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Fourth Quarterly Groundwater Monitoring Report

Atex 213
3501 Isleta Boulevard, SW
Albuquerque, NM

PSTB Facility #31815, Release ID #28
Work Plan ID #4298, Deliverable ID #4298-4
Contract #20-667-3200-0020

Submitted to:

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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January 26, 2024

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January 26, 2024

Mr. Corey Jarrett
Geoscientist - Supervisor
Remedial Action Program
New Mexico Environment Department
Petroleum Storage Tank Bureau
2905 Rodeo Park Dr. East, Building 1
Santa Fe, NM 87505

Fourth Quarterly Groundwater Monitoring Report
Atex 213, 3501 Isleta Boulevard, SW, Albuquerque, NM
Release ID #: 28 Facility #: 31815 Work Plan 4298 Deliverable ID 4298-4
Contract #: 22 667 3200 0020

Dear Mr. Jarrett:

EA Engineering, Science, and Technology, Inc. PBC (EA) prepared this report to present the results of groundwater monitoring performed by EA on December 6, 2023, at Atex 213 located at 3501 Isleta Boulevard, SW, Albuquerque, New Mexico (***Figure 1***). This is the fourth groundwater monitoring event after the injection of PetroFix® in September 2022.

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 wells ***NMW-1*** (56 micrograms per liter [µg/L]) and ***RNMW-2*** (13 µg/L); the ***total naphthalenes*** concentration exceeded the standard in ***MW-1R*** (37 µg/L).
- In June 2022, EA prepared and submitted to NMED PSTB a ***Final Remediation Plan*** to inject ***PetroFix® with nitrate and sulfate electron donor amendments*** into the impacted saturated zone around ***MW-1R, RNMW-2***, and ***NMW-1*** using direct push methodology (EA, June 6, 2022).
- In September 2022, ***EA injected 1,464 pounds of PetroFix® (150 gallons) mixed with water (total solution volume of 1,066 gallons) around wells NMW-1, MW-1R, and RNMW-2***.
- Groundwater in the area of concern was encountered at approximately ***9-11 feet below the ground surface (bgs)***. The groundwater flow direction is generally to the ***south-southeast at a*** gradient of approximately ***0.001-0.002***.
- 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 and clay***.

1.2 April 2022 Baseline Groundwater Elevations and Geochemical Parameters

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 Groundwater 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 have been above the standards.

In April 2022, the benzene concentration was 32 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 December 6, 2023, EA personnel completed the following scope of work for the fourth quarterly post-injection groundwater monitoring event:

- Gauged water levels in wells ***BB-2, MW-1R, MW-2, 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 (SpC) 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 Eurofins Environment Testing South Central, LLC (Eurofins), labeled, placed into coolers packed with ice, entered into a chain of custody, and delivered to Eurofins under direct custody.
- Submitted groundwater samples to Eurofins for volatile organic compounds (***VOCs***) analysis by U.S. Environmental Protection Agency (EPA) ***Method 8260B***. Laboratory results are provided in ***Appendix B,*** sample quality control requirements are in ***Table 3***, and groundwater analytical results are in ***Table 4***.
- Prepared and submitted this report.

3. RESULTS

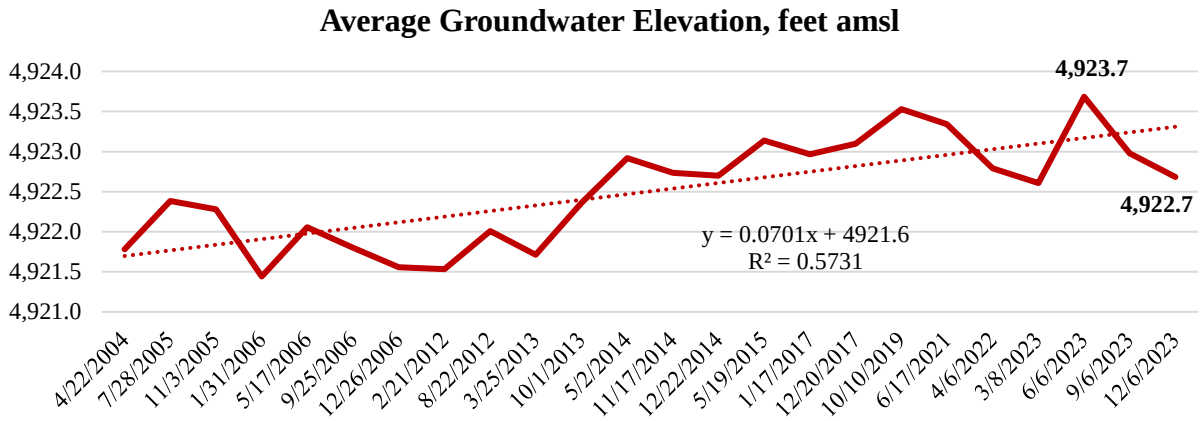
3.1 Groundwater Levels, Flow Direction, and Gradient

Provided below is a summary of groundwater gauging performed on December 6, 2023. Historical data are provided in ***Table 1***.

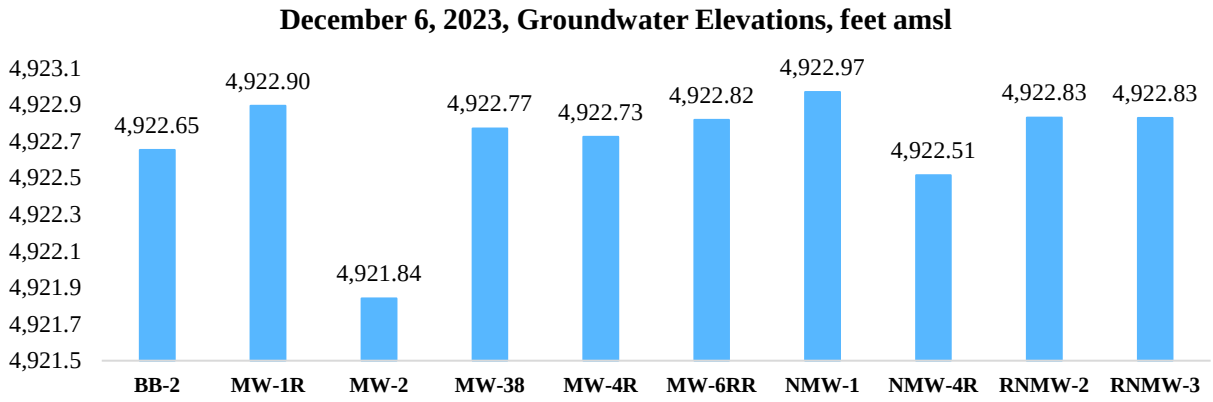
Groundwater Levels				
Units	*mm/dd/yy*	*feet amsl*	*feet btoc*	*feet amsl*
Well	**Date**	**Casing Elevation**	**Depth to Water**	**Groundwater Elevation**
BB-2	12/6/2023	4934.64	11.99	4922.65
MW-1R	12/6/2023	4932.08	9.18	4922.90
MW-2	12/6/2023	4934.72	12.88	4921.84
MW-38	12/6/2023	4931.87	9.10	4922.77
MW-4R	12/6/2023	4933.42	10.69	4922.73
MW-6RR	12/6/2023	4933.90	11.08	4922.82
NMW-1	12/6/2023	4932.63	9.66	4922.97
NMW-4R	12/6/2023	4932.53	10.02	4922.51
RNMW-2	12/6/2023	4933.45	10.62	4922.83
RNMW-3	12/6/2023	4933.22	10.39	4922.83
Average			**10.6**	**4922.7**

feet amsl = feet above mean sea level
feet bloc = feet below the top of the well casing
mm/dd/yy = month/date/year

The average water level was 10.6 feet bgs and the average groundwater elevation was 4,922.7 feet above the mean sea level (amsl), within the levels observed since 2014. The groundwater level trend since 2004 has been increasing.



The groundwater levels ranged from 4,921.84 in MW-2 feet amsl and 4,922.97 feet amsl in NMW-1.



When compared to September 2023, the average elevation decreased by 0.3 feet. The groundwater flow was to the ***south at an average gradient of 0.0015*** (***Figure 2***).

