratory, Inc.

WO#: **1212986**

28-Dec-12

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBW Batch ID: R7720 RunNo: 7720

Prep Date: Analysis Date: 12/26/2012 SeqNo: 224422 Units: μg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 1.0

 Toluene
 ND
 1.0

 Ethylbenzene
 ND
 1.0

 Xylenes, Total
 ND
 2.0

Surr: 4-Bromofluorobenzene 25 20.00 123 69.7 152

Sample ID 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: **LCSW** Batch ID: R7720 RunNo: 7720 Prep Date: Analysis Date: 12/26/2012 SeqNo: 224423 Units: µg/L Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual 21 20.00 0 107 120 Benzene 1.0 80 Toluene 22 1.0 20.00 0 108 80 120 Ethylbenzene 22 20.00 0 109 80 120 1.0 Xylenes, Total 66 2.0 60.00 0 110 80 120 26 Surr: 4-Bromofluorobenzene 20.00 131 69.7 152

SampType: MS TestCode: EPA Method 8021B: Volatiles Sample ID 1212986-002AMS MW#2 Client ID: Batch ID: R7720 RunNo: 7720 Analysis Date: 12/26/2012 SeqNo: 224426 Prep Date: Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 7200 200 4000 2850 110 74.1 124 12000 200 4000 7576 112 75.2 124

Benzene Toluene 5100 200 4000 635.6 69 125 Ethylbenzene 113 Xylenes, Total 32000 400 12000 18430 113 73.1 126 Surr: 4-Bromofluorobenzene 5400 4000 135 69.7 152

Sample ID 1212986-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: MW#2 Batch ID: R7720 RunNo: 7720 Prep Date: Analysis Date: 12/26/2012 SeqNo: 224427 Units: µg/L %REC %RPD Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit **RPDLimit** Qual 6600 200 4000 2850 94.7 74.1 124 8.74 11.2 Benzene Toluene 11000 200 4000 7576 89.1 75.2 124 7.79 11.9 Ethylbenzene 4700 200 4000 635.6 102 69 125 8.51 13.5 Xylenes, Total 29000 400 12000 18430 90.6 73.1 126 8.62 13 Surr: 4-Bromofluorobenzene 4000 136 69.7 152 Λ 0 5400

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1212986 Received by/date: 2/21/2012 9:55:00 AM Logged By: Ashley Gallegos Completed By: 12/21/2012 12:05:36 PM Ashley Gallegos 12/21/12 Reviewed By: Chain of Custody 1. Were seals intact? No Not Present ✓ Yes 2. Is Chain of Custody complete? No Not Present 3. How was the sample delivered? Courier Log In NA 4. Coolers are present? (see 19. for cooler specific information) ✓ No 5. Was an attempt made to cool the samples? Yes 🗸 No NA Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 8 Sufficient sample volume for indicated test(s)? 9 Are samples (except VOA and ONG) properly preserved? NA 10. Was preservative added to bottles? Yes No N Yes V No No VOA Vials 11. VOA vials have zero headspace? No 12. Were any sample containers received broken? # of preserved 13. Does paperwork match bottle labels? ✓ No bottles checked (Note discrepancies on chain of custody) for pH: 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Adjusted? 15. Is it clear what analyses were requested? 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No Person Notified: Date: By Whom: Via: eMail Phone : Fax In Person Regarding: Client Instructions:

18. Additional remarks:

19 Cooler Information

i	Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
	1	1.0	Good	Yes		-	

Hall Environmental Analysis Laboratory, Inc.

WO#: **1303817**

25-Mar-13

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID: 5ML RB	Sampl	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBW	Batc	h ID: R9	380	F	RunNo: 9	380				
Prep Date:	Analysis [Date: 3/	22/2013	\$	SeqNo: 2	67691	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		93.8	69.4	129			

Sample ID: 100NG BTEX LC	Samp1	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batc	h ID: R9	380	F	RunNo: 9	380				
Prep Date:	Analysis [Date: 3/	22/2013	\$	SeqNo: 2	67692	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	80	120			
Toluene	21	1.0	20.00	0	106	80	120			
Ethylbenzene	21	1.0	20.00	0	106	80	120			
Xylenes, Total	64	2.0	60.00	0	106	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		98.7	69.4	129			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG		Work C	order Numbe	er: 13038	17			RcptNo:	1
Received by/da	ite:		03/20	13	A.					
Logged By:	Lindsay Ma	angin	3/20/2013	9:55:00 Al	N					
Completed By:	Lindsay Ma	angin	3/21/2013	9:30:11 Al	u VA					
Reviewed By:	TO		03/21	/20X3	V					
Chain of Cu	stody									
	als intact on sa	mple bottles?			Yes		No 🗆		Not Present	
2. Is Chain of	Custody compl	lete?			Yes	✓	No 🗆		Not Present	
3. How was th	ie sample deliv	ered?			Couri	<u>er</u>				
Log In										
4. Was an at	empt made to	cool the sample	s?		Yes	✓	No [na 🗆	
5. Were all sa	imples received	i at a temperatu	ire of >0° C	to 6.0°C	Yes	✓	No 🗆]	na 🗆	
6. Sample(s)	in proper conta	iner(s)?			Yes	✓	No 🗆			
7. Sufficient s	ample volume t	for indicated tes	it(s)?		Yes	✓	No □			
8, Are sample	s (except VOA	and ONG) prop	erly preserve	ed?	Yes	✓	No 🗆			
9. Was prese	rvative added to	bottles?			Yes		No 🛂		na 🗆	
10.VOA vials	nave zero head	space?			Yes		No 🗆		No VOA Vials	
11. Were any	sample contain	ers received bro	ken?		Yes		No 🖢		# of preserved	
12.Does pape					Yes	✓	No 🗆		bottles checked for pH:	or >12 unless noted)
(Note discreta)	epancies on ch		of Custody?		Yes	✓	No 🗆	7	Adjusted?	oi > 12 amess notea)
14. Is it clear w			or ousloay?			✓	No [5	_	
15.Were all ho		e to be met?			Yes		No 🗆		Checked by:	
` · · ·		ŕ								
Special Han	dling (if app	licable)								
16. Was client	notified of all di	screpancies wil	h this order?		Yes		No 🗆		NA 🗹	
Perso	on Notified:	enen og speriet en helde kom en skrivet en de kleiner. De kleiner de kommente		Date:						
By W				Via:	eMa	il 🔲	Phone 🗌 Fa	ax [In Person	
	rding:									
	t Instructions:					_				
17. Additional										
18. Cooler Inf	4 11	l Condition I	Sool Inter-	Coclais I	Coal D-	ا _د	Qianad D	ı		
Cooler I	No Temp °C 1.0	Condition	Seal Intact es	Seai No	Seal Da	<u>.e </u>	Signed By			
										·

Hall Environmental Analysis Laboratory, Inc.

