

April 19, 2019

Mr. Michael Timmer
Project Manager, Remedial Action Program
New Mexico Environment Department
Petroleum Storage Tank Bureau
121 Tijeras Ave. NE, Suite 1000
Albuquerque, New Mexico 87102

**RE: In-situ BOS 200[®] Post Injection Implementation Letter Report Chevron Isleta
(FID #30681, RID #314), Deliverable 3999-2**

Dear Mr. Timmer:

AECOM Technical Services (AECOM) is providing this letter report to document the BOS 200[®] in-situ injection at the Chevron Isleta State Lead Site (RID #314) located at 3401 Isleta Boulevard Southwest (Site). The letter report is submitted as required in the Work Plan approval letter dated September 14, 2019 for Implementation and Reporting, Deliverable ID 3999-2. This letter report also documents the results of the pre-injection groundwater sampling performed at the Site on January 9, 2019. AECOM performed these services for the New Mexico Environment Department Petroleum Storage Tank Bureau (NMED PSTB) in accordance with Contract No.18-667-3200-0019.

Pre-injection Groundwater Monitoring

On January 9, 2019 groundwater samples were collected from monitoring wells MW-8A, MW-11A, and MW-26 and submitted for analyses of volatile organic compounds (VOC) by US Environmental Protection Agency method 8260 including total naphthalenes and for total dissolved solids by SM 2540C. The samples were collected by hand bailing three casing volumes. During purging, water quality measurements were collected for temperature, pH, specific conductance, oxidation reduction potential (ORP) and dissolved oxygen (DO). Purge water was discharged to the ground surface to evaporate within the site boundaries. Following well purging, a groundwater sample was collected by slowly lowering a new disposable bailer into the well and decanting into laboratory provided acid-preserved sample containers. Groundwater samples were placed on ice and delivered to Hall Environmental Analytical Laboratory (HEAL) in Albuquerque, NM under chain of custody within the required holding times.

The dissolved benzene concentration from monitoring well MW-8A (12 µg/L) continues to exceed the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 5 µg/L. Total naphthalene concentrations in monitoring wells MW-8A at 61.4 µg/L and MW-11A at 37.9 µg/L, exceeded the NMWQCC groundwater standard of 30 µg/L. Total dissolved solids concentrations were all in the 500 milligram per liter (mg/L) range and did not exceed the NMWQCC groundwater standard of 1,000 mg/L. The results of the pre-injection groundwater sampling are presented in the Table 1. The complete analytical laboratory report is included in Attachment A.

Final Remediation Plan Implementation

Vista Geosciences (Vista), under subcontract to AECOM, performed the BOS 200[®] injection event at the Site from March 14 thru March 16, 2019. An approximate total volume of 2,235 gallons of BOS 200[®] slurry

was injected into the water table over 24 injection points encompassing monitoring wells MW-8A and MW-11A. Included in Attachment B is the detailed injection report for the Site documenting all the injection details, including injection spacing, volumes injected at each location, design mix, site photos and map of injection points. Field notes for the BOS 200[®] injection at the Site are included in Attachment C.

Should you have any question or need additional information please contact Dale Flores at (505) 855-7484 or by email at Dale.Flores@aecom.com.

Yours sincerely,

A handwritten signature in cursive script that reads "Dale J. Flores".

Dale Flores PMP, PG
Project Manager
AECOM

TABLE 1

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes	Ethylene Dibromide	Ethylene Dichloride	Methyl tert Butyl Ether	Total Naphthalenes	TDS (mg/L)
NMWQCC/EIB Standards (µg/L)		5	1000	700	620	0.05	5	100	30	1000
MW-8A	8/29/2012	64	95	2100	7800	<10	<10	<10	1300	
	1/11/2013	22	14	340	1200	<1.0	<1.0	<1.0	250	
	7/15/2013	40	12	260	890	<10	<10	<10	100	
	1/15/2014	19	<10	230	1000	<10	<10	<10	76	
	4/14/2014	65	<10	190	810	<10	<10	<10	87	
	1/30/2015	10	0.81	40	120	<0.50	<0.50	<0.50	21	
	4/29/2015	100	14	110	200	<1.0	<1.0	<1.0	195	
	7/20/2015	85	7.0	53	120	<1.0	<1.0	<1.0	185	
	10/30/2015	60	3.8	53	83	<1.0	<1.0	<1.0	86	
	10/26/2017	21	4.3	32	30	<1.0	<1.0	<1.0	122	
	4/14/2018	18	4.1	35	26	<1.0	<1.0	<1.0	93	
pre-injection	1/9/2019	12	3.4	15	13	<1.0	<1.0	<1.0	61.4	569
MW-11A	8/29/2012	26	<10	230	40	<10	<10	<10	1060	
	1/11/2013	2.5	<1.0	9.7	<1.5	<1.0	<1.0	<1.0	126	
	7/15/2013	13	<1.0	9.3	<1.5	<1.0	<1.0	<1.0	81	
	1/15/2014	4.3	<1.0	7.2	<1.5	<1.0	<1.0	<1.0	58	
	4/14/2014	1.6	<1.0	13	3.3	<1.0	<1.0	<1.0	40.5	
	1/30/2015	5.4	<0.50	4.7	<1.5	<0.50	<0.50	<0.50	43	
	4/29/2015	13	1.3	27	15	<1.0	<1.0	<1.0	86	
	7/20/2015	6.6	1.1	7.1	3.9	<1.0	<1.0	<1.0	106	
	10/30/2015	2.9	<1.0	3.4	<1.5	<1.0	<1.0	<1.0	45.7	
	10/26/2017	<1.0	<1.0	5.4	<1.5	<1.0	<1.0	<1.0	120	
	4/17/2018	<1.0	<1.0	3.6	<1.5	<1.0	<1.0	<1.0	54.7	
pre-injection	1/9/2019	<1.0	<1.0	4.6	<1.0	<1.0	<1.0	<1.0	37.9	519
MW-26	10/8/1999	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	12/10/1999	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	12/18/2000	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	2/20/2001	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	5/30/2001	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	8/20/2001	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	12/6/2001	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	3/8/2002	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	5/30/2002	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	9/9/2002	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	8/26/2003	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	1/29/2004	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	4/16/2004	NS	NS	NS	NS	NS	NS	NS	NS	
	5/10/2007	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	11/12/2007	BDL	BDL	BDL	BDL	NA	NA	BDL	BDL	
	9/16/2011	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0	
	8/29/2012	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0	
	1/11/2013	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0	
	7/15/2013	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0	
	1/15/2014	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0	
	4/14/2014	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<4.0	
	1/30/2015	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<2.5	
	4/29/2015	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<10.0	
	7/20/2015	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<10.0	
	10/30/2015	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<10.0	
	10/26/2017	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<10.0	
	4/17/2018	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<10.0	
pre-injection	1/9/2019	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<10.0	524

mg/L milligram(s) per liter

µg/L microgram(s) per liter

NMWQCC/EIB NM Water Quality Control Commission/Environmental Improvement Board

NS Not sampled

BDL below detection limit

TDS total dissolved solids

ATTACHMENT A
PRE-INJECTION ANALYTICAL LABORATORY REPORT



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

January 17, 2019

Dale Flores

AECOM ABQ

6501 Americas Parkway NE Suite 900

Albuquerque, NM 87110

TEL:

FAX

RE: Chevron Isleta

OrderNo.: 1901378

Dear Dale Flores:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/9/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1901378

Date Reported: 1/17/2019

CLIENT: AECOM ABQ

Client Sample ID: MW-8A

Project: Chevron Isleta

Collection Date: 1/9/2019 11:35:00 AM

Lab ID: 1901378-001

Matrix: AQUEOUS

Received Date: 1/9/2019 3:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	569	20.0	*	mg/L	1	1/12/2019 4:04:00 PM	42548
EPA METHOD 8260B: VOLATILES							Analyst: AG
Benzene	12	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Toluene	3.4	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Ethylbenzene	15	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,2,4-Trimethylbenzene	1.7	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,3,5-Trimethylbenzene	1.1	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Naphthalene	42	2.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1-Methylnaphthalene	9.4	4.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
2-Methylnaphthalene	10	4.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Acetone	ND	10		µg/L	1	1/12/2019 2:08:44 AM	A56955
Bromobenzene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Bromodichloromethane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Bromoform	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Bromomethane	ND	3.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
2-Butanone	ND	10		µg/L	1	1/12/2019 2:08:44 AM	A56955
Carbon disulfide	ND	10		µg/L	1	1/12/2019 2:08:44 AM	A56955
Carbon Tetrachloride	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Chlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Chloroethane	ND	2.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Chloroform	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Chloromethane	ND	3.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
2-Chlorotoluene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
4-Chlorotoluene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
cis-1,2-DCE	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Dibromochloromethane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Dibromomethane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,1-Dichloroethane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,1-Dichloroethene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,2-Dichloropropane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1901378