3.2 Groundwater Geochemical Conditions

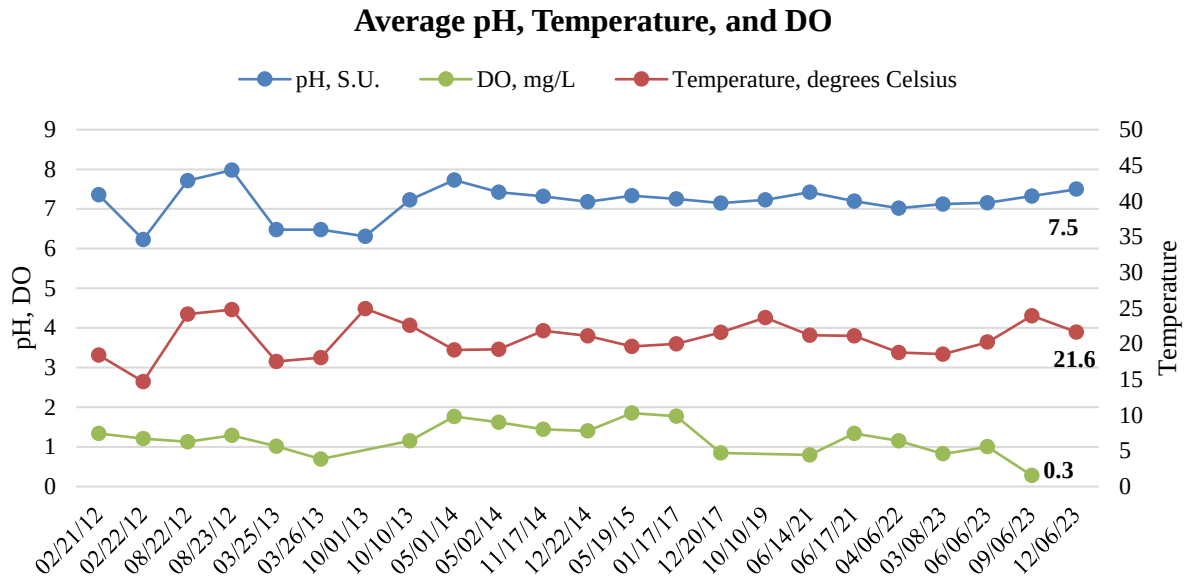
Provided below is a summary of the groundwater geochemical conditions.

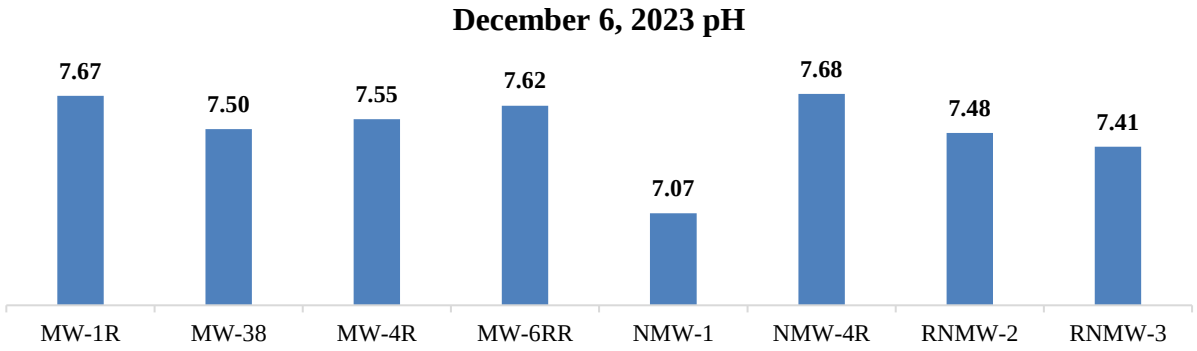
Groundwater Geochemical Parameters

Units	*mm/dd/yy*	*S.U.*	*µS/cm*	*°C*	*mV*
Well	**Date**	**pH**	**SpC**	**Temp**	**ORP**
MW-1R	12/06/23	7.67	735	21.5	12
MW-38	12/06/23	7.50	836	20.9	-27
MW-4R	12/06/23	7.55	700	20.5	-47
MW-6RR	12/06/23	7.62	720	21.7	-94
NMW-1	12/06/23	7.07	1,135	22.2	-225
NMW-4R	12/06/23	7.68	423	21.6	-41
RNMW-2	12/06/23	7.48	802	22.3	-160
RNMW-3	12/06/23	7.41	951	22.4	-230
Average		**7.50**	**788**	**21.6**	**-102**

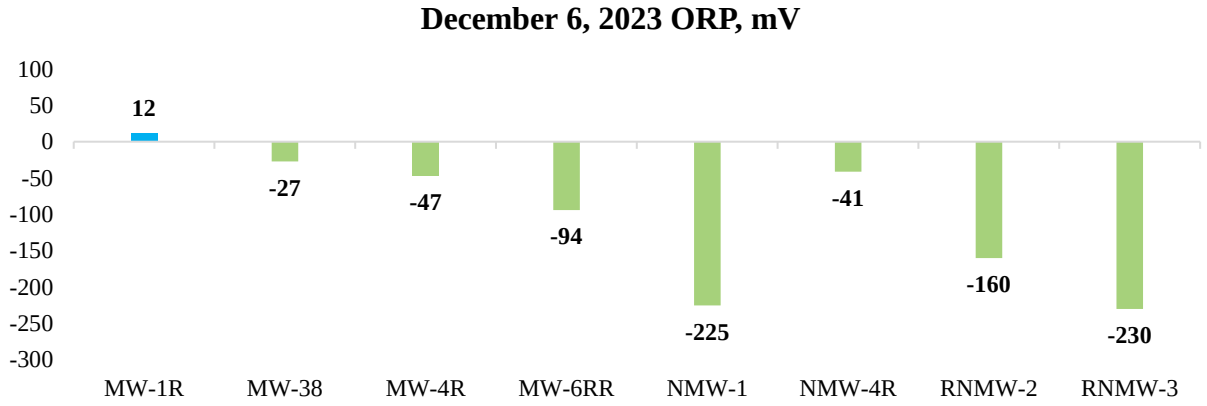
NOTES:
DO = Dissolved oxygen in milligrams per liter (mg/L)
ORP = Oxidation-Reduction Potential in millivolts (mVs)
pH = Potential of Hydrogen, standard units (S.U.)
SpC = Specific conductance in micro-siemens per centimeter (µS/cm)
Temp = Temperature in degrees Celsius (°C)

The average ***pH was near neutral*** at 7.5 standard units, the ***ORP was reducing*** averaging -102 millivolts (mVs), and the ***temperature was conducive to biodegradation*** at an average of 21.6 degrees Celsius in line with the seasonal variation. Based on reducing ORP values, the DO probe displaying aerobic conditions did not appear to be working; therefore, the values are not reported.

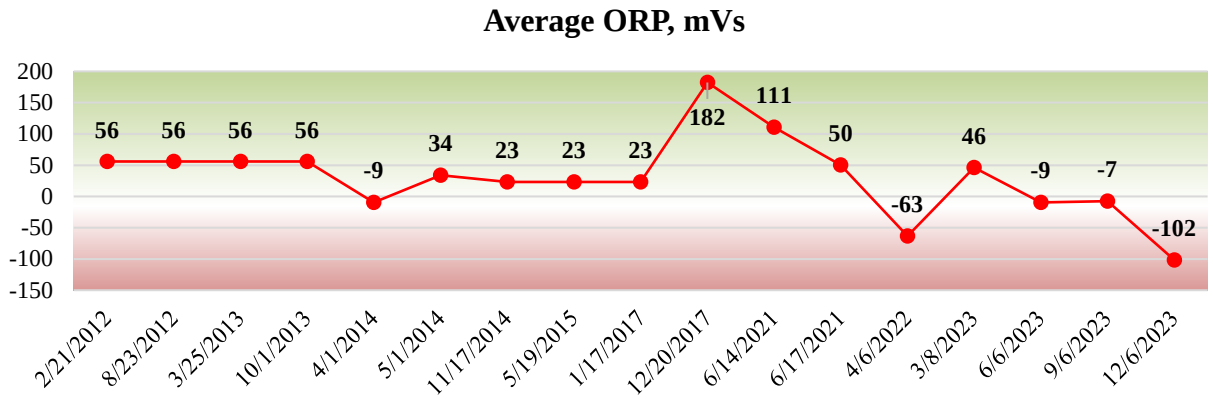




The ORP was reducing in all the wells except MW-1R, which was oxidizing. ORP was the most reducing in NMW-1 (-225 mVs) and RNMW-3 (-230 mVs).