WO#: **1306874**

02-Jul-13

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID MB SampType: MBLK TestCode: EPA Method 200.7: Dissolved Metals

Client ID: PBW Batch ID: R11609 RunNo: 11609

Prep Date: Analysis Date: 6/27/2013 SeqNo: 329179 Units: mg/L

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

Iron ND 0.020

Sample ID LCS SampType: LCS TestCode: EPA Method 200.7: Dissolved Metals

Client ID: LCSW Batch ID: R11609 RunNo: 11609

Prep Date: Analysis Date: 6/27/2013 SeqNo: 329180 Units: mg/L

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

Iron 0.51 0.020 0.5000 0 102 85 115

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 2 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **1306874**

02-Jul-13

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R11471 RunNo: 11471

Prep Date: Analysis Date: 6/20/2013 SeqNo: 324450 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Fluoride ND 0.10

 Chloride
 ND
 0.50

 Nitrogen, Nitrate (As N)
 ND
 0.10

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R11471 RunNo: 11471 Prep Date: Analysis Date: 6/20/2013 SeqNo: 324451 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Fluoride 0.47 0.10 0.5000 0 94.1 90 110 Chloride 4.7 0.50 5.000 0 93.1 90 110 0 98.2 90 Nitrogen, Nitrate (As N) 2.5 0.10 2.500 110

Sample ID 1306848-001BMS SampType: MS TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: R11471 RunNo: 11471

Prep Date: Analysis Date: 6/20/2013 SeqNo: 324465 Units: mg/L

SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** SPK value LowLimit HighLimit Qual Fluoride 1.1 0.10 0.5000 0.6280 98.1 76.9 114 Nitrogen, Nitrate (As N) 4.2 0.10 2.500 1.524 105 93 113

Sample ID 1306848-001BMSD SampType: MSD TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: R11471 RunNo: 11471

Prep Date: Analysis Date: 6/20/2013 SeqNo: 324466 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Fluoride 1.1 0.10 0.5000 0.6280 98.5 76.9 0.152 20 114 Nitrogen, Nitrate (As N) 20 4.1 0.10 2.500 1.524 105 93 113 0.210

Sample ID 1306812-005AMS SampType: MS TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: R11471 RunNo: 11471

Prep Date: Analysis Date: 6/20/2013 SeqNo: 324474 Units: mg/L Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual PQI Fluoride 1.1 0.10 0.5000 0.6247 101 76.9 114 Nitrogen, Nitrate (As N) 2.6 0.10 2.500 0.1119 101 93 113

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1306874**

Page 4 of 7

02-Jul-13

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID 1306812-005AMSD SampType: MSD TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: R11471 RunNo: 11471

Prep Date: Analysis Date: 6/20/2013 SeqNo: 324475 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Fluoride 0.10 1.1 0.5000 0.6247 99.2 76.9 114 0.587 20 Nitrogen, Nitrate (As N) 2.6 0.10 2.500 0.1119 99.4 93 113 1.05 20

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R11471 RunNo: 11471

Prep Date: Analysis Date: 6/20/2013 SeqNo: 324504 Units: mg/L

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

 Fluoride
 ND
 0.10

 Chloride
 ND
 0.50

 Nitrogen, Nitrate (As N)
 ND
 0.10

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R11471 RunNo: 11471

Prep Date: Analysis Date: 6/20/2013 SeqNo: 324505 Units: mg/L

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.48 0.10 0.5000 95.6 90 110 Fluoride 0 Chloride 0.50 5.000 0 90.3 90 110 4.5 Nitrogen, Nitrate (As N) 2.4 0.10 2.500 0 94.6 90 110

Sample ID 1306904-001AMS SampType: MS TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: R11471 RunNo: 11471

Prep Date: Analysis Date: 6/21/2013 SeqNo: 324535 Units: mg/L

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

Fluoride 0.73 0.10 0.5000 0.2454 97.0 76.9 114

Sample ID 1306904-001AMSD SampType: MSD TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: R11471 RunNo: 11471

Prep Date: Analysis Date: 6/21/2013 SeqNo: 324536 Units: mg/L

%REC **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD Qual Fluoride 0.74 0.10 0.5000 0.2454 98.3 76.9 0.900

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R11597 RunNo: 11597

Prep Date: Analysis Date: 6/26/2013 SeqNo: 328643 Units: mg/L

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

Sulfate ND 0.50

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1306874 02-Jul-13**

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R11597 RunNo: 11597

Prep Date: Analysis Date: 6/26/2013 SeqNo: 328644 Units: mg/L

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

Sulfate 9.6 0.50 10.00 0 96.0 90 110

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R11597 RunNo: 11597

Prep Date: Analysis Date: 6/27/2013 SeqNo: 328715 Units: mg/L

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

Sulfate ND 0.50

Sample ID 1306B11-001AMS SampType: MS TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: R11597 RunNo: 11597

Prep Date: Analysis Date: 6/27/2013 SeqNo: 328718 Units: mg/L

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

Sulfate 40 0.50 10.00 30.03 102 90.1 116

Sample ID 1306B11-001AMSD SampType: MSD TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: R11597 RunNo: 11597

Prep Date: Analysis Date: 6/27/2013 SeqNo: 328719 Units: mg/L

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

Sulfate 41 0.50 10.00 30.03 106 90.1 116 0.884 20

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1306874**

02-Jul-13

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBW Batch ID: R11503 RunNo: 11503 Prep Date: Analysis Date: 6/21/2013 SeqNo: 325375 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 ND Toluene 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 Surr: 4-Bromofluorobenzene 20 20.00 102 69.4 129

Sample ID 100NG BTEX LC	S Samp1	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batcl	n ID: R1	1503	F	RunNo: 1	1503				
Prep Date:	Analysis D	Date: 6/	21/2013	S	SeqNo: 3	25376	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	80	120			
Toluene	21	1.0	20.00	0	106	80	120			
Ethylbenzene	21	1.0	20.00	0	107	80	120			
Xylenes, Total	65	2.0	60.00	0	109	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		111	69.4	129			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1306874 02-Jul-13**

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID MB-8063 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 8063 RunNo: 11518

Prep Date: 6/23/2013 Analysis Date: 6/24/2013 SeqNo: 325941 Units: mg/L

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

Total Dissolved Solids ND 20.0

Sample ID LCS-8063 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 8063 RunNo: 11518

Prep Date: 6/23/2013 Analysis Date: 6/24/2013 SeqNo: 325942 Units: mg/L

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

Total Dissolved Solids 1020 20.0 1000 0 102 80 120

Sample ID 1306880-003AMS SampType: MS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: BatchQC Batch ID: 8063 RunNo: 11518

Prep Date: 6/23/2013 Analysis Date: 6/24/2013 SeqNo: 325957 Units: mg/L

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

Total Dissolved Solids 4710 20.0 1000 3699 101 80 120

Sample ID 1306880-003AMSD SampType: MSD TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: BatchQC Batch ID: 8063 RunNo: 11518