Date Reported: 1/17/2019

CLIENT: AECOM ABQ

Client Sample ID: MW-8A

Project: Chevron Isleta

Collection Date: 1/9/2019 11:35:00 AM

Lab ID: 1901378-001

Matrix: AQUEOUS

Received Date: 1/9/2019 3:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,3-Dichloropropane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
2,2-Dichloropropane	ND	2.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,1-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Hexachlorobutadiene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
2-Hexanone	ND	10		µg/L	1	1/12/2019 2:08:44 AM	A56955
Isopropylbenzene	9.8	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
4-Isopropyltoluene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
4-Methyl-2-pentanone	ND	10		µg/L	1	1/12/2019 2:08:44 AM	A56955
Methylene Chloride	ND	3.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
n-Butylbenzene	ND	3.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
n-Propylbenzene	19	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
sec-Butylbenzene	1.6	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Styrene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
tert-Butylbenzene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
trans-1,2-DCE	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Trichlorofluoromethane	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Vinyl chloride	ND	1.0		µg/L	1	1/12/2019 2:08:44 AM	A56955
Xylenes, Total	13	1.5		µg/L	1	1/12/2019 2:08:44 AM	A56955
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	1/12/2019 2:08:44 AM	A56955
Surr: 4-Bromofluorobenzene	79.9	70-130		%Rec	1	1/12/2019 2:08:44 AM	A56955
Surr: Dibromofluoromethane	105	70-130		%Rec	1	1/12/2019 2:08:44 AM	A56955
Surr: Toluene-d8	100	70-130		%Rec	1	1/12/2019 2:08:44 AM	A56955

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1901378

Date Reported: 1/17/2019

CLIENT: AECOM ABQ

Client Sample ID: MW-11A

Project: Chevron Isleta

Collection Date: 1/9/2019 11:15:00 AM

Lab ID: 1901378-002

Matrix: AQUEOUS

Received Date: 1/9/2019 3:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	519	20.0	*	mg/L	1	1/12/2019 4:04:00 PM	42548
EPA METHOD 8260B: VOLATILES							Analyst: AG
Benzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Toluene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Ethylbenzene	4.6	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Naphthalene	29	2.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1-Methylnaphthalene	8.9	4.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
2-Methylnaphthalene	ND	4.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Acetone	ND	10		µg/L	1	1/12/2019 2:37:05 AM	A56955
Bromobenzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Bromodichloromethane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Bromoform	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Bromomethane	ND	3.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
2-Butanone	ND	10		µg/L	1	1/12/2019 2:37:05 AM	A56955
Carbon disulfide	ND	10		µg/L	1	1/12/2019 2:37:05 AM	A56955
Carbon Tetrachloride	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Chlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Chloroethane	ND	2.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Chloroform	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Chloromethane	ND	3.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
2-Chlorotoluene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
4-Chlorotoluene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
cis-1,2-DCE	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Dibromochloromethane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Dibromomethane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,1-Dichloroethane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,1-Dichloroethene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,2-Dichloropropane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1901378

Date Reported: 1/17/2019

CLIENT: AECOM ABQ

Client Sample ID: MW-11A

Project: Chevron Isleta

Collection Date: 1/9/2019 11:15:00 AM

Lab ID: 1901378-002

Matrix: AQUEOUS

Received Date: 1/9/2019 3:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,3-Dichloropropane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
2,2-Dichloropropane	ND	2.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,1-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Hexachlorobutadiene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
2-Hexanone	ND	10		µg/L	1	1/12/2019 2:37:05 AM	A56955
Isopropylbenzene	20	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
4-Isopropyltoluene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
4-Methyl-2-pentanone	ND	10		µg/L	1	1/12/2019 2:37:05 AM	A56955
Methylene Chloride	ND	3.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
n-Butylbenzene	ND	3.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
n-Propylbenzene	28	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
sec-Butylbenzene	4.0	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Styrene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
tert-Butylbenzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
trans-1,2-DCE	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Trichlorofluoromethane	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Vinyl chloride	ND	1.0		µg/L	1	1/12/2019 2:37:05 AM	A56955
Xylenes, Total	ND	1.5		µg/L	1	1/12/2019 2:37:05 AM	A56955
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	1/12/2019 2:37:05 AM	A56955
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	1/12/2019 2:37:05 AM	A56955
Surr: Dibromofluoromethane	100	70-130		%Rec	1	1/12/2019 2:37:05 AM	A56955
Surr: Toluene-d8	99.7	70-130		%Rec	1	1/12/2019 2:37:05 AM	A56955

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1901378

Date Reported: 1/17/2019

CLIENT: AECOM ABQ

Client Sample ID: MW-26

Project: Chevron Isleta

Collection Date: 1/9/2019 10:40:00 AM

Lab ID: 1901378-003

Matrix: AQUEOUS

Received Date: 1/9/2019 3:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	524	40.0	*D	mg/L	1	1/12/2019 4:04:00 PM	42548
EPA METHOD 8260B: VOLATILES							Analyst: AG
Benzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Toluene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Ethylbenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Naphthalene	ND	2.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1-Methylnaphthalene	ND	4.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
2-Methylnaphthalene	ND	4.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Acetone	ND	10		µg/L	1	1/12/2019 3:05:25 AM	A56955
Bromobenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Bromodichloromethane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Bromoform	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Bromomethane	ND	3.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
2-Butanone	ND	10		µg/L	1	1/12/2019 3:05:25 AM	A56955
Carbon disulfide	ND	10		µg/L	1	1/12/2019 3:05:25 AM	A56955
Carbon Tetrachloride	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Chlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Chloroethane	ND	2.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Chloroform	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Chloromethane	ND	3.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
2-Chlorotoluene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
4-Chlorotoluene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
cis-1,2-DCE	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Dibromochloromethane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Dibromomethane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,1-Dichloroethane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,1-Dichloroethene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,2-Dichloropropane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1901378

Date Reported: 1/17/2019

CLIENT: AECOM ABQ

Client Sample ID: MW-26

Project: Chevron Isleta

Collection Date: 1/9/2019 10:40:00 AM

Lab ID: 1901378-003

Matrix: AQUEOUS

Received Date: 1/9/2019 3:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: AG	
1,3-Dichloropropane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
2,2-Dichloropropane	ND	2.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,1-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Hexachlorobutadiene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
2-Hexanone	ND	10		µg/L	1	1/12/2019 3:05:25 AM	A56955
Isopropylbenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
4-Isopropyltoluene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
4-Methyl-2-pentanone	ND	10		µg/L	1	1/12/2019 3:05:25 AM	A56955
Methylene Chloride	ND	3.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
n-Butylbenzene	ND	3.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
n-Propylbenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
sec-Butylbenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Styrene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
tert-Butylbenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
trans-1,2-DCE	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Trichlorofluoromethane	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Vinyl chloride	ND	1.0		µg/L	1	1/12/2019 3:05:25 AM	A56955
Xylenes, Total	ND	1.5		µg/L	1	1/12/2019 3:05:25 AM	A56955
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	1/12/2019 3:05:25 AM	A56955
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/12/2019 3:05:25 AM	A56955
Surr: Dibromofluoromethane	105	70-130		%Rec	1	1/12/2019 3:05:25 AM	A56955
Surr: Toluene-d8	103	70-130		%Rec	1	1/12/2019 3:05:25 AM	A56955

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1901378

Date Reported: 1/17/2019

CLIENT: AECOM ABQ

Client Sample ID: Trip Blank

Project: Chevron Isleta

Collection Date:

Lab ID: 1901378-004

Matrix: TRIP BLANK

Received Date: 1/9/2019 3:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
Benzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Toluene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Ethylbenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Naphthalene	ND	2.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1-Methylnaphthalene	ND	4.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
2-Methylnaphthalene	ND	4.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Acetone	ND	10		µg/L	1	1/12/2019 3:33:47 AM	A56955
Bromobenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Bromodichloromethane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Bromoform	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Bromomethane	ND	3.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
2-Butanone	ND	10		µg/L	1	1/12/2019 3:33:47 AM	A56955
Carbon disulfide	ND	10		µg/L	1	1/12/2019 3:33:47 AM	A56955
Carbon Tetrachloride	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Chlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Chloroethane	ND	2.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Chloroform	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Chloromethane	ND	3.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
2-Chlorotoluene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
4-Chlorotoluene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
cis-1,2-DCE	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Dibromochloromethane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Dibromomethane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,1-Dichloroethane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,1-Dichloroethene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,2-Dichloropropane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,3-Dichloropropane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
2,2-Dichloropropane	ND	2.0		µg/L	1	1/12/2019 3:33:47 AM	A56955