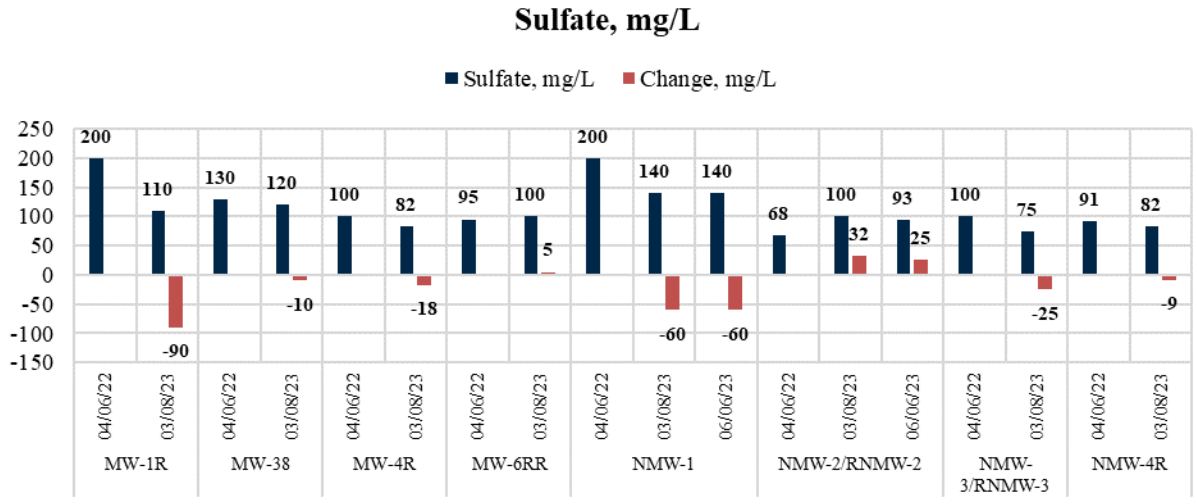
The average site ORP was -102 mVs, becoming more reducing from -7 mVs during the last sampling event in September 2023.



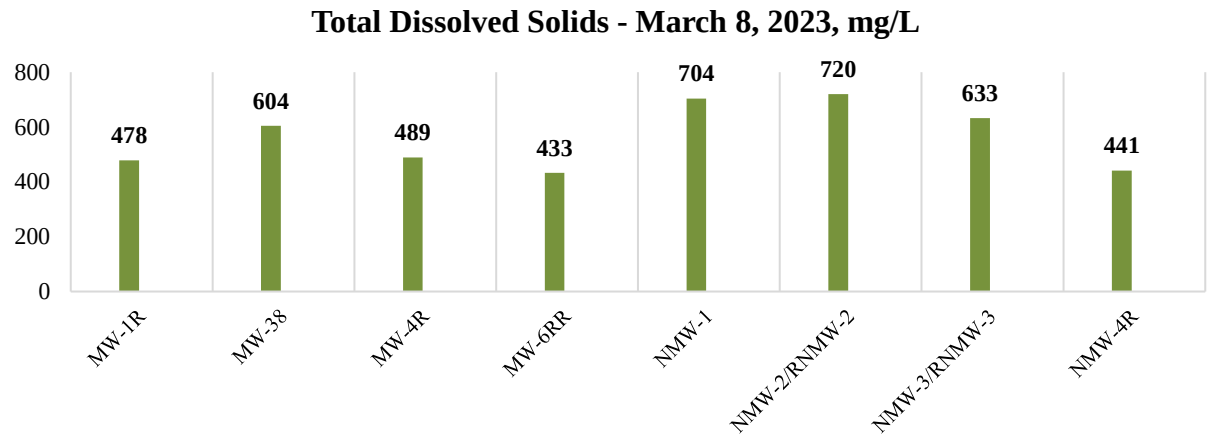
3.3 Nitrate, Sulfate, and TDS Concentration in Groundwater

Nitrate and sulfate were added as electron acceptors during the injection of PetroFix®. In April 2022, March 2023, and June 2023, ***nitrate concentrations were below*** the laboratory limits in NMW-1 and RNMW-2 indicating that nitrate was depleted during the biodegradation of petroleum hydrocarbons through nitrate ***respiration***. Nitrate, sulfate, and TDS were not analyzed during this quarter. The discussion below pertains to the previously collected data.

Between April 2022 and March 2023, ***sulfate concentrations decreased in MW-1R and NMW-1***, around which sulfate was injected with PetroFix®. The decrease indicates that petroleum hydrocarbons were likely biodegraded through ***sulfate respiration***. However, from March 2023 to June 2023, concentrations in NMW-1 did not change indicating that the sulfate reduction did not proceed further; strongly reducing conditions are typically required. The injection of sulfate around RNMW-2 is likely masking sulfate respiration as the pre-injection concentrations were about one-third of those in MW-1R and NMW-1.



In March 2023, the Total Dissolved Solids (TDS) concentrations ranged from 433 mg/L in MW-6RR to 720 mg/L in RNMW-2 indicating low to moderate salt content in the groundwater.



3.4 Volatile Organic Compounds in the Groundwater

Provided below is a summary of the December 6, 2023, results. Historical data are presented in ***Table 4***.

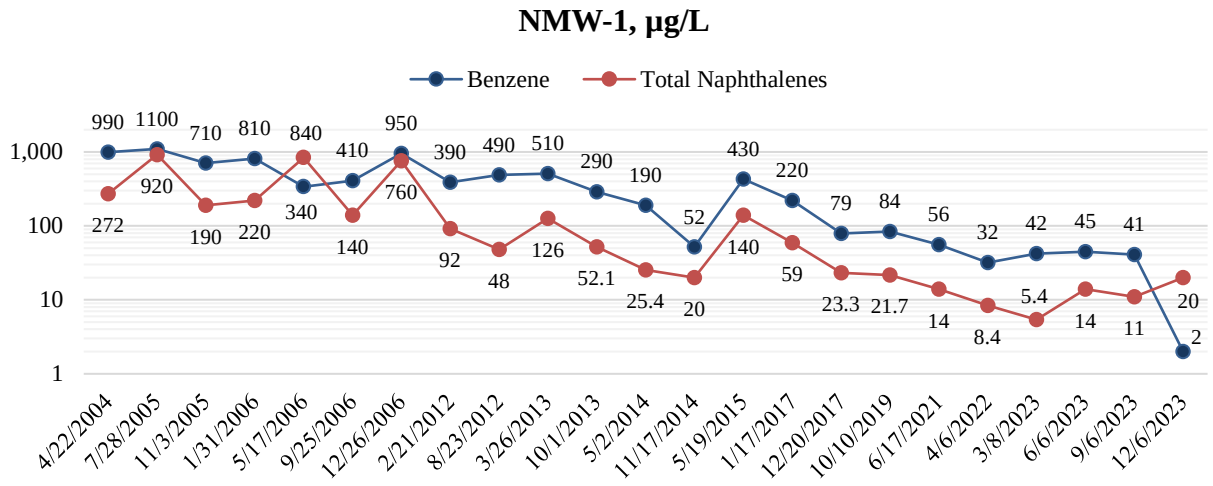
NMAC 20.6.2.3103	*5*	*1,000*	*700*	*620*	*100*	*30*
Well	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**TN**
MW-1R	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10
MW-1R Diluted	< **50**	< 50	< 50	< 75	< 50	< **500**
MW-4R	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 20
MW-6RR	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10
MW-38	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10
NMW-1	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 20
NMW-2/RNMW-2	< 1.0	< 1.0	< 1.0	< 1.5	**6.7**	< 10
NMW-3/RNMW-3	< 1.0	< 1.0	< 1.0	< 1.5	**10**	**5.0**
NMW-4R	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10

Concentrations are in micrograms per liter.
MW-1R had PetroFix® and was diluted in the laboratory due to matrix interference.
< = less than the laboratory reporting limit
MTBE = methyl tertiary-butyl ether
TN = total naphthalenes

The concentrations of all COCs were below the New Mexico Administrative Code (NMAC) 20.6.2.3103 human health standards for groundwater in all sampled wells. PetroFix® was present in MW-1R causing matrix interference and a dilution factor of 50. Estimated (MW-1R) and diluted (MW-1R Diluted) concentrations are shown in the table above.