Prep Date: 6/23/2013 Analysis Date: 6/24/2013 SeqNo: 325958 Units: mg/L

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

Total Dissolved Solids 4710 20.0 1000 3699 101 80 120 0.106 5

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

LADOIG	ATOK!		W	ebsite: www	hallenvire.	nmenta	l.com			
Client Name:	BLAGG		Work C	Order Numb	er: 1306	374			RcptNo:	1
Received by/date:	LM		06/2	0/13					<u> </u>	
Logged By:	Michelle Ga	rcia	6/20/2013	3 10:00:00	АМ		Mich	u Ga	nuin	
Completed By:	Michelle Ga	rcia	6/20/2013	3 1:38:39 P	M		Michi	u Ga	nue	
Reviewed By:	10		06/20	5/13						
Chain of Custo	ody		,	•						
1 Custody seals	intact on sa	mple bottles?			Yes		No		Not Present 🗹	
2. Is Chain of Cu	stody comple	ete?			Yes	\checkmark	No		Not Present	
3. How was the s	sample delive	ered?			Cour	<u>ier</u>				
<u>Log In</u>									·	
4. Was an attern	pt made to o	ool the sampl	es?		Yes	V	No		na 🗆	
5. Were all samp	oles received	at a temperat	ure of >0° C	to 6.0°C	Yes	V	No		NA 🗀	
6. Sample(s) in p	oroper conta	ner(s)?			Yes	✓	No			
7 Sufficient sam	ple volume f	or indicated te	st(s)?		Yes	✓	No			
8. Are samples (except VOA	and ONG) pro	perly preserve	∍d?	Yes	\checkmark	No			
9. Was preservat	tive added to	bottles?			Yes		No	✓	NA \square	
10.VOA vials hav	e zero heads	pace?			Yes	✓	No		No VOA Vials	
11. Were any san	nple containe	ers received br	oken?		Yes		No	V	# of preserved	
12.Does paperwo	ork match hot	tle ishele?			Yes		No		bottles checked for pH:	7.
(Note discreps					169		140			r >12 unless noted)
13 Are matrices of	correctly iden	tified on Chair	of Custody?		Yes	✓	No		Adjusted? _	Mo
14. Is it clear what	t analyses we	ere requested	?		Yes		No			W 3
15. Were all holding (If no, notify cu	_				Yes	✓	No	Ш	Checked by:_	
, , ,		•								•
Special Handli	ng (if app	licable)								
16.Was client not	ified of all dis	screpancies w	ith this order?		Yes		No		NA 🗹	7
Person I	Notified:			Date	:					
By Who				Via:	eMa	il 📋	Phone	Fax	In Person	
Regardir										
Client In	structions:						·			_
17. Additional ren	narks:									
18. Cooler Inform						-				
Cooler No	Temp ⁰C	Condition Good	Seal Intact Yes	Seal No	Seal Da	te	Signed	Ву		
1	1.1	Guud !	163	l <u>i</u>					I	
										

Hall Environmental Analysis Laboratory, Inc.

WO#: **1904020**

09-Apr-19

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID: rb2 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Campic ID. ID2	Gampi	ypc. IIIL		1030	LOUGE. LI	Ameniou	0200B. VOLA			
Client ID: PBW	Batch	n ID: C5	8957	R	RunNo: 58	3957				
Prep Date:	Analysis D	ate: 4/	5/2019	S	SeqNo: 19	983120	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

E Value above quantitation range

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#: **1904020**

09-Apr-19

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID: rb2	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batcl	h ID: C5	8957	F	RunNo: 5 8	8957				
Prep Date:	Analysis D	Date: 4/	5/2019	S	SeqNo: 1	983120	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.5	70	130			
Surr: Dibromofluoromethane	12		10.00		116	70	130			
Surr: Toluene-d8	9.9		10.00		99.5	70	130			

Sample ID: 100ng lcs2	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	ID: C5	8957	F	RunNo: 58	8957				
Prep Date:	Analysis D	ate: 4/	5/2019	8	SeqNo: 19	983121	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.4	70	130			
Toluene	19	1.0	20.00	0	95.3	70	130			
Chlorobenzene	19	1.0	20.00	0	97.1	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	98.5	70	130			

Qualifiers:

E Value above quantitation range

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

PQL Practical Quanitative Limit

Page 4 of 6

H Holding times for preparation or analysis exceeded

S % Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#: **1904020**

09-Apr-19

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID: 100ng lcs2	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	n ID: C5	8957	F	RunNo: 5 8	8957				
Prep Date:	Analysis D	Date: 4/	5/2019	8	SeqNo: 19	983121	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	19	1.0	20.00	0	92.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.0	70	130			
Surr: 4-Bromofluorobenzene	8.7		10.00		87.5	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			
Sample ID: rb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Sample ID: rb Client ID: PBW	·	ype: ME			tCode: El		8260B: VOL	ATILES		
·	·	n ID: A5	8989	F		8989	8260B: VOL	ATILES		
Client ID: PBW	Batch	n ID: A5	8989 8/2019	F	RunNo: 5 8	8989		ATILES %RPD	RPDLimit	Qual
Client ID: PBW Prep Date:	Batch Analysis D	n ID: A5 Date: 4/	8989 8/2019	F	RunNo: 58 SeqNo: 19	8989 984814	Units: µg/L		RPDLimit	Qual
Client ID: PBW Prep Date: Analyte	Batcl Analysis D Result	n ID: A5 Date: 4/ PQL	8989 8/2019	F	RunNo: 58 SeqNo: 19	8989 984814	Units: µg/L		RPDLimit	Qual
Client ID: PBW Prep Date: Analyte Xylenes, Total	Batch Analysis D Result ND	n ID: A5 Date: 4/ PQL	8989 8/2019 SPK value	F	RunNo: 5 8 SeqNo: 1 9 %REC	8989 984814 LowLimit	Units: µg/L HighLimit		RPDLimit	Qual
Client ID: PBW Prep Date: Analyte Xylenes, Total Surr: 1,2-Dichloroethane-d4	Batch Analysis D Result ND 9.5	n ID: A5 Date: 4/ PQL	8989 8/2019 SPK value	F	RunNo: 5 8 SeqNo: 1 9 **REC 94.7	8989 984814 LowLimit	Units: µg/L HighLimit		RPDLimit	Qual

Sample ID: 100ng Ics	SampT	SampType: LCS TestCode: EPA Method						ATILES		
Client ID: LCSW	Batch	Batch ID: A58989 RunNo: 58989								
Prep Date:	Analysis D	ate: 4/	/8/2019	9	SeqNo: 19	984818	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.2	70	130			
Surr: 4-Bromofluorobenzene	8.9		10.00		88.8	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Sample ID: rb1	SampT	ype: ME	3LK	Test	tCode: El	Code: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	n ID: D5	i8989	R	8989							
Prep Date:	Analysis D	ate: 4/	/8/2019	S	SeqNo: 19	984876	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130					
Surr: 4-Bromofluorobenzene	8.8		10.00		88.1	70	130					
Surr: Dibromofluoromethane	12		10.00		124	70	130					
Surr: Toluene-d8	9.8		10.00		98.4	70	130					

Qualifiers:

E Value above quantitation range

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1904020**

09-Apr-19

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID: 100ng lcs2	SampT	ype: LC	s	Tes	tCode: El	ATILES				
Client ID: LCSW	Batch	n ID: D5	8989	F	RunNo: 5	8989				
Prep Date:	Analysis D	ate: 4/	8/2019	S	SeqNo: 1	984877	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		90.8	70	130			
Surr: Dibromofluoromethane	12		10.00		122	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