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1901378

Date Reported: 1/17/2019

CLIENT: AECOM ABQ

Client Sample ID: Trip Blank

Project: Chevron Isleta

Collection Date:

Lab ID: 1901378-004

Matrix: TRIP BLANK

Received Date: 1/9/2019 3:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: AG
1,1-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Hexachlorobutadiene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
2-Hexanone	ND	10		µg/L	1	1/12/2019 3:33:47 AM	A56955
Isopropylbenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
4-Isopropyltoluene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
4-Methyl-2-pentanone	ND	10		µg/L	1	1/12/2019 3:33:47 AM	A56955
Methylene Chloride	ND	3.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
n-Butylbenzene	ND	3.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
n-Propylbenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
sec-Butylbenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Styrene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
tert-Butylbenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
trans-1,2-DCE	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Trichlorofluoromethane	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Vinyl chloride	ND	1.0		µg/L	1	1/12/2019 3:33:47 AM	A56955
Xylenes, Total	ND	1.5		µg/L	1	1/12/2019 3:33:47 AM	A56955
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	1/12/2019 3:33:47 AM	A56955
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/12/2019 3:33:47 AM	A56955
Surr: Dibromofluoromethane	103	70-130		%Rec	1	1/12/2019 3:33:47 AM	A56955
Surr: Toluene-d8	101	70-130		%Rec	1	1/12/2019 3:33:47 AM	A56955

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901378

17-Jan-19

Client: AECOM ABQ

Project: Chevron Isleta

Sample ID	100ng lcs	SampType: LCS			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	LCSW	Batch ID: A56955			RunNo: 56955					
Prep Date:		Analysis Date: 1/11/2019			SeqNo: 1905325		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	20	1.0	20.00	0	97.6	70	130			
Chlorobenzene	20	1.0	20.00	0	98.0	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	102	70	130			
Trichloroethene (TCE)	19	1.0	20.00	0	93.7	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID	rb	SampType: MBLK			TestCode: EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID: A56955			RunNo: 56955					
Prep Date:		Analysis Date: 1/11/2019			SeqNo: 1905336		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 Quantitative 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 Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901378

17-Jan-19

Client: AECOM ABQ

Project: Chevron Isleta

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	A56955	RunNo:	56955					
Prep Date:		Analysis Date:	1/11/2019	SeqNo:	1905336	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 Quantitative 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 Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901378

17-Jan-19

Client: AECOM ABQ

Project: Chevron Isleta

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260B: VOLATILES					
Client ID:	PBW	Batch ID:	A56955	RunNo:	56955					
Prep Date:		Analysis Date:	1/11/2019	SeqNo:	1905336	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	11		10.00		111	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	11		10.00		111	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 Quantitative 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 Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1901378

17-Jan-19

Client: AECOM ABQ

Project: Chevron Isleta

Sample ID	MB-42548	SampType: MBLK			TestCode: SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID: 42548			RunNo: 56950					
Prep Date:	1/10/2019	Analysis Date: 1/12/2019			SeqNo: 1905195		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-42548	SampType: LCS			TestCode: SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID: 42548			RunNo: 56950					
Prep Date:	1/10/2019	Analysis Date: 1/12/2019			SeqNo: 1905196		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			

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 Quantitative 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 Detection Limit
W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: **AECOM ABQ**

Work Order Number: **1901378**

RcptNo: **1**

Received By: **Erin Melendrez** 1/9/2019 3:04:00 PM

Completed By: **Desiree Dominguez** 1/10/2019 1:31:41 PM

Reviewed By: **ENM**

LB DAD 1/10/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐

5. Sample(s) in proper container(s)? Approved by client. Yes ☒ No ☐

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? Yes ☐ No ☒ NA ☐

9. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? ☐

Checked by: **DAD 1/10/19**

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	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	6.9	Good	Yes			

Chain-of-Custody Record				Turn-Around Time:		
Client: <u>AECOM</u>		☒ Standard ☐ Rush		Project Name: <u>Chevron Isleta</u>		
Mailing Address: <u>6501 Americas Parkway NE</u>		Project #: <u>60577971</u>		Project Manager: <u>Dele Flores</u>		
Phone #: <u>505-855-7500</u>		Sampler: <u>T. Grayke/ S. Frederick</u>		On Ice: ☒ Yes ☐ No		
email or Fax#: <u>dele.flores@aecom.com</u>		# of Coolers: <u>1</u>		Cooler Temp (including cpi): <u>6.9°C</u>		
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)		Accreditation: ☐ AZ Compliance ☐ NELAC ☐ Other		HEAL No. <u>1901378</u>		
Date		Time	Matrix	Sample Name	Container Type and #	Preservative Type
1-9-19	1135	GW	MW-8A	3, 40 mL / 1500 mL	HgCl ₂ /None	-001
1-9-19	1115	GW	MW-11A	3, 40 mL / 1500 mL	HgCl ₂ /None	-002
1-9-19	1040	GW	MW-26	3, 40 mL / 1500 mL	HgCl ₂ /None	-003
1-9-19	-	-	Trip Blank	2, 40 mL	HgCl ₂	-004
Date		Time	Relinquished by:	Received by:	Via: <u>CDO</u>	Date
1-9-19	1504	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>1/9/19</u>	Time <u>1504</u>
Date	Time	Relinquished by:	Received by:	Via:	Date	Time

Turn-Around Time:		
☒ Standard	☐ Rush	
Project Name: Chevron Isleta		
Project #: 60577971		
Project Manager: Dale Flores		
Sampler: T-Gallardo, S. Frederick		
On Ice:	☒ Yes ☐ No	
# of Coolers:	1	
Cooler Temp (including CF): 6.9°C		
Container Type and #	Preservative Type	HEAL No.
3, 40 ml / 1500 ml	HgCl ₂ /None	1901378 - 001
3, 40 ml / 1,500 ml	HgCl ₂ /None	- 002
3, 40 ml / 1,500 ml	HgCl ₂ /None	- 003
2, 40 ml	HgCl ₂	- 004
Received by: 	Via: CDO	Date: 1/9/19
Received by: 	Via: 	Date: 1/9/19

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Remarks:

Received by: <i>WAB</i>	Via: CDO	Date: 1/9/19	Time: 1504
Received by:	Via:	Date:	Time:

Date:	1-9-19	Time:	15:04	Relinquished by:	
Date:		Time:		Relinquished by:	

ATTACHMENT B
BOS 200™ IMPLEMENTATION REPORT
CHEVRON ISLETA



*Expert Environmental
Support Services for Site
Investigation & Remediation*

April 3, 2019

Eddie Hubbert

AECOM

6501 Americas Parkway NE, Suite 900
Albuquerque, NM 87110-6367

E-Mail: edward.hubbert@aecom.com

**Re: Vista GeoScience Injection Report No: 18069.01
Application of RPI BOS 200® for In-Situ Remediation of Contaminants at:
Former Chevron Isleta, 3401 Isleta Boulevard SW, Albuquerque, NM**

Dear Eddie:

Following is our summary report of the RPI Group BOS200 In-Situ injection event that took place at 3401 Isleta Boulevard SW, Albuquerque, NM.

Feel free to contact us if you have any questions. We look forward to working with you in the future.

Regards,

Peter Wethington

Environmental Geologist

pwethington@vistageoscience.com

Reviewed By:

Jeffrey Zajdel

Field Operations Manager



Vista GeoScience Injection Report No: 18069.01

Application of RPI BOS-200® for the In-Situ Remediation of Petroleum Contaminants at: Former Chevron Isleta 3401 Isleta Boulevard SW, Albuquerque, NM



Prepared for:

AECOM

April 3, 2019

Contents

1	Overview	4
1.1	TABLE: Vertical spacing of injection intervals	4
1.2	TABLE: Injection Design	5
2	Injection Event	6
3	Site Photos	7
4	Injection Locations Map	8
5	Injection Logs and Field Notes	9

1 OVERVIEW

Vista Geoscience (Vista) performed an in-situ remediation injection event at 3401 Isleta Boulevard SW in Albuquerque, NM to treat contaminants in the soil and groundwater. The mix design used 1200 pounds of BOS 200 two gallons of Bacteria Concentrate mixed with water to create approximately a 2,235-gallon slurry to be injected over 24 injection locations. Of the 24 injection locations, 12 locations were located around MW-8A onsite and 12 surrounding MW-11A. The following information details the final injection designs as adjusted for field conditions and summarizes injection activities onsite.