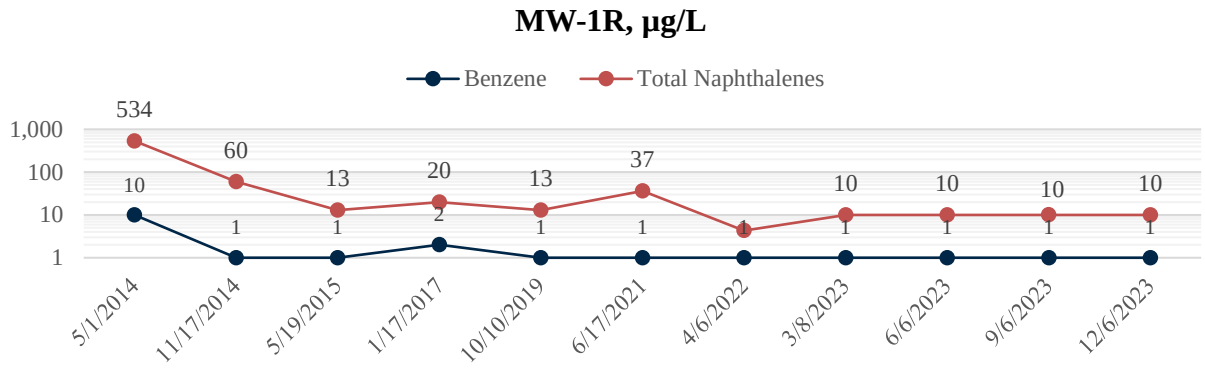
3.4.1 VOCs in NMW-1

The overall benzene and total naphthalene concentration trends in NMW-1 are decreasing. A substantial decrease was noted in the benzene concentration between the September 2023 sampling event and the December 2023 sampling event. ***The benzene concentration in the well is below the standard for the first time since 2004 and for the first time since the injection in September 2022***. Additional groundwater monitoring is recommended to track this trend.



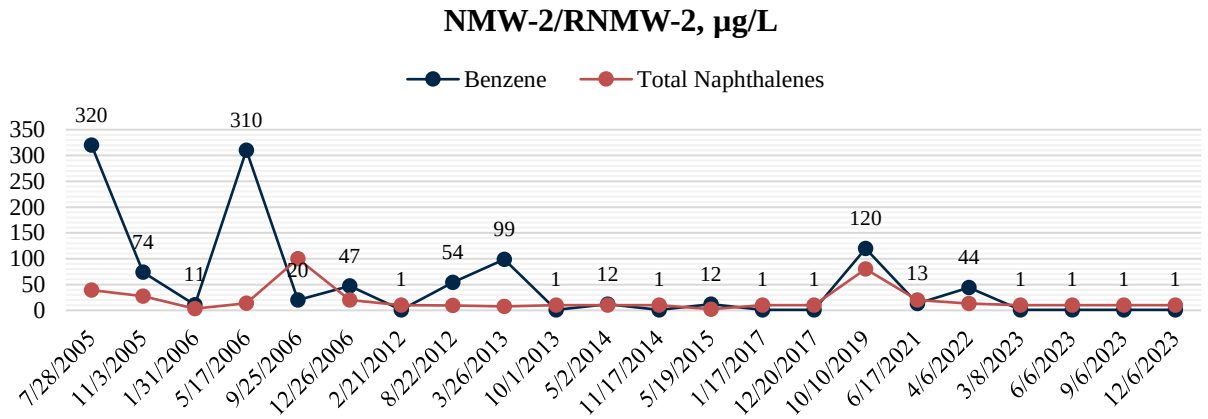
3.4.2 VOCs in MW-1R

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 concentration trends.



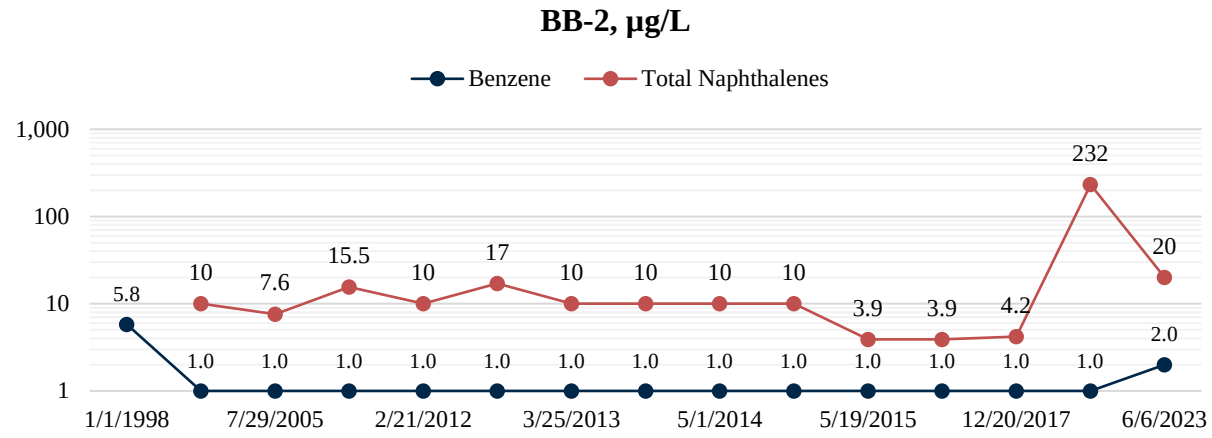
3.4.3 VOCs in NMW-2/RNMW-2

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



3.4.4 VOCs in BB-2

In BB-2, the total naphthalene concentrations decreased from 232 µg/L in October 2019 to below the standard of 30 µg/L in June 2023, and benzene concentrations remained below the standard of 5 µg/L. BB-2 was not sampled in December 2023.



4.0 SUMMARY AND RECOMMENDATIONS

4.1. Summary

- The average depth to water was 10.6 feet bgs and the average groundwater elevation was 4,922.7 feet amsl, within the range of levels observed since 2014. The groundwater flow was to the south at an average gradient of 0.0015. The groundwater level trend since 2004 has been increasing.
- The pH was near neutral, ORP was reducing, and the temperature was conducive to biodegradation.
- After becoming oxidizing following the injection of PetroFix, the average ORP decreased into a reducing range which may indicate that aerobic processes are likely decreased, and sulfate reduction is likely ongoing.
- After the injection, nitrate was not detected although it was injected. This indicates that nitrate respiration took place degrading hydrocarbon and denitrifying nitrates.
- Between the injection and March 2023, sulfate concentrations decreased indicating that sulfate respiration occurred and was likely degrading petroleum hydrocarbons by anaerobic bacteria. However, sulfate concentrations were largely unchanged between March 2023 and June 2023 indicating that sulfate respiration may have slowed or stalled. Decreasing ORP values indicate that sulfate reduction is likely ongoing.
- The TDS concentrations were within the expected range for the Rio Grande floodplain concentration range.
- ***The benzene concentration in NMW-1 decreased from 41 µg/L to less than 2.0 µg/L and is below the standard for the first time since the injection in September 2022.***
- ***COC concentrations in all sampled wells were below the NMAC 20.6.2.3103 human health standards for groundwater.***

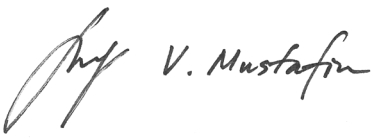
4.2 Recommendations

- Continue groundwater monitoring to track contaminant concentration trends in site wells after the injection. NMAC 20.5.119.1929 requires that the applicable standards be achieved concurrently at all compliance wells for at least eight consecutive quarters.
- The inclusion of BB-2 into the sampling regimen is recommended.
- 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.