E Value above quantitation range

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

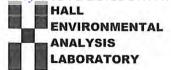
W Sample container temperature is out of limit as specified at testcode

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Number:	19040	020			RcptNo	: 1
Received By: Anne Thorne	3/30/2019 9:20:00 AM			anne	Am		
Completed By: Yazmine Garduno	4/1/2019 11:10:08 AM			Magniorel	Colondaria		
Reviewed By: ENM	4/1/19						
Chain of Custody							
1. Is Chain of Custody complete?		Yes	✓	No		Not Present	
2. How was the sample delivered?		Courie	<u>er</u>				
Log In							
Was an attempt made to cool the sample	es?	Yes [~	No		NA 🗆	
4. Were all samples received at a temperate	ure of >0° C to 6.0°C	Yes [~	No		NA 🗆	
5. Sample(s) in proper container(s)?		Yes [V	No			
6. Sufficient sample volume for indicated tes	st(s)?	Yes S		No			
7. Are samples (except VOA and ONG) prop	perly preserved?	Yes \	/	No			
8. Was preservative added to bottles?		Yes [No	V	NA 🗆	
9. VOA vials have zero headspace?		Yes S		No [No VOA Vials	70
Were any sample containers received broad and the sample containers recei	oken?	Yes		No	V	# of preserved	0/6/1/19
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 5	/	No		bottles checked for pH: (<2 o	c>12 unless noted)
2. Are matrices correctly identified on Chain	of Custody?	Yes S	/	No [Adjusted?	
3. Is it clear what analyses were requested?		Yes I		No			
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 1		No		Checked by:	
Special Handling (if applicable)							
15. Was client notified of all discrepancies w	ith this order?	Yes		No		NA 🗹	
Person Notified:	Date				-		
By Whom:	Via:	eMai	l 🗌 Ph	one 🗌	Fax	☐ In Person	
Regarding: Client Instructions:							

Seal Date

Signed By

Page 1 of 1

3

17. Cooler Information

1.0

1.0

1.0

Cooler No Temp °C Condition Seal Intact Seal No

Yes

Yes

Yes

Good

Good

Good

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906D58 03-Jul-19**

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: 100ng Ics	SampT	ype: LC	S	Tes	tCode: El					
Client ID: LCSW	Batch	n ID: R6	1035	F	RunNo: 6	1035				
Prep Date:	Analysis D	Analysis Date: 6/28/2019			SeqNo: 2	068428	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.0	70	130			
Toluene	20	1.0	20.00	0	99.9	70	130			
Chlorobenzene	21	1.0	20.00	0	106	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	89.4	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	90.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.3	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.2	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.6	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Sample ID: rb2 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW Batch ID: R61035 RunNo: 61035

Prep Date: Analysis Date: 6/28/2019 SeqNo: 2068429 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906D58 03-Jul-19**

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: rb2 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW	Batch	1D: R6	1035	F	RunNo: 6	1035				
Prep Date:	Analysis D	ate: 6/	28/2019	S	SeqNo: 2	068429	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1906D58**

03-Jul-19

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: rb2 Client ID: PBW	•	ype: ME			tCode: El	PA Method	ATILES			
Prep Date:	Analysis D		28/2019		SeqNo: 2		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.6	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.1	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.3	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Cli	ent Name:	BLAGG		Work	Order Num	ber: 190	6D58			Rcp	otNo: 1	
Re	ceived By:	Desiree D	ominguez	6/25/20	19 8:15:00	AM		D	~			
	mpleted By: viewed By:	Yazmine	Garduno	6/25/20	19 2:20:00 (¹)	PM		Mazmir	u (espresent	, p		
Cha	ain of Cus	tody										
1.	ls Chain of Ci	ustody comp	lete?			Yes	V	No		Not Present		
2.	How was the	sample deliv	ered?			Cou	rier					
Lo	g In											
3. \	Nas an attem	pt made to c	cool the samp	les?		Yes	~	No		NA		
4. v	Vere all samp	oles received	at a tempera	ture of >0° C t	o 6.0°C	Yes	V	No		NA		
5. 8	Sample(s) in p	proper contai	iner(s)?			Yes	V	No				
6. 5	Sufficient sam	ple volume f	or indicated te	est(s)?		Yes	~	No				
7. A	re samples (except VOA	and ONG) pro	perly preserve	ed?	Yes	V	No				
	Vas preserva					Yes		No	V	NA [
9. v	OA vials hav	e zero heads	space?			Yes		No	V	No VOA Vials		
10.1	Were any san	nple containe	ers received b	roken?		Yes		No	~	# of preserved		
										bottles checked		
	Does paperwo Note discrepa		ttle labels? ain of custody)		Yes	~	No		for pH:	<2 or >12	2 unless noted)
				n of Custody?		Yes	~	No		Adjusted?		2000
			ere requested	Charles I be for		Yes	V	No				
14.v	Vere all holdi	ng times able				Yes	V	No		Checked b	y: IO	6/26/19
Spe	cial Handl	ing (if app	olicable)									
				with this order?	i.	Yes		No		NA	~	
	Person	Notified:			Date				_			
	By Who	m:			Via:	⊤ eN	lail 🗆	Phone [Fax	☐ In Person		
	Regard	ing:									eri.	
	Client Ir	nstructions:				_						
16.	Additional re	marks:										
17	Cooler Infor	mation										
413	Cooler No		Condition	Seal Intact	Seal No	Seal D	ate	Signed	Bv	1		
	1	1.4	Good	Yes				34				
	2	5.8	Good	Yes						1		

Hall Environmental Analysis Laboratory, Inc.

WO#: **1909B00**

26-Sep-19

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: 100ng Ics	SampT	ype: LC	S	Tes	tCode: El					
Client ID: LCSW	Batch	n ID: R6	3131	F	RunNo: 6 3	3131				
Prep Date:	Analysis D	oate: 9/	23/2019	8	153819	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.0	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	97.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.6	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.5	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: rb1 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Client ID: PBW Batch ID: R63131 RunNo: 63131 Prep Date: Analysis Date: 9/23/2019 SeqNo: 2153841 Units: µg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND Benzene 1.0