1.1 TABLE: Vertical spacing of injection intervals

Vertical amendment injection intervals were spaced at two-foot intervals as follows:

All Areas Even Spacing	All Areas Odd Spacing
6	7
8	9
10	11
12	13
14	15

1.2 TABLE: Injection Design

		MW-8A	MW-11A	Totals
Site Information	Predominate Geology of Treatment Zone	Fine-medium sand with minor gravel, silt, and clay		
	Treatment Zone Area (ft ²)	450	450	900
	Contamination Depth Start (ft bgs)	6.0	6.0	
	Contamination Depth End (ft bgs)	15.0	15.0	
	Treatment Volume (yd ³)	150.0	150.0	300
	Triangular Grid Spacing (ft)	6.0	6.0	
	Number of Injection Points - Design	12	12	24
	Injection Interval Distance (ft)	2	2	
	Number of Injection Intervals per Point - Design	5.0	5.0	
	Total Number of Injection Intervals	60	60	120
Speciated COC Design Calculations	Contaminant of Concern	Benzene	Naphthalene	
	Design Basis Soil (mg/kg) or Groundwater (mg/L)	Groundwater	Groundwater	
	Design Concentration	0.100	0.120	
	Design Endpoint	0.010	0.030	
	BOS 200 per Injection Interval - Design (lb)	10.0	10	
	BOS 200 Slurry Volume per Interval (gal)	10-15	10-15	
	Average BOS 200 per Injection Point (lb)	50	50	
	BOS 200 Total (lb)	600	600	1,200
Design Basis	Select Speciated or TPH	Speciated	Speciated	
	Design BOS 200 Total per Area (lb)	600	600	1,200
Trap & Treat Bacteria Calculations	Bacteria Concentrate (gal)	1	1	5

2 INJECTION EVENT

On March 14, 2019 Vista arrived at 3401 Isleta Boulevard SW in Albuquerque, NM with a Geoprobe brand model 7822DT drill rig and a Clean Inject™ brand injection trailer to begin remediation efforts onsite. Each injection location was marked by an AECOM representative prior to Vista arriving onsite. Vista began by setting up all injection equipment onsite which was mobilized from a different BOS 200 job completed in Belen, NM with AECOM. Injections were completed over two days onsite, with 12 locations being completed on March 15 and March 16, respectively. Water was sourced from a spicket on the Walgreens. For specifics regarding injection loadings at each location please reference the attached injection logs found in section 5 of this document.

At the beginning of each work day, a tailgate safety meeting was conducted, and a work exclusion zone was put in place. At the end of each work day, all equipment was safely stored and locked in the injection trailer. Each injection location was backfilled with bentonite and packed with a probe rod to ensure proper abandonment. Any surfaced product was washed down the gutter and into a storm drain as per client's request. Site cleanup took place after both rounds of injections. Cleanup involved washing the asphalt with a pressure washer, concrete patching injection locations in the parking area, and packing up all equipment on site.

3 SITE PHOTOS



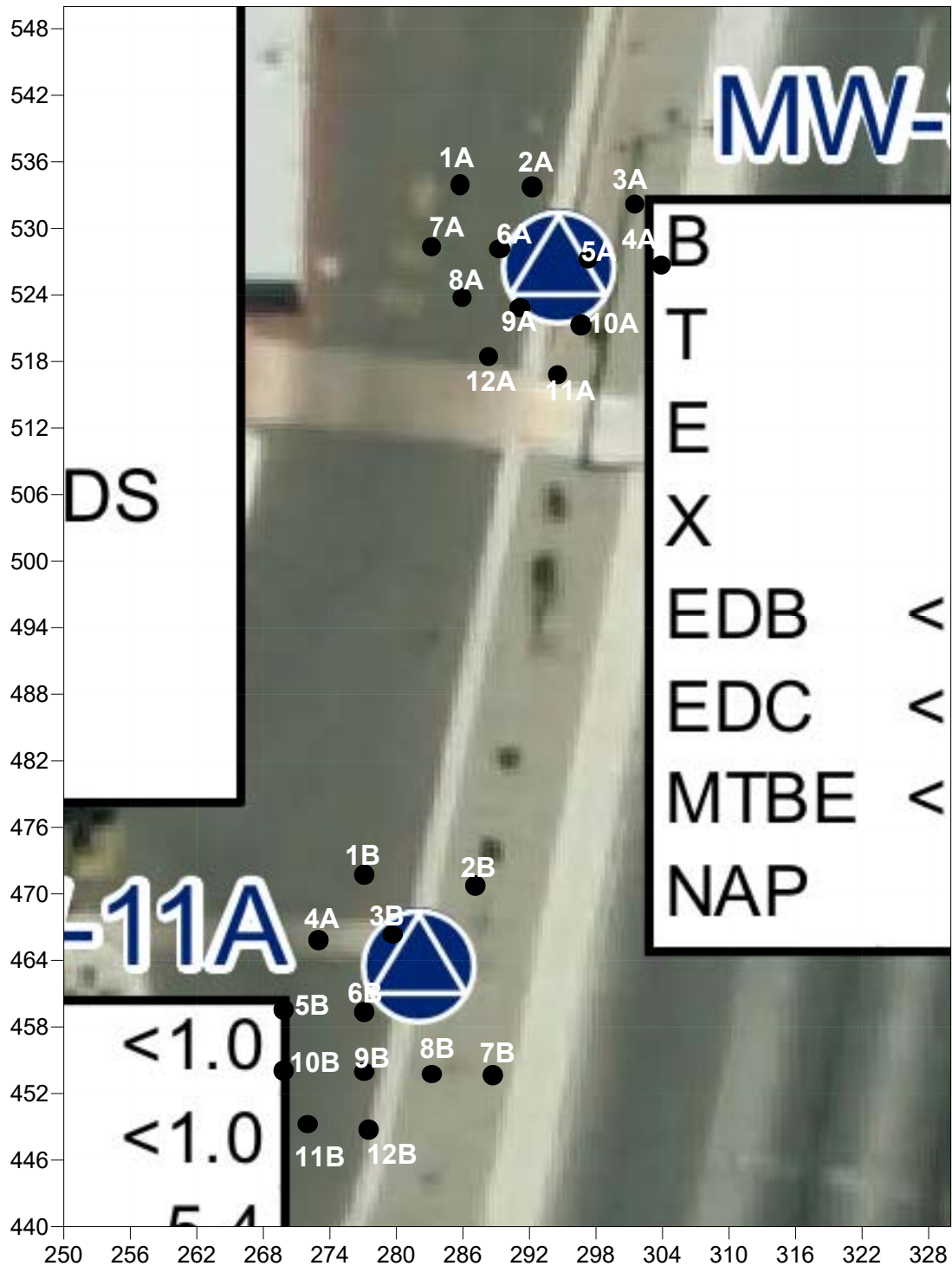
View of MW-11 injection area



View of MW-08 injection area

4 INJECTION LOCATIONS MAP

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130 Capital Drive, #C
Golden, Colorado 80401
PH: 303-277-1694
FAX: 303-278-0104
www.VistaGeoScience.com

Injection Locations

AECOM
Chevron Isleta
3401 Isleta Boulevard SW
Albuquerque, NM

Drafted: 3/20/19
Drafted by: JSZ and PW
Base Map: client or base map
Scale: 1inch = 15 feet

5 INJECTION LOGS AND FIELD NOTES

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Injection Log

Project No.:		Former Chevron Isleta				BOS 200				Inj. Tool:		5/32 5-Hole		Date:		3/15/2019	
Client:		AECOM				Trap and Treat Bacteria				Inj. Rig:		VGS-45 Flatbed 3-Axle 18,000 GVW (Trailer - 5th Wheel,					
Site Address:		4301 Isleta Blvd SW, Albuquerque, NM				0				Drill Rig:		VGS-38 7822DT Geoprobe		Crew		PW, LT, CD	
						0				Drill Rig:							
						0											

Injection Log

Project No.: Former Chevron Isleta						BOS 200						Inj. Tool: 5/32 5-Hole		Date: 3/15/2019	
Client: AECOM						Trap and Treat Bacteria						Inj. Rig: VGS-45 Flatbed 3-Axle 18,000 GVW (Trailer - 5th Wheel)		Crew:	
Site Address: 4301 Isleta Blvd SW, Albuquerque, NM						Injected Products: 0						Drill Rig: VGS-38 7822DT Geoprobe		Crew: PW, LT, CD	
						0						Drill Rig:			

Injection Log

Project No.:		Former Chevron Isleta						BOS 200				Inj. Tool:		5/32 5-Hole		Date:		3/15/2019	
Client:		AECOM						Trap and Treat Bacteria				Inj. Rig:		VGS-45 Flatbed 3-Axle 18,000 GVW (Trailer - 5th Wheel)					
Site Address:		4301 Isleta Blvd SW, Albuquerque, NM				Injected Products:		0				Drill Rig:		VGS-38 7822DT Geoprobe		Crew		PW, LT, CD	
								0				Drill Rig:							