Respectfully,

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



Vener Mustafin, P.E., Project Manager/Senior Engineer

ATTACHMENTS

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	4,934.64	10.88	4923.76	
BB-2	07/28/05	4,934.64	11.34	4923.30	
BB-2	11/03/05	4,934.64	11.56	4923.08	
BB-2	01/31/06	4,934.64	12.36	4922.28	
BB-2	05/17/06	4,934.64	11.66	4922.98	
BB-2	09/25/06	4,934.64	11.72	4922.92	
BB-2	12/26/06	4,934.64	12.04	4922.60	
BB-2	02/21/12	4,934.64	12.24	4922.40	
BB-2	08/22/12	4,934.64	11.69	4922.95	
BB-2	03/25/13	4,934.64	12.05	4922.59	
BB-2	10/01/13	4,934.64	11.70	4922.94	
BB-2	05/02/14	4,934.64	11.81	4922.83	
BB-2	11/17/14	4,934.64	12.06	4922.58	
BB-2	05/19/15	4,934.64	11.56	4923.08	
BB-2	01/17/17	4,934.64	11.82	4922.82	
BB-2	12/20/17	4,934.64	11.69	4922.95	
BB-2	10/10/19	4,934.64	11.18	4923.46	
BB-2	06/06/23	4,934.64	11.01	4923.63	
BB-2	12/06/23	4,934.64	11.99	4922.65	
MW-1	04/22/04	4,929.78	9.25	4920.53	
MW-1	07/28/05	4,929.78			*Dry*
MW-1	11/03/05	4,929.78			*Dry*
MW-1	01/31/06	4,929.78			*Dry*
MW-1	05/17/06	4,929.78			*Dry*
MW-1	09/25/06	4,929.78			*Dry*
MW-1	12/26/06	4,929.78			*Dry*
MW-1	02/21/12	4,929.78			*Dry*
MW-1	08/22/12	4,929.78			*Dry*
MW-1	03/25/13	4,929.78			*Dry*
MW-1	10/01/13	4,929.78			*Dry*
MW-1	04/29/14	4,929.78			*Plugged*
MW-10	04/22/04	4,930.98			*Plugged*
MW-1R	05/02/14	4,932.08	9.06	4923.02	
MW-1R	11/17/14	4,932.08	9.19	4922.89	***
MW-1R	05/19/15	4,932.08	8.86	4923.22	
MW-1R	01/17/17	4,932.08	8.98	4923.10	
MW-1R	12/20/17	4,932.08	8.87	4923.21	
MW-1R	10/10/19	4,932.08	8.45	4923.63	
MW-1R	06/17/21	4,932.08	8.63	4923.45	
MW-1R	04/06/22	4,932.08	9.27	4922.81	
MW-1R	03/08/23	4,932.08	9.34	4922.74	
MW-1R	06/06/23	4,932.08	8.32	4923.76	
MW-1R	09/06/23	4,932.08	8.98	4923.10	
MW-1R	12/06/23	4,932.08	9.18	4922.90	
MW-2	04/22/04	4,934.72	11.43	4923.29	
MW-2	07/28/05	4,934.72	11.39	4923.33	
MW-2	11/03/05	4,934.72	11.45	4923.27	
MW-2	01/31/06	4,934.72	12.27	4922.45	
MW-2	05/17/06	4,934.72	11.72	4923.00	
MW-2	09/25/06	4,934.72	11.82	4922.90	
MW-2	12/26/06	4,934.72	11.94	4922.78	
MW-2	02/21/12	4,934.72	12.13	4922.59	
MW-2	08/22/12	4,934.72	11.68	4923.04	
MW-2	03/25/13	4,934.72	11.96	4922.76	
MW-2	10/01/13	4,934.72	11.64	4923.08	
MW-2	05/02/14	4,934.72	11.74	4922.98	
MW-2	11/17/14	4,934.72	11.96	4922.76	
MW-2	05/19/15	4,934.72	11.59	4923.13	
MW-2	01/17/17	4,934.72	11.73	4922.99	

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	12/20/17	4,934.72	11.61	4923.11	
MW-2	10/10/19	4,934.72	11.17	4923.55	
MW-2	06/17/21	4,934.72			*Could not locate well*
MW-2	12/06/23	4,934.72	12.88	4921.84	
MW-29	04/22/04	4,930.19	9.60	4920.59	
MW-29	07/28/05	4,930.19	9.56	4920.63	
MW-29	11/03/05	4,930.19	9.66	4920.53	
MW-29	01/31/06	4,930.19	10.45	4919.74	
MW-29	05/17/06	4,930.19	9.89	4920.30	
MW-29	09/25/06	4,930.19	10.01	4920.18	
MW-29	12/26/06	4,930.19	11.14	4919.05	
MW-29	02/21/12	4,930.19	10.32	4919.87	
MW-29	08/22/12	4,930.19	9.87	4920.32	
MW-29	03/25/13	4,930.19	10.11	4920.08	
MW-29	10/01/13	4,930.19	9.81	4920.38	
MW-29	05/01/14	4,930.19			
MW-3	04/22/04	4,932.98	9.71	4923.27	
MW-3	07/28/05	4,932.98	9.65	4923.33	
MW-3	11/03/05	4,932.98	9.78	4923.20	
MW-3	01/31/06	4,932.98	10.57	4922.41	
MW-3	05/17/06	4,932.98	10.02	4922.96	
MW-3	09/25/06	4,932.98	10.05	4922.93	
MW-3	12/26/06	4,932.98	10.27	4922.71	
MW-3	02/21/12	4,932.98	10.42	4922.56	
MW-3	08/22/12	4,932.98	9.92	4923.06	
MW-3	03/25/13	4,932.98	10.25	4922.73	
MW-3	10/01/13	4,932.98	9.80	4923.18	
MW-3	05/02/14	4,932.98	10.00	4922.98	
MW-3	11/17/14	4,932.98	10.19	4922.79	
MW-3	05/19/15	4,932.98	9.82	4923.16	
MW-3	01/17/17	4,932.98	9.98	4923.00	
MW-3	12/20/17	4,932.98	9.87	4923.11	
MW-3	10/10/19	4,932.98			*Could not locate well*
MW-3	06/17/21	4,932.98			*Destroyed*
MW-38	04/22/04	4,931.87	8.62	4923.25	
MW-38	07/28/05	4,931.87	8.56	4923.31	
MW-38	11/03/05	4,931.87	8.70	4923.17	
MW-38	01/31/06	4,931.87	9.49	4922.38	
MW-38	05/17/06	4,931.87	8.90	4922.97	
MW-38	09/25/06	4,931.87	8.97	4922.90	
MW-38	12/26/06	4,931.87	9.19	4922.68	
MW-38	02/21/12	4,931.87	9.38	4922.49	
MW-38	08/22/12	4,931.87	8.88	4922.99	
MW-38	03/25/13	4,931.87	9.15	4922.72	
MW-38	10/01/13	4,931.87	8.85	4923.02	
MW-38	05/02/14	4,931.87	8.96	4922.91	
MW-38	11/17/14	4,931.87	9.18	4922.69	
MW-38	05/19/15	4,931.87	8.78	4923.09	
MW-38	01/17/17	4,931.87	8.96	4922.91	
MW-38	12/20/17	4,931.87	8.83	4923.04	
MW-38	10/10/19	4,931.87	8.36	4923.51	
MW-38	06/17/21	4,931.87	8.58	4923.29	
MW-38	04/06/22	4,931.87	9.06	4922.81	
MW-38	03/08/23	4,931.87	9.29	4922.58	
MW-38	06/06/23	4,931.87	8.18	4923.69	
MW-38	09/06/23	4,931.87	8.93	4922.94	
MW-38	12/06/23	4,931.87	9.10	4922.77	
MW-4	04/22/04	4,932.55	12.07	4920.48	
MW-4	07/28/05	4,932.55	12.03	4920.52	