Methyl tert-butyl ether (MTBE) ND 1.0 1,2,4-Trimethylbenzene ND 1.0 1,3,5-Trimethylbenzene ND 1.0 1,2-Dichloroethane (EDC) ND 1.0 1,2-Dibromoethane (EDB) ND 1.0 Naphthalene ND 2.0 1-Methylnaphthalene ND 4.0 2-Methylnaphthalene ND 4.0 Acetone ND 1.0 Bromobenzene ND 1.0 Bromodichloromethane ND 1.0 Bromomethane ND 1.0 2-Butanone ND 10 Carbon disulfide ND 1.0 Chlorobenzene ND 1.0 Chlorotethane ND 2.0 Chloroform ND 1.0 Chlorotoluene ND 3.0 2-Chlorotoluene ND 1.0	Ethylbenzene	ND	1.0	
1,3,5-Trimethylbenzene ND 1.0 1,2-Dichloroethane (EDC) ND 1.0 1,2-Dibromoethane (EDB) ND 1.0 Naphthalene ND 2.0 1-Methylnaphthalene ND 4.0 2-Methylnaphthalene ND 4.0 Acetone ND 10 Bromobenzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 3.0 Chloromethane ND 3.0	Methyl tert-butyl ether (MTBE)	ND	1.0	
1,2-Dichloroethane (EDC) ND 1.0 1,2-Dibromoethane (EDB) ND 1.0 Naphthalene ND 2.0 1-Methylnaphthalene ND 4.0 2-Methylnaphthalene ND 4.0 Acetone ND 10 Bromobenzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 1.0 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 3.0	1,2,4-Trimethylbenzene	ND	1.0	
1,2-Dibromoethane (EDB) ND 1.0 Naphthalene ND 2.0 1-Methylnaphthalene ND 4.0 2-Methylnaphthalene ND 4.0 Acetone ND 10 Bromobenzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 3.0	1,3,5-Trimethylbenzene	ND	1.0	
Naphthalene ND 2.0 1-Methylnaphthalene ND 4.0 2-Methylnaphthalene ND 4.0 Acetone ND 10 Bromobenzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 3.0 Chloromethane ND 3.0	1,2-Dichloroethane (EDC)	ND	1.0	
1-Methylnaphthalene ND 4.0 2-Methylnaphthalene ND 4.0 Acetone ND 10 Bromobenzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	1,2-Dibromoethane (EDB)	ND	1.0	
2-Methylnaphthalene ND 4.0 Acetone ND 10 Bromobenzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 1.0 2-Butanone ND 10 Carbon disulfide ND 1.0 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 3.0	Naphthalene	ND	2.0	
Acetone ND 10 Bromobenzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorothane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	1-Methylnaphthalene	ND	4.0	
Bromobenzene ND 1.0 Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chlorothane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	2-Methylnaphthalene	ND	4.0	
Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	Acetone	ND	10	
Bromoform ND 1.0 Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	Bromobenzene	ND	1.0	
Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	Bromodichloromethane	ND	1.0	
2-Butanone ND 10 Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	Bromoform	ND	1.0	
Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	Bromomethane	ND	3.0	
Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	2-Butanone	ND	10	
Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	Carbon disulfide	ND	10	
Chloroethane ND 2.0 Chloroform ND 1.0 Chloromethane ND 3.0	Carbon Tetrachloride	ND	1.0	
Chloroform ND 1.0 Chloromethane ND 3.0	Chlorobenzene	ND	1.0	
Chloromethane ND 3.0	Chloroethane	ND	2.0	
	Chloroform	ND	1.0	
2-Chlorotoluene ND 1.0	Chloromethane	ND	3.0	
	2-Chlorotoluene	ND	1.0	

ND

1.0

Qualifiers:

Toluene

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1909B00**

26-Sep-19

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: rb1 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

		71								
Client ID: PBW	Batch	n ID: R6	3131	R	RunNo: 63	3131				
Prep Date:	Analysis D	ate: 9/.	23/2019	S	SeqNo: 21	153841	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
• •										

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1909B00 26-Sep-19**

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: rb1	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	ID: R6	3131	F	RunNo: 6	3131					
Prep Date:	Analysis D	ate: 9/	23/2019	S	SeqNo: 2	153841	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.5									
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.3	70	130				
Surr: 4-Bromofluorobenzene	9.4		10.00		94.4	70	130				
Surr: Dibromofluoromethane	10		10.00		102	70	130				
Surr: Toluene-d8	11		10.00		105	70	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

BLAGG Client Name: Work Order Number: 1909B00 RcptNo: 1 Michelle Concia Received By: Yazmine Garduno 9/20/2019 8:15:00 AM Completed By: Michelle Garcia 9/20/2019 10:22:12 AM Reviewed By: **Chain of Custody** 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No _ NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 Yes 🗸 5. Sample(s) in proper container(s)? Yes 🗸 No Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? Yes V No No V 8. Was preservative added to bottles? Yes NA 🔲 No VOA Vials 9. VOA vials have zero headspace? Yes 🗸 No _ Yes 🗌 No V 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No _ for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 ~ 13. Is it clear what analyses were requested? No Yes Checked by: DAD 9/23/19 No 🗌 14. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 5.0 Good Yes

5.9

Good

Yes

Hall Environmental Analysis Laboratory, Inc.

ND

1.0

WO#: 1912620

18-Dec-19

Client: Blagg Engineering **Project:** Sandoval GC A 1A

Sample ID: 100ng Ics	SampT	ype: LC	s	Tes	tCode: El					
Client ID: LCSW	Batch	1D: R6	5220	R	RunNo: 6	5220				
Prep Date:	Analysis D	ate: 12	2/16/2019	S	SeqNo: 2	239084	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	20	1.0	20.00	0	98.6	70	130			
Chlorobenzene	21	1.0	20.00	0	104	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	110	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.1	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.3	70	130			
Surr: Dibromofluoromethane	11	11 10.00			112	70	130			
Surr: Toluene-d8	10		10.00	103 70			130			

Sample ID: rb1 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Client ID: PBW Batch ID: R65220 RunNo: 65220 Prep Date: Analysis Date: 12/16/2019 SeqNo: 2239113 Units: µg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Toluene	ND	1.0	
Ethylbenzene	ND	1.0	
Methyl tert-butyl ether (MTBE)	ND	1.0	
1,2,4-Trimethylbenzene	ND	1.0	
1,3,5-Trimethylbenzene	ND	1.0	
1,2-Dichloroethane (EDC)	ND	1.0	
1,2-Dibromoethane (EDB)	ND	1.0	
Naphthalene	ND	2.0	
1-Methylnaphthalene	ND	4.0	
2-Methylnaphthalene	ND	4.0	
Acetone	ND	10	
Bromobenzene	ND	1.0	
Bromodichloromethane	ND	1.0	
Bromoform	ND	1.0	
Bromomethane	ND	3.0	
2-Butanone	ND	10	
Carbon disulfide	ND	10	
Carbon Tetrachloride	ND	1.0	
Chlorobenzene	ND	1.0	
Chloroethane	ND	2.0	
Chloroform	ND	1.0	
Chloromethane	ND	3.0	
2-Chlorotoluene	ND	1.0	

Qualifiers:

Benzene

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1912620** *18-Dec-19*

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: rb1 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Campic ID. 181	Gampi	ypc. IIIL		TOSTOGGO. ET A MICHIGA OZOOD. VOLATILLO						
Client ID: PBW	Batch	n ID: R6	5220	R	RunNo: 65	5220				
Prep Date:	Analysis D	ate: 12	2/16/2019	S	SeqNo: 22	239113	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
1 1 -	-	-								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **1912620**