Injection Log

Project No.:		Former Chevron Isleta				BOS 200				Inj. Tool:		5/32 5-Hole		Date:		3/16/2019	
Client:		AECOM				Trap and Treat Bacteria				Inj. Rig:		VGS-45 Flatbed 3-Axle 18,000 GVW (Trailer - 5th Wheel)		Crew:		PW,CD,LT	
Site Address:		4301 Isleta Blvd SW, Albuquerque, NM				Injected Products:				Drill Rig:		VGS-38 7822DT Geoprobe					
						0				Drill Rig:							
						0											
						0											

Injection location ID	Start Time	End Time	Interval (Ft. BGS)	BOS 200 (lbs)	Bacteria (mL)	Injected Product 3	Injected Product 4	Injected Product 5	Injected Product 6	Mixed H2O (gal)	Cumulative Injected (gal)	Avg PSI	Avg. Flow Rate (gpm)	Notes/Comments:	Flow & pressure Graphs
IP-10B	9:34	9:35	6	10	63					12	15	100	12	Pump at 26Hz, well head leaking, had to stop momentarily, rod was clogged, pulled and repushed	
	9:50	9:50	8	10	63					12	15	280	18		
	9:57	9:57	10	10	63					12	15	150	21		
	9:58	9:59	12	10	63					12	15	250	19		
	10:00	10:01	14	10	63					12	15	190	19		
				50	315	0	0	0	0	60	75				
IP-11B	8:55	8:57	7	10	63					12	15	450	11	Pump at 26Hz Pump at 26Hz rod clogged, pulled, cleaned, repushed, pump at 26Hz for second try	
	9:01	9:02	9	10	63					12	15	400	11		
	9:31	9:33	11	10	63					12	15	200	12		
	9:36	9:37	13	10	63					12	15	340	18		
	9:55	9:56	15	10	63					12	15	110	19		
				50	315	0	0	0	0	60	75				
IP-9B	10:15	10:16	7	10	63					12	15	110	20	Seems the rod is clogged Pump at 40Hz unless stated otherwise	
	10:18	10:19	9	10	63					12	15	75	21		
	10:20	10:21	11	10	63					12	15	165	21		
	10:26	10:28	13	10	63					12	15	750	6		
	10:32	10:34	15	10	63					12	15	900	6		
				50	315	0	0	0	0	60	75				
IP-12B	10:17	10:18	6	10	63					12	15	70	21		
	10:19	10:20	8	10	63					12	15	265	19		
	10:24	10:25	10	10	63					12	15	100	22		
	10:27	10:28	12	10	63					12	15	150	20		
	10:35	10:36	14	10	63					12	15	220	19		
				50	315	0	0	0	0	60	75				

Injection Log

[illegible]

Injection Log

[illegible]

Check Boxes as Completed

V:\HealthSafety\FORMS\Daily H&S Tailgate Meeting Checklist

Vista GeoScience Daily Drilling Services Report

This is NOT an invoice, but the information will be used for invoicing purposes.
To be completed at the end of each day and signed by Vista GeoScience and Client Representatives.

PROJECT INFORMATION		VISTA Project#: <u>18069.01</u>	DATE: <u>3/14/19</u>	RIG: <u>7720DT</u>
Vista Field Engineers: <u>PW, CD, LT</u>		Utility Locate Ticket Number:		
Client: <u>AECOM</u>		Site Manager: <u>Eddy</u>		
Client Project Name:		Client Project Number:		
Site Description: <u>Walgreen parking lot</u>		Site Address: <u>3401 Isleta Blvd SW</u>		

DAILY TIME REPORT		(use 24-hour clock)	Time Exceeded 4 Hr Min: <u>YES</u> / NO
Day Number: <u>0715</u>	Total Hours on Site: <u>3.25</u>	Mobilization Mileage:	
Time Requested on Location: <u>13:30</u>	Client's Standby Hours: <u>/</u>	To Site: <u>90</u>	
Time on Location: <u>1330</u>	- Vista's Standby Hours: <u>/</u>	Return: <u>7</u>	
Time off Location: <u>16:45</u>	- Lunch / Break Hours: <u>/</u>	Total: <u>97</u>	
Lunch Break - From: <u>/</u> To: <u>/</u>	= Total Bill Hours @ Level: <u>10</u>	Drive Hours: <u>2.25</u>	

Standby Sessions (describe):

EXPENDABLES USED AND DAMAGED TOOLS (circle or fill in bracketed items)

QTY	ITEM	QTY	ITEM
LINERS/TUBING		ABANDONMENT MATERIALS	
[]	1" Soil Core Liners (ea) Type:	[]	Bentonite [Granular], [Chip], [Powder] (50# bag)
[]	1" Soil Core Liners (ea) Type:	[]	Silica Sand (50# bag)
[]	Other Liners: []	[]	Portland Cement (94# bag)
[]	[1/4"], [3/8"] or [1/2"] Polyethylene Tubing (ft)	[]	[Asphalt Patch], [Concrete] (____ lb. bag)
[]	3/8" Silicone Tubing (ft)	[]	
[]	Other Tubing: []	[]	

QTY	ITEM	QTY	ITEM
EXPENDABLES/PVC		RENTAL EQUIPMENT/CONTRACT:	
[]	1" Expendable Points (ea):	[]	Pump: []
[]	1" [Grip Anchor Point] or [Expendable Cutting Shoe] (circle)	[]	[PID/OVM] or [LandTec]
[]	1" x 5' PVC Riser (section) Sch []	[]	Exhaust Fan / Ductwork / CO Monitor
[]	1" x 10' PVC Riser (section) Sch []	[]	Subcontracted Concrete Coring / Barricading
[]	1" x 5' PVC Screen (section) Sch []	[]	3.25" Casing and Auger Add-On
[]	1" x 10' PVC Screen (section) Sch []	[]	[Decon] or [Support] Trailer / Truck
[]	1" TFJ PVC Plug/Cap (ea)	[]	Gamma Logger
[]	1" PVC Slip Cap (ea)	[]	Core Drill: []" x []" x []"
[]		[]	Generator

QTY	ITEM	QTY	ITEM
SUPPLIES		Additional Items Used / Damaged Tools / PPE:	
[]	1" J-Plug and Lock (set)	[]	
[]	1" x []' Prepacked Screen (ea)	[]	
[]	Flush-Mount Traffic Cover []" Diameter	[]	
[]	4" x 4" x 5' Sq. Steel Protective Well Cover/Riser	[]	
[]	Concrete Anchor Bolts	[]	
[]	[30] or [55] gallon Drum, each	[]	

APPROVALS & SIGNATURES	
Vista Field Engineer: <u>[Signature]</u>	Client's Supervisor: <u>[Signature]</u>

NOTES:		Samples Returned to Vista Lab ☐
<u>Moved all equipment to site</u>		
OPS DPT footage: []	OPS 1" Well Material Footage: []	OPS Auger Footage: []
OPS 2" Well Material Footage: []	#Total Test Holes: []	#Cores: []
H2O Samples: []	Gamma Log Ft: []	Total Drilled Ft: []
Well Ft: []	#Wells: []	

Vista GeoScience Daily Drilling Services Report

This is NOT an invoice, but the information will be used for invoicing purposes.
To be completed at the end of each day and signed by Vista GeoScience and Client Representatives.

PROJECT INFORMATION		VISTA Project#: <u>18069.01</u>	DATE: <u>3/15/19</u>	RIG: <u>7720DT</u>
Vista Field Engineers: <u>FW, CD, LT</u>		Utility Locate Ticket Number:		
Client: <u>AE COM</u>		Site Manager: <u>Eddy</u>		
Client Project Name:		Client Project Number:		
Site Description: <u>Walgreen Parking Lot</u>		Site Address: <u>3401 Isleta Blvd SW</u>		

DAILY TIME REPORT		(use 24-hour clock)	Time Exceeded 4 Hr Min: <u>YES</u> / NO
Day Number: <u>2</u>	Total Hours on Site: <u>9.5</u>	Mobilization Mileage:	
Time Requested on Location: <u>0730</u>	Client's Standby Hours: <u>/</u>	To Site: <u>7</u>	
Time on Location: <u>0730</u>	- Vista's Standby Hours: <u>/</u>	Return: <u>7</u>	
Time off Location: <u>17:00</u>	- Lunch / Break Hours: <u>/</u>	Total: <u>14</u>	
Lunch Break - From: <u>/</u> To: <u>/</u>	= Total Bill Hours @ Level: <u>D</u> : <u>9.5</u>	Drive Hours: <u>0.5</u>	
Standby Sessions (describe):			

