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First Quarterly Groundwater Monitoring Report Revision 1

Atex 213
3501 Isleta Boulevard, SW
Albuquerque, NM

PSTB Facility #31815, Release ID #28
Work Plan ID #4298, Deliverable ID #4298-1
Contract #20-667-3200-0020

New Mexico Environment Department
Petroleum Storage Tank Bureau
121 Tijeras Ave. NE, Ste. 1000
Albuquerque, New Mexico 87102-3400

Submitted by:

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May 25, 2023

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May 25, 2023

Mr. Corey Jarrett
Geoscientist/Project Manager
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First Quarterly Groundwater Monitoring Report – Revision 1
Atex 213, 3501 Isleta Boulevard, SW, Albuquerque, NM
Release ID #: 28 Facility #: 31815 Work Plan 4298 Deliverable ID 4298-1
Contract #: 22 667 3200 0020

Dear Mr. Jarrett:

EA Engineering, Science, and Technology, Inc. PBC (EA) prepared this report to present the results of the groundwater monitoring performed by EA on March 8, 2023, at Atex 213 located at 3501 Isleta Boulevard, SW, Albuquerque, New Mexico (***Figure 1***). This is the first monitoring event performed after the injection of PetroFix® in September 2022. Activities were performed under the State of New Mexico Environment Department Professional Services Contact No. 22 667 3200 0020.

1. BACKGROUND

1.1 Release, PetroFix® Injection, Hydrogeology

- Atex Gas, Inc. was owned and operated by Bell Station 213.
- ***In 1981***, inventory records indicated that approximately ***43,000 gallons of unleaded gasoline*** were released.
- In June 2021, ***benzene*** groundwater concentrations exceeded the standard in ***NMW-1*** (56 micrograms per liter [µg/L]), ***RNMW-2*** (13 µg/L), and ***total naphthalene*** concentration exceeded the standard in ***MW-1R*** (37 µg/L).
- In June 2022, EA prepared and submitted to NMED PTST a ***Final Remediation Plan*** to inject into the impacted saturated zone ***PetroFix® with nitrate and sulfate electron donor amendments*** around ***MW-1R, RNMW-2***, and ***NMW-1*** using a direct push method (EA, Jun 6, 2022).
- In September 2022, ***EA injected 1,464 pounds of PetroFix® (150 gallons) mixed with water for a total solution volume of 1,066 gallons around the NMW-1, MW-1R, and RNMW-2***.
- Groundwater in the area of concern occurs approximately 9***-11 feet below the ground surface (bgs)***. Groundwater flow direction is to the south-southeast at a ***0.001-0.002 gradient***.
- The soil in the vadose and saturated zones consists primarily of poorly to well-graded ***fine to coarse sands, silty sand near the surface, and lenses of silt/clay***.

1.2 April 2022 Baseline Groundwater Data

Well ID	Depth to Water	Casing Elevation	Groundwater Elevation	Groundwater Temperature	Specific Conductance	pH	Oxidation-Reduction Potential	Dissolved Oxygen
Units	*feet toc*	*feet amsl*	*feet amsl*	*degrees Celsius*	*µS/cm*	*S.U.*	*mV*	*µg/L*
MW-1R	9.27	4,932.08	4,922.81	18.44	1,786	7.16	-117	1.98
MW-38	9.06	4,931.87	4,922.81	17.63	1,633	6.86	-81	1.17
MW-4R	10.68	4,933.42	4,922.74	19.44	1,418	7.21	-116	1.06
MW-6RR	11.01	4,933.90	4,922.89	18.74	1,207	7.26	21	1.77
NMW-1	9.72	4,932.63	4,922.91	18.21	2,006	6.75	-135	0.82
NMW-4R	10.03	4,932.53	4,922.50	19.16	1,307	7.03	-54	1.05
RNMW-2	10.62	4,933.45	4,922.83	18.88	1,709	6.86	-71	0.83
RNMW-3	10.38	4,933.22	4,922.84	19.03	1,667	2.02	-63	1.02

Notes:
µS/cm = micro-Siemens per centimeter
amsl = above the mean sea level
mV = millivolts
µg/L = micrograms per liter
toc = top of the well casing
S.U. = standard units

1.3 April 2022 Baseline Contaminant Concentrations

Historically, the primary contaminants of concern (COCs) at the site have been petroleum hydrocarbons that included ***benzene, toluene, ethylbenzene, total xylene (BTEX), methyl tertiary-butyl ether (MTBE), and total naphthalenes***. Recently, benzene and total naphthalene concentrations were above the standards.

In April 2022, the benzene concentration was 32 micrograms per liter (µg/L) in NMW-1 and 44 µg/L in RNMW-2, above the NMWQCC standard of 5 µg/L. All other COCs were below their associated standards. A summary of the results is provided in the table below:

Well ID	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Total Naphthalenes	Nitrate	Sulfate	TDS
Standard	*5*	*1,000*	*700*	*620*	*100*	*30*	*10*	*600*	*1,000*
Units	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*mg/L*	*mg/L*	*mg/L*
MW-1R	<1.0	<1.0	<1.0	<1.5	<1.0	4.3	<0.50	0.2	-
MW-38	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.50	130	-
MW-4R	<1.0	<1.0	<1.0	<1.5	1.7	<10	<0.50	100	-
MR-6RR	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.50	95	-
NMW-1	**32**	<1.0	1.4	3.4	4.5	8.4	<0.50	200	-
NMW-4R	<1.0	<1.0	<1.0	<1.5	1.9	<10	<0.50	91	-
RNMW-2	**44**	<2.0	<2.0	<3.0	51	13	<0.50	68	-
RNMW-3	<1.0	<1.0	<1.0	<1.5	5.5	<10	<0.10	100	586

Notes:
Bold *indicates concentration above the New Mexico Administrative Code 20.6.2.3103 Human Health Standards for Groundwater.*
MTBE = Methyl tertiary butyl ether
TDS = Total dissolved solids

2. SCOPE AND EXECUTION

On March 8, 2023, EA personnel completed the following scope of work for the pre-injection (baseline) groundwater monitoring:

- Gauged ***MW-1R, MW-4R, MW-6RR, MW-38, NMW-1, NMW-4R, RNMW-2, and RNMW-3***. Field records are provided in ***Appendix A*** and gauging results are in ***Table 1***.
- Before sampling, wells were purged using dedicated, clean, disposable bailers and twine. During purging, ***dissolved oxygen (DO), oxygen-reduction potential (ORP), pH, temperature, and specific conductivity were measured*** using a calibrated water quality meter. Field records are provided in ***Appendix A*** and groundwater geochemical parameter results are in ***Table 2***.
- Collected groundwater samples from ***MW-1R, MW-4R, MW-6RR, MW-38, NMW-1, NMW-4R, RNMW-2, and RNMW-3***. Samples were collected into clean sealed containers supplied by Hall Environmental Analysis Laboratory (HEAL), labeled, placed in protective pockets, placed into coolers packed with ice, entered in a chain of custody, and delivered to HEAL under direct custody.
- Submitted groundwater samples to Hall Environmental Analysis Laboratory where samples were analyzed for volatile organic compounds (***VOCs***), including total naphthalenes, by the United States Environmental Protection Agency (EPA) ***Method 8260B***, ***sulfate and nitrate by EPA Method 300***, and ***Total Dissolved Solids (TDS) by SM 2540C***. Laboratory results are provided in ***Appendix B,*** sample quality control requirements are in ***Table 3***, and groundwater geochemical parameter results are in ***Table 4***.
- Prepared and submitted this report.

3. RESULTS

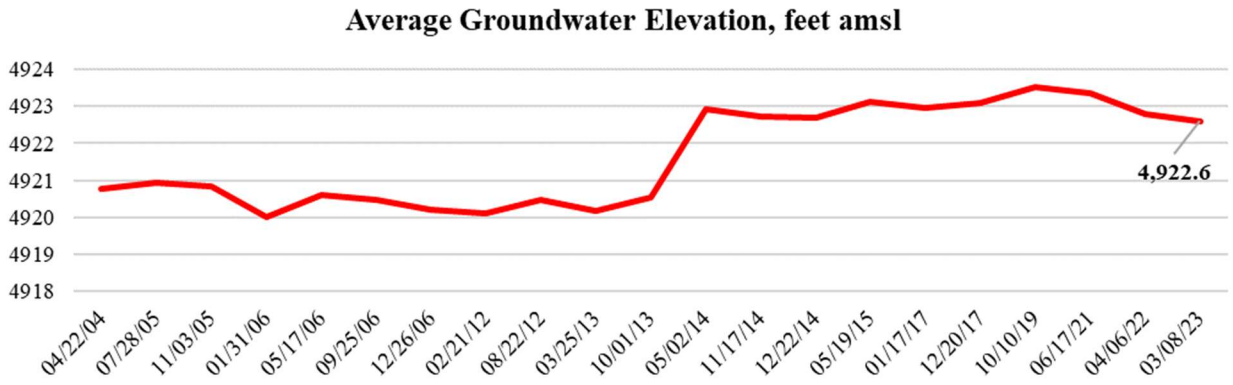
3.1 Groundwater Levels, Flow Direction, and Gradient

Provided below is a summary of groundwater gauging performed on March 8, 2023. Historical data are provided in ***Table 1***.

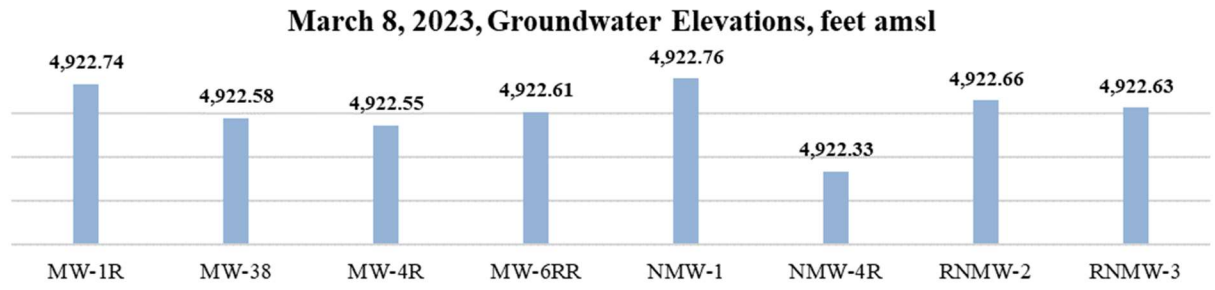
Groundwater Levels

		feet amsl	*feet btoc*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**
MW-1R	03/08/23	4932.08	9.34	4922.74
MW-38	03/08/23	4931.87	9.29	4922.58
MW-4R	03/08/23	4933.42	10.87	4922.55
MW-6RR	03/08/23	4933.90	11.29	4922.61
NMW-1	03/08/23	4932.63	9.87	4922.76
NMW-4R	03/08/23	4932.53	10.20	4922.33
RNMW-2	03/08/23	4933.45	10.79	4922.66
RNMW-3	03/08/23	4933.22	10.59	4922.63

The average water level was 10.3 feet below the surface and the average groundwater elevation was 4,922.6 feet above the mean sea level (amsl), within the levels observed since 2014.



The groundwater levels ranged from 4,922.33 in NMW-4R feet amsl and 4,922.76 feet amsl in NMW-1.



The groundwater flow was to the south at an average gradient of 0.014 (***Figure 2***).

3.2 Groundwater Geochemical Conditions

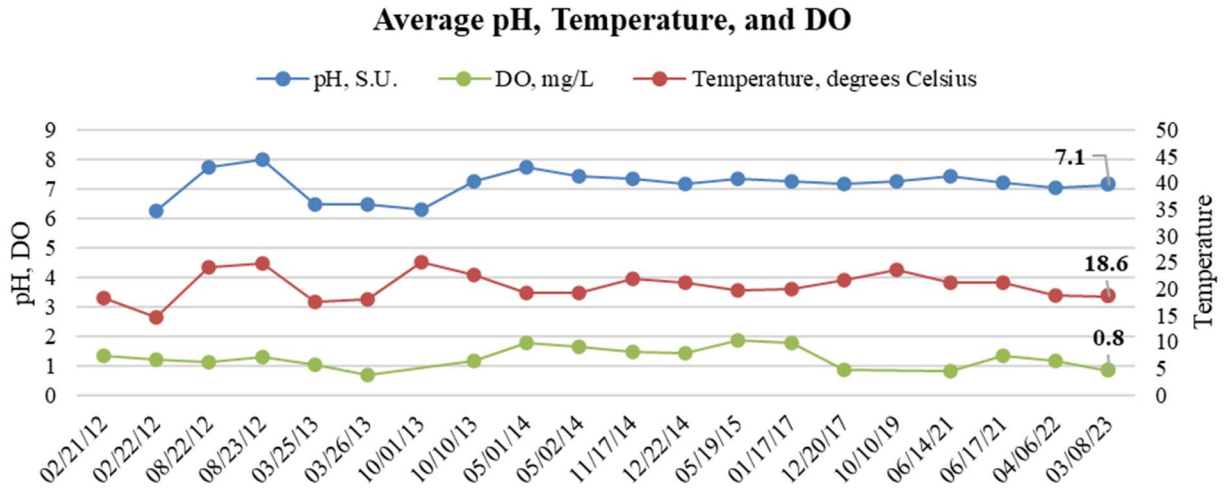
Provided below is a summary of the groundwater geochemical conditions.

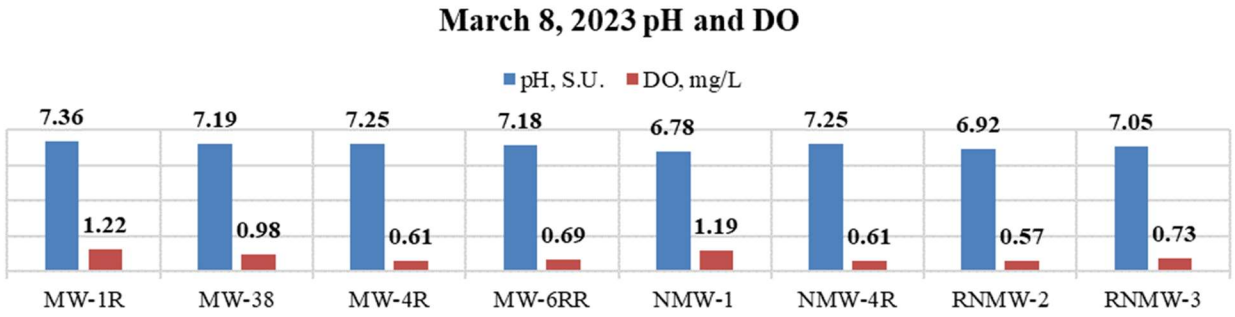
Groundwater Geochemical Parameters

Units		*S.U.*	*µS/cm*	*°C*	*mg/L*	*mV*
Well	**Date**	**pH**	**SpC**	**Temp**	**DO**	**ORP**
MW-1R	03/08/23	7.36	562	18.6	1.22	26
MW-38	03/08/23	7.19	720	18.0	0.98	126
MW-4R	03/08/23	7.25	542	19.1	0.61	
MW-6RR	03/08/23	7.18	505	19.6	0.69	56
NMW-1	03/08/23	6.78	827	17.8	1.19	-9
NMW-4R	03/08/23	7.25	542	19.1	0.61	65
RNMW-2	03/08/23	6.92	1,235	18.2	0.57	7
RNMW-3	03/08/23	7.05	920	18.0	0.73	51

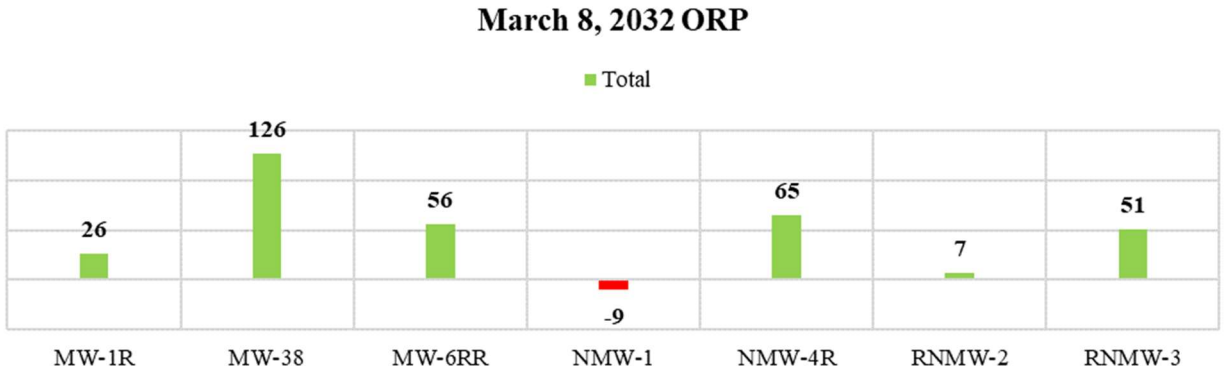
NOTES:
DO = Dissolved oxygen in milligrams per liter (mg/L)
ORP = Oxidation-Reduction Potential in millivolts (mVs)
pH = Potentila of Hydrogen, standard units (S.U.)
SpC = Specific conductance in microsiemens per centimeter (µS/cm)
Temp = Temperature in degrees Celsius (°C)

The average ***pH was near neutral*** at 7.1 standard units, the ***DO was slightly aerobic*** at an average of 0.8 milligrams per liter (mg/L), ***ORP oxidizing*** at an average of 46 millivolts (mVs), and the ***temperature conducive to biodegradation*** at an average of 18.6 degrees Celsius.

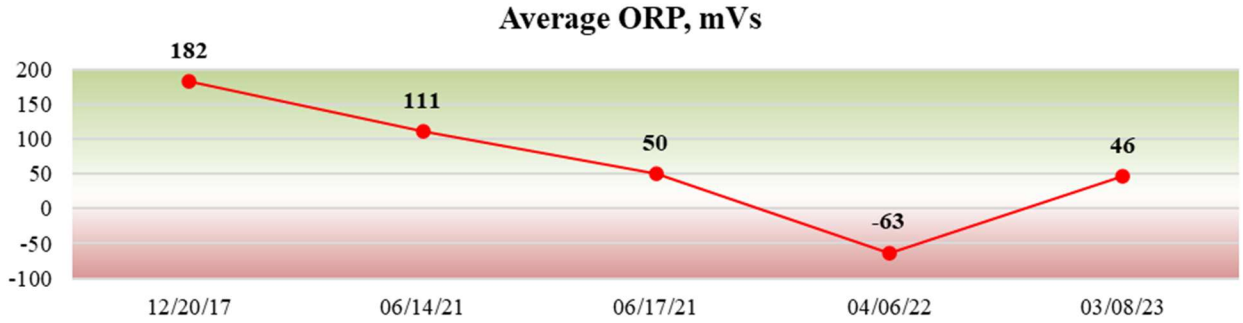




The ORP in most wells was oxidizing. In NMW-1 it was slightly reducing likely due to contamination around the well.