18-Dec-19

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: rb1 Client ID: PBW	•	ype: ME			tCode: El		8260B: VOL	ATILES		
Prep Date:	Analysis D	ate: 12	2/16/2019	S	SeqNo: 2:	239113	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	12		10.00		116	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11	11 10.00			112 70					
Surr: Toluene-d8	11	11 10.00			106 70					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: **BLAGG** Work Order Number: 1912620 RcptNo: 1 Received By: Yazmine Garduno 12/12/2019 8:45:00 AM Completed By: Leah Baca 12/12/2019 9:56:51 AM DN 12/2/19 Reviewed By: Chain of Custody 1. Is Chain of Custody sufficiently complete? Yes 🔽 No \square Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🔽 No 🗀 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C Yes 🗹 NA 🗆 5. Sample(s) in proper container(s)? No 🗀 Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🔽 No 🗀 7. Are samples (except VOA and ONG) properly preserved? Yes 🔽 No 🗀 8. Was preservative added to bottles? No 🗹 Yes 🗌 NA 🗀 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes 🗹 No 🗌 NA 🗀 10. Were any sample containers received broken? Yes No 🗹 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗹 No 🗌 for pH: (Note discrepancies on chain of custody) >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Yes 🔽 No 🗌 13. Is it clear what analyses were requested? Yes 🗹 No 🗌 14. Were all holding times able to be met? Checked by: DAD Yes 🗹 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗹 Person Notified: Date By Whom: Via: eMail Phone Fax ☐ In Person Regarding: Client Instructions: 16. Additional remarks: 17 Cooler Information

Cooler No		Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.2	Good		erroritari de all'as traponomy, degles,	- Laborated	
2	0.0	Good	(Marie allerna areanis per agrico (1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	oraningory (1966) in his manuscreaming	CONTROL MARIE CONTROL CONTROL CONTROL MARIE MARIE MARIE CONTROL CONTRO	
		Parameter (A		Commence of the second	3) YPT-10 (A40-40

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004027**

09-Apr-20

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: 100ng Ics	SampType: LCS TestCode: EPA Method 8260B: VOLATILES									
Client ID: LCSW	Batc	h ID: R6	7944	F	RunNo: 6	7944				
Prep Date:	Analysis D	Date: 4/	6/2020	S	SeqNo: 2	347890	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Chlorobenzene	22	1.0	20.00	0	110	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	101	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.2	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.7	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.0	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			
Sample ID: 100ng lcs2	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batc	h ID: B6	7944	F	RunNo: 6	7944				
Prep Date:	Analysis D	Date: 4/	6/2020	9	SeqNo: 2	347916	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.7	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.9	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			
Sample ID: mb2	SampType: MBLK TestCode: EPA Method 8260B: VOLATILES									

Sample ID: mb2	Samply	ype: M	BLK	l es	tCode: El	ATILES				
Client ID: PBW	Batch	ID: B6	7944	R	RunNo: 6	7944				
Prep Date:	Analysis D	ate: 4/	6/2020	S	SeqNo: 2	347917	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.3	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.9	70	130			
Surr: Dibromofluoromethane	10		10.00		99.8	70	130			
Surr: Toluene-d8	9.9	9.9 10.00			98.7 70					

Sample ID: MB	SampT	SampType: MBLK TestCode: EPA Method 8260B: VOLATILES							_	
Client ID: PBW	Batch	ID: R6	7944	F	RunNo: 6	7944				
Prep Date:	Analysis D	ate: 4/	6/2020	8	SeqNo: 2	347926	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004027 09-Apr-20**

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: MB SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Sample ID: MB	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	ID: R6	7944	R	RunNo: 67	7944				
Prep Date:	Analysis Da	ate: 4/	6/2020	S	SeqNo: 23	347926	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
1 17										

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004027**

09-Apr-20

Client: Blagg Engineering
Project: Sandoval GC A 1A

Sample ID: MB	SampT	SampType: MBLK			tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	1D: R6	7944	F	RunNo: 6	7944				
Prep Date:	Analysis D	ate: 4/	6/2020	5	SeqNo: 2	347926	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.9	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.7	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG		Work	Order Num	nber: 200	4027			RcptNo: 1	
Received By:	Juan Roja	ıs	4/1/202	0 8:05:00 A	AM		Guan	39	-	
Completed By:	John Cald	dwell	4/1/202	0 12:58:47	РМ		Guan	1/1	WII	
Reviewed By:	Je 41	1/20					<i>y</i>			
Chain of Cus	stody									
1. Is Chain of C	Custody suffic	iently complet	e?		Yes	~	No		Not Present	
2. How was the	sample deliv	ered?			Cou	<u>rier</u>				
Log In										
3. Was an atten	mpt made to o	cool the samp	les?		Yes	~	No		NA 🗆	
4. Were all sam	ples received	at a tempera	ture of >0° C	to 6.0°C	Yes	v	No		NA 🗆	
5. Sample(s) in	proper conta	iner(s)?			Yes	V	No			
6. Sufficient sam	nple volume f	or indicated te	est(s)?		Yes	V	No			
7. Are samples (ed?	Yes	~	No			
8. Was preserva	ative added to	bottles?			Yes		No	v	NA 🗆	
9. Received at le	east 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes	~	No		NA 🗆	
10. Were any sar	mple containe	ers received b	roken?		Yes		No	~	a.e	
11. Does paperwo	ork match bot	tle labels?			Yes	~	No		# of preserved bottles checked for pH:	
(Note discrepa)						(<2 or >12 unless noted)	
12. Are matrices of			Marie Carlotte		Yes		No		Adjusted?	11
13. Is it clear wha			?		Yes		No		16 11	1/3
 Were all holding (If no, notify continuous) 					Yes	~	No		Checked by:	1/6
Special Handl	ling (if app	licable)								
15. Was client no			vith this order?		Yes		No		NA 🗹	
Person	Notified:			Date						
By Who	om:			Via:	☐ eMa	ail 🔲	Phone	Fax	In Person	
Regard	ing:									
Client Ir	nstructions:									
16. Additional rea	marks:									
17. Cooler Infor	mation									
Cooler No	and the second second second	Condition	Seal Intact	Seal No	Seal D	ate	Signed I	Ву	Ĺ'	
1	1.7	Good								

Hall Environmental Analysis Laboratory, Inc.