EXPENDABLES USED AND DAMAGED TOOLS		(circle or fill in bracketed items)	
QTY	ITEM	QTY	ITEM
LINERS/TUBING		ABANDONMENT MATERIALS	
[]	' Soil Core Liners (ea) Type:	<u>5</u>	Bentonite [Granular], [Chip], [Powder] (50# bag)
[]	' Soil Core Liners (ea) Type:		Silica Sand (50# bag)
	Other Liners: []		Portland Cement (94# bag)
	[1/4"], [3/8"] or [1/2"] Polyethylene Tubing (ft)		[Asphalt Patch], [Concrete] (lb. bag)
	3/8" Silicone Tubing (ft)		
	Other Tubing: []		
EXPENDABLES/PVC		RENTAL EQUIPMENT/CONTRACT:	
[]	" Expendable Points (ea):		Pump: []
[]	" [Grip Anchor Point] or [Expendable Cutting Shoe] (circle)		[PID/OVM] or [LandTec]
[]	" x 5' PVC Riser (section) Sch []		Exhaust Fan / Ductwork / CO Monitor
[]	" x 10' PVC Riser (section) Sch []		Subcontracted Concrete Coring / Barricading
[]	" x 5' PVC Screen (section) Sch []		3.25" Casing and Auger Add-On
[]	" x 10' PVC Screen (section) Sch []		[Decon] or [Support] Trailer / Truck
[]	" TFJ PVC Plug/Cap (ea)		Gamma Logger
[]	" PVC Slip Cap (ea)		Core Drill: []" x []" x []"
			Generator
SUPPLIES		<u>1</u>	<u>Injection setup</u>
[]	" J-Plug and Lock (set)	Additional Items Used / Damaged Tools / PPE:	
[]	" x []' Prepacked Screen (ea)	<u>2</u>	<u>1" valves SS</u>
	Flush-Mount Traffic Cover []" Diameter	<u>1</u>	<u>Tiger mag O-ring</u>
	4" x 4" x 5' Sq. Steel Protective Well Cover/Riser		<u>(forgot to put it on originally)</u>
	Concrete Anchor Bolts		
	[30] or [55] gallon Drum, each		

APPROVALS & SIGNATURES	
Vista Field Engineer: <u>[Signature]</u>	Client's Supervisor: <u>[Signature]</u>

NOTES:		Samples Returned to Vista Lab ☐
<u>Completed 12 Injection locations on site</u>		
OPS DPT footage: []	OPS 1" Well Material Footage: []	OPS Auger Footage: []
OPS 2" Well Material Footage: []	#Total Test Holes: []	#Cores: []
H2O Samples: []	Gamma Log Ft: []	Total Drilled Ft: []
Well Ft: []	#Wells: []	

Vista GeoScience Daily Drilling Services Report

This is NOT an invoice, but the information will be used for invoicing purposes.
To be completed at the end of each day and signed by Vista GeoScience and Client Representatives.

PROJECT INFORMATION		VISTA Project#: <u>806901</u>	DATE: <u>3/16/19</u>	RIG: <u>7720PT</u>
Vista Field Engineers: <u>PW, CD, LT</u>		Utility Locate Ticket Number:		
Client: <u>AECOM</u>		Site Manager: <u>Dale</u>		
Client Project Name:		Client Project Number:		
Site Description: <u>Walgreens</u>		Site Address: <u>3401 Isleta Blvd SW</u>		

DAILY TIME REPORT		(use 24-hour clock)	Time Exceeded 4 Hr Min: YES / NO
Day Number: <u>3</u>	Total Hours on Site: <u>8.0</u>	Mobilization Mileage:	
Time Requested on Location: <u>0730</u>	Client's Standby Hours: <u>/</u>	To Site: <u>7</u>	
Time on Location: <u>0730</u>	- Vista's Standby Hours: <u>/</u>	Return: <u>334</u>	
Time off Location: <u>1530</u>	- Lunch / Break Hours: <u>/</u>	Total: <u>341</u>	
Lunch Break - From: <u>/</u> To: <u>/</u>	= Total Bill Hours @ Level: [P]: <u>8.0</u>	Drive Hours: <u>6.75</u>	

Standby Sessions (describe):

EXPENDABLES USED AND DAMAGED TOOLS		(circle or fill in bracketed items)	
QTY	ITEM	QTY	ITEM
LINERS/TUBING		ABANDONMENT MATERIALS	
[]	' Soil Core Liners (ea) Type:	<u>5</u>	Bentonite [Granular], [Chip], [Powder] (50# bag)
[]	' Soil Core Liners (ea) Type:		Silica Sand (50# bag)
	Other Liners: []		Portland Cement (94# bag)
	[1/4"], [3/8"] or [1/2"] Polyethylene Tubing (ft)	<u>1</u>	[Asphalt Patch] (Concrete) <u>50</u> lb. bag
	3/8" Silicone Tubing (ft)		
	Other Tubing: []		

EXPENDABLES/PVC		RENTAL EQUIPMENT/CONTRACT:	
[]	" Expendable Points (ea):		Pump: []
[]	" [Grip Anchor Point] or [Expendable Cutting Shoe] (circle)		[PID/OVM] or [LandTec]
[]	" x 5' PVC Riser (section) Sch []		Exhaust Fan / Ductwork / CO Monitor
[]	" x 10' PVC Riser (section) Sch []		Subcontracted Concrete Coring / Barricading
[]	" x 5' PVC Screen (section) Sch []		3.25" Casing and Auger Add-On
[]	" x 10' PVC Screen (section) Sch []		[Decon] or [Support] Trailer / Truck
[]	" TFJ PVC Plug/Cap (ea)		Gamma Logger
[]	" PVC Slip Cap (ea)		Core Drill: []" x []" x []"
			Generator

SUPPLIES		Additional Items Used / Damaged Tools / PPE:	
[]	" J-Plug and Lock (set)		
[]	" x []' Prepacked Screen (ea)		
	Flush-Mount Traffic Cover []" Diameter		
	4" x 4" x 5' Sq. Steel Protective Well Cover/Riser		
	Concrete Anchor Bolts		
	[30] or [55] gallon Drum, each		

APPROVALS & SIGNATURES	
Vista Field Engineer: <u>[Signature]</u>	Client's Supervisor: <u>[Signature]</u>

NOTES:		Samples Returned to Vista Lab ☐
<u>Injected at 12 locations on site</u>		
OPS DPT footage: []	OPS 1" Well Material Footage: []	OPS Auger Footage: []
OPS 2" Well Material Footage: []	#Total Test Holes: []	#Cores: []
H2O Samples: []	Gamma Log Ft: []	Total Drilled Ft: []
Well Ft: []	#Wells: []	

ATTACHMENT C
FIELD NOTES

A Market Place Bos ¹²
~~13~~ March 2019

0730

Dak Floss Arrives on Site

0745

Vista Geo Sciences on Site (new onsite)
Driller Peter Wethington
Luke Tetreau
Chloe Douglas

0800

Eddie Hubert and Mike Mazzarros
GeoVista is setting up mixing trailer
DPT Rig is still at Hotel. When
DPT Rig Arrives we will have
tailgate. Mike Timmer runs onsite

0927

Vista is setup → waiting on Rig to
Arrive. DPT Rig was at Hotel

1000

DPT Rig Arrives onsite

1020

Eddie Hubert conducts tailgate Safety
Meeting

To Do's:

- Utilities electric, gas
- Weather overcast possible rain
- TMA - Utility clearance
- Substrate Injections
- Geoprobe Oversight
- To and From Travel

(4)

A Market Bos

12/3 March 2019

Health and Safety (cont.)

10 foot exclusion zone around rig

Eddie First Aid / CPR Responder

PPE Level D Steel toe, hard hat, hearing protection, vests, safety glasses

1100 Victor starts mixing Bos

Setting up at Injection Pt 20.

Even points start injection at 4 feet Bgs
and odd points start at 5 feet Bgs.

NE corner is #1 SW corner is #27

1120 Bos Recurfacing at 6 feet. Stop and
add Bentonite to annular space to Seal
Borehole.

1209 Finish Injection at Pt 20.

1222 Setting up on Pt 22. Stop work
for lightning in area.

1222 - Lunch

1340 - Back onsite resume @ Pt 22

1405 - Finished Pt 22

- Begin at Pt 19

Mike Timmer 281 622 6858 (cell)

1413 Start at 19

1435 Finish 19 start at Pt 12

1515 Finish pt 12 begin Pt 2

A Market Bos 12/3 March 2019
Heath and Safety (cont.)

10 foot exclusion zone around rig
Eddie First Aid / CPR Responder
PPE Level D Steel toe, hard hat,
hearing protection, vests, safety glasses

1100 Vicki starts mixing Bos

Setting up at Injection Pt 20.

Even points start injection at 4 feet Bgs
and odd points start at 5 feet Bgs.