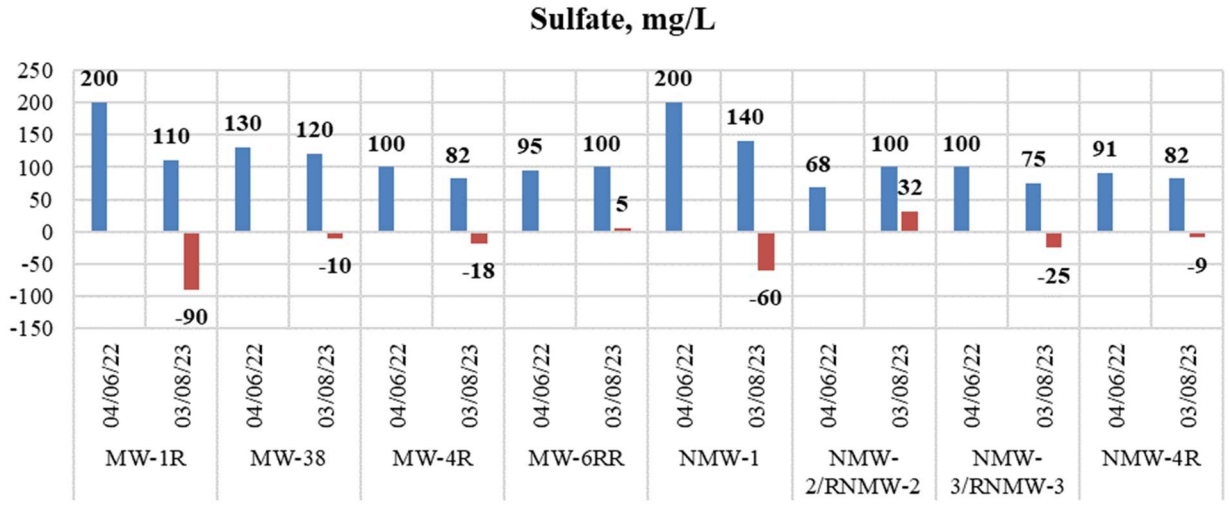
The average site ORP rebounded by 100 mVs into oxidizing range after dropping into the reducing range in April 2022.



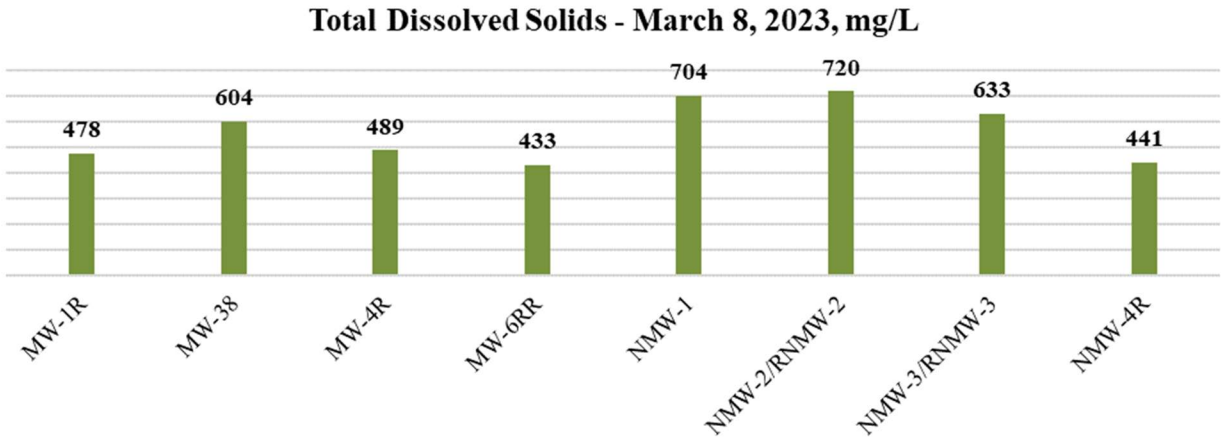
3.3 Nitrate, Sulfate, and TDS Concentration in Groundwater

Nitrate and sulfate were added as electron acceptors during the injection of PetroFix®. ***Nitrate was not detected*** above the laboratory limits indicating that the ***nitrate respiration*** of petroleum hydrocarbons is the likely mechanism for denitrification after the injection.

Sulfate concentrations decreased in most wells; most noticeably MW-1R, and NMW-1, which received sulfate as part of the PetroFix® injection. The decrease indicates that ***sulfate respiration*** was ongoing and is likely biodegrading petroleum hydrocarbons. The injection of sulfate in RNMW-2 is likely masking sulfate respiration in this well as the pre-injection concentrations were about one-third of those in MW-1R and NMW-1.



The Total Dissolved Solids (TDS) concentrations ranged from 433 mg/L in MW-6RR to 720 mg/L in RNMW-2. The TDS concentrations in RNMW-3 increased from 586 mg/L in April 2022; PetroFix® was not injected into this well.



3.4 Volatile Organic Compounds in the Groundwater

Provided below is a summary of the March 8, 2023, results. Historical data are presented in ***Table 4***.

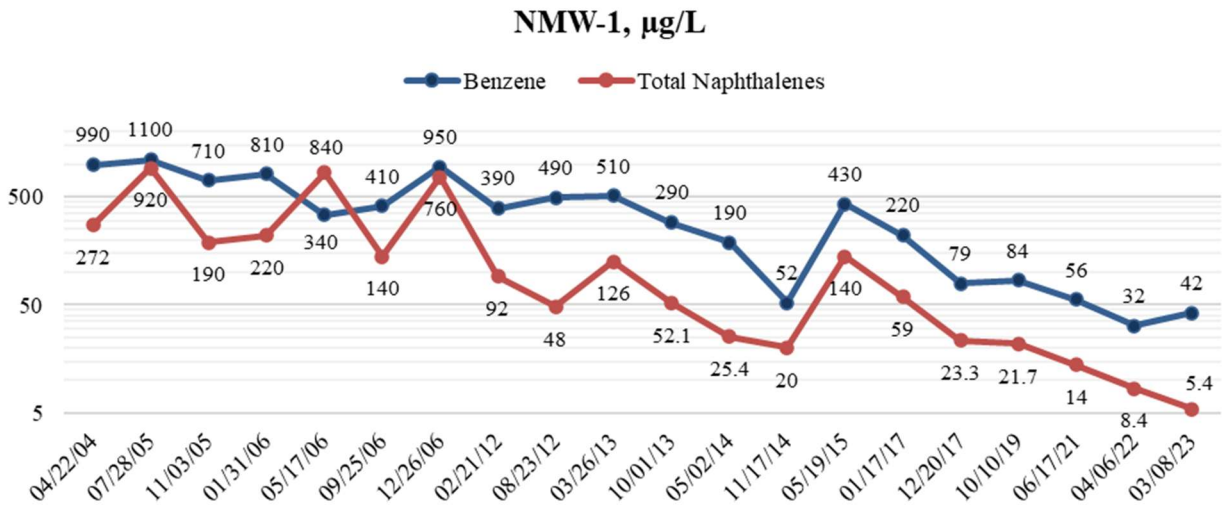
NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalene**
MW-1R	03/08/23	<50	<50	<50	<75	<50	<500
MW-38	03/08/23	<1.0	<1.0	<1.0	<1.5	<1.0	<10
MW-4R	03/08/23	1.7	<1.0	<1.0	<1.5	4.3	<10
MW-6RR	03/08/23	<1.0	<1.0	<1.0	<1.5	<1.0	<10
NMW-1	03/08/23	42	<2.0	<2.0	<3.0	8.0	5.4
NMW-2/RNMW-2	03/08/23	<1.0	<1.0	<1.0	<1.5	46	<10
NMW-3/RNMW-3	03/08/23	<1.0	<1.0	<1.0	<1.5	13	<10
NMW-4R	03/08/23	2.0	<2.0	<2.0	<3.0	<2.0	<20

Concentrations are in micrograms per liter.

The benzene concentration of 42 micrograms per liter (µg/L) in NMW-1 was the only concentration exceeding the New Mexico Administrative Code (NMAC) 20.6.2.3103 human health standards for groundwater. In April 2022, benzene concentration in NMW-1 was 32 µg/L and in June 2021 56 µg/L.

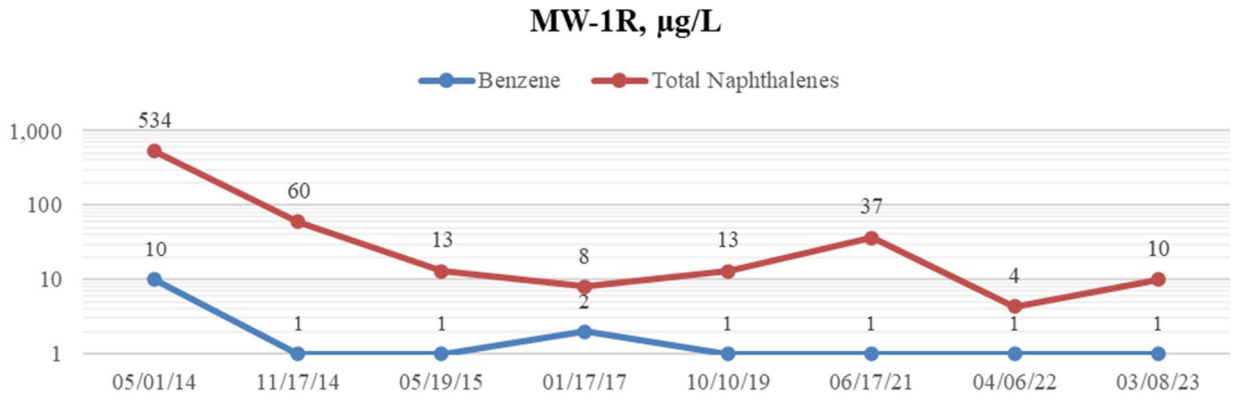
3.4.1 VOCs in NMW-1

The benzene and total naphthalene concentrations trends in NMW-1 are decreasing. After the September 2022 injection, total naphthalene concentrations decreased; however, benzene concentrations slightly increased but were within the trendline range. Hydraulic displacement during the injection may be attributable to the slight increase in benzene concentrations. Aerobic conditions and evidence of nitrate and sulfate respiration indicate that biodegradation is likely ongoing. Microbial evaluation using Bio-Traps® and QuantArray Petro® would provide direct evidence of the types and degrees of biodegradation.



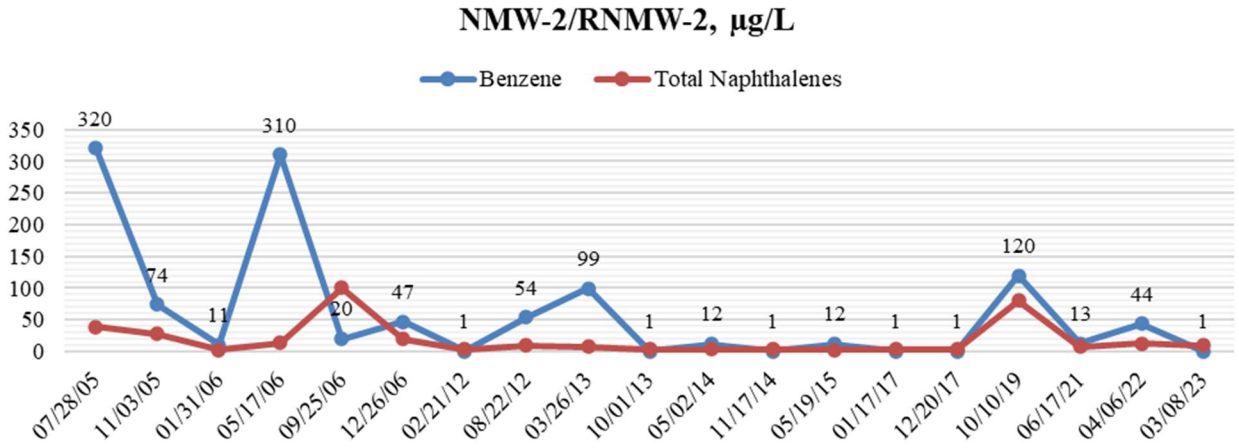
3.4.2 VOCs in MW-1R

After the injection, benzene and total naphthalene concentrations in MW-1R remained below the standards. PetroFix® was present in the well causing matrix interference that led to a high dilution factor of the sample and high laboratory detection limits. The graph below shows previous detection limits.



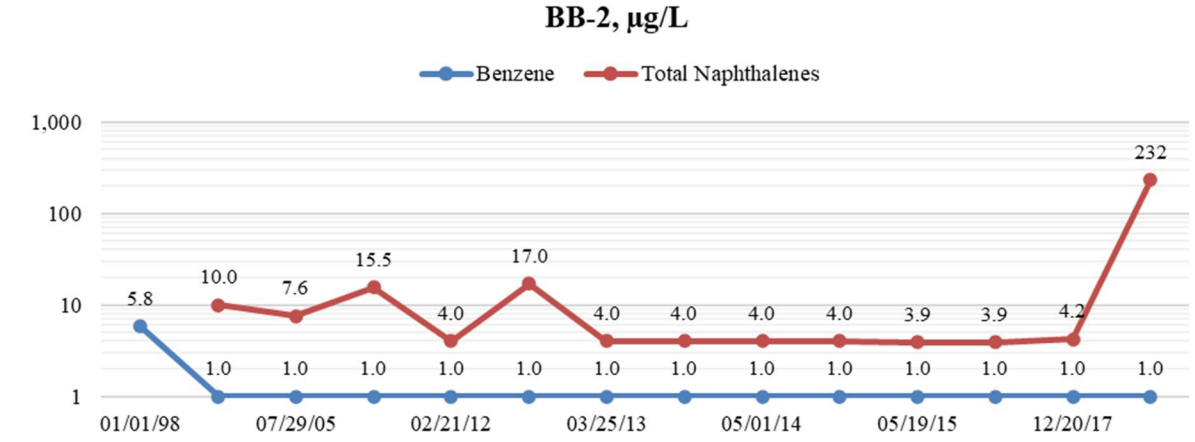
3.4.3 VOCs in NMW-2/RNMW-2

After the injection, benzene concentration in RNMW-2 decreased to below the standard and total naphthalene concentration remained below the standard.



3.4.3 VOCs in BB-2

Well BB-2 had an obstruction in the well in June 2021 and March 2023. The total naphthalene concentration in the well in October 2019 was 232 µg/L, above the standard of 30 µg/L. If concentrations in the well cannot be assessed during the next event, installation of a replacement well is recommended.



4.0 CONCLUSION AND RECOMMENDATIONS

4.1. Conclusions

- The average depth to water was 10.3 feet bgs, within the normal range.
- The average groundwater elevation was 4,922.6 feet amsl, within the levels observed since 2014.
- The pH was near neutral, DO was slightly aerobic, ORP was oxidizing, and the temperature was conducive to biodegradation.
- Since April 2022, the ORP increased by approximately 100 mVs.
- Nitrate was not detected although it was injected indicating that nitrate respiration took place degrading hydrocarbon and denitrifying nitrates.
- Sulfate concentrations decreased indicating that sulfate respiration is taking place and is likely degrading petroleum hydrocarbons by anaerobic bacteria.
- The TDS concentrations were within the expected range for the Rio Grande floodplain concentration range.
- ***The benzene concentration of 42 micrograms per liter (µg/L) in NMW-1*** was the only concentration exceeding the NMAC 20.6.2.3103 human health standards for groundwater. The total naphthalene concentration decreased. Hydraulic displacement during the injection could have been attributed to the increase in benzene concentration. Further monitoring is required to understand subsurface dynamics and concentration trends.
- After the injection, benzene and total naphthalene concentrations in MW-1R remained below the standards and decreased to below the standards in RNMW-2.
- In BB-2, in October 2019, naphthalene concentration was 232 µg/L, above the standard of 30 µg/L. This well could not be sampled as it has an obstruction.

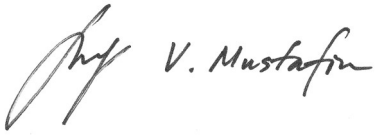
4.2 Recommendations

- Continue groundwater monitoring.
- Replace well BB-2 if the well cannot be sampled.
- Consider Quant-Array Petro® microbial analysis in the key wells to better understand the type and degree of biodegradation occurring at the site.

Please feel free to contact me at (505) 296-1070 or vmustafin@eaest.com if you have questions or comments.

Sincerely,

EA Engineering, Science, and Technology, Inc., PBC



Vener Mustafin, P.E.
Project Manager/Engineer

ATTACHMENTS

Table 1	Fluid Gauging Data
Table 2	Groundwater Geochemical Parameters
Table 3	Analytes, Methods, Containers, Preservation, Handling, and Holding Time
Table 4	Groundwater Analytical Results
Figure 1	Site Layout
Figure 2	Groundwater Contour Map
Figure 3	Volatile Organic Compounds
Appendix A	Field Records
Appendix B	Laboratory Report

Tables

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
BB-2	04/22/04	4931.31	10.88	4920.43	
BB-2	07/28/05	4931.31	11.34	4919.97	
BB-2	11/03/05	4931.31	11.56	4919.75	
BB-2	01/31/06	4931.31	12.36	4918.95	
BB-2	05/17/06	4931.31	11.66	4919.65	
BB-2	09/25/06	4931.31	11.72	4919.59	
BB-2	12/26/06	4931.31	12.04	4919.27	
BB-2	02/21/12	4931.31	12.24	4919.07	
BB-2	08/22/12	4931.31	11.69	4919.62	
BB-2	03/25/13	4931.31	12.05	4919.26	
BB-2	10/01/13	4931.31	11.70	4919.61	
BB-2	05/02/14	4934.64	11.81	4922.83	
BB-2	11/17/14	4934.64	12.06	4922.58	
BB-2	05/19/15	4934.64	11.56	4923.08	
BB-2	01/17/17	4934.64	11.82	4922.82	
BB-2	12/20/17	4934.64	11.69	4922.95	
BB-2	10/10/19	4934.64	11.18	4923.46	
BB-2	06/17/21	4934.64			*Obstruction*
MW-1	04/22/04	4929.78	9.25	4920.53	
MW-1	07/28/05	4929.78			*Dry*
MW-1	11/03/05	4929.78			*Dry*
MW-1	01/31/06	4929.78			*Dry*
MW-1	05/17/06	4929.78			*Dry*
MW-1	09/25/06	4929.78			*Dry*
MW-1	12/26/06	4929.78			*Dry*
MW-1	02/21/12	4929.78			*Dry*
MW-1	08/22/12	4929.78			*Dry*
MW-1	03/25/13	4929.78			*Dry*
MW-1	10/01/13	4929.78			*Dry*
MW-1	04/29/14	4929.78			*Plugged*
MW-1R	05/02/14	4932.03	9.06	4922.97	
MW-1R	11/17/14	4932.08	9.19	4922.89	***
MW-1R	05/19/15	4932.08	8.86	4923.22	
MW-1R	01/17/17	4932.08	8.98	4923.10	
MW-1R	12/20/17	4932.08	8.87	4923.21	
MW-1R	10/10/19	4932.08	8.45	4923.63	
MW-1R	06/17/21	4932.08	8.63	4923.45	
MW-1R	04/06/22	4932.08	9.27	4922.81	
MW-1R	03/08/23	4932.08	9.34	4922.74	
MW-2	04/22/04	4934.72	11.43	4923.29	
MW-2	07/28/05	4934.72	11.39	4923.33	
MW-2	11/03/05	4934.72	11.45	4923.27	
MW-2	01/31/06	4934.72	12.27	4922.45	
MW-2	05/17/06	4934.72	11.72	4923.00	
MW-2	09/25/06	4934.72	11.82	4922.90	
MW-2	12/26/06	4934.72	11.94	4922.78	
MW-2	02/21/12	4934.72	12.13	4922.59	
MW-2	08/22/12	4934.72	11.68	4923.04	
MW-2	03/25/13	4934.72	11.96	4922.76	
MW-2	10/01/13	4934.72	11.64	4923.08	
MW-2	05/02/14	4934.72	11.74	4922.98	
MW-2	11/17/14	4934.72	11.96	4922.76	
MW-2	05/19/15	4934.72	11.59	4923.13	
MW-2	01/17/17	4934.72	11.73	4922.99	
MW-2	12/20/17	4934.72	11.61	4923.11	

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
MW-2	10/10/19	4934.72	11.17	4923.55	
MW-2	06/17/21	4934.72			*Could not locate well*
MW-3	04/22/04	4932.98	9.71	4923.27	
MW-3	07/28/05	4932.98	9.65	4923.33	
MW-3	11/03/05	4932.98	9.78	4923.20	
MW-3	01/31/06	4932.98	10.57	4922.41	
MW-3	05/17/06	4932.98	10.02	4922.96	
MW-3	09/25/06	4932.98	10.05	4922.93	
MW-3	12/26/06	4932.98	10.27	4922.71	
MW-3	02/21/12	4932.98	10.42	4922.56	
MW-3	08/22/12	4932.98	9.92	4923.06	
MW-3	03/25/13	4932.98	10.25	4922.73	
MW-3	10/01/13	4932.98	9.80	4923.18	
MW-3	05/02/14	4932.98	10.00	4922.98	
MW-3	11/17/14	4932.98	10.19	4922.79	
MW-3	05/19/15	4932.98	9.82	4923.16	
MW-3	01/17/17	4932.98	9.98	4923.00	
MW-3	12/20/17	4932.98	9.87	4923.11	
MW-3	10/10/19	4932.98			*Could not locate well*
MW-3	06/17/21	4932.98			*Destroyed*
MW-4	04/22/04	4932.55	12.07	4920.48	
MW-4	07/28/05	4932.55	12.03	4920.52	
MW-4	11/03/05	4932.55	12.19	4920.36	
MW-4	01/31/06	4932.55	12.94	4919.61	
MW-4	05/17/06	4932.55	12.35	4920.20	
MW-4	09/25/06	4932.55	12.42	4920.13	
MW-4	12/26/06	4932.55	12.64	4919.91	
MW-4	02/21/12	4932.55	12.81	4919.74	
MW-4	08/22/12	4932.55	12.32	4920.23	
MW-4	03/25/13	4932.55	12.64	4919.91	
MW-4	10/01/13	4932.55			
MW-4	04/29/14	4932.55			*Plugged*
MW-4R	05/02/14	4933.42	10.56	4922.86	
MW-4R	11/17/14	4933.42	10.74	4922.68	
MW-4R	05/19/15	4933.42	10.36	4923.06	
MW-4R	01/17/17	4933.42	10.57	4922.85	
MW-4R	12/20/17	4933.42	10.39	4923.03	
MW-4R	10/10/19	4933.42	9.94	4923.48	
MW-4R	06/17/21	4933.42	10.13	4923.29	
MW-4R	04/06/22	4933.42	10.68	4922.74	
MW-4R	03/08/23	4933.42	10.87	4922.55	
MW-5	04/22/04	4931.85	11.44	4920.41	
MW-5	07/28/05	4931.85	10.78	4921.07	
MW-5	11/03/05	4931.85	11.00	4920.85	
MW-5	01/31/06	4931.85	11.83	4920.02	
MW-5	05/17/06	4931.85	11.12	4920.73	
MW-5	09/25/06	4931.85	11.15	4920.70	
MW-5	12/26/06	4931.85	11.54	4920.31	
MW-5	02/21/12	4931.85			*Dry*
MW-5	08/22/12	4931.85			*Dry*
MW-5	03/25/13	4931.85			*Dry*
MW-5	10/01/13	4931.85			*Dry*
MW-5	05/01/14	4931.85			*Plugged*
MW-6	04/22/04	4931.51	11.04	4920.47	
MW-6	07/28/05	4931.51	11.03	4920.48	

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
MW-6	11/03/05	4931.51	11.22	4920.29	
MW-6	01/31/06	4931.51	11.92	4919.59	
MW-6	05/17/06	4931.51	11.31	4920.20	
MW-6	09/25/06	4931.51	11.37	4920.14	
MW-6	12/26/06	4931.51	11.89	4919.62	
MW-6	02/21/12	4931.51	11.58	4919.93	
MW-6	08/22/12	4931.51	13.00	4918.51	
MW-6	03/25/13	4931.51	13.14	4918.37	
MW-6	10/01/13	4931.51	13.18	4918.33	
MW-6	04/29/14	4931.51			*Plugged*
MW-6R	05/02/14	4934.26	11.36	4922.90	
MW-6R	11/17/14	4934.26			*Destroyed*
MW-6RR	12/22/14	4933.90	11.20	4922.70	
MW-6RR	05/19/15	4933.90	10.73	4923.17	
MW-6RR	01/17/17	4933.90	10.90	4923.00	
MW-6RR	12/20/17	4933.90	10.78	4923.12	
MW-6RR	10/10/19	4933.90	10.34	4923.56	
MW-6RR	06/17/21	4933.90	10.50	4923.40	
MW-6RR	04/06/22	4933.90	11.01	4922.89	
MW-6RR	03/08/23	4933.90	11.29	4922.61	
MW-10	04/22/04	4930.98			*Plugged*
MW-29	04/22/04	4930.19	9.60	4920.59	
MW-29	07/28/05	4930.19	9.56	4920.63	
MW-29	11/03/05	4930.19	9.66	4920.53	
MW-29	01/31/06	4930.19	10.45	4919.74	
MW-29	05/17/06	4930.19	9.89	4920.30	
MW-29	09/25/06	4930.19	10.01	4920.18	
MW-29	12/26/06	4930.19	11.14	4919.05	
MW-29	02/21/12	4930.19	10.32	4919.87	
MW-29	08/22/12	4930.19	9.87	4920.32	
MW-29	03/25/13	4930.19	10.11	4920.08	
MW-29	10/01/13	4930.19	9.81	4920.38	
MW-29	05/01/14	4930.19			
MW-38	04/22/04	4929.10	8.62	4920.48	
MW-38	07/28/05	4929.10	8.56	4920.54	
MW-38	11/03/05	4929.10	8.70	4920.40	
MW-38	01/31/06	4929.10	9.49	4919.61	
MW-38	05/17/06	4929.10	8.90	4920.20	
MW-38	09/25/06	4929.10	8.97	4920.13	
MW-38	12/26/06	4929.10	9.19	4919.91	
MW-38	02/21/12	4929.10	9.38	4919.72	
MW-38	08/22/12	4929.10	8.88	4920.22	
MW-38	03/25/13	4929.10	9.15	4919.95	
MW-38	10/01/13	4929.10	8.85	4920.25	
MW-38	05/02/14	4931.87	8.96	4922.91	
MW-38	11/17/14	4931.87	9.18	4922.69	
MW-38	05/19/15	4931.87	8.78	4923.09	
MW-38	01/17/17	4931.87	8.96	4922.91	
MW-38	12/20/17	4931.87	8.83	4923.04	
MW-38	10/10/19	4931.87	8.36	4923.51	
MW-38	06/17/21	4931.87	8.58	4923.29	
MW-38	04/06/22	4931.87	9.06	4922.81	
MW-38	03/08/23	4931.87	9.29	4922.58	
NMW-1	04/22/04	4929.81	9.24	4920.57	
NMW-1	07/28/05	4929.81	9.22	4920.59	

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
NMW-1	11/03/05	4929.81	9.31	4920.50	
NMW-1	01/31/06	4929.81	10.70	4919.11	
NMW-1	05/17/06	4929.81	9.53	4920.28	
NMW-1	09/25/06	4929.81	9.62	4920.19	
NMW-1	12/26/06	4929.81	9.75	4920.06	
NMW-1	02/21/12	4929.81	9.93	4919.88	
NMW-1	08/22/12	4929.81	9.48	4920.33	
NMW-1	03/25/13	4929.81	9.75	4920.06	
NMW-1	10/01/13	4929.81	9.41	4920.40	
NMW-1	05/02/14	4932.62	9.55	4923.07	
NMW-1	11/17/14	4932.63	9.72	4922.91	***
NMW-1	05/19/15	4932.63	9.38	4923.25	
NMW-1	01/17/17	4932.63	9.57	4923.06	
NMW-1	12/20/17	4932.63	9.39	4923.24	
NMW-1	10/10/19	4932.63	8.96	4923.67	
NMW-1	06/17/21	4932.63	9.16	4923.47	
NMW-1	04/06/22	4932.63	9.72	4922.91	
NMW-1	03/08/23	4932.63	9.87	4922.76	
NMW-2	04/22/04	4930.38	10.03	4920.35	
NMW-2	07/28/05	4930.38			*Destroyed*
NMW-3	04/22/04	4930.56	10.28	4920.28	
NMW-3	07/28/05	4930.56			*Destroyed*
NMW-4	04/22/04	4929.02	10.33	4918.69	
NMW-4	07/28/05	4929.02			*NM*
NMW-4	11/03/05	4929.02			*NM*
NMW-4	01/31/06	4929.02			*NM*
NMW-4	05/17/06	4929.02			*NM*
NMW-4	09/25/06	4929.02	9.59	4919.43	
NMW-4	12/26/06	4929.02	10.94	4918.08	
NMW-4	02/21/12	4929.02	10.12	4918.90	
NMW-4	08/22/12	4929.02	9.59	4919.43	
NMW-4	03/25/13	4929.02	9.90	4919.12	
NMW-4	10/01/13	4929.02	9.59	4919.43	
NMW-4	04/30/14	4929.02			*Plugged*
NMW-4R	05/02/14	4932.53	9.91	4922.62	
NMW-4R	11/17/14	4932.53	10.12	4922.41	
NMW-4R	05/19/15	4932.53	9.68	4922.85	
NMW-4R	01/17/17	4932.53	9.88	4922.65	
NMW-4R	12/20/17	4932.53	9.75	4922.78	
NMW-4R	10/10/19	4932.53	9.24	4923.29	
NMW-4R	06/17/21	4932.53	9.47	4923.06	
NMW-4R	04/06/22	4932.53	10.03	4922.50	
NMW-4R	03/08/23	4932.53	10.20	4922.33	
RNMW-2	07/28/05	4930.88	10.33	4920.55	
RNMW-2	11/03/05	4930.88	10.44	4920.44	
RNMW-2	01/31/06	4930.88	11.23	4919.65	
RNMW-2	05/17/06	4930.88	10.64	4920.24	
RNMW-2	09/25/06	4930.88	10.72	4920.16	
RNMW-2	12/26/06	4930.88	10.92	4919.96	
RNMW-2	02/21/12	4930.88	11.09	4919.79	
RNMW-2	08/22/12	4930.88	10.61	4920.27	
RNMW-2	03/25/13	4930.88	10.90	4919.98	
RNMW-2	10/01/13	4930.88	10.57	4920.31	
RNMW-2	05/02/14	4933.74	10.70	4923.04	
RNMW-2	11/17/14	4933.45	10.87	4922.58	***

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
RNMW-2	05/19/15	4933.45	10.27	4923.18	
RNMW-2	01/17/17	4933.45	10.44	4923.01	
RNMW-2	12/20/17	4933.45	10.31	4923.14	
RNMW-2	10/10/19	4933.45	9.88	4923.57	
RNMW-2	06/17/21	4933.45	10.04	4923.41	
RNMW-2	04/06/22	4933.45	10.62	4922.83	**
RNMW-2	03/08/23	4933.45	10.79	4922.66	
RNMW-3	07/28/05	4930.42	9.89	4920.53	
RNMW-3	11/03/05	4930.42	9.99	4920.43	
RNMW-3	01/31/06	4930.42	10.80	4919.62	
RNMW-3	05/17/06	4930.42	10.20	4920.22	
RNMW-3	09/25/06	4930.42	10.27	4920.15	
RNMW-3	12/26/06	4930.42	10.49	4919.93	
RNMW-3	02/21/12	4930.42	10.65	4919.77	
RNMW-3	08/22/12	4930.42	10.17	4920.25	
RNMW-3	03/25/13	4930.42	10.45	4919.97	
RNMW-3	10/01/13	4930.42	10.12	4920.30	
RNMW-3	05/02/14	4933.22	10.23	4922.99	
RNMW-3	11/17/14	4933.22	10.45	4922.77	
RNMW-3	05/19/15	4933.22	10.06	4923.16	
RNMW-3	01/17/17	4933.22	10.22	4923.00	
RNMW-3	12/20/17	4933.22	10.09	4923.13	
RNMW-3	10/10/19	4933.22	9.65	4923.57	
RNMW-3	06/17/21	4933.22	9.84	4923.38	
RNMW-3	04/06/22	4933.22	10.38	4922.84	**
RNMW-3	03/08/23	4933.22	10.59	4922.63	
W-34	04/22/04	4928.70	7.92	4920.78	
W-34	07/28/05	4928.70	8.09	4920.61	
W-34	11/03/05	4928.70	8.11	4920.59	
W-34	01/31/06	4928.70	8.92	4919.78	
W-34	05/17/06	4928.70	8.40	4920.30	
W-34	09/25/06	4928.70	8.51	4920.19	
W-34	12/26/06	4928.70	8.61	4920.09	
W-34	02/21/12	4928.70	8.77	4919.93	
W-34	08/22/12	4928.70	8.33	4920.37	
W-34	03/25/13	4928.70	8.61	4920.09	
W-34	10/01/13	4928.70			*Paved over*
W-34	05/01/14	4932.53			*Plugged*
W-35	04/22/04	4928.93	8.14	4920.79	
W-35	07/28/05	4928.93	8.29	4920.64	
W-35	11/03/05	4928.93	8.31	4920.62	
W-35	01/31/06	4928.93	9.14	4919.79	
W-35	05/17/06	4928.93	8.64	4920.29	
W-35	09/25/06	4928.93	8.74	4920.19	
W-35	12/26/06	4928.93	8.83	4920.10	
W-35	02/21/12	4928.93	8.99	4919.94	
W-35	08/22/12	4928.93	8.55	4920.38	
W-35	03/25/13	4928.93	8.85	4920.08	
W-35	10/01/13	4928.93			*Paved over*
W-35	05/02/14	4931.50	8.65	4922.85	
W-35	11/17/14	4931.50	8.78	4922.72	
W-35	05/19/15	4931.50	8.44	4923.06	
W-35	01/17/17	4931.50	8.56	4922.94	
W-35	12/20/17	4931.50	8.47	4923.03	
W-35	10/10/19	4931.50			*Destroyed*

TABLE 1. FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*feet amsl*	*feet btoc*	*feet amsl*	
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**	**Notes**
W-36	04/22/04	4929.11	8.31	4920.80	
W-36	07/28/05	4929.11	8.48	4920.63	
W-36	11/03/05	4929.11	8.50	4920.61	
W-36	01/31/06	4929.11	9.30	4919.81	
W-36	05/17/06	4929.11	8.79	4920.32	
W-36	09/25/06	4929.11	8.92	4920.19	
W-36	12/26/06	4929.11	8.97	4920.14	
W-36	02/21/12	4929.11	9.15	4919.96	
W-36	08/22/12	4929.11	8.72	4920.39	
W-36	03/25/13	4929.11	9.01	4920.10	
W-36	10/01/13	4929.11			*Paved over*
W-36	05/02/14	4932.00	8.80	4923.20	
W-36	11/17/14	4932.00	8.97	4923.03	
W-36	05/19/15	4932.00	8.62	4923.38	
W-36	01/17/17	4932.00	8.76	4923.24	
W-36	12/20/17	4932.00	8.63	4923.37	
W-36	10/10/19	4932.00			*Destroyed*
W-37	04/22/04	4930.10	9.26	4920.84	
W-37	07/28/05	4930.10	9.43	4920.67	
W-37	11/03/05	4930.10	9.49	4920.61	
W-37	01/31/06	4930.10	10.22	4919.88	
W-37	05/17/06	4930.10	9.74	4920.36	
W-37	09/25/06	4930.10	9.90	4920.20	
W-37	12/26/06	4930.10	8.78	4921.32	
W-37	02/21/12	4930.10	10.09	4920.01	
W-37	08/22/12	4930.10	9.67	4920.43	
W-37	03/25/13	4930.10	9.97	4920.13	
W-37	10/01/13	4930.10			*Paved over*
W-37	05/01/14	4930.10			*Plugged*

NOTES:

The top of casing elevation for wells MW-2 and MW-3 were adjusted by -0.17 and -0.89, respectively, from the survey point on top of steel plate on pipe.

Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)

Vertical Control to NAVD88 Datum in feet above mean sea level

Measured in feet below the top of casing at survey point on north side of well

** = Well Destroyed during source area excavation*

*** = Replacement well installed 4/27/05*

**** =Surface completion/casing damaged at time of measurement*

NM = not measured

TABLE 2. GROUNDWATER GEOCHEMICAL PARAMETERS
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*S.U.*	*µS/cm*	*°C*	*mg/L*	*mV*	
Well	**Date**	**pH**	**SpC**	**Temp**	**DO**	**ORP**	**Notes**
BB-2	02/21/12		798	17.5	2.32		
BB-2	08/23/12	7.61	1,002	26.9	1.19		
BB-2	03/25/13	6.43	1,009	17.1	1.47		
BB-2	10/01/13	6.27	952	23.2			
BB-2	05/01/14	7.77	945	17.7	1.74		
BB-2	11/17/14	7.37	862	19.8	1.92		
BB-2	05/19/15	7.44	882	18.1	2.39		
BB-2	01/17/17	7.47	838	18.7	2.40		
BB-2	12/20/17	7.26	824	20.5	1.11	189	
BB-2	10/10/19	7.28	864	22.4			
MW-1	02/21/12						*Dry*
MW-1	08/22/12						*Dry*
MW-1	03/25/13						*Dry*
MW-1	10/01/13						*Dry*
MW-1	04/01/14						*Plugged*
MW-1R	05/01/14	7.80	803	19.4	1.55		
MW-1R	11/17/14	7.56	913	21.8	1.18		
MW-1R	05/19/15						*Bailed dry*
MW-1R	01/17/17						*Bailed dry*
MW-1R	12/20/17						*Not enough water*
MW-1R	10/10/19	7.42	1,041	23.4			
MW-1R	06/17/21	7.54	823	20.4	1.86	26	
MW-1R	06/17/21	7.54	823	20.4	1.86	26	
MW-1R	04/06/22	7.16	1,786	18.4	1.98	-117	
MW-1R	**03/08/23**	**7.36**	**562**	**18.6**	**1.22**	**26**	
MW-2	02/21/12		761	19.7	1.35		
MW-2	08/22/12	8.17	950	24.5	1.31		
MW-2	03/25/13	6.29	1,111	18.4	1.04		
MW-2	10/01/13	6.31	1,023	25.5			
MW-2	05/01/14	7.63	981	18.8	1.40		
MW-2	11/17/14	7.10	1,009	22.9	1.70		
MW-2	05/19/15	7.21	816	19.1	1.86		
MW-2	01/17/17	7.11	1,060	20.6	2.02		
MW-2	12/20/17	6.82	1,225	22.6	1.14	206	
MW-2	10/10/19	7.19	960	24.1			
MW-3	02/21/12		898	18.4	1.15		
MW-3	08/23/12	8.48	963	20.9	1.07		
MW-3	03/25/13	6.64	1,021	17.6	0.97		
MW-3	10/10/13	7.23	942	22.6	1.15		
MW-3	05/01/14	7.70	1,043	19.1	1.77		
MW-3	11/17/14	7.45	941	20.9	1.35		
MW-3	05/19/15	7.52	994	19.8	3.33		
MW-3	01/17/17	7.37	907	20.6	1.55		
MW-3	12/20/17	7.21	934	21.8	0.48	164	
MW-3	10/10/19						*Could not locate well*
MW-4	02/22/12	6.09	981	13.8	1.21		
MW-4	08/23/12	8.11	980	24.9	1.38		
MW-4	03/25/13	6.42	946	18.0	1.20		
MW-4	10/01/13						*Destroyed*
MW-4	04/01/14						*Plugged*
MW-4R	05/01/14	7.69	922	20.0	2.18		
MW-4R	11/17/14	7.50	649	21.6	0.85		
MW-4R	05/19/15	7.60	664	19.8	1.32		
MW-4R	01/17/17	7.35	864	20.3	1.73		
MW-4R	12/20/17	7.35	771	22.5	1.04	193	
MW-4R	10/10/19	7.48	779	22.6			
MW-4R	06/14/21	7.42	832	21.2	0.80	111	
MW-4R	06/17/21	7.42	832	21.2	0.80	111	
MW-4R	04/06/22	7.21	1,418	19.9	1.06	-78	
MW-4R	**03/08/23**	**7.25**	**542**	**19.1**	**0.61**		
MW-5	02/21/12						*Dry*
MW-5	08/22/12						*Dry*
MW-5	03/25/13						*Dry*
MW-5	10/01/13						*Dry*
MW-5	04/01/14						*Dry*
MW-6	02/22/12	6.37	631	15.6			
MW-6	04/01/14						*Dry*
MW-6	04/29/14						*Dry*
MW-6R	05/01/14	7.93	880	20.0	2.19		
MW-6R	11/17/14						*Destroyed*
MW-6RR	12/22/14	7.18	815	21.1	1.40		
MW-6RR	05/19/15	7.54	734	19.7	1.10		
MW-6RR	01/17/17	7.37	780	21.0	1.63		

TABLE 2. GROUNDWATER GEOCHEMICAL PARAMETERS
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*S.U.*	*µS/cm*	*°C*	*mg/L*	*mV*	
Well	**Date**	**pH**	**SpC**	**Temp**	**DO**	**ORP**	**Notes**
MW-6RR	12/20/17	7.39	770	22.0	1.00	194	
MW-6RR	10/10/19	7.51	783	23.3			
MW-6RR	06/17/21	7.42	775	20.9	0.97	56	
MW-6RR	06/17/21	7.42	775	20.9	0.97	56	
MW-6RR	04/06/22	7.26	1,207	18.7	1.27	21	
MW-6RR	**03/08/23**	**7.18**	**505**	**19.6**	**0.69**	**56**	
MW-29	02/21/12		884	16.7	1.82		
MW-29	08/23/12	7.18	1,179	26.3	0.99		
MW-29	03/25/13	6.35	1,231	16.2	1.34		
MW-29	10/01/13	6.29	1,024	24.9			
MW-29	05/01/14						*Plugged*
MW-38	02/21/12		859	17.8	1.08		
MW-38	08/23/12	7.79	1,090	25.1	2.10		
MW-38	03/25/13	6.41	1,034	17.4	0.77		
MW-38	10/01/13	6.13	1,003	25.4			
MW-38	05/01/14	7.59	984	19.0	1.53		
MW-38	11/17/14	7.20	880	21.7	1.76		
MW-38	05/19/15	7.06	488	19.3	2.82		
MW-38	01/17/17	6.96	950	19.1	1.48		
MW-38	12/20/17	6.87	975	18.9	1.60	183	
MW-38	10/10/19	7.13	897	23.4			
MW-38	06/17/21	6.93	937	21.0	1.20	126	
MW-38	06/17/21	6.93	937	21.0	1.20	126	
MW-38	04/06/22	6.86	1,633	17.6	1.17	-8	
MW-38	**03/08/23**	**7.19**	**720**	**18.0**	**0.98**	**126**	
NMW-1	02/21/12		904	18.2	1.18		
NMW-1	08/23/12	8.43	1,066	24.1	1.11		
NMW-1	03/26/13	6.31	1,124	17.1	0.63		
NMW-1	10/01/13	6.30	1,091	26.0			
NMW-1	05/02/14	7.29	1,174	19.0	1.31		
NMW-1	11/17/14	7.09	986	23.1	1.06		
NMW-1	05/19/15	6.92	1,015	19.9	1.22		
NMW-1	01/17/17	7.03	948	20.1	1.42		
NMW-1	12/20/17	6.85	1,097	22.6	0.28	150	
NMW-1	10/10/19	7.03	889	25.5			
NMW-1	06/17/21	6.80	1,311	21.8	0.50	-9	
NMW-1	06/17/21	6.80	1,311	21.8	0.50	-9	
NMW-1	04/06/22	6.75	2,006	18.3	0.82	-135	
NMW-1	**03/08/23**	**6.78**	**827**	**17.8**	**1.19**	**-9**	
NMW-4	04/01/14						*Plugged*
NMW-4R	05/01/14						*Developed at 4 gpm. 180 gallons removed.*
NMW-4R	11/17/14	7.36	513	20.9	1.31		
NMW-4R	05/19/15	7.44	784	19.2	2.12		
NMW-4R	01/17/17	7.42	567	19.3	1.75		
NMW-4R	12/20/17	7.28	433	21.4	0.37	192	
NMW-4R	10/10/19	6.82	529	22.6			
NMW-4R	06/17/21	7.32	615	20.4	2.52	65	
NMW-4R	06/17/21	7.32	615	20.4	2.52	65	
NMW-4R	04/06/22	7.05	1,307	19.2	1.05	-54	
NMW-4R	**03/08/23**	**7.25**	**542**	**19.1**	**0.61**	**65**	
RNMW-2	02/21/12		852	19.3	1.14		
RNMW-2	08/22/12	7.84	1,176	23.1	1.28		
RNMW-2	03/26/13	6.43	1,048	18.6	0.74		
RNMW-2	10/01/13	6.49	1,051	24.5			
RNMW-2	05/02/14	7.47	1,053	19.2	1.30		
RNMW-2	11/17/14	7.32	871	22.2	0.56		
RNMW-2	05/19/15	7.35	847	19.7	1.33		
RNMW-2	01/17/17	7.26	933	20.4	1.78		
RNMW-2	12/20/17	7.04	1,232	22.0	1.30	165	
RNMW-2	10/10/19	7.13	1,015	24.5			
RNMW-2	06/17/21	7.08	967	21.4	1.20	7	
RNMW-2	06/17/21	7.08	967	21.4	1.20	7	
RNMW-2	04/06/22	6.86	1,709	18.9	0.83	-71	
RNMW-2	**03/08/23**	**6.92**	**1,235**	**18.2**	**0.57**	**7**	
RNMW-3	02/21/12		976	19.1	1.52		
RNMW-3	08/23/12	8.28	1,128	25.2	1.21		
RNMW-3	03/26/13	6.71	1,002	18.5	0.70		
RNMW-3	10/01/13	6.37	1,065	25.0			
RNMW-3	05/02/14	7.53	1,009	19.7	1.54		
RNMW-3	11/17/14	7.32	1,007	22.5	1.48		
RNMW-3	05/19/15	7.36	889	20.3	1.31		
RNMW-3	01/17/17	7.25	628	20.8	2.01		

TABLE 2. GROUNDWATER GEOCHEMICAL PARAMETERS
ATEX 213, ALBUQUERQUE, NEW MEXICO

Units		*S.U.*	*µS/cm*	*°C*	*mg/L*	*mV*	
Well	**Date**	**pH**	**SpC**	**Temp**	**DO**	**ORP**	**Notes**
RNMW-3	12/20/17	7.23	1,117	21.2	0.40	178	
RNMW-3	10/10/19	7.32	1,038	24.9			
RNMW-3	06/17/21	7.20	1,087	21.7	1.40	51	
RNMW-3	06/17/21	7.20	1,087	21.7	1.40	51	
RNMW-3	04/06/22	7.02	1,667	19.0	1.02	-63	
RNMW-3	**03/08/23**	**7.05**	**920**	**18.0**	**0.73**	**51**	
W-34	02/21/12		820	18.5	1.07		
W-34	08/22/12	7.59	822	23.4	1.02		
W-34	03/25/13	6.55	1,129	17.3	0.77		
W-34	10/01/13						*Paved over*
W-34	05/01/14						*Plugged*
W-35	02/21/12		852	17.7	0.97		
W-35	08/22/12	7.73	1,091	25.0	0.96		
W-35	03/25/13	6.63	1,238	16.7	0.84		
W-35	10/01/13						*Paved over. Uncovered in May 2014*
W-35	05/02/14	7.44	1,148	19.5	0.91		*Uncovered*
W-35	11/17/14	7.28	1,065	22.6	2.48		
W-35	05/19/15	7.37	889	21.0	1.78		
W-35	01/17/17	7.31	818	19.6	1.69		
W-35	12/20/17	7.25	960	22.1	0.92	189	
W-35	10/10/19						*Could not locate well*
W-36	02/21/12		863	18.0	1.25		
W-36	08/22/12	8.14	976	24.6	1.06		
W-36	03/25/13	6.24	1,143	17.5	0.75		
W-36	10/01/13						*Paved over. Uncovered in May 2014*
W-36	05/02/14	7.39	878	18.8	3.03		
W-36	11/17/14	7.24	847	22.1	1.66		
W-36	05/19/15	7.22	677	19.6	1.63		
W-36	01/17/17	7.19	862	19.6	1.82		
W-36	12/20/17	7.20	990	21.8	0.55	184	
W-36	10/10/19						*Could not locate well*
W-37	02/21/12		819	19.9	1.21		
W-37	08/22/12	6.82	1,012	24.3	1.15		
W-37	03/25/13	6.86	1,085	19.1	1.04		
W-37	10/01/13						*Paved over*
W-37	05/01/14						*Plugged*

NOTES:
DO = Dissolved oxygen in milligrams per liter (mg/L)
ORP = Oxidation-Reduction Potential in millivolts (mVs)
pH = Potentila of Hydrogen, standard units (S.U.)
SpC = Specific conductance in microsiemens per centimeter (µS/cm)

TABLE 3. ANALYTES, METHODS, CONTAINERS, PRESERVATION, HANDLING, AND HOLDING TIME
ATEX 213, ALBUQUERQUE, NEW MEXICO

Target Analytes	Matrix	Analytical Method	Sample Container	Preservative and Handling	Holding Time
Volatile Organic Compounds	Groundwater	EPA 8260B	3 x 40-mL glass vials	Mercuric Chloride; Place on Ice	14 days
Nitrate	Groundwater	EPA 300.0	125-mL plastic	Sulfuric Acid	48 hours
Sulfate	Groundwater	EPA 300.0	125-mL plastic	Place on Ice	28 days
Total Dissolved Solids	Groundwater	SM2540C Modified	250-mL plastic	Place on Ice	7 days

Notes:
°C = Degrees Celcius
EPA = U.S. Environmental Protection Agency
mL = Milliliters
SM = Standard Method

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*	*5*	*0.05*				
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
BB-2	01/01/98	**5.8**	< 5.0	50	21	**1,200**							
BB-2	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10						
BB-2	07/29/05	< 1.0	< 1.0	4.6	< 1.0	< 2.0	7.6						
BB-2	09/25/06	< 1.0	< 1.0	1.1	< 1.0	< 1.5	16						
BB-2	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	**290**	< 4.0						
BB-2	08/23/12	< 1.0	< 1.0	1.3	< 1.5	94	17						
BB-2	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	**150**	< 4.0						
BB-2	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	53	< 4.0						
BB-2	05/01/14	< 1.0	< 1.0	< 1.0	< 1.5	17	< 4.0						
BB-2	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	26	< 4.0						
BB-2	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	27	3.9						
BB-2	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	41	3.9	< 1.0	< **1.0**				
BB-2	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	20	4.2	< 1.0	< **1.0**				
BB-2	10/10/19	< 1.0	< 1.0	3.8	< 1.5	17	**232**	< 1.0	< **1.0**				
BB-2	06/17/21												*Obstruction*
MW-1	01/01/98	< **5.0**	110	320	370	**2,200**							
MW-1	04/22/04	< 1.0	< 1.0	4.8	< 1.0	< 1.0	4.3	< 1.0	< 0.010				
MW-1	07/28/05												*Dry*
MW-1	11/03/05												*Dry*
MW-1	01/31/06												*Dry*
MW-1	05/17/06												*Dry*
MW-1	09/25/06												*Dry*
MW-1	12/26/06												*Dry*
MW-1	02/21/12												*Dry*
MW-1	08/22/12												*Dry*
MW-1	10/01/13												*Dry*
MW-1	04/29/14												*Plugged*
MW-1R	05/01/14	< **10**	< 10	440	260	< 10	**534**						
MW-1R	11/17/14	< 1.0	1.6	50	4.6	< 1.0	**60**						
MW-1R	05/19/15	< 1.0	< 1.0	21	< 1.5	< 1.0	13						
MW-1R	01/17/17	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 8.0	< 1.0	< **1.0**				
MW-1R	12/20/17												*Dry*
MW-1R	10/10/19	< 1.0	< 1.0	1.5	< 1.5	< 1.0	13	< 1.0	< **1.0**				
MW-1R	06/17/21	< 1.0	< 1.0	2.2	< 1.5	< 1.0	**37**	< 1.0	< **1.0**				
MW-1R	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	4.3	< 1.0	< **1.0**	< 0.50	200		
MW-1R	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 1.0	< **1.0**	< 0.50	110	478	*Adjusted results for plotting*
MW-1R Diluted	03/08/23	< **50**	< 50	< 50	< 75	< 50	< **500**						*Actual 50-x diluted reported results. Matrix interference due to presence of PetroFix®*
MW-2	01/01/98	1.9	< 5.0	0.7	0.7	10							
MW-2	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 0.010				
MW-2	07/28/05	< 1.0	< 1.0	< 1.0	< 1.0	3.6	< 10	< 1.0	< 0.010				
MW-2	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 0.010				
MW-2	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	1.9	< 10	< 1.0	< 0.010				
MW-2	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	2.5	< 10	< 1.0	< 0.010				
MW-2	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-2	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	3.0	< 4.0						
MW-2	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-2	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-2	05/01/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-2	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-2	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-2	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*	*5*	*0.05*				
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
MW-2	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
MW-2	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
MW-2	06/17/21												*Could not locate well*
MW-3	01/01/98	**2,400**	110	320	370	**2,200**							
MW-3	04/22/04	**100**	< 10	25	11	**320**	**98**	< **10**	< 0.010				
MW-3	07/28/05	**52**	< 10	14	< 10	**410**	**90**	< **10**	< 0.010				
MW-3	11/03/05	**180**	9.7	58	47	**920**	**438**	< **5.0**	< 0.010				
MW-3	01/31/06	**60**	< 20	83	110	**500**	**170**	< **20**	< 0.010				
MW-3	05/17/06	**46**	6.5	29	55	**230**	**142**	< **5.0**	< 0.010				
MW-3	09/25/06	**62**	11	37	100	**230**	**180**	< **5.0**	< 0.010				
MW-3	12/26/06	**160**	58	220	460	**530**	**610**	< **5.0**	< 0.010				
MW-3	02/21/12	**7.4**	< 5.0	37	55	< 5.0	**142**						
MW-3	08/23/12	**6.4**	< 5.0	19	28	< 5.0	**60**						
MW-3	03/26/13	3.7	1.8	18	22	< 1.0	**108**						
MW-3	05/01/14	< 1.0	< 1.0	3.6	2.4	< 1.0	25	< **5.0**	< 0.010				
MW-3	11/17/14	3.5	< 2.0	17	8.6	< 2.0	**119**						
MW-3	05/19/15	2.3	1.4	12	8.4	< 1.0	**127**						
MW-3	01/17/17	1.7	1.6	16	7.2	< 1.0	**166**	< 2.0	< **2.0**				
MW-3	12/20/17	2.4	1.4	17	7.1	< 1.0	**190**	< 1.0	< **1.0**				
MW-4	04/22/04	**590**	< 10	< 10	< 10	**1,400**	< **100**	< **10**	< 0.010				
MW-4	07/28/05	< 1.0	< 1.0	< 1.0	< 1.0	**720**	< 10	< 1.0	< 0.010				
MW-4	11/03/05	< **5.0**	< 5.0	< 5.0	< 5.0	**500**	< **50**	< **5.0**	< 0.010				
MW-4	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	**220**	< 10	< 1.0	< 0.010				
MW-4	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	**180**	< 10	< 1.0	< 0.010				
MW-4	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	**580**	< 10	< 1.0	< 0.010				
MW-4	12/26/06	**93**	< 10	< 10	< 30	**790**	< **100**	< **10**	< 0.010				
MW-4	02/22/12	< 1.0	< 1.0	< 1.0	< 1.5	18	< 4.0						
MW-4	08/23/12	< 1.0	< 1.0	< 1.0	< 1.5	46	< 4.0						
MW-4	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	62	< 4.0						
MW-4	10/01/13												*Destroyed*
MW-4	04/29/14							< **10**	< 0.010				*Plugged*
MW-4R	05/01/14	**29**	< 1.0	3.8	< 1.5	55	**65**						
MW-4R	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	8.0	< 4.0						
MW-4R	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	3.5	< 4.0						
MW-4R	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	7.0	< 4.0	< 1.0	< **1.0**				
MW-4R	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
MW-4R	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
MW-4R	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	1.3	< 4.0	< 1.0	< **1.0**				
MW-4R	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	1.7	< 10	< 1.0	< **1.0**	<	0.50	100	
MW-4R	03/08/23	1.7	< 1.0	< 1.0	< 1.5	4.3	< 10	< 1.0	< **1.0**	<	0.50	82	489
MW-5	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5							
MW-5	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	**280**	< 10	< 1.0	< 0.010				
MW-5	07/29/05	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 10	< 1.0	< 0.010				
MW-5	11/03/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 0.010				
MW-5	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	**190**	< 10	< 1.0	< 0.010				
MW-5	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	< 1.0	< 0.010				
MW-5	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	< **10**	< 0.010				
MW-5	12/26/06	< 1.0	< 1.0	< 1.0	< 3.0	25	< 10						
MW-5	02/21/12												*Dry*
MW-5	08/22/12												*Dry*
MW-5	03/25/13												*Dry*
MW-5	10/01/13												*Dry*
MW-5	05/01/14							< **10**	< 0.010				*Plugged*

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*	*5*	*0.05*				
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
MW-6	04/23/04	**50**	< 10	14	15	**830**	**140**		< 0.010				
MW-6	07/29/05	**45**	< 20	< 20	< 20	**800**	**210**		< 0.010				
MW-6	11/03/05	**46**	< 5.0	28	16	**570**	**380**		< 0.010				
MW-6	01/31/06	**24**	< 10	20	13	**730**	**253**		< 0.010				
MW-6	05/17/06	**20**	< 10	11	< 30	**490**	**160**		< 0.010				
MW-6	09/25/06	**84**	< 5.0	32	15	**1,200**	**630**		< 0.010				
MW-6	12/26/06	**33**	< 10	16	< 30	**720**	**395**		< 0.010				
MW-6	02/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-6	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	1.8	< 4.0						
MW-6	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	1.1	< 4.0						
MW-6	10/01/13												*Dry*
MW-6	04/29/14								< 0.010				*Plugged*
MW-6R	05/01/14	1.6	< 1.0	6.6	< 1.5	6.2	**56**						
MW-6R	11/17/14												*Destroyed*
MW-6RR	12/22/14	< **5.0**	< 5.0	130	27	13	**262**	< **5.0**	< **5.0**				
MW-6RR	05/19/15	< 1.0	< 1.0	24	3.2	4.6	**39**						
MW-6RR	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	4.3						
MW-6RR	12/20/17	3.4	< 1.0	< 1.0	< 1.5	1.5	7.2	< 1.0	< **1.0**				
MW-6RR	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
MW-6RR	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
MW-6RR	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 1.0	< **1.0**	< 0.50	95		
MW-6RR	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 1.0	< **1.0**	< 0.50	100	433	
MW-29	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5							
MW-29	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	14	< 10						
MW-29	07/29/05	< 1.0	< 1.0	< 1.0	< 1.0	6.8	< 10						
MW-29	09/25/06	< 1.0	< 1.0	< 1.0	< 1.0	7.5	< 10						
MW-29	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-29	08/23/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-29	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-29	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-29	05/01/14												*Plugged*
MW-38	01/01/98	**46**	1.2	8.1	7.6	9.0							
MW-38	04/22/04	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 10						
MW-38	07/29/05	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 10						
MW-38	11/03/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10						
MW-38	01/31/06	2.5	< 1.0	< 1.0	< 1.0	< 1.0	2.5						
MW-38	05/17/06	1.4	< 1.0	< 1.0	< 3.0	< 1.5	< 10						
MW-38	09/25/06	1.5	< 1.0	< 1.0	< 3.0	< 1.5	3.1						
MW-38	12/26/06	**13**	< 1.0	2.5	< 3.0	< 1.5	12						
MW-38	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-38	08/23/12	1.5	< 1.0	< 1.0	< 1.5	1.2	15						
MW-38	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-38	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-38	05/01/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-38	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-38	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
MW-38	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
MW-38	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
MW-38	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
MW-38	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
MW-38	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 1.0	< **1.0**	< 0.50	130		
MW-38	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	< 1.0	< **1.0**	< 0.50	120	604	
NMW-1	01/01/98												*NAPL*

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*	*5*	*0.05*				
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
NMW-1	04/22/04	**990**	200	28	**1,100**	**580**	**272**						
NMW-1	07/28/05	**1,100**	390	< 50	**3,600**	**840**	**920**						
NMW-1	11/03/05	**710**	170	< 50	**640**	**480**	**190**						
NMW-1	01/31/06	**810**	56	< 50	**1,100**	**570**	**220**						
NMW-1	05/17/06	**340**	95	< 20	**1,700**	**320**	**840**						
NMW-1	09/25/06	**410**	< 10	< 10	86	**420**	**140**						
NMW-1	12/26/06	**950**	55	44	**900**	**750**	**760**						
NMW-1	02/21/12	**390**	< 10	33	38	**110**	**92**						
NMW-1	08/23/12	**490**	< 10	23	70	94	**48**						
NMW-1	03/26/13	**510**	17	22	71	**130**	**126**						
NMW-1	10/01/13	**290**	8.4	3.1	39	44	**52**						
NMW-1	05/02/14	**190**	1.6	5.9	6.3	35	25						
NMW-1	11/17/14	**52**	< 5.0	5.3	19	9.3	< 20						
NMW-1	05/19/15	**430**	11	100	140	62	**140**						
NMW-1	01/17/17	**220**	< 5.0	47	32	16	**59**	< **5.0**	< **5.0**				
NMW-1	12/20/17	**79**	1.0	3.0	4.7	11	23	< 1.0	< **1.0**				
NMW-1	10/10/19	**84**	1.0	3.6	13	12	22	< 1.0	< **1.0**				
NMW-1	06/17/21	**56**	< 1.0	3.1	< 1.5	11	14	< 1.0	< **1.0**				
NMW-1	04/06/22	**32**	< 1.0	1.4	3.4	4.5	8.4	< 1.0	< **1.0**	< 0.50	200		
NMW-1	03/08/23	**42**	< 2.0	< 2.0	< 3.0	8.0	5.4	< 2.0	< **2.0**	< 0.50	140	704	
NMW-4	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5							
NMW-4	04/23/04	< 1.0	< 1.0	< 1.0	< 1.0	2.7	< 10						
NMW-4	07/29/05	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 10						
NMW-4	11/03/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10						
NMW-4	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10						
NMW-4	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	9.7	< 10						
NMW-4	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10						
NMW-4	12/26/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10						
NMW-4	02/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
NMW-4	08/23/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
NMW-4	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
NMW-4	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
NMW-4	04/30/14												*Plugged*
NMW-4R	05/01/14	**8.0**	2.6	< 1.0	< 1.5	11	< 4.0						
NMW-4R	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
NMW-4R	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	18	< 4.0						
NMW-4R	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	2.0	< 4.0	< 1.0	< **1.0**				
NMW-4R	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
NMW-4R	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0	< 1.0	< **1.0**				
NMW-4R	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	3.1	< 4.0	< 1.0	< **1.0**				
NMW-4R	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	1.9	< 10	< 1.0	< **1.0**	< 0.50	91		
NMW-4R	03/08/23	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 20	< 2.0	< **2.0**	< 0.50	82	441	
W-34	01/01/98	1.2	< 5.0	7.6	7.2	< 2.5							
W-34	05/06/04	< 1.0	< 1.0	6.7	3.4	< 1.0	< 10						
W-34	07/28/05	< 1.0	< 1.0	3.7	1.3	< 1.0	< 10						
W-34	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10						
W-34	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
W-34	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
W-34	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
W-34	10/01/13												*Paved over*
W-34	05/01/14												*Plugged*
W-35	01/01/98	< **5.0**	190	**1,700**	**5,600**	< 10							
W-35	05/06/04	< 1.0	< 1.0	110	96	< 1.0	**164**						

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*	*5*	*0.05*				
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
W-35	07/28/05	< **5.0**	< 5.0	250	42	< 5.0	**400**						
W-35	09/25/06	< 1.0	< 1.0	12	< 3.0	< 1.5	**188**						
W-35	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
W-35	08/22/12	< 1.0	< 1.0	6.9	< 1.5	< 1.0	**55**						
W-35	03/25/13	< 1.0	< 1.0	32	< 1.5	< 1.0	**399**						
W-35	10/01/13												*Paved over*
W-35	05/02/14	< 1.0	< 1.0	7.5	< 1.5	< 1.0	**124**						
W-35	11/17/14	< 1.0	< 1.0	15	< 1.5	< 1.0	**99**						
W-35	05/19/15	< 1.0	< 1.0	3.6	< 1.5	< 1.0	**45**						
W-35	01/17/17	< 1.0	< 1.0	16	< 1.5	< 1.0	**525**	< 1.0	< **1.0**				
W-35	12/20/17	< 2.0	< 2.0	5.2	< 3.0	< 2.0	**128**	< 2.0	< **2.0**				
W-35	10/10/19												*Could not locate well*
W-36	01/01/98	< **5.0**	4.4	39	56	12							
W-36	05/06/04	< **10**	< 10	190	390	< 10	**230**						
W-36	07/28/05	< 1.0	< 1.0	55	77	< 1.0	**77**						
W-36	11/03/05	< 1.0	< 1.0	2.9	3.6	< 1.0	3.3						
W-36	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10						
W-36	05/17/06	< 1.0	< 1.0	3.0	< 3.0	< 1.5	4.1						
W-36	09/25/06	< 1.0	< 1.0	23	3.0	< 1.5	**82**						
W-36	12/26/06	< 1.0	< 1.0	15	4.5	< 1.5	**55**						
W-36	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
W-36	08/22/12	< 1.0	< 1.0	2.3	< 1.5	< 1.0	11						
W-36	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
W-36	10/01/13												*Paved over*
W-36	05/02/14	< 1.0	< 1.0	2.4	< 1.5	< 1.0	12						
W-36	11/17/14	< 1.0	< 1.0	3.8	< 1.5	< 1.0	17						
W-36	05/19/15	< 1.0	< 1.0	2.6	< 1.5	< 1.0	**31**						
W-36	01/17/17	< 1.0	< 1.0	1.1	< 1.5	< 1.0	18	< 1.0	< **1.0**				
W-36	12/20/17	< 1.0	< 1.0	4.1	< 1.5	< 1.0	**70**	< 1.0	< **1.0**				
W-36	10/10/19												*Could not locate well*
W-37	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5							
W-37	05/06/04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10						
W-37	07/28/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10						
W-37	09/25/06	< 1.0	< 1.0	12	< 3.0	< 1.5	< 10						
W-37	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
W-37	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
W-37	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 4.0						
W-37	10/01/13												*Paved over*
W-37	05/01/14												*Plugged*
NMW-2/RNMW-2	04/23/04												*NAPL*
NMW-2/RNMW-2	07/28/05	**320**	11	**710**	120	**1,300**	**39**						
NMW-2/RNMW-2	11/03/05	**74**	1.1	160	52	**590**	27						
NMW-2/RNMW-2	01/31/06	**11**	< 1.0	45	4.1	**560**	3.0						
NMW-2/RNMW-2	05/17/06	**310**	< 1.0	31	19	**550**	14						
NMW-2/RNMW-2	09/25/06	**20**	< 10	16	< 30	**1,300**	< **100**						
NMW-2/RNMW-2	12/26/06	**47**	< 10	< 10	< 30	**1,000**	20						
NMW-2/RNMW-2	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	83	< 4.0						
NMW-2/RNMW-2	08/22/12	**54**	< 1.0	< 1.0	< 1.5	**290**	9.6						
NMW-2/RNMW-2	03/26/13	**99**	1.2	1.7	2.2	**220**	7.4						
NMW-2/RNMW-2	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	61	< 4.0						
NMW-2/RNMW-2	05/02/14	**12**	< 1.0	< 1.0	< 1.5	72	< 4.0						
NMW-2/RNMW-2	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	62	< 4.0						
NMW-2/RNMW-2	05/19/15	**12**	< 1.0	< 1.0	< 1.5	50	2.3						

TABLE 4. GROUNDWATER ANALYTICAL RESULTS
ATEX 213, ALBUQUERQUE, NEW MEXICO

NMAC 20.6.2.3103		*5*	*1,000*	*700*	*620*	*100*	*30*	*5*	*0.05*				
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
NMW-2/RNMW-2	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	23	< 4.0	< 1.0	< **1.0**				
NMW-2/RNMW-2	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	18	< 4.0	< 1.0	< **1.0**				
NMW-2/RNMW-2	10/10/19	**120**	1.9	3.4	2.8	**110**	**80**	< 1.0	< **1.0**				
NMW-2/RNMW-2	06/17/21	**13**	< 2.0	< 2.0	< 3.0	44	< 8.0	< 2.0	< **2.0**				
NMW-2/RNMW-2	04/06/22	**44**	< 2.0	< 2.0	< 3.0	51	13	< 1.0	< **1.0**	< 0.50	68		
NMW-2/RNMW-2	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	46	< 10	< 1.0	< **1.0**	< 0.50	100	720	
NMW-3/RNMW-3	01/01/98												*NAPL*
NMW-3/RNMW-3	04/23/04												*NAPL*
NMW-3/RNMW-3	07/28/05	**150**	23	270	130	**1,200**	**32**						
NMW-3/RNMW-3	11/03/05	**130**	7.7	89	170	**1,400**	**32**						
NMW-3/RNMW-3	01/31/06	**11**	< 1.0	16	6.4	**550**	3.3						
NMW-3/RNMW-3	05/17/06	**16**	< 1.0	7.9	< 3.0	**370**	< 10						
NMW-3/RNMW-3	09/25/06	**220**	< 5.0	64	< 15	**1,400**	**110**						
NMW-3/RNMW-3	12/26/06	**6.4**	< 5.0	< 5.0	< 15	**580**	< **50**						
NMW-3/RNMW-3	02/21/12	1.8	< 1.0	< 1.0	< 1.5	**120**	4.9						
NMW-3/RNMW-3	08/23/12	1.2	< 1.0	< 1.0	< 1.5	**170**	5.5						
NMW-3/RNMW-3	03/26/13	4.6	< 1.0	< 1.0	< 1.5	86	5.4						
NMW-3/RNMW-3	10/01/13	1.2	< 1.0	< 1.0	< 1.5	83	4.0						
NMW-3/RNMW-3	05/02/14	< 1.0	< 1.0	< 1.0	< 1.5	31	< 4.0						
NMW-3/RNMW-3	11/17/14	1.1	< 1.0	< 1.0	< 1.5	63	< 4.0						
NMW-3/RNMW-3	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	**46**	< 4.0						
NMW-3/RNMW-3	01/17/17	1.3	< 1.0	< 1.0	< 1.5	64	10	< 1.0	< 1.0				
NMW-3/RNMW-3	12/20/17	2.0	< 1.0	< 1.0	< 1.5	**61**	10	< 1.0	< 1.0				
NMW-3/RNMW-3	10/10/19	1.5	< 1.0	< 1.0	< 1.5	30	9.6	< 1.0	< 1.0				
NMW-3/RNMW-3	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	11	< 4.0	< 1.0	< 1.0				
NMW-3/RNMW-3	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	5.5	< 10	< 1.0	< 1.0	< 0.10	100	586	
NMW-3/RNMW-3	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	13	< 10	< 1.0	< 1.0	< 0.50	75	633	

NOTES:

BOLD RED *indicates concentration above the New Mexico Administrative Code 20.6.2.3103 Human Health Standards for Groundwater*

All concentrations reported in micrograms per liter (µg/L).

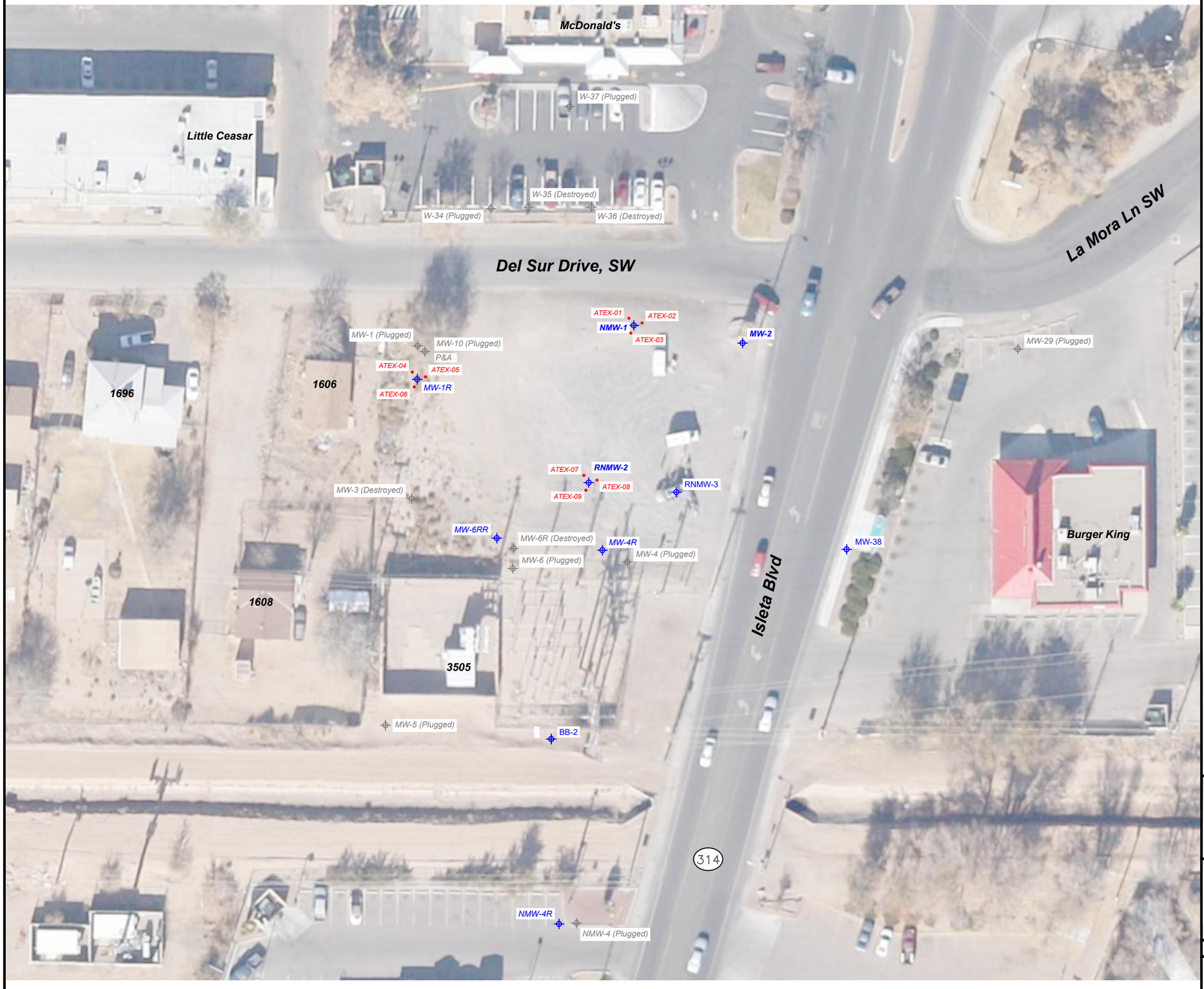
All data reported prior to 2012 from Groundwater Monitoring Report, Atex #213 UST Release Site, Albuquerque, New Mexico (Souder Miller Associates, 2007).

EDB = Ethylene Dibromide

EDC = Ethylene Dichloride

MTBE = Methyl tertiary-butyl ether

Figures



LEGEND:

- MW-2 — MONITORING WELL
- MW-6 P&A — PLUGGED WELL
- PETROFIX INJECTION POINT

50 25 0 50

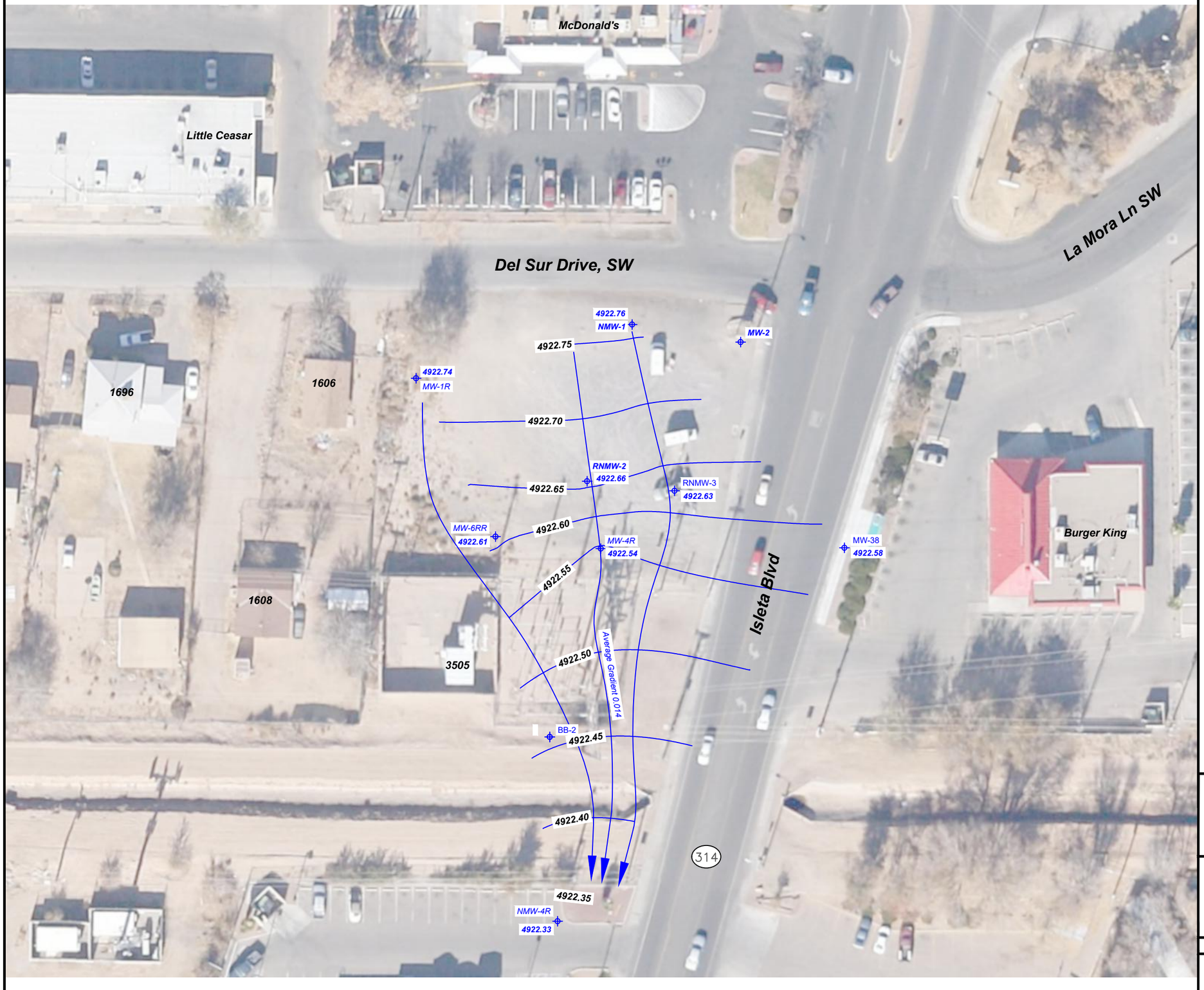
SCALE IN FEET

ATEX 213
ALBUQUERQUE, NEW MEXICO

FIGURE 1
SITE LAYOUT

PROJECT #:	6332224	PROJECT PHASE:	01	PROJECT MANAGER:	LA

320 Gold Avenue, SW Suite 1300
Albuquerque, NM 87102
EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC. PBC



LEGEND:

- MW-2 — MONITORING WELL
- 4922.50 — GROUNDWTATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
- GROUNDWATER FLOW DIRECTION

N

50 25 0 50

SCALE IN FEET

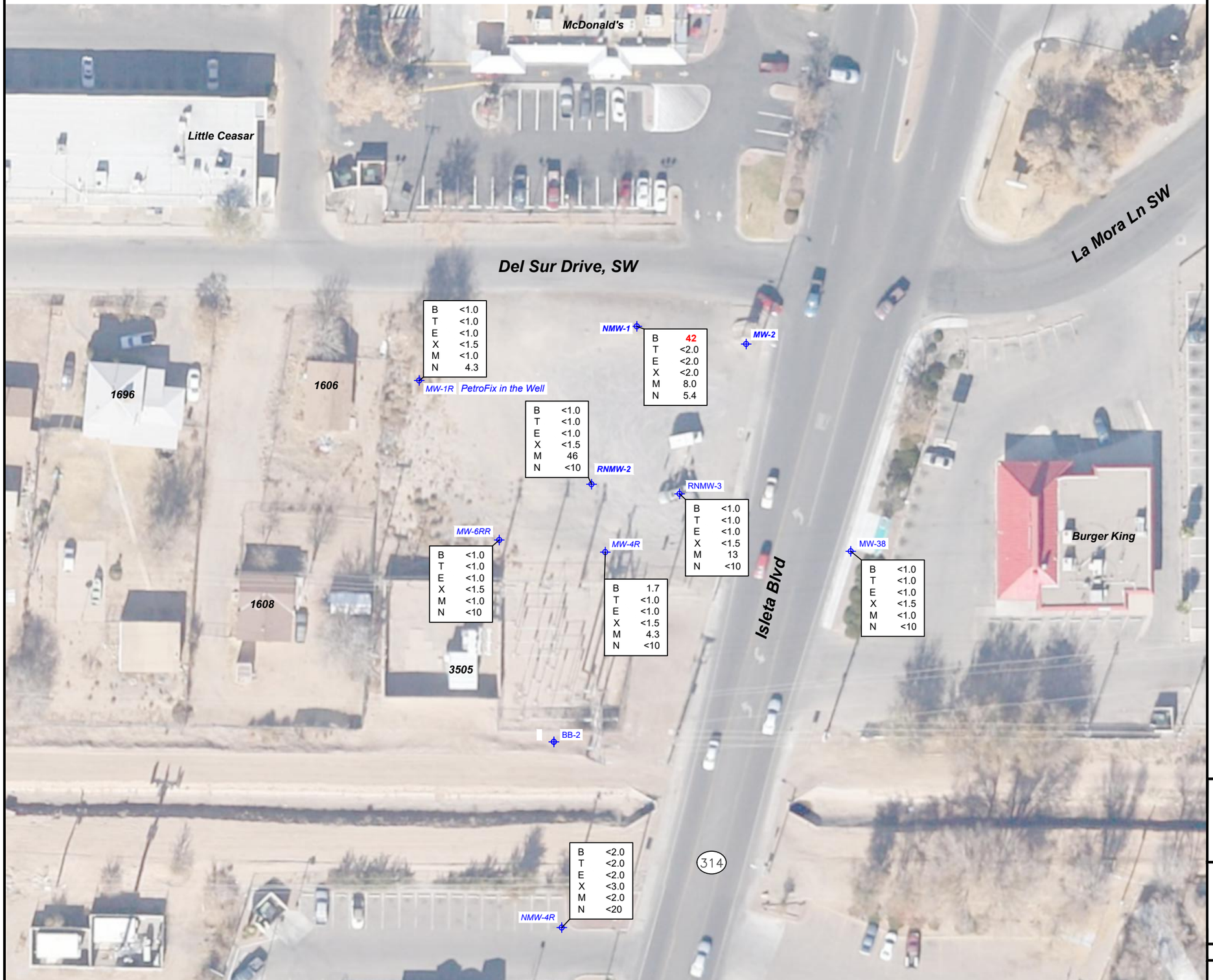
ATEX 213
ALBUQUERQUE, NEW MEXICO

FIGURE 2
GROUNDWATER CONTOUR MAP
MARCH 8, 2023

PROJECT #:	6332224	PROJECT PHASE:	01	PROJECT MANAGER:	LA

320 Gold Avenue, SW Suite 1300
Albuquerque, NM 87102
EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC. PBC

PSTB State Lead\Atex 213\4264-1 Pre-Injection GW Monitoring & Report\Figures



LEGEND:

MW-2 — MONITORING WELL

B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
M	METHYL TERTIARY BUTYL ETHER
N	TOTAL NAPHTHALENES

CONCENTRATIONS ARE IN MICROGRAMS PER LITER

50 25 0 50
SCALE IN FEET

ATEX 213
ALBUQUERQUE, NEW MEXICO

FIGURE 3
VOLATILE ORGANIC COMPOUNDS
MARCH 8, 2023

PROJECT #:	6332224	PROJECT PHASE:	01	PROJECT MANAGER:	LA

320 Gold Avenue, SW Suite 1300
Albuquerque, NM 87102
EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC. PBC

Appendix A – Field Records

EA Engineering, Science, and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: NMW-1
Site: ATEX 213
Date gauged: 03.08.2023
Time gauged: 0944
Depth to PSH: – Feet
Well diameter: 2 Inches
Depth to water: 9.87 Feet
Height of fluid column: 5.23 Feet
Total depth: 15.10 Feet
Volume in well: 0.88 Gallons
NAPL thickness: – Feet
(3 well volumes = 2.66 gallons)

After Bailing NAPL
Depth to PSH _____ Feet
Depth to water _____ Feet
NAPL thickness _____ Feet
NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 0950 3-8-23
Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L or % saturation)
0950	0.25	17.92	827	6.78	-95.8	15.8
0953	1.25	17.27	841	6.75	-137.1	13.7
0956	2.5	17.25	839	6.75	-124.6	13.9

Actual purge volume: 2.75 gal.
Field measurements stabilized within ± 10%? ND
Time/date sampled: 0957 3-8-23
Purged/sampled by: D. OBrien
Sample method: Disposable bailer
Requested analyses: 8260B, 300.1, SM 2540C
Comments/observations:

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

EA Engineering, Science, and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: RNMW-3
Site: Atex 213
Date gauged: 3.8.23
Time gauged: 1029

Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 10.59 Feet
Height of fluid column: 5.4 Feet
Total depth: 15.99 Feet
Volume in well: 0.918 Gallons
NAPL thickness: — Feet

(3 well volumes = 2.75 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1034 3.8.23
Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L) % saturation
1034	0.25	18.01	920	7.05	-177.0	9.6
1039	1.25	18.05	829	7.15	-181.1	8.6
1041	2.5	18.06	831	7.14	-182.6	8.2

Actual purge volume: 2.75 gal.
Field measurements stabilized within ± 10%? No

Time/date sampled: 1041 3.8.23
Purged/sampled by: D. Brown

Sample method: Disposable Bailer
Requested analyses: 8260, 300.1, SM2540 C

Comments/observations:

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

EA Engineering, Science, and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: RNmw-2
Site: Atex 213
Depth to PSH: — Feet
Depth to water: 10.79 Feet
Total depth: 15.49 Feet
NAPL thickness: — Feet

Date gauged: 3.8.23
Time gauged: 1059
Well diameter: 2 Inches
Height of fluid column: 4.7 Feet
Volume in well: 0.79 Gallons

(3 well volumes = 2.34 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1105 3.8.23 Purge Method: _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO % saturation
1105	0.25	18.18	1235	6.92	-144.6	7.5
1108	1	18.07	1044	6.97	-122.3	5.7
1110	2.25	18.04	1061	6.94	-121.8	6.3

Actual purge volume: 2.5 gal.
Field measurements stabilized within ± 10%? YES

Time/date sampled: 1111 3.8.23
Purged/sampled by: D. Obrien

Sample method: Disposable bailer
Requested analyses: 8260, 300.1, Sm2540C

Comments/observations: _____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

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Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-4R
Site: Alex 213
Date gauged: 3.8.2023
Time gauged: 1131

Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 10.87 Feet
Height of fluid column: 10.14 Feet
Total depth: 21.01 Feet
Volume in well: 1.73 Gallons
NAPL thickness: — Feet
(3 well volumes = 5.19 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1134 3.8.23
Purge Method: hand bailer

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L) % saturation
1134	0.25	19.10	542	7.25	-94.3	8.1
1139	2.5	19.30	558	7.20	-95.9	7.3
1143	5	19.33	553	7.20	-93.2	6.9

Actual purge volume: 5.25 gal.
Field measurements stabilized within ± 10%? No
Time/date sampled: 1144 3.8.23
Purged/sampled by: D. OBrien
Sample method: Disposable Bailer
Requested analyses: 8260, 300.1, Sm 2540 C
Comments/observations:

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

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320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-6RR
Site: Atex 213
Date gauged: 3.8.2023
Time gauged: 1200

Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 11.32 Feet
Height of fluid column: 8.64 Feet
Total depth: 19.96 Feet
Volume in well: 1.47 Gallons
NAPL thickness: — Feet
(3 well volumes = 4.43 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1202 3.8.2023
Purge Method: Land Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO % Saturation
1203	0.25	19.60	505	7.18	-72.4	9.1
1206	2	19.49	506	7.18	-72.9	7.8
1209	4.25	19.48	506	7.18	-71.1	7.7

Actual purge volume: 4.5 gal.
Field measurements stabilized within ± 10%? ~~No~~ Yes

Time/date sampled: 1211 3.8.2023
Purged/sampled by: D. OBrien

Sample method: 8260, 300.1, Sm 2540C
Requested analyses: Disposable Bailer
Comments/observations:

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

EA Engineering, Science, and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, NM 87102
Phone: (505) 224-9013

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-1R
Site: Atex213
Date gauged: 3.8.2023
Time gauged: 1227
Depth to PSH: ____ Feet
Well diameter: 2 Inches
Depth to water: 9.34 Feet
Height of fluid column: 5.3 Feet
Total depth: 14.69 Feet
Volume in well: 0.4 Gallons
NAPL thickness: — Feet
(3 well volumes = 2.7 gallons)

After Bailing NAPL
Depth to PSH: ____ Feet
Depth to water: ____ Feet
NAPL thickness: ____ Feet
NAPL Recovered: ____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1235 3.8.2023 Purge Method: Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L) % saturation
1235	0.25	18.60	562	7.36	28.4	16.1
1238	1.25	18.02	563	7.21	27.7	15.5
1240	2.5	18.04	561	7.20	27.3	15.3

Actual purge volume: 2.75 gal.
Field measurements stabilized within ± 10%? NO
Time/date sampled: 1241 3.8.2023 Purged/sampled by: D. OBrien
Sample method: Disposable Bailer
Requested analyses: 8260, 300.1, Sm 2540 C
Comments/observations: Water is black

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

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Albuquerque, NM 87102
Phone: (505) 224-9013

MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: NMW-4R
Site: Alex 213
Date gauged: 3.8.2023
Time gauged: 1305
Depth to PSH: ~ Feet
Well diameter: 2 Inches
Depth to water: 10.20 Feet
Height of fluid column: 9.65 Feet
Total depth: 19.85 Feet
Volume in well: 1.64 Gallons
NAPL thickness: — Feet
(3 well volumes = 4.92 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1308 3.8.23
Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (% saturation)
1308	0.25	19.64	560	7.58	33.9	0.85
1311	2.5	19.24	525	7.28	31.2	14.0
1314	4.75	18.21	526	7.28	30.9	12.1

Actual purge volume: 5 gal.
Field measurements stabilized within ± 10%? NO
Time/date sampled: 1315 3.8.23
Purged/sampled by: P. O'Brien
Sample method: Disposable bailer
Requested analyses: 8260, 300.1, SM 2540C
Comments/observations:

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

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Albuquerque, NM 87102
Phone: (505) 224-9013

MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: MW-38
Site: Alex 213
Date gauged: 3.8.2023
Time gauged: 13 37

Depth to PSH: ~ Feet
Well diameter: 2 Inches
Depth to water: 9.28 Feet
Height of fluid column: 2.88 Feet
Total depth: 12.16 Feet
Volume in well: 0.48 Gallons
NAPL thickness: ~ Feet
(3 well volumes = 1.46 gallons)

After Bailing NAPL
Depth to PSH: _____ Feet
Depth to water: _____ Feet
NAPL thickness: _____ Feet
NAPL Recovered: _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged: 1339 3.8.23
Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (% saturation)
1339	0.25	16.02	720	7.19	32.2	13.0
1341	.75	17.60	731	7.02	28.6	14.4
1343	1.25	17.63	729	7.04	29.1	14.1

Actual purge volume: 1.5 gal.
Field measurements stabilized within ± 10%? NO
Time/date sampled: 1344 3.8.23
Purged/sampled by: P. OBrien
Sample method: Disposable bailer
Requested analyses: 8260, 300.1, SM 2540C
Comments/observations:

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

Appendix B – Laboratory Report

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 23, 2023

Vener Mustafin

EA Engineering, Science and Technology
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL: (505) 224-9013
FAX:

RE: Atex 213 OrderNo.: 2303472

Dear Vener Mustafin:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/8/2023 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: NMW-1
Project: Atex 213
Collection Date: 3/8/2023 9:57:00 AM
Lab ID: 2303472-001
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	3/8/2023 5:21:24 PM
Sulfate	140	2.5		mg/L	5	3/8/2023 5:21:24 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	42	2.0		µg/L	2	3/17/2023 1:18:55 PM
Toluene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Ethylbenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Methyl tert-butyl ether (MTBE)	8.0	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Naphthalene	5.4	4.0		µg/L	2	3/17/2023 1:18:55 PM
1-Methylnaphthalene	ND	8.0		µg/L	2	3/17/2023 1:18:55 PM
2-Methylnaphthalene	ND	8.0		µg/L	2	3/17/2023 1:18:55 PM
Acetone	ND	20		µg/L	2	3/17/2023 1:18:55 PM
Bromobenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Bromodichloromethane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Bromoform	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Bromomethane	ND	6.0		µg/L	2	3/17/2023 1:18:55 PM
2-Butanone	ND	20		µg/L	2	3/17/2023 1:18:55 PM
Carbon disulfide	ND	20		µg/L	2	3/17/2023 1:18:55 PM
Carbon Tetrachloride	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Chlorobenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Chloroethane	ND	4.0		µg/L	2	3/17/2023 1:18:55 PM
Chloroform	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Chloromethane	ND	6.0		µg/L	2	3/17/2023 1:18:55 PM
2-Chlorotoluene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
4-Chlorotoluene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
cis-1,2-DCE	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	3/17/2023 1:18:55 PM
Dibromochloromethane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Dibromomethane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Dichlorodifluoromethane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,1-Dichloroethane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,1-Dichloroethene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: NMW-1
Project: Atex 213
Collection Date: 3/8/2023 9:57:00 AM
Lab ID: 2303472-001
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,2-Dichloropropane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,3-Dichloropropane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
2,2-Dichloropropane	ND	4.0		µg/L	2	3/17/2023 1:18:55 PM
1,1-Dichloropropene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Hexachlorobutadiene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
2-Hexanone	ND	20		µg/L	2	3/17/2023 1:18:55 PM
Isopropylbenzene	2.4	2.0		µg/L	2	3/17/2023 1:18:55 PM
4-Isopropyltoluene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
4-Methyl-2-pentanone	ND	20		µg/L	2	3/17/2023 1:18:55 PM
Methylene Chloride	ND	6.0		µg/L	2	3/17/2023 1:18:55 PM
n-Butylbenzene	ND	6.0		µg/L	2	3/17/2023 1:18:55 PM
n-Propylbenzene	5.1	2.0		µg/L	2	3/17/2023 1:18:55 PM
sec-Butylbenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Styrene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
tert-Butylbenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	3/17/2023 1:18:55 PM
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
trans-1,2-DCE	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Trichloroethene (TCE)	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Trichlorofluoromethane	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
1,2,3-Trichloropropane	ND	4.0		µg/L	2	3/17/2023 1:18:55 PM
Vinyl chloride	ND	2.0		µg/L	2	3/17/2023 1:18:55 PM
Xylenes, Total	ND	3.0		µg/L	2	3/17/2023 1:18:55 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	2	3/17/2023 1:18:55 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	2	3/17/2023 1:18:55 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	2	3/17/2023 1:18:55 PM
Surr: Toluene-d8	98.2	70-130		%Rec	2	3/17/2023 1:18:55 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **DML**
Total Dissolved Solids	704	100	*D	mg/L	1	3/17/2023 11:37:00 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: RNMW-3
Project: Atex 213
Collection Date: 3/8/2023 10:41:00 AM
Lab ID: 2303472-002
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	3/8/2023 5:47:08 PM
Sulfate	75	2.5		mg/L	5	3/8/2023 5:47:08 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Toluene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Ethylbenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Methyl tert-butyl ether (MTBE)	13	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Naphthalene	ND	2.0		µg/L	1	3/17/2023 12:20:18 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/17/2023 12:20:18 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/17/2023 12:20:18 AM
Acetone	ND	10		µg/L	1	3/17/2023 12:20:18 AM
Bromobenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Bromodichloromethane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Bromoform	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Bromomethane	ND	3.0		µg/L	1	3/17/2023 12:20:18 AM
2-Butanone	ND	10		µg/L	1	3/17/2023 12:20:18 AM
Carbon disulfide	ND	10		µg/L	1	3/17/2023 12:20:18 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Chlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Chloroethane	ND	2.0		µg/L	1	3/17/2023 12:20:18 AM
Chloroform	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Chloromethane	ND	3.0		µg/L	1	3/17/2023 12:20:18 AM
2-Chlorotoluene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
4-Chlorotoluene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
cis-1,2-DCE	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/17/2023 12:20:18 AM
Dibromochloromethane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Dibromomethane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: RNMW-3
Project: Atex 213
Collection Date: 3/8/2023 10:41:00 AM
Lab ID: 2303472-002
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,2-Dichloropropane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/17/2023 12:20:18 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
2-Hexanone	ND	10		µg/L	1	3/17/2023 12:20:18 AM
Isopropylbenzene	3.2	1.0		µg/L	1	3/17/2023 12:20:18 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/17/2023 12:20:18 AM
Methylene Chloride	ND	3.0		µg/L	1	3/17/2023 12:20:18 AM
n-Butylbenzene	ND	3.0		µg/L	1	3/17/2023 12:20:18 AM
n-Propylbenzene	2.1	1.0		µg/L	1	3/17/2023 12:20:18 AM
sec-Butylbenzene	1.9	1.0		µg/L	1	3/17/2023 12:20:18 AM
Styrene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
tert-Butylbenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/17/2023 12:20:18 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
trans-1,2-DCE	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/17/2023 12:20:18 AM
Vinyl chloride	ND	1.0		µg/L	1	3/17/2023 12:20:18 AM
Xylenes, Total	ND	1.5		µg/L	1	3/17/2023 12:20:18 AM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/17/2023 12:20:18 AM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	3/17/2023 12:20:18 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	3/17/2023 12:20:18 AM
Surr: Toluene-d8	102	70-130		%Rec	1	3/17/2023 12:20:18 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **DML**
Total Dissolved Solids	633	50.0	*	mg/L	1	3/17/2023 11:37:00 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: RNMW-2
Project: Atex 213
Collection Date: 3/8/2023 11:11:00 AM
Lab ID: 2303472-003
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	3/8/2023 6:38:33 PM
Sulfate	100	2.5		mg/L	5	3/8/2023 6:38:33 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Toluene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Ethylbenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Methyl tert-butyl ether (MTBE)	46	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Naphthalene	ND	2.0		µg/L	1	3/17/2023 12:50:10 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/17/2023 12:50:10 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/17/2023 12:50:10 AM
Acetone	ND	10		µg/L	1	3/17/2023 12:50:10 AM
Bromobenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Bromodichloromethane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Bromoform	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Bromomethane	ND	3.0		µg/L	1	3/17/2023 12:50:10 AM
2-Butanone	ND	10		µg/L	1	3/17/2023 12:50:10 AM
Carbon disulfide	ND	10		µg/L	1	3/17/2023 12:50:10 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Chlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Chloroethane	ND	2.0		µg/L	1	3/17/2023 12:50:10 AM
Chloroform	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Chloromethane	ND	3.0		µg/L	1	3/17/2023 12:50:10 AM
2-Chlorotoluene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
4-Chlorotoluene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
cis-1,2-DCE	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/17/2023 12:50:10 AM
Dibromochloromethane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Dibromomethane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: RNMW-2
Project: Atex 213
Collection Date: 3/8/2023 11:11:00 AM
Lab ID: 2303472-003
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,2-Dichloropropane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/17/2023 12:50:10 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
2-Hexanone	ND	10		µg/L	1	3/17/2023 12:50:10 AM
Isopropylbenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/17/2023 12:50:10 AM
Methylene Chloride	ND	3.0		µg/L	1	3/17/2023 12:50:10 AM
n-Butylbenzene	ND	3.0		µg/L	1	3/17/2023 12:50:10 AM
n-Propylbenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
sec-Butylbenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Styrene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
tert-Butylbenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/17/2023 12:50:10 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
trans-1,2-DCE	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/17/2023 12:50:10 AM
Vinyl chloride	ND	1.0		µg/L	1	3/17/2023 12:50:10 AM
Xylenes, Total	ND	1.5		µg/L	1	3/17/2023 12:50:10 AM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/17/2023 12:50:10 AM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	3/17/2023 12:50:10 AM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	3/17/2023 12:50:10 AM
Surr: Toluene-d8	97.5	70-130		%Rec	1	3/17/2023 12:50:10 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **DML**
Total Dissolved Solids	720	50.0	*	mg/L	1	3/17/2023 11:37:00 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: MW-4R
Project: Atex 213
Collection Date: 3/8/2023 11:44:00 AM
Lab ID: 2303472-004
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	3/8/2023 7:04:17 PM
Sulfate	82	2.5		mg/L	5	3/8/2023 7:04:17 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	1.7	1.0		µg/L	1	3/17/2023 1:20:03 AM
Toluene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Ethylbenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Methyl tert-butyl ether (MTBE)	4.3	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Naphthalene	ND	2.0		µg/L	1	3/17/2023 1:20:03 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/17/2023 1:20:03 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/17/2023 1:20:03 AM
Acetone	ND	10		µg/L	1	3/17/2023 1:20:03 AM
Bromobenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Bromodichloromethane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Bromoform	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Bromomethane	ND	3.0		µg/L	1	3/17/2023 1:20:03 AM
2-Butanone	ND	10		µg/L	1	3/17/2023 1:20:03 AM
Carbon disulfide	ND	10		µg/L	1	3/17/2023 1:20:03 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Chlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Chloroethane	ND	2.0		µg/L	1	3/17/2023 1:20:03 AM
Chloroform	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Chloromethane	ND	3.0		µg/L	1	3/17/2023 1:20:03 AM
2-Chlorotoluene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
4-Chlorotoluene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
cis-1,2-DCE	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/17/2023 1:20:03 AM
Dibromochloromethane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Dibromomethane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: MW-4R
Project: Atex 213
Collection Date: 3/8/2023 11:44:00 AM
Lab ID: 2303472-004
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,2-Dichloropropane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/17/2023 1:20:03 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
2-Hexanone	ND	10		µg/L	1	3/17/2023 1:20:03 AM
Isopropylbenzene	1.1	1.0		µg/L	1	3/17/2023 1:20:03 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/17/2023 1:20:03 AM
Methylene Chloride	ND	3.0		µg/L	1	3/17/2023 1:20:03 AM
n-Butylbenzene	ND	3.0		µg/L	1	3/17/2023 1:20:03 AM
n-Propylbenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
sec-Butylbenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Styrene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
tert-Butylbenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/17/2023 1:20:03 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
trans-1,2-DCE	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/17/2023 1:20:03 AM
Vinyl chloride	ND	1.0		µg/L	1	3/17/2023 1:20:03 AM
Xylenes, Total	ND	1.5		µg/L	1	3/17/2023 1:20:03 AM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	3/17/2023 1:20:03 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/17/2023 1:20:03 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	3/17/2023 1:20:03 AM
Surr: Toluene-d8	101	70-130		%Rec	1	3/17/2023 1:20:03 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **DML**
Total Dissolved Solids	489	50.0		mg/L	1	3/17/2023 11:37:00 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: MW-6RR
Project: Atex 213
Collection Date: 3/8/2023 12:11:00 PM
Lab ID: 2303472-005
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	3/8/2023 7:29:59 PM
Sulfate	100	2.5		mg/L	5	3/8/2023 7:29:59 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Toluene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Ethylbenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Naphthalene	ND	2.0		µg/L	1	3/17/2023 1:49:58 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/17/2023 1:49:58 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/17/2023 1:49:58 AM
Acetone	ND	10		µg/L	1	3/17/2023 1:49:58 AM
Bromobenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Bromodichloromethane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Bromoform	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Bromomethane	ND	3.0		µg/L	1	3/17/2023 1:49:58 AM
2-Butanone	ND	10		µg/L	1	3/17/2023 1:49:58 AM
Carbon disulfide	ND	10		µg/L	1	3/17/2023 1:49:58 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Chlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Chloroethane	ND	2.0		µg/L	1	3/17/2023 1:49:58 AM
Chloroform	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Chloromethane	ND	3.0		µg/L	1	3/17/2023 1:49:58 AM
2-Chlorotoluene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
4-Chlorotoluene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
cis-1,2-DCE	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/17/2023 1:49:58 AM
Dibromochloromethane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Dibromomethane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: MW-6RR
Project: Atex 213
Collection Date: 3/8/2023 12:11:00 PM
Lab ID: 2303472-005
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,2-Dichloropropane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/17/2023 1:49:58 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
2-Hexanone	ND	10		µg/L	1	3/17/2023 1:49:58 AM
Isopropylbenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/17/2023 1:49:58 AM
Methylene Chloride	ND	3.0		µg/L	1	3/17/2023 1:49:58 AM
n-Butylbenzene	ND	3.0		µg/L	1	3/17/2023 1:49:58 AM
n-Propylbenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
sec-Butylbenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Styrene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
tert-Butylbenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/17/2023 1:49:58 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
trans-1,2-DCE	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/17/2023 1:49:58 AM
Vinyl chloride	ND	1.0		µg/L	1	3/17/2023 1:49:58 AM
Xylenes, Total	ND	1.5		µg/L	1	3/17/2023 1:49:58 AM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/17/2023 1:49:58 AM
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	3/17/2023 1:49:58 AM
Surr: Dibromofluoromethane	102	70-130		%Rec	1	3/17/2023 1:49:58 AM
Surr: Toluene-d8	102	70-130		%Rec	1	3/17/2023 1:49:58 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **DML**
Total Dissolved Solids	433	50.0		mg/L	1	3/17/2023 11:37:00 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: MW-1R
Project: Atex 213
Collection Date: 3/8/2023 12:41:00 PM
Lab ID: 2303472-006
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/8/2023 7:55:43 PM
Sulfate	110	5.0		mg/L	10	3/8/2023 7:55:43 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Toluene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Ethylbenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Methyl tert-butyl ether (MTBE)	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,2,4-Trimethylbenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,3,5-Trimethylbenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,2-Dichloroethane (EDC)	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,2-Dibromoethane (EDB)	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Naphthalene	ND	100	D	µg/L	50	3/17/2023 2:19:46 AM
1-Methylnaphthalene	ND	200	D	µg/L	50	3/17/2023 2:19:46 AM
2-Methylnaphthalene	ND	200	D	µg/L	50	3/17/2023 2:19:46 AM
Acetone	ND	500	D	µg/L	50	3/17/2023 2:19:46 AM
Bromobenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Bromodichloromethane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Bromoform	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Bromomethane	ND	150	D	µg/L	50	3/17/2023 2:19:46 AM
2-Butanone	ND	500	D	µg/L	50	3/17/2023 2:19:46 AM
Carbon disulfide	ND	500	D	µg/L	50	3/17/2023 2:19:46 AM
Carbon Tetrachloride	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Chlorobenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Chloroethane	ND	100	D	µg/L	50	3/17/2023 2:19:46 AM
Chloroform	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Chloromethane	ND	150	D	µg/L	50	3/17/2023 2:19:46 AM
2-Chlorotoluene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
4-Chlorotoluene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
cis-1,2-DCE	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
cis-1,3-Dichloropropene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,2-Dibromo-3-chloropropane	ND	100	D	µg/L	50	3/17/2023 2:19:46 AM
Dibromochloromethane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Dibromomethane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,2-Dichlorobenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,3-Dichlorobenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,4-Dichlorobenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Dichlorodifluoromethane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,1-Dichloroethane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,1-Dichloroethene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: MW-1R
Project: Atex 213
Collection Date: 3/8/2023 12:41:00 PM
Lab ID: 2303472-006
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,2-Dichloropropane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,3-Dichloropropane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
2,2-Dichloropropane	ND	100	D	µg/L	50	3/17/2023 2:19:46 AM
1,1-Dichloropropene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Hexachlorobutadiene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
2-Hexanone	ND	500	D	µg/L	50	3/17/2023 2:19:46 AM
Isopropylbenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
4-Isopropyltoluene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
4-Methyl-2-pentanone	ND	500	D	µg/L	50	3/17/2023 2:19:46 AM
Methylene Chloride	ND	150	D	µg/L	50	3/17/2023 2:19:46 AM
n-Butylbenzene	ND	150	D	µg/L	50	3/17/2023 2:19:46 AM
n-Propylbenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
sec-Butylbenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Styrene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
tert-Butylbenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,1,1,2-Tetrachloroethane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,1,2,2-Tetrachloroethane	ND	100	D	µg/L	50	3/17/2023 2:19:46 AM
Tetrachloroethene (PCE)	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
trans-1,2-DCE	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
trans-1,3-Dichloropropene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,2,3-Trichlorobenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,2,4-Trichlorobenzene	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,1,1-Trichloroethane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,1,2-Trichloroethane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Trichloroethene (TCE)	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Trichlorofluoromethane	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
1,2,3-Trichloropropane	ND	100	D	µg/L	50	3/17/2023 2:19:46 AM
Vinyl chloride	ND	50	D	µg/L	50	3/17/2023 2:19:46 AM
Xylenes, Total	ND	75	D	µg/L	50	3/17/2023 2:19:46 AM
Surr: 1,2-Dichloroethane-d4	105	70-130	D	%Rec	50	3/17/2023 2:19:46 AM
Surr: 4-Bromofluorobenzene	158	70-130	SD	%Rec	50	3/17/2023 2:19:46 AM
Surr: Dibromofluoromethane	118	70-130	D	%Rec	50	3/17/2023 2:19:46 AM
Surr: Toluene-d8	114	70-130	D	%Rec	50	3/17/2023 2:19:46 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **DML**
Total Dissolved Solids	478	100	D	mg/L	1	3/17/2023 11:37:00 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: NMW-4R
Project: Atex 213
Collection Date: 3/8/2023 1:15:00 PM
Lab ID: 2303472-007
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	3/8/2023 8:21:27 PM
Sulfate	82	2.5		mg/L	5	3/8/2023 8:21:27 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Toluene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Ethylbenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Methyl tert-butyl ether (MTBE)	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,2,4-Trimethylbenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,3,5-Trimethylbenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,2-Dichloroethane (EDC)	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,2-Dibromoethane (EDB)	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Naphthalene	ND	4.0	D	µg/L	2	3/17/2023 3:19:28 AM
1-Methylnaphthalene	ND	8.0	D	µg/L	2	3/17/2023 3:19:28 AM
2-Methylnaphthalene	ND	8.0	D	µg/L	2	3/17/2023 3:19:28 AM
Acetone	ND	20	D	µg/L	2	3/17/2023 3:19:28 AM
Bromobenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Bromodichloromethane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Bromoform	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Bromomethane	ND	6.0	D	µg/L	2	3/17/2023 3:19:28 AM
2-Butanone	ND	20	D	µg/L	2	3/17/2023 3:19:28 AM
Carbon disulfide	ND	20	D	µg/L	2	3/17/2023 3:19:28 AM
Carbon Tetrachloride	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Chlorobenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Chloroethane	ND	4.0	D	µg/L	2	3/17/2023 3:19:28 AM
Chloroform	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Chloromethane	ND	6.0	D	µg/L	2	3/17/2023 3:19:28 AM
2-Chlorotoluene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
4-Chlorotoluene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
cis-1,2-DCE	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
cis-1,3-Dichloropropene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,2-Dibromo-3-chloropropane	ND	4.0	D	µg/L	2	3/17/2023 3:19:28 AM
Dibromochloromethane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Dibromomethane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,2-Dichlorobenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,3-Dichlorobenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,4-Dichlorobenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Dichlorodifluoromethane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,1-Dichloroethane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,1-Dichloroethene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: NMW-4R
Project: Atex 213
Collection Date: 3/8/2023 1:15:00 PM
Lab ID: 2303472-007
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,2-Dichloropropane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,3-Dichloropropane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
2,2-Dichloropropane	ND	4.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,1-Dichloropropene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Hexachlorobutadiene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
2-Hexanone	ND	20	D	µg/L	2	3/17/2023 3:19:28 AM
Isopropylbenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
4-Isopropyltoluene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
4-Methyl-2-pentanone	ND	20	D	µg/L	2	3/17/2023 3:19:28 AM
Methylene Chloride	ND	6.0	D	µg/L	2	3/17/2023 3:19:28 AM
n-Butylbenzene	ND	6.0	D	µg/L	2	3/17/2023 3:19:28 AM
n-Propylbenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
sec-Butylbenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Styrene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
tert-Butylbenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,1,1,2-Tetrachloroethane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,1,2,2-Tetrachloroethane	ND	4.0	D	µg/L	2	3/17/2023 3:19:28 AM
Tetrachloroethene (PCE)	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
trans-1,2-DCE	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
trans-1,3-Dichloropropene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,2,3-Trichlorobenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,2,4-Trichlorobenzene	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,1,1-Trichloroethane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,1,2-Trichloroethane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Trichloroethene (TCE)	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Trichlorofluoromethane	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
1,2,3-Trichloropropane	ND	4.0	D	µg/L	2	3/17/2023 3:19:28 AM
Vinyl chloride	ND	2.0	D	µg/L	2	3/17/2023 3:19:28 AM
Xylenes, Total	ND	3.0	D	µg/L	2	3/17/2023 3:19:28 AM
Surr: 1,2-Dichloroethane-d4	104	70-130	D	%Rec	2	3/17/2023 3:19:28 AM
Surr: 4-Bromofluorobenzene	101	70-130	D	%Rec	2	3/17/2023 3:19:28 AM
Surr: Dibromofluoromethane	110	70-130	D	%Rec	2	3/17/2023 3:19:28 AM
Surr: Toluene-d8	95.3	70-130	D	%Rec	2	3/17/2023 3:19:28 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **DML**
Total Dissolved Solids	441	50.0		mg/L	1	3/17/2023 11:37:00 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: MW-38
Project: Atex 213
Collection Date: 3/8/2023 1:44:00 PM
Lab ID: 2303472-008
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	3/8/2023 9:12:54 PM
Sulfate	120	10		mg/L	20	3/8/2023 9:25:46 PM
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
Benzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Toluene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Ethylbenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Naphthalene	ND	2.0		µg/L	1	3/17/2023 3:49:18 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/17/2023 3:49:18 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/17/2023 3:49:18 AM
Acetone	ND	10		µg/L	1	3/17/2023 3:49:18 AM
Bromobenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Bromodichloromethane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Bromoform	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Bromomethane	ND	3.0		µg/L	1	3/17/2023 3:49:18 AM
2-Butanone	ND	10		µg/L	1	3/17/2023 3:49:18 AM
Carbon disulfide	ND	10		µg/L	1	3/17/2023 3:49:18 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Chlorobenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Chloroethane	ND	2.0		µg/L	1	3/17/2023 3:49:18 AM
Chloroform	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Chloromethane	ND	3.0		µg/L	1	3/17/2023 3:49:18 AM
2-Chlorotoluene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
4-Chlorotoluene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
cis-1,2-DCE	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/17/2023 3:49:18 AM
Dibromochloromethane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Dibromomethane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EA Engineering, Science and Technolog
Client Sample ID: MW-38
Project: Atex 213
Collection Date: 3/8/2023 1:44:00 PM
Lab ID: 2303472-008
Matrix: GROUNDWA
Received Date: 3/8/2023 2:51:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JR**
1,2-Dichloropropane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/17/2023 3:49:18 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
2-Hexanone	ND	10		µg/L	1	3/17/2023 3:49:18 AM
Isopropylbenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/17/2023 3:49:18 AM
Methylene Chloride	ND	3.0		µg/L	1	3/17/2023 3:49:18 AM
n-Butylbenzene	ND	3.0		µg/L	1	3/17/2023 3:49:18 AM
n-Propylbenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
sec-Butylbenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Styrene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
tert-Butylbenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/17/2023 3:49:18 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
trans-1,2-DCE	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/17/2023 3:49:18 AM
Vinyl chloride	ND	1.0		µg/L	1	3/17/2023 3:49:18 AM
Xylenes, Total	ND	1.5		µg/L	1	3/17/2023 3:49:18 AM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	3/17/2023 3:49:18 AM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	3/17/2023 3:49:18 AM
Surr: Dibromofluoromethane	113	70-130		%Rec	1	3/17/2023 3:49:18 AM
Surr: Toluene-d8	97.7	70-130		%Rec	1	3/17/2023 3:49:18 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **DML**
Total Dissolved Solids	604	50.0	*	mg/L	1	3/17/2023 11:37:00 AM

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303472**

23-Mar-23

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R95124**	RunNo: **95124**
Prep Date:	Analysis Date: **3/8/2023**	SeqNo: **3439930** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R95124**	RunNo: **95124**
Prep Date:	Analysis Date: **3/8/2023**	SeqNo: **3439931** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	100	90	110			
Sulfate	9.6	0.50	10.00	0	95.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303472**

23-Mar-23

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: **100ng lcs4**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **W95339**	RunNo: **95339**
Prep Date:	Analysis Date: **3/16/2023**	SeqNo: **3448237** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	113	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Ethylbenzene	21	1.0	20.00	0	107	70	130			
Methyl tert-butyl ether (MTBE)	44	1.0	40.00	0	109	70	130			
1,2,4-Trimethylbenzene	23	1.0	20.00	0	115	70	130			
1,3,5-Trimethylbenzene	22	1.0	20.00	0	108	70	130			
1,2-Dichloroethane (EDC)	22	1.0	20.00	0	111	70	130			
1,2-Dibromoethane (EDB)	20	1.0	20.00	0	99.4	70	130			
Naphthalene	21	2.0	20.00	0	103	70	130			
1-Methylnaphthalene	20	4.0	20.00	0	101	60.3	126			
2-Methylnaphthalene	21	4.0	20.00	0	103	59	127			
Acetone	42	10	40.00	0	106	53.2	126			
Bromobenzene	20	1.0	20.00	0	102	70	130			
Bromodichloromethane	19	1.0	20.00	0	95.8	70	130			
Bromoform	19	1.0	20.00	0	95.5	70	130			
Bromomethane	25	3.0	20.00	0	126	15	213			
2-Butanone	44	10	40.00	0	111	59.4	136			
Carbon disulfide	34	10	40.00	0	85.0	70	130			
Carbon Tetrachloride	21	1.0	20.00	0	104	70	130			
Chlorobenzene	21	1.0	20.00	0	105	70	130			
Chloroethane	22	2.0	20.00	0	110	69.5	131			
Chloroform	21	1.0	20.00	0	103	70	130			
Chloromethane	23	3.0	20.00	0	117	56.9	143			
2-Chlorotoluene	22	1.0	20.00	0	109	70	130			
4-Chlorotoluene	22	1.0	20.00	0	110	70	130			
cis-1,2-DCE	21	1.0	20.00	0	104	70	130			
cis-1,3-Dichloropropene	20	1.0	20.00	0	99.2	70	130			
1,2-Dibromo-3-chloropropane	23	2.0	20.00	0	116	62.3	135			
Dibromochloromethane	18	1.0	20.00	0	92.0	70	130			
Dibromomethane	20	1.0	20.00	0	99.5	70	130			
1,2-Dichlorobenzene	21	1.0	20.00	0	105	70	130			
1,3-Dichlorobenzene	22	1.0	20.00	0	109	70	130			
1,4-Dichlorobenzene	21	1.0	20.00	0	105	70	130			
Dichlorodifluoromethane	24	1.0	20.00	0	122	41	159			
1,1-Dichloroethane	21	1.0	20.00	0	106	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	108	70	130			
1,2-Dichloropropane	22	1.0	20.00	0	109	70	130			
1,3-Dichloropropane	21	1.0	20.00	0	104	70	130			
2,2-Dichloropropane	25	2.0	20.00	0	125	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303472**

23-Mar-23

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: **100ng lcs4**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **W95339**	RunNo: **95339**
Prep Date:	Analysis Date: **3/16/2023**	SeqNo: **3448237** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	23	1.0	20.00	0	113	70	130			
Hexachlorobutadiene	22	1.0	20.00	0	109	63.6	129			
2-Hexanone	43	10	40.00	0	109	63.2	130			
Isopropylbenzene	21	1.0	20.00	0	103	70	130			
4-Isopropyltoluene	22	1.0	20.00	0	112	70	130			
4-Methyl-2-pentanone	43	10	40.00	0	108	64.7	132			
Methylene Chloride	18	3.0	20.00	0	88.4	70	130			
n-Butylbenzene	22	3.0	20.00	0	110	70	130			
n-Propylbenzene	22	1.0	20.00	0	108	70	130			
sec-Butylbenzene	23	1.0	20.00	0	115	70	130			
Styrene	20	1.0	20.00	0	99.7	70	130			
tert-Butylbenzene	23	1.0	20.00	0	115	70	130			
1,1,1,2-Tetrachloroethane	21	1.0	20.00	0	103	70	130			
1,1,2,2-Tetrachloroethane	22	2.0	20.00	0	111	65.8	138			
Tetrachloroethene (PCE)	20	1.0	20.00	0	101	70	130			
trans-1,2-DCE	20	1.0	20.00	0	102	70	130			
trans-1,3-Dichloropropene	22	1.0	20.00	0	111	70	130			
1,2,3-Trichlorobenzene	21	1.0	20.00	0	107	70	130			
1,2,4-Trichlorobenzene	21	1.0	20.00	0	104	70	130			
1,1,1-Trichloroethane	22	1.0	20.00	0	108	70	130			
1,1,2-Trichloroethane	20	1.0	20.00	0	99.8	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	107	70	130			
Trichlorofluoromethane	25	1.0	20.00	0	125	70	130			
1,2,3-Trichloropropane	22	2.0	20.00	0	112	70	130			
Vinyl chloride	24	1.0	20.00	0	118	70	130			
Xylenes, Total	63	1.5	60.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W95339**	RunNo: **95339**
Prep Date:	Analysis Date: **3/16/2023**	SeqNo: **3448246** 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								

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303472**

23-Mar-23

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W95339**	RunNo: **95339**
Prep Date:	Analysis Date: **3/16/2023**	SeqNo: **3448246** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303472**

23-Mar-23

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W95339**	RunNo: **95339**
Prep Date:	Analysis Date: **3/16/2023**	SeqNo: **3448246** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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	9.9		10.00		99.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	9.7		10.00		96.8	70	130			

Sample ID: **100ng lcs4**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R95371**	RunNo: **95371**
Prep Date:	Analysis Date: **3/17/2023**	SeqNo: **3449853** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	24	1.0	20.00	0	118	70	130			
Toluene	21	1.0	20.00	0	107	70	130			
Ethylbenzene	22	1.0	20.00	0	108	70	130			
Methyl tert-butyl ether (MTBE)	44	1.0	40.00	0	110	70	130			
1,2,4-Trimethylbenzene	23	1.0	20.00	0	116	70	130			
1,3,5-Trimethylbenzene	22	1.0	20.00	0	112	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303472**

23-Mar-23

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: **100ng lcs4**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R95371**	RunNo: **95371**
Prep Date:	Analysis Date: **3/17/2023**	SeqNo: **3449853** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dichloroethane (EDC)	23	1.0	20.00	0	117	70	130			
1,2-Dibromoethane (EDB)	20	1.0	20.00	0	100	70	130			
Naphthalene	20	2.0	20.00	0	98.4	70	130			
1-Methylnaphthalene	18	4.0	20.00	0	89.7	60.3	126			
2-Methylnaphthalene	18	4.0	20.00	0	90.0	59	127			
Acetone	41	10	40.00	0	103	53.2	126			
Bromobenzene	21	1.0	20.00	0	103	70	130			
Bromodichloromethane	19	1.0	20.00	0	95.8	70	130			
Bromoform	18	1.0	20.00	0	92.5	70	130			
Bromomethane	28	3.0	20.00	0	139	15	213			
2-Butanone	37	10	40.00	0	92.2	59.4	136			
Carbon disulfide	39	10	40.00	0	97.2	70	130			
Carbon Tetrachloride	23	1.0	20.00	0	114	70	130			
Chlorobenzene	22	1.0	20.00	0	108	70	130			
Chloroethane	23	2.0	20.00	0	116	69.5	131			
Chloroform	23	1.0	20.00	0	115	70	130			
Chloromethane	25	3.0	20.00	0	124	56.9	143			
2-Chlorotoluene	23	1.0	20.00	0	116	70	130			
4-Chlorotoluene	23	1.0	20.00	0	116	70	130			
cis-1,2-DCE	23	1.0	20.00	0	115	70	130			
cis-1,3-Dichloropropene	20	1.0	20.00	0	98.4	70	130			
1,2-Dibromo-3-chloropropane	20	2.0	20.00	0	99.1	62.3	135			
Dibromochloromethane	19	1.0	20.00	0	95.7	70	130			
Dibromomethane	20	1.0	20.00	0	101	70	130			
1,2-Dichlorobenzene	21	1.0	20.00	0	106	70	130			
1,3-Dichlorobenzene	21	1.0	20.00	0	105	70	130			
1,4-Dichlorobenzene	22	1.0	20.00	0	111	70	130			
Dichlorodifluoromethane	25	1.0	20.00	0	126	41	159			
1,1-Dichloroethane	23	1.0	20.00	0	117	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	112	70	130			
1,2-Dichloropropane	24	1.0	20.00	0	119	70	130			
1,3-Dichloropropane	21	1.0	20.00	0	103	70	130			
2,2-Dichloropropane	26	2.0	20.00	0	132	70	130			S
1,1-Dichloropropene	25	1.0	20.00	0	127	70	130			
Hexachlorobutadiene	22	1.0	20.00	0	109	63.6	129			
2-Hexanone	41	10	40.00	0	103	63.2	130			
Isopropylbenzene	21	1.0	20.00	0	106	70	130			
4-Isopropyltoluene	23	1.0	20.00	0	114	70	130			
4-Methyl-2-pentanone	38	10	40.00	0	95.0	64.7	132			

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303472**

23-Mar-23

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: **100ng lcs4**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R95371**	RunNo: **95371**
Prep Date:	Analysis Date: **3/17/2023**	SeqNo: **3449853** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene Chloride	19	3.0	20.00	0	96.4	70	130			
n-Butylbenzene	23	3.0	20.00	0	115	70	130			
n-Propylbenzene	22	1.0	20.00	0	110	70	130			
sec-Butylbenzene	24	1.0	20.00	0	118	70	130			
Styrene	21	1.0	20.00	0	103	70	130			
tert-Butylbenzene	23	1.0	20.00	0	115	70	130			
1,1,1,2-Tetrachloroethane	20	1.0	20.00	0	101	70	130			
1,1,2,2-Tetrachloroethane	21	2.0	20.00	0	104	65.8	138			
Tetrachloroethene (PCE)	21	1.0	20.00	0	107	70	130			
trans-1,2-DCE	22	1.0	20.00	0	109	70	130			
trans-1,3-Dichloropropene	22	1.0	20.00	0	109	70	130			
1,2,3-Trichlorobenzene	21	1.0	20.00	0	107	70	130			
1,2,4-Trichlorobenzene	21	1.0	20.00	0	103	70	130			
1,1,1-Trichloroethane	23	1.0	20.00	0	114	70	130			
1,1,2-Trichloroethane	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	23	1.0	20.00	0	114	70	130			
Trichlorofluoromethane	25	1.0	20.00	0	127	70	130			
1,2,3-Trichloropropane	21	2.0	20.00	0	103	70	130			
Vinyl chloride	23	1.0	20.00	0	116	70	130			
Xylenes, Total	66	1.5	60.00	0	110	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.4		10.00		93.6	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R95371**	RunNo: **95371**
Prep Date:	Analysis Date: **3/17/2023**	SeqNo: **3449870** 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								

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 standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303472**

23-Mar-23

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R95371**	RunNo: **95371**
Prep Date:	Analysis Date: **3/17/2023**	SeqNo: **3449870** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303472**

23-Mar-23

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R95371**	RunNo: **95371**
Prep Date:	Analysis Date: **3/17/2023**	SeqNo: **3449870** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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		101	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2303472**

23-Mar-23

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: **MB-73717**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **73717**	RunNo: **95347**
Prep Date: **3/15/2023**	Analysis Date: **3/17/2023**	SeqNo: **3448842** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: **LCS-73717**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **73717**	RunNo: **95347**
Prep Date: **3/15/2023**	Analysis Date: **3/17/2023**	SeqNo: **3448843** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	990	50.0	1000	0	99.0	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS 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

Client Name: **EA Engineering** Work Order Number: **2303472** RcptNo: **1**

Received By: **Juan Rojas** **3/8/2023 2:51:00 PM**

Completed By: **Desiree Dominguez** **3/8/2023 3:41:56 PM**

Reviewed By: 3-8-23

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° C to 6.0°C Yes ☐ No ☑ NA ☐
   Samples were collected the same day and chilled.
5. Sample(s) in proper container(s)? 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. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
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? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 8 (<2 or >12 unless noted)
Adjusted? NO
Checked by: JM 3/8/23

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	17.0	Good	Not Present	Morty		

Chain-of-Custody Record

Client: EA Engineering

Mailing Address: 320 Gold Ave SW #1300
ABQ, NM 87102

Phone #: 505 224 9013

email or Fax#: Vmustafin@eaest.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☒ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Atex 213

Project #:

Project Manager: Vener Mustafin

Sampler: D. OBrien

On Ice: ☒ Yes ☐ No

# of Coolers: 1 Monty

Cooler Temp(including CF): 17.1-0.1=17.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2303472	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	300.1 Nitrate	300.1 Sulfate	SM 2540 C TDS			
3-8-23	0957	GW	NMW-1	VOA 3	H_2Cl_2	-001								X								
	0957		NMW-1	125 plastic	Sulfuric Acid												X					
	0957		NMW-1	125 Plastic	None													X				
	0957		NMW-1	250 Plastic	None														X			
	1041		RNMW-3	VOA 3	H_2Cl_2	-002								X								
	1041		RNMW-3	125 Plastic	Sulfuric												X					
	1041		RNMW-3	125 plastic	None													X				
	1041		RNMW-3	250 Plastic	None														X			
~~1039~~			RNMW-2	VOA 3	H_2Cl_2	-003								X								
	1111		RNMW-2	125 Plastic	Sulfuric												X					
	1111		RNMW-2	125 Plastic	None													X				
	1111		RNMW-2	250 Plastic	None														X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3-8-23	1451	Daniel OBrien		CDO	3/8/23	14:5[illegible]
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

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.

Chain-of-Custody Record

Client: T A Engineering
~~ABQ, NM 87102~~
Mailing Address: 320 Gold Ave SW #1300
ABQ, NM 87102
Phone #: 505 224 9013
email or Fax#: Vmustafin@eaest.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☒ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: Alex 213
Project #:
Project Manager: Vener Mustafin
Sampler: D. O'Brien
On Ice: ☐ Yes ☐ No
# of Coolers: 1 Monty
Cooler Temp(including CF): 17.1+0.4=17.5(°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2303472	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	300.1 Nitrate	300.1 Sulfate	SM2540C TDS			
3-8-23	1144	GW	MW-4R	VOA 3	HCl	-004								X								
	1144		MW-4R	125 Plastic	Sulfuric												X					
	1144		MW-4R	125 Plastic	None													X				
	1144		MW-4R	250 Plastic	None														X			
	1211		MW-6RR	VOA 3	HCl	-005								X								
	1211		MW-6RR	125 Plastic	Sulfuric												X					
	1211		MW-6RR	125 Plastic	None													X				
	1211		MW-6RR	250 Plastic	None														X			
	1241		MW-1R	VOA 3	HCl	-006								X								
	1241		MW-1R	125 Plastic	Sulfuric												X					
	1241		MW-1R	125 Plastic	None													X				
	1241		MW-1R	250 Plastic	None														X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3-8-23	1451	Daniel O'Brien			03/8/23	14:51
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

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.

Chain-of-Custody Record

Client: EA Engineering

Mailing Address: 320 Gold Ave SW #300
ABQ, NM 87102

Phone #: 505 224 9013

email or Fax#: vmustafin@eaest.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☒ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Atex 213

Project #:

Project Manager: Velmir Mustafin

Sampler: D. OBrien

On Ice: ☐ Yes ☐ No

# of Coolers: 1 Monty

Cooler Temp(including CF): 17.1+0.1=17.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
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Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2303472	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	300.1 Nitrate	300.1 Sulfate	SM 2540C TDS
3-8-23	1315	GW	MW-4R	VOA 3	HCl	-007								X					
	1315		MW-4R	125 Plastic	Sulfuric												X		
	1315		MW-4R	125 Plastic	None													X	X
	1315		MW-4R	250 Plastic	None														X
	1344		MW-38	VOA 3	HCl	-008								X					
	1344		MW-38	125 Plastic	Sulfuric												X		
	1344		MW-38	125 Plastic	None													X	
	1344		MW-38	250 Plastic	None														X
✓		✓																	

Analysis Request

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3-8-23	1451	Daniel OBrien		ODO	3/8/23	14:51
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:

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.