WO#: 2006046 11-Jun-20

Client: Blagg Engineering **Project:** Sandoval GC A #1A

Sample ID: mb2 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW	Batch ID: W69341		R	RunNo: 69	9341					
Prep Date:	Analysis D	ate: 6/ .	3/2020	S	SeqNo: 24	405013	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2006046**

11-Jun-20

Client: Blagg Engineering
Project: Sandoval GC A #1A

Sample ID: mb2 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Client ID: PBW RunNo: 69341 Batch ID: W69341 Prep Date: Analysis Date: 6/3/2020 SeqNo: 2405013 Units: µg/L Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result 1,1-Dichloropropene ND 1.0 Hexachlorobutadiene ND 1.0 ND 2-Hexanone 10 Isopropylbenzene ND 1.0 4-Isopropyltoluene ND 1.0 4-Methyl-2-pentanone ND 10 Methylene Chloride ND 3.0 n-Butylbenzene ND 3.0 n-Propylbenzene ND 1.0 sec-Butylbenzene ND 1.0 Styrene ND 1.0 ND 1.0 tert-Butylbenzene 1,1,1,2-Tetrachloroethane ND 1.0 1,1,2,2-Tetrachloroethane ND 2.0 Tetrachloroethene (PCE) ND 1.0 trans-1,2-DCE ND 1.0 ND trans-1,3-Dichloropropene 1.0 1,2,3-Trichlorobenzene ND 1.0 1,2,4-Trichlorobenzene ND 1.0 1,1,1-Trichloroethane ND 1.0 ND 1,1,2-Trichloroethane 1.0 Trichloroethene (TCE) ND 1.0 Trichlorofluoromethane ND 1.0 1,2,3-Trichloropropane ND 2.0 Vinyl chloride ND 1.0 Xylenes, Total ND 1.5 Surr: 1,2-Dichloroethane-d4 9.6 10.00 96.1 70 130 Surr: 4-Bromofluorobenzene 70 8.8 10.00 88.4 130 Surr: Dibromofluoromethane 10 10.00 100 70 130

Sample ID: 100NG LCS	SampT	S	Tes	tCode: EF						
Client ID: LCSW	Batch ID: W69341			F	RunNo: 69	9341				
Prep Date:	Analysis D	ate: 6/	2/2020	8	SeqNo: 24	405014	Units: µg/L			
Assista			0011	00140 4141						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	Result 21	1.0	20.00	SPK Ref Val	%REC 107	LowLimit 70	HighLimit 130	%RPD	RPDLimit	Qual
							<u> </u>	%RPD	RPDLIMIT	Qual

10.00

9.8

Qualifiers:

Surr: Toluene-d8

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

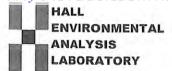
97.8

70

130

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Num	ber: 2006046		RcptNo: 1
Received By: Emily Mocho	6/2/2020 8:00:00 A	M		
Completed By: Isaiah Ortiz	6/2/2020 8:29:08 A	М	I_0	4
Reviewed By: JR 64120				
Chain of Custody	1R 6/2/20			
Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present
2. How was the sample delivered?		Courier		
Log In				
3. Was an attempt made to cool the sample	es?	Yes 🗸	No 🗆	NA 🗆
4. Were all samples received at a temperat	ture of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗆
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌	
6. Sufficient sample volume for indicated te	est(s)?	Yes 🗸	No 🗆	
7. Are samples (except VOA and ONG) pro		Yes 🗸	No 🗌	
8. Was preservative added to bottles?		Yes	No 🗸	NA 🗆
9. Received at least 1 vial with headspace	<1/4" for AQ VOA?	Yes	No 🗌	NA 🗹
10. Were any sample containers received b	roken?	Yes	No 🗸	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chair		Yes 🗸	No 🗆	Adjusted?
13. Is it clear what analyses were requested	3.00	Yes 🗸	No 🗆	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🔽	No 🗌	Checked by: SM Ce 12/26
Special Handling (if applicable)				
15, Was client notified of all discrepancies v	vith this order?	Yes	No 🗆	NA 🗹
Person Notified:	Date			
By Whom:	Via:		hone Fax	☐ In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
17. Cooler Information Cooler No Temp °C Condition 1 6.6 Good	Seal Intact Seal No Not Present	Seal Date	Signed By	

Hall Environmental Analysis Laboratory, Inc.

Result

PQL

WO#: **2009A97**

29-Sep-20

Client: SIMCOE/Cottonwood Consulting

Project: Sandoval GC A 1A

Sample ID: 100ng lcs2	SampT	ype: LC	S	Tes	estCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch	n ID: B7	2085	F	RunNo: 7	2085						
Prep Date:	Analysis Date: 9/24/2020			S	SeqNo: 2	527480	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	23	1.0	20.00	0	116	70	130					
Toluene	22	1.0	20.00	0	108	70	130					
Chlorobenzene	21	1.0	20.00	0	103	70	130					
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130					
Trichloroethene (TCE)	21	1.0	20.00	0	106	70	130					
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130					
Surr: 4-Bromofluorobenzene	9.7		10.00		96.8	70	130					
Surr: Dibromofluoromethane	11		10.00		105	70	130					
Surr: Toluene-d8	10		10.00		101	70	130					

Sample ID: mb2	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES
Client ID: PBW	Batch ID: B72085	RunNo: 72085
Prep Date:	Analysis Date: 9/24/2020	SeqNo: 2527481 Units: μg/L

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

Qual

ND	1.0
ND	1.0
ND	2.0
ND	4.0
ND	4.0
ND	10
ND	1.0
ND	1.0
ND	1.0
ND	3.0
ND	10
ND	10
ND	1.0
ND	1.0
ND	2.0
ND	1.0
ND	3.0
ND	1.0
	ND N

Qualifiers:

Analyte

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A97**

29-Sep-20

Client: SIMCOE/Cottonwood Consulting

Project: Sandoval GC A 1A

Sample ID: mb2 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Sample ID: mb2	SampType: WBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	n ID: B7	2085	F	RunNo: 7	2085				
Prep Date:	Analysis D	ate: 9/	24/2020	5	SeqNo: 2	527481	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
• •										

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009A97 29-Sep-20**

Client: SIMCOE/Cottonwood Consulting

Project: Sandoval GC A 1A

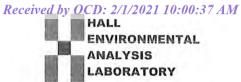
Sample ID: mb2 Client ID: PBW	SampType: MBLK Batch ID: B72085			F	tunNo: 7	2085	8260B: VOL	ATILES		
Prep Date:	Analysis L	Analysis Date: 9/24/2020			SeqNo: 2	02/481	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		99.6	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.5	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.2		10.00		92.1	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE. Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	SIMCOE/Cottonwood Consulting	Work Order Number	200	9A97		Rcpt	No: 1
Received By:	Emily Mocho	9/18/2020 8:00:00 AM	1				
Completed By:	Emily Mocho	9/18/2020 9:04:09 AM	1				
Reviewed By:	em 9/18/20						
Chain of Cus	<u>tody</u>						
1. Is Chain of C	ustody complete?		Yes	V	No 🗆	Not Present	
2. How was the	sample delivered?						
Log In							
The second secon	npt made to cool the sample	s?	Yes	~	No 🗆	NA 🗆	
4. Were all sam	ples received at a temperatu	are of >0° C to 6.0°C	Yes	V	No 🗆	NA [3
5. Sample(s) in	proper container(s)?		Yes	V	No 🗆		
6. Sufficient sam	nple volume for indicated tes	it(s)?	Yes	V	No 🗌		
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes	~	No 🗌		
8. Was preserva	tive added to bottles?		Yes		No 🗸	NA 🗆	
9. Received at le	east 1 vial with headspace <	1/4" for AQ VOA?	Yes	V	No 🗌	NA 🗆	I
10. Were any sar	mple containers received bro	oken?	Yes		No 🗸	# of preserved	
	ork match bottle labels?		Yes	V	No 🗆	bottles checked for pH:	
	ancies on chain of custody)	-f Ctd-2			No.	Adjusted?	2 or >12 unless noted)
	correctly identified on Chain tanalyses were requested?	of Custody?		V	No 🗌	/	
	ng times able to be met?		Yes	V	No 🗆	Checked by	SPA 9.18.2
	ustomer for authorization.)		165		140		3/11 1.00
Special Handl	ing (if applicable)						
15. Was client no	otified of all discrepancies wi	th this order?	Yes		No	NA 💌	
Person	Notified:	Date:					
By Who	om:	Via:	eM	ail 🔲	Phone Fa	ix In Person	
Regard	ing:						
Client I	nstructions:						
16. Additional re	marks:						
17. Cooler Information Cooler No.	Temp °C Condition	Seal Intact Seal No	Seal D	ate	Signed By		