NE corner is #1 SW corner is #27

1120 Bos Resurfacing at 6 feet. Stop and
add Bentonite to annular space to Seal
Borehole.

1209 Finish Injection at Pt 20.

1222 Setting up on Pt 22. Stop work
for lightning in area.

1222 - Lunch

1340 - Back onsite resume @ Pt 22

1405 - Finished Pt 22

- Began at Pt 19

Mike Timmer 281 622 6858 (cell)

1413 Start at 19

1435 Finish 19 start at Pt 12

1515 Finish pt 12 begin Pt 2

(5)
A Market Plate Bos 12/march/19
1600 - finished Pt 2 (no resurfacing) / mix batch of Bos

- Begin at Pt 6

1645 Dale Flores Leaves Site, Eddie will
stay.

1650 Finish Pt 6, Starts Ramping H and
Stop work for day

Finish Injection at Sit Locations
for the day (20, 22, 19, 12, 2, and 6)
Chew Leaves site end day.

⑥

A Market Bas Injection

3/13/2019

- 140 Dale Flows on site
750 Vista Geosciences on site Peter / Luke / Chase
Mike Mazzarese on site (AST)
800 Conduct Tailgate Safety Meeting and Review THAs
Topics - Weather Today will be windy and mid 50s
- Slip Trip Falls
- Hise Hazards
26.056
829 Setting up on Pt ~~25~~²⁶ (Furthest west line)
939 Finish ~~24~~²⁶
000 Points 5, 6, and 14 are under power line. Due to safety hazard these points will not be used as injection points. The clearance is less than 10 feet so we won't take the chance
002 Start pt 21
1630 Finish pt 18
58 Start pt 87, stop to mix more Bas
43 Finish pt 87, start on pt 1.
15 Finish pt 1
244 Finish pt 11
301 Starting pt 3
332 Finish Injection at pt 3 (8 so far)

A Market Bos Injection 3/13/2019

Dale Flors on site

Vista Geosciences on site Peter / Luke / Chase

Mike Mazzare on site (AST)

Conduct Tailgate Safety Meeting and Review THAs

Topics - Weather Today will be windy and mid 50s

- Slip Trip Falls

- Hise Hazards

Setting up on Pt ~~25~~ ²⁶ (Furthest west line)

Finish ~~24~~ ²⁶

Points 5, 6, and 14 are under power line. Due to safety hazard these points will not be used as injection points. The clearance is less than 10 feet so we won't take the chance

Start pt 21

Finish pt 18

Start pt 8, Stop to mix more Bos

Finish pt 8, start on pt 1.

Finish pt 1

Finish pt 11

Starting pt 3

Finish Injection at pt 3 (8 so far)

A Market Place Bos

3/13/2019

01418 Finish Injection Pt. 16. So Hang up

1507 on Pt 25 Stop to Batch more Bos

~~1507~~ Starting Point 24 Stop and Abandon due to

1534 Bos surfacing bad, no injection penetration.

1534 Starting Pt 8.

1534 Finish sampling at Pt 8

1615 Wind has become stronger with gusts to 50 mph. I have decided to postpone activities and stop work.

11 Injection points were completed today, pts (26, 21, 18, 7, 1, 3, 18, 27, 25, 24, 8)

1625 Vista Crew is closing up for day

8

A Market Place Bos

3/14/2019

- 0745 Arrive on site w/ Vista geo crew. MM onsite
- 0800 Conduct tailgate Safety meeting (Continue DPT / Demob)
Topics: weather, noise, traffic in Ranj cat,
Sun exposure
- 0820 Today's Activities include continued Injection,
5 injection points remaining, Cleanup at Site
Demob to Chevron Isleta
- 0825 Start DPT injection at 13
- 0900 Finish Injection at 13 Start at Pt. ~~16~~ ¹⁷
- 0924 Finish Injection at Pt 17
- 0935 Start injection at pt 4
- 1013 Finish at pt 4 start at pt 16
- 1035 finish at pt 16 start at pt 10
- 1050 Finish pt 10, complete injections at A Market.
A total of 24 Injection points were advanced.
Geolpha will install a soil moni (macro core) to
15 feet to check for saturation.
- 1100 Finish taking macro core sample, took Pictures
Vista crew Starting Cleanup at Site and Demob
operations.
- 1250 Depart A Market w geo probe Rig, will return
with OF For Trailer.
- 1310 Talon Having problems with trailer lights,
Depart to Chevron Isleta.

A Market Place Bos

3/14/2019

Arrive on site w/ Vista Geo crew. MM onsite
Conduct tailgate Safety meeting (Continue DPT/Demo)
Topics: weather, noise, traffic in Ranj Cat,
Sun exposure

Today's Activities include continued Injection,
5 injection points remaining, Cleanup at Site
Demo to Chevron Isleta

Start DPT injection at 13

Finish Injection at 13 Start at Pt. 16 ¹⁷

Finish Injection at Pt 17

Start injection at pt 4

Finish at pt 4 Start at pt 16

Finish at pt 16 Start at pt 10

Finish Pt 10, complete injections at A Market.

A total of 24 Injection points were advanced.

Geolista will install a soil probe (macro core) to
15 feet to check for saturation.

Finish taking macrocore sample, took Pictures
Vista crew starting Cleanup at Site and Demo
operations.

Depart A Market w geo probe Rig, will return
with DF For Trailer.

Talon Having problems with trailer lights,
Depart to Chevron Isleta.

Chevron Isleta Bos

3/14/2019

1335 Arrive at Walgreens, Check In with
Manager and discuss ar plan.

Mike Mazzarus onsite. Perform site
Walk of injection points and discuss approach

1349 Vista geosciences departs Site to return to
Belen to pickup batching trailer

1548 Vista geo onsite, review setup.

1631 Finish Setup. Trailer parked across from
pharmacy. I phoned Jeff Telling (Vista) that
crew needs fork lift.

1645 Perform Daily Review with Peter Wethington.
Phoned Eddie to transition for tomorrow

Offsite

10

Chevron Isleta BOS

3/15/2019

730 - onsite w/ Vista Geoscience

- Vista begins prep for the day & goes to RAKS for an extra hose to facilitate water supply to mixing trailer. While mixing trailer is being prepared for the day

weather: 39°F high of 61°F Sunny

Equipment Geoprobe ; Vista Geoscience mixing trailer which includes various pumps & mixers; high pressure injection pump.

- conduct H&S tailgate

Personnel: Chase, Patrick, Luke (Vista) E. Hubbard (Aecon)

815 began at Pt #1 (North west corner of North grid)

709 finished at Pt #1 begin at pt #6 (one location east of pt #1)
North grid layout



- at Pt #6 minor resurfacing from seam in pavement Vista vacuums the resurfaced material finished at Pt #6

- advance rod at Pt #2 & pt #4 attempt to shuttle between 2 locations to speed injection & minimize resurfacing

Chevron Isleta BOS

3/15/2019

11

3/15/2019

- onsite w/ Vista Geoscience
- Vista begins prep for the day & goes to RAKS for an extra hose to facilitate water supply to mixing trailer. While mixing trailer is being prepared for the day

Weather: 39°F high of 61°F Sunny

Equipment: Geoprobe; Vista Geoscience mixing trailer which includes various pumps & mixers; high pressure injection pump.

- Conduct H&S tailgate

Personnel: Chase, Patrick, Luke (Vista) E. Hubbert (ARCON)

began at Pt #1 (North west corner of North grid)

finished at Pt #1 begin at pt #6 (one location east of pt #1)

North grid layout



- at Pt #6 minor resurfacing from seam in pavement Vista vacuums the resurfaced material finished at Pt #6

- advance rod at Pt #2 & pt #4 attempt to shuttle between 2 locations to speed injection & minimize resurfacing

- 1000 - resurfacing along the curb/seam still. Vista will begin mixing BOS w/ less water. Thicker injectate mix should result in less resurfacing moving down to 10 gal/interval (loading remains the same).

- talked w/ Mike Mazzarese & decided to adjust shallow intervals vol down & increase lower intervals. **NO MIX DESIGN CHANGE.**

- finished at pts 2 & 4

- 1045 - Began pt. #8 & Pt #9 shuffling between

- 1115 - Began Pt #12 (finished #8 & #9)

- valve seal failed on inj head; Vista repairs onsite

- 1125 Resume at Pt. #12

- 1130 - Vista had a pump seal fail on the mixing Rig. They are repairing onsite.

- 1240 - Valve issue fixed

- finish pt #12 Set up @ Pt #11

- M. Timmer onsite. (H&S briefing)

- finished pt #11 / set up at pt #10

Resurfacing is less of an issue.

- 1400 M. Timmer onsite. and pleased w/ progress -

finished pt 10 set up at pt #5

finished pt 5 set up at pt #7

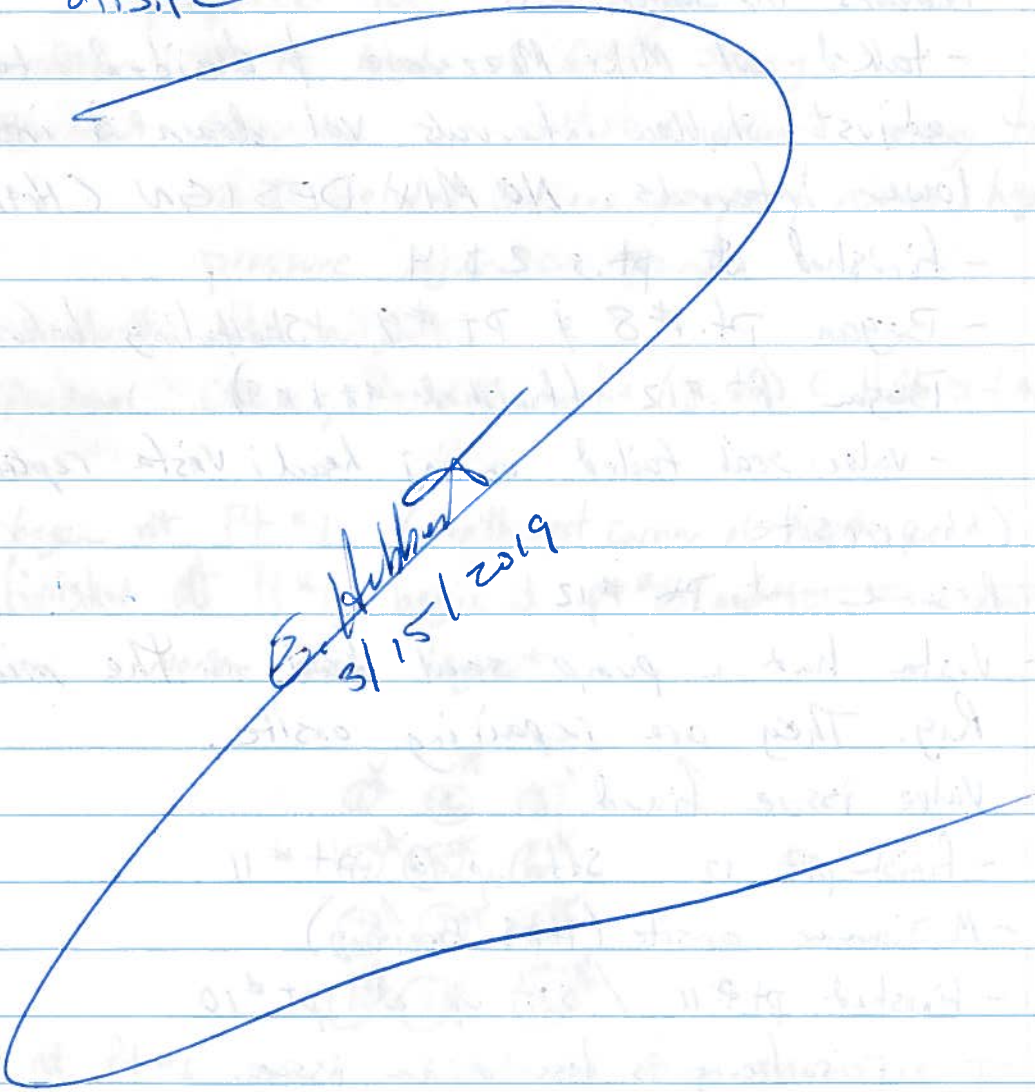
(12)

3/15/2019

- finish pt #7 set up at pt #3
- finished pt #3

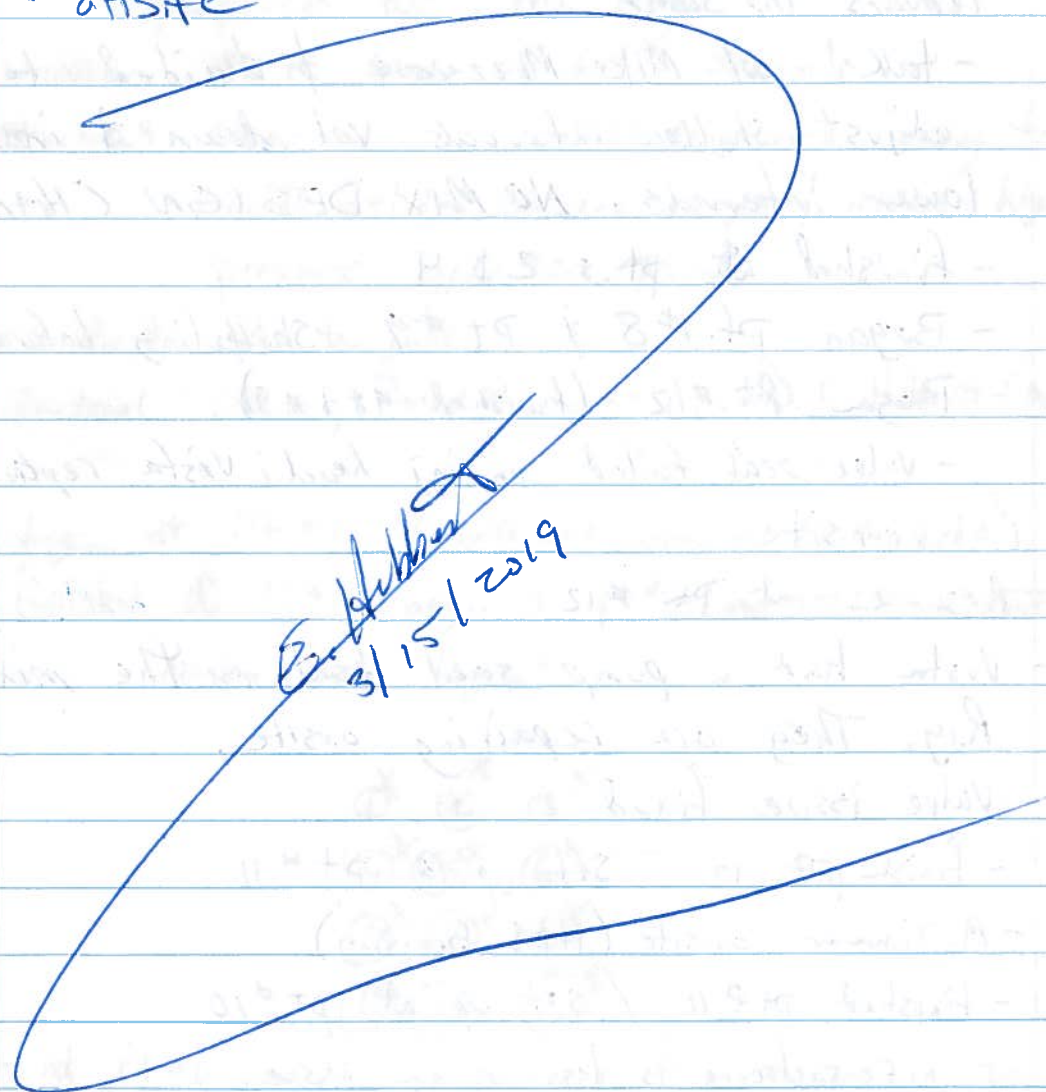
1615 - Vista packing up for the day

- offsite


~~E. Hubbard~~
3/15/2019

3/15/2019

- finish pt #7 set up at pt #3
- finished pt #3
- Vista packing up for the day
- offsite



E. Plummer
3/15/2019

Chevron Isleta BOS

3/16/2019

13

0720

Dale Flores Arrives onsite.

Conduct Tailgate Safety Meeting w Viskra

TOPICS: - Look out for Pedestrians walking across parking lot

- Continue Traffic Control

- Sun Exposure

TOPIC - Activities For Day:

1) Start Injection on South Grid

2) Clean up of Site

3) Demob.

0745

Viskasciences setting up on South grid.

Will start injection at pt 12 with odd points starting injection at 7 feet and even points starting at 6 feet. Pt 12 is SW corner of grid.

856

Spoke with Kyle Stone Manager and informed him of our activities

0901

Clogged injectors at 10 feet, pt 12. Stop to pull rods and clean injectors. Start advancing at pt 11. Not using bentonite in surface

0906

Start injection at pt 11

0956

Return and finish injection at pt 12

1036

Working on injection at pts 9, 10

1115

Finish pts 9, 10. Starting points 5 and 6.

1146

Finish injection at pt 6.

(14)

Chevron Isleta Bos

3/16/2019

- 1203 Finish Injection at Pt 5
1217 Start Injection at Pts 1 and 4
1247 Finish Pts 1 and 4 Set up on Pts 2, 3
1332 Start injection at Points 7, 8, Finish 2, 3 before
1418 Finish Injection at Points 7, 8
1412 Injection is complete at all 12 points on
South grid.

VistaGeoscience is starting clean up at Site
1444 Took pictures of cleaning process. Stream cleaned entire
length of both grids.

1535 Cleanup at Site complete VistaGeoscience
off site → end day

~~OK~~