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-4	11/03/05	4,932.55	12.19	4920.36	
MW-4	01/31/06	4,932.55	12.94	4919.61	
MW-4	05/17/06	4,932.55	12.35	4920.20	
MW-4	09/25/06	4,932.55	12.42	4920.13	
MW-4	12/26/06	4,932.55	12.64	4919.91	
MW-4	02/21/12	4,932.55	12.81	4919.74	
MW-4	08/22/12	4,932.55	12.32	4920.23	
MW-4	03/25/13	4,932.55	12.64	4919.91	
MW-4	04/29/14	4,932.55			*Plugged*
MW-4R	05/02/14	4,933.42	10.56	4922.86	
MW-4R	11/17/14	4,933.42	10.74	4922.68	
MW-4R	05/19/15	4,933.42	10.36	4923.06	
MW-4R	01/17/17	4,933.42	10.57	4922.85	
MW-4R	12/20/17	4,933.42	10.39	4923.03	
MW-4R	10/10/19	4,933.42	9.94	4923.48	
MW-4R	06/17/21	4,933.42	10.13	4923.29	
MW-4R	04/06/22	4,933.42	10.68	4922.74	
MW-4R	03/08/23	4,933.42	10.87	4922.55	
MW-4R	06/06/23	4,933.42	9.76	4923.66	
MW-4R	09/06/23	4,933.42	10.52	4922.90	
MW-4R	12/06/23	4,933.42	10.69	4922.73	
MW-5	04/22/04	4,931.85	11.44	4920.41	
MW-5	07/28/05	4,931.85	10.78	4921.07	
MW-5	11/03/05	4,931.85	11.00	4920.85	
MW-5	01/31/06	4,931.85	11.83	4920.02	
MW-5	05/17/06	4,931.85	11.12	4920.73	
MW-5	09/25/06	4,931.85	11.15	4920.70	
MW-5	12/26/06	4,931.85	11.54	4920.31	
MW-5	02/21/12	4,931.85			*Dry*
MW-5	08/22/12	4,931.85			*Dry*
MW-5	03/25/13	4,931.85			*Dry*
MW-5	10/01/13	4,931.85			*Dry*
MW-5	05/01/14	4,931.85			*Plugged*
MW-6	04/22/04	4,931.51	11.04		
MW-6	07/28/05	4,931.51	11.03		
MW-6	11/03/05	4,931.51	11.22		
MW-6	01/31/06	4,931.51	11.92		
MW-6	05/17/06	4,931.51	11.31		
MW-6	09/25/06	4,931.51	11.37		
MW-6	12/26/06	4,931.51	11.89		
MW-6	02/21/12	4,931.51	11.58		
MW-6	08/22/12	4,931.51	13.00		
MW-6	03/25/13	4,931.51	13.14		
MW-6	10/01/13	4,931.51	13.18		
MW-6	04/29/14	4,931.51			*Plugged*
MW-6R	05/02/14	4,934.26	11.36	4922.90	
MW-6R	11/17/14	4,934.26			*Destroyed*
MW-6RR	12/22/14	4,933.90	11.20	4922.70	
MW-6RR	05/19/15	4,933.90	10.73	4923.17	
MW-6RR	01/17/17	4,933.90	10.90	4923.00	
MW-6RR	12/20/17	4,933.90	10.78	4923.12	
MW-6RR	10/10/19	4,933.90	10.34	4923.56	
MW-6RR	06/17/21	4,933.90	10.50	4923.40	
MW-6RR	04/06/22	4,933.90	11.01	4922.89	
MW-6RR	03/08/23	4,933.90	11.29	4922.61	
MW-6RR	06/06/23	4,933.90	10.22	4923.68	
MW-6RR	09/06/23	4,933.90	10.88	4923.02	
MW-6RR	12/06/23	4,933.90	11.08	4922.82	
NMW-1	04/22/04	4,932.63	9.24	4923.39	

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	07/28/05	4,932.63	9.22	4923.41	
NMW-1	11/03/05	4,932.63	9.31	4923.32	
NMW-1	01/31/06	4,932.63	10.70	4921.93	
NMW-1	05/17/06	4,932.63	9.53	4923.10	
NMW-1	09/25/06	4,932.63	9.62	4923.01	
NMW-1	12/26/06	4,932.63	9.75	4922.88	
NMW-1	02/21/12	4,932.63	9.93	4922.70	
NMW-1	08/22/12	4,932.63	9.48	4923.15	
NMW-1	03/25/13	4,932.63	9.75	4922.88	
NMW-1	10/01/13	4,932.63	9.41	4923.22	
NMW-1	05/02/14	4,932.63	9.55	4923.08	
NMW-1	11/17/14	4,932.63	9.72	4922.91	***
NMW-1	05/19/15	4,932.63	9.38	4923.25	
NMW-1	01/17/17	4,932.63	9.57	4923.06	
NMW-1	12/20/17	4,932.63	9.39	4923.24	
NMW-1	10/10/19	4,932.63	8.96	4923.67	
NMW-1	06/17/21	4,932.63	9.16	4923.47	
NMW-1	04/06/22	4,932.63	9.72	4922.91	
NMW-1	03/08/23	4,932.63	9.87	4922.76	
NMW-1	06/06/23	4,932.63	8.79	4923.84	
NMW-1	09/06/23	4,932.63	9.49	4923.14	
NMW-1	12/06/23	4,932.63	9.66	4922.97	
NMW-2	04/22/04	4,930.38	10.03	4920.35	
NMW-2	07/28/05	4,930.38			*Destroyed*
NMW-3	04/22/04	4,930.56	10.28		
NMW-3	07/28/05	4,930.56			*Destroyed*
NMW-4	04/22/04	4,929.02	10.33	4918.69	
NMW-4	07/28/05	4,929.02			*NM*
NMW-4	11/03/05	4,929.02			*NM*
NMW-4	01/31/06	4,929.02			*NM*
NMW-4	05/17/06	4,929.02			*NM*
NMW-4	09/25/06	4,929.02	9.59	4919.43	
NMW-4	12/26/06	4,929.02	10.94	4918.08	
NMW-4	02/21/12	4,929.02	10.12	4918.90	
NMW-4	08/22/12	4,929.02	9.59	4919.43	
NMW-4	03/25/13	4,929.02	9.90	4919.12	
NMW-4	10/01/13	4,929.02	9.59	4919.43	
NMW-4	04/30/14	4,929.02			*Plugged*
NMW-4R	05/02/14	4,932.53	9.91	4922.62	
NMW-4R	11/17/14	4,932.53	10.12	4922.41	
NMW-4R	05/19/15	4,932.53	9.68	4922.85	
NMW-4R	01/17/17	4,932.53	9.88	4922.65	
NMW-4R	12/20/17	4,932.53	9.75	4922.78	
NMW-4R	10/10/19	4,932.53	9.24	4923.29	
NMW-4R	06/17/21	4,932.53	9.47	4923.06	
NMW-4R	04/06/22	4,932.53	10.03	4922.50	
NMW-4R	03/08/23	4,932.53	10.20	4922.33	
NMW-4R	06/06/23	4,932.53	9.09	4923.44	
NMW-4R	09/06/23	4,932.53	9.84	4922.69	
NMW-4R	12/06/23	4,932.53	10.02	4922.51	
RNMW-2	07/28/05	4,933.45	10.33	4923.12	
RNMW-2	11/03/05	4,933.45	10.44	4923.01	
RNMW-2	01/31/06	4,933.45	11.23	4922.22	
RNMW-2	05/17/06	4,933.45	10.64	4922.81	
RNMW-2	09/25/06	4,933.45	10.72	4922.73	
RNMW-2	12/26/06	4,933.45	10.92	4922.53	
RNMW-2	02/21/12	4,933.45	11.09	4922.36	
RNMW-2	08/22/12	4,933.45	10.61	4922.84	
RNMW-2	03/25/13	4,933.45	10.90	4922.55	

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	10/01/13	4,933.45	10.57	4922.88	
RNMW-2	05/02/14	4,933.45	10.70	4922.75	
RNMW-2	11/17/14	4,933.45	10.87	4922.58	***
RNMW-2	05/19/15	4,933.45	10.27	4923.18	
RNMW-2	01/17/17	4,933.45	10.44	4923.01	
RNMW-2	12/20/17	4,933.45	10.31	4923.14	
RNMW-2	10/10/19	4,933.45	9.88	4923.57	
RNMW-2	06/17/21	4,933.45	10.04	4923.41	
RNMW-2	04/06/22	4,933.45	10.62	4922.83	**
RNMW-2	03/08/23	4,933.45	10.79	4922.66	
RNMW-2	06/06/23	4,933.45	9.72	4923.73	
RNMW-2	09/06/23	4,933.45	10.39	4923.06	
RNMW-2	12/06/23	4,933.45	10.62	4922.83	
RNMW-3	07/28/05	4,933.22	9.89	4923.33	
RNMW-3	11/03/05	4,933.22	9.99	4923.23	
RNMW-3	01/31/06	4,933.22	10.80	4922.42	
RNMW-3	05/17/06	4,933.22	10.20	4923.02	
RNMW-3	09/25/06	4,933.22	10.27	4922.95	
RNMW-3	12/26/06	4,933.22	10.49	4922.73	
RNMW-3	02/21/12	4,933.22	10.65	4922.57	
RNMW-3	08/22/12	4,933.22	10.17	4923.05	
RNMW-3	03/25/13	4,933.22	10.45	4922.77	
RNMW-3	10/01/13	4,933.22	10.12	4923.10	
RNMW-3	05/02/14	4,933.22	10.23	4922.99	
RNMW-3	11/17/14	4,933.22	10.45	4922.77	
RNMW-3	05/19/15	4,933.22	10.06	4923.16	
RNMW-3	01/17/17	4,933.22	10.22	4923.00	
RNMW-3	12/20/17	4,933.22	10.09	4923.13	
RNMW-3	10/10/19	4,933.22	9.65	4923.57	
RNMW-3	06/17/21	4,933.22	9.84	4923.38	
RNMW-3	04/06/22	4,933.22	10.38	4922.84	**
RNMW-3	03/08/23	4,933.22	10.59	4922.63	
RNMW-3	06/06/23	4,933.22	9.49	4923.73	
RNMW-3	09/06/23	4,933.22	10.22	4923.00	
RNMW-3	12/06/23	4,933.22	10.39	4922.83	
W-34	04/22/04	4,928.70	7.92	4920.78	
W-34	07/28/05	4,928.70	8.09	4920.61	
W-34	11/03/05	4,928.70	8.11	4920.59	
W-34	01/31/06	4,928.70	8.92	4919.78	
W-34	05/17/06	4,928.70	8.40	4920.30	
W-34	09/25/06	4,928.70	8.51	4920.19	
W-34	12/26/06	4,928.70	8.61	4920.09	
W-34	02/21/12	4,928.70	8.77	4919.93	
W-34	08/22/12	4,928.70	8.33	4920.37	
W-34	03/25/13	4,928.70	8.61	4920.09	
W-34	10/01/13	4,928.70			*Paved over*
W-34	05/01/14	4,928.70			*Plugged*
W-35	04/22/04	4,931.50	8.14	4923.36	
W-35	07/28/05	4,931.50	8.29	4923.21	
W-35	11/03/05	4,931.50	8.31	4923.19	
W-35	01/31/06	4,931.50	9.14	4922.36	
W-35	05/17/06	4,931.50	8.64	4922.86	
W-35	09/25/06	4,931.50	8.74	4922.76	
W-35	12/26/06	4,931.50	8.83	4922.67	
W-35	02/21/12	4,931.50	8.99	4922.51	
W-35	08/22/12	4,931.50	8.55	4922.95	
W-35	03/25/13	4,931.50	8.85	4922.65	
W-35	10/01/13	4,931.50			*Paved over*
W-35	05/02/14	4,931.50	8.65	4922.85	

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-35	11/17/14	4,931.50	8.78	4922.72	
W-35	05/19/15	4,931.50	8.44	4923.06	
W-35	01/17/17	4,931.50	8.56	4922.94	
W-35	12/20/17	4,931.50	8.47	4923.03	
W-35	10/10/19	4,931.50			*Destroyed*
W-36	04/22/04	4,932.00	8.31	4923.69	
W-36	07/28/05	4,932.00	8.48	4923.52	
W-36	11/03/05	4,932.00	8.50	4923.50	
W-36	01/31/06	4,932.00	9.30	4922.70	
W-36	05/17/06	4,932.00	8.79	4923.21	
W-36	09/25/06	4,932.00	8.92	4923.08	
W-36	12/26/06	4,932.00	8.97	4923.03	
W-36	02/21/12	4,932.00	9.15	4922.85	
W-36	08/22/12	4,932.00	8.72	4923.28	
W-36	03/25/13	4,932.00	9.01	4922.99	
W-36	10/01/13	4,932.00			*Paved over*
W-36	05/02/14	4,932.00	8.80	4923.20	
W-36	11/17/14	4,932.00	8.97	4923.03	
W-36	05/19/15	4,932.00	8.62	4923.38	
W-36	01/17/17	4,932.00	8.76	4923.24	
W-36	12/20/17	4,932.00	8.63	4923.37	
W-36	10/10/19	4,932.00			*Destroyed*
W-37	04/22/04	4,930.10	9.26	4920.84	
W-37	07/28/05	4,930.10	9.43	4920.67	
W-37	11/03/05	4,930.10	9.49	4920.61	
W-37	01/31/06	4,930.10	10.22	4919.88	
W-37	05/17/06	4,930.10	9.74	4920.36	
W-37	09/25/06	4,930.10	9.90	4920.20	
W-37	12/26/06	4,930.10	8.78	4921.32	
W-37	02/21/12	4,930.10	10.09	4920.01	
W-37	08/22/12	4,930.10	9.67	4920.43	
W-37	03/25/13	4,930.10	9.97	4920.13	
W-37	10/01/13	4,930.10			*Paved over*
W-37	05/01/14	4,930.10			*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	*dd/mm/yy*	*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			
BB-2	06/06/23	7.49	603	19.4	1.15	6	
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-1R	06/06/23	7.32	557	19.9	1.08	-19	
MW-1R	09/06/23	7.70	1,314	24.1	0.21	-5	
MW-1R	**12/06/23**	**7.67**	**735**	**21.5**		**12**	
MW-2	02/21/12	7.36	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-4R	06/06/23	7.40	567	20.2	1.47	0	
MW-4R	09/06/23	7.45	1,387	24.0	0.26	-34	
MW-4R	**12/06/23**	**7.55**	**700**	**20.5**		**-47**	
MW-5	02/21/12						*Dry*
MW-5	08/22/12						*Dry*
MW-5	03/25/13						*Dry*
MW-5	10/01/13						*Dry*

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

Units	*dd/mm/yy*	*S.U.*	*µS/cm*	*°C*	*mg/L*	*mV*	
Well	**Date**	**pH**	**SpC**	**Temp**	**DO**	**ORP**	**Notes**
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		
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-6RR	06/06/23	7.03	567	20.1	0.68	7	
MW-6RR	09/06/23	7.49	1,357	21.4	0.25	21	
MW-6RR	**12/06/23**	**7.62**	**720**	**21.7**		**-94**	
MW-29	02/21/12		884	16.7	1.82	56	
MW-29	08/23/12	7.18	1,179	26.3	0.99	56	
MW-29	03/25/13	6.35	1,231	16.2	1.34	56	
MW-29	10/01/13	6.29	1,024	24.9		56	
MW-29	05/01/14					56	*Plugged*
MW-38	02/21/12		859	17.8	1.08	56	
MW-38	08/23/12	7.79	1,090	25.1	2.10	56	
MW-38	03/25/13	6.41	1,034	17.4	0.77	56	
MW-38	10/01/13	6.13	1,003	25.4		56	
MW-38	05/01/14	7.59	984	19.0	1.53	56	
MW-38	11/17/14	7.20	880	21.7	1.76	56	
MW-38	05/19/15	7.06	488	19.3	2.82	56	
MW-38	01/17/17	6.96	950	19.1	1.48	56	
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	
MW-38	06/06/23	7.07	647	20.4	1.01	20	
MW-38	09/06/23	7.04	1,546	24.8	0.30	13	
MW-38	**12/06/23**	**7.50**	**836**	**20.9**		**-27**	
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-1	06/06/23	6.95	839	20.8	0.96	-56	
NMW-1	09/06/23	7.00	1,924	26.0	0.26	-114	
NMW-1	**12/06/23**	**7.07**	**1,135**	**22.2**		**-225**	
NMW-4	04/01/14					-9	*Plugged*
NMW-4R	05/01/14					-9	*Developed at 4 gpm. 180 gallons removed.*
NMW-4R	11/17/14	7.36	513	20.9	1.31	-9	
NMW-4R	05/19/15	7.44	784	19.2	2.12	-9	
NMW-4R	01/17/17	7.42	567	19.3	1.75	-9	
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	
NMW-4R	06/06/23	7.37	524	20.2	1.16	-41	
NMW-4R	09/06/23	7.16	759	22.2	0.26	21	
NMW-4R	**12/06/23**	**7.68**	**423**	**21.6**		**-41**	
RNMW-2	02/21/12		852	19.3	1.14		
RNMW-2	08/22/12	7.84	1,176	23.1	1.28		

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

Units	*dd/mm/yy*	*S.U.*	*µS/cm*	*°C*	*mg/L*	*mV*	
Well	**Date**	**pH**	**SpC**	**Temp**	**DO**	**ORP**	**Notes**
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-2	06/06/23	6.64	617	20.2	0.72	19	
RNMW-2	09/06/23	7.36	1,680	24.1	0.31	36	
RNMW-2	**12/06/23**	**7.48**	**802**	**22.3**		**-160**	
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		
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	
RNMW-3	06/06/23	7.14	680	20.8	0.77	-19	
RNMW-3	09/06/23	7.41	1,840	24.7	0.35	3	
RNMW-3	**12/06/23**	**7.41**	**951**	**22.4**		**-230**	
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 = Potential 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 unpreserved 28 days preserved
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*	*10*	*600*	*1,000*	
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**BTEXMN**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
BB-2	01/01/98	5.8	< 5.0	50	21	1,200		1,282						
BB-2	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
BB-2	07/29/05	< 1.0	< 1.0	4.6	< 1.0	< 2.0	7.6	17						
BB-2	09/25/06	< 1.0	< 1.0	1.1	< 1.0	< 1.5	16	21						
BB-2	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	290	< 10	305						
BB-2	08/23/12	< 1.0	< 1.0	1.3	< 1.5	94	17	116						
BB-2	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	150	< 10	165						
BB-2	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	53	< 10	68						
BB-2	05/01/14	< 1.0	< 1.0	< 1.0	< 1.5	17	< 10	32						
BB-2	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	26	< 10	41						
BB-2	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	27	3.9	35						
BB-2	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	41	3.9	49	< 1.0	< 1.0				
BB-2	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	20	4.2	29	< 1.0	< 1.0				
BB-2	10/10/19	< 1.0	< 1.0	3.8	< 1.5	17	232	256	< 1.0	< 1.0				
BB-2	06/17/21													*Obstruction*
BB-2	06/06/23	< 2.0	< 2.0	< 2.0	< 3.0	3.4	< 20	32	< 2.0	< 2.0				
MW-1	01/01/98	< 5.0	110	320	370	2,200		3,005						
MW-1	04/22/04	< 1.0	< 1.0	4.8	< 1.0	< 1.0	4.3	13	< 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	1,264						
MW-1R	11/17/14	< 1.0	1.6	50	4.6	< 1.0	60	118						
MW-1R	05/19/15	< 1.0	< 1.0	21	< 1.5	< 1.0	13	39						
MW-1R	01/17/17	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 20	31	< 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	19	< 1.0	< 1.0				
MW-1R	06/17/21	< 1.0	< 1.0	2.2	< 1.5	< 1.0	37	43	< 1.0	< 1.0				
MW-1R	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	4.3	9.8	< 1.0	< 1.0	< 0.50	200		
MW-1R	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0	< 0.50	110	478	*Adjusted results for plotting*
MW-1R	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0				*Adjusted results for plotting*
MW-1R	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0				*Adjusted results for plotting*
MW-1R	12/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0				*Adjusted results for plotting*
MW-2	01/01/98	1.9	< 5.0	0.7	0.7	10		18						
MW-2	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15	< 1.0	< 0.010				
MW-2	07/28/05	< 1.0	< 1.0	< 1.0	< 1.0	3.6	< 10	18	< 1.0	< 0.010				
MW-2	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15	< 1.0	< 0.010				
MW-2	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	1.9	< 10	18	< 1.0	< 0.010				
MW-2	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	2.5	< 10	19	< 1.0	< 0.010				
MW-2	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	3.0	< 10	18						
MW-2	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	05/01/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-2	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0				
MW-2	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0				
MW-2	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 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		5,400						
MW-3	04/22/04	100	< 10	25	11	320	98	564	< 10	< 0.010				
MW-3	07/28/05	52	< 10	14	< 10	410	90	586	< 10	< 0.010				
MW-3	11/03/05	180	9.7	58	47	920	438	1,653	< 5.0	< 0.010				
MW-3	01/31/06	60	< 20	83	110	500	170	943	< 20	< 0.010				
MW-3	05/17/06	46	6.5	29	55	230	142	509	< 5.0	< 0.010				
MW-3	09/25/06	62	11	37	100	230	180	620	< 5.0	< 0.010				
MW-3	12/26/06	160	58	220	460	530	610	2,038	< 5.0	< 0.010				
MW-3	02/21/12	7.4	< 5.0	37	55	< 5.0	142	251						
MW-3	08/23/12	6.4	< 5.0	19	28	< 5.0	60	123						
MW-3	03/26/13	3.7	1.8	18	22	< 1.0	108	155						
MW-3	05/01/14	< 1.0	< 1.0	3.6	2.4	< 1.0	25	34	< 5.0	< 0.010				
MW-3	11/17/14	3.5	< 2.0	17	8.6	< 2.0	119	152						
MW-3	05/19/15	2.3	1.4	12	8.4	< 1.0	127	152						
MW-3	01/17/17	1.7	1.6	16	7.2	< 1.0	166	194	< 2.0	< 2.0				

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*	*10*	*600*	*1,000*	
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**BTEXMN**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
MW-3	12/20/17	2.4	**1.4**	**17**	**7.1**	< 1.0	**190**	219	< 1.0	< **1.0**				
MW-4	04/22/04	**590**	< 10	< 10	< 10	**1,400**	< **100**	2,120	< **10**	< 0.010				
MW-4	07/28/05	< 1.0	< 1.0	< 1.0	< 1.0	**720**	< 10	734	< 1.0	< 0.010				
MW-4	11/03/05	< **5.0**	< 5.0	< 5.0	< 5.0	**500**	< **50**	570	< **5.0**	< 0.010				
MW-4	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	**220**	< 10	234	< 1.0	< 0.010				
MW-4	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	**180**	< 10	196	< 1.0	< 0.010				
MW-4	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	**580**	< 10	596	< 1.0	< 0.010				
MW-4	12/26/06	**93**	< 10	< 10	< 30	**790**	< **100**	1,033	< **10**	< 0.010				
MW-4	02/22/12	< 1.0	< 1.0	< 1.0	< 1.5	**18**	< 10	33						
MW-4	08/23/12	< 1.0	< 1.0	< 1.0	< 1.5	**46**	< 10	61						
MW-4	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	**62**	< 10	77						
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**	155						
MW-4R	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	**8.0**	< 10	23						
MW-4R	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	**3.5**	< 10	18						
MW-4R	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	**7.0**	< 10	22	< 1.0	< **1.0**				
MW-4R	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-4R	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-4R	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	**1.3**	< 10	16	< 1.0	< **1.0**				
MW-4R	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	**1.7**	< 10	16	< 1.0	< **1.0**	< 0.50	100		
MW-4R	03/08/23	**1.7**	< 1.0	< 1.0	< 1.5	**4.3**	< 10	20	< 1.0	< **1.0**	< 0.50	82	489	
MW-4R	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-4R	09/06/23	< 2.0	< 2.0	< 2.0	< 3.0	**2.9**	< 10	22	< 2.0	< **2.0**				
MW-4R	12/06/23	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 20	31	< 2.0	< **2.0**				
MW-5	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5		4.5						
MW-5	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	**280**	< 10	294	< 1.0	< 0.010				
MW-5	07/29/05	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 10	16	< 1.0	< 0.010				
MW-5	11/03/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15	< 1.0	< 0.010				
MW-5	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	**190**	< 10	204	< 1.