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012772

30-Dec-20

Client: SIMCOE/Cottonwood Consulting

Project: Sandoval GC A 1A

Sample ID: 100ng lcs	SampT	ype: LC	s	Tes	TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch	n ID: A7	4228	F	RunNo: 7	4228					
Prep Date:	Analysis Date: 12/23/2020			S	SeqNo: 2	620156	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	22	1.0	20.00	0	110	70	130				
Toluene	21	1.0	20.00	0	104	70	130				
Chlorobenzene	21	1.0	20.00	0	107	70	130				
1,1-Dichloroethene	21	1.0	20.00	0	105	70	130				
Trichloroethene (TCE)	19	1.0	20.00	0	97.0	70	130				
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130				
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130				
Surr: Dibromofluoromethane	10				100	70	130				
Surr: Toluene-d8	9.8		10.00		97.6	70	130				

Sample ID: VSB Fridge SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Batch ID: A74228 Client ID: PBW RunNo: 74228 Prep Date: Analysis Date: 12/23/2020 SeqNo: 2620157 Units: µg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 1.0 Benzene

Toluene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether (MTBE)	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0
1,2-Dichloroethane (EDC)	ND	1.0
1,2-Dibromoethane (EDB)	ND	1.0
Naphthalene	ND	2.0
1-Methylnaphthalene	ND	4.0
2-Methylnaphthalene	ND	4.0
Acetone	ND	10
Bromobenzene	ND	1.0
Bromodichloromethane	ND	1.0
Bromoform	ND	1.0
Bromomethane	ND	3.0
2-Butanone	ND	10
Carbon disulfide	ND	10
Carbon Tetrachloride	ND	1.0
Chlorobenzene	ND	1.0
Chloroethane	ND	2.0
Chloroform	ND	1.0
Chloromethane	ND	3.0
2-Chlorotoluene	ND	1.0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2012772**

30-Dec-20

Client: SIMCOE/Cottonwood Consulting

Project: Sandoval GC A 1A

Sample ID: VSB Fridge SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Sample ID: VSB Fridge	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	n ID: A7	4228	F	RunNo: 7	4228				
Prep Date:	Analysis D	oate: 12	2/23/2020	5	SeqNo: 2	620157	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0						-		
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND ND	2.0								
1,2,3-Tricilioroproparie	טא	2.0								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2012772 30-Dec-20**

Client: SIMCOE/Cottonwood Consulting

Project: Sandoval GC A 1A

Sample ID: VSB Fridge	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch ID: A74228			F	RunNo: 7	4228				
Prep Date:	Analysis Date: 12/23/2020			SeqNo: 2620157			Units: µg/L			
Analyte Result PQL SPK value		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Vinyl chloride	ND	1.0								
Surr: 1,2-Dichloroethane-d4	10		10.00		99.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

Sample ID: mb1	mple ID: mb1 SampType: MBLK			Tes						
Client ID: PBW	Batch	Batch ID: A74244			RunNo: 7	4244				
Prep Date:	Analysis Date: 12/24/2020		SeqNo: 2620789			Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	ND	1.5		_			_			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8 9.7 10.00			97.0	70	130					

Sample ID: 100ng Ics	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batc	Batch ID: A74244			RunNo: 7	4244					
Prep Date:	Analysis Date: 12/24/2020			SeqNo: 2620790			Units: %Red	C			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.8	70	130				
Surr: 4-Bromofluorobenzene	9.8		10.00		97.9	70	130				
Surr: Dibromofluoromethane	9.9		10.00		99.2	70	130				
Surr: Toluene-d8	9.6		10.00		95.5	70	130				

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

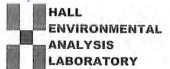
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE, Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

	IMCOE/Cottonwood consulting	Work Order N	umber: 201	2772			RcptNo: 1
Received By:	Desiree Dominguez	12/16/2020 8:00	0:00 AM		D	2	
Completed By:	Emily Mocho	12/16/2020 9:26	6:00 AM				
Reviewed By: 50	GL 12/14/20	2					
Chain of Custo	dy						
1. Is Chain of Cust	tody complete?		Yes	~	No		Not Present
2. How was the sa	mple delivered?		Cou	rier			
Log In							
The Party of the P	made to cool the samples	5?	Yes	V	No		NA 🗆
4. Were all sample	s received at a temperatu	re of >0° C to 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) in pro	oper container(s)?		Yes	~	No		
6. Sufficient sample	e volume for indicated test	(s)?	Yes	V	No		
7. Are samples (exc	cept VOA and ONG) prope	erly preserved?	Yes	V	No		
8. Was preservative	e added to bottles?		Yes		No	V	NA 🗆
9. Received at leas	t 1 vial with headspace <1	/4" for AQ VOA?	Yes	V	No		NA 🗆
10. Were any sampl	e containers received bro	ken?	Yes		No	~	# of preserved
	match bottle labels?		Yes	•	No		bottles checked for pH:
	cies on chain of custody)	15 -2 -5 -	74				(<2 or >12 unless noted) Adjusted?
	rectly identified on Chain on allyses were requested?	of Custody?	Yes	V	No No		Atajustos.
14. Were all holding	times able to be met?		Yes	V	No		Checked by: 10 12/16/2
Special Handling	omer for authorization.)					-	/
	ed of all discrepancies wit	h this order?	Yes		No	П	NA 🗹
Person No			ate:				
By Whom:	7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Vi		ail 🗔	Phone	Fax	☐ In Person
Regarding	*		a. Civi	an []	r none	I ax	
Client Inst							
16. Additional rema	rks:						
		Seal Intact Seal N	o Seal D	ate	Signed I	Ву	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 16474

CONDITIONS

Operator:	OGRID:
SIMCOE LLC	329736
1199 Main Ave., Suite 101	Action Number:
Durango, CO 81301	16474
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Cr	reated By	Condition	Condition Date
n	nichael.buchanan	Review of the 2020 Remediation Report for Sandoval Gas Com A 001A: Content Satisfactory 1. Continue operating and conducting O&M as prescribed for the SVE system on site. 2. When appropriate, advance soil borings in soil to confirm closure requirements have been met for TPH, BTEX and chlorides in soil. 3. Options for re-drilling or replacement will need to be considered for MW#1 and MW3# as both have not produced a viable sample due to insufficient volume since 2013. 4. Continue to submit annual reports and documentation as necessary by April 1 of every calendar year.	1/17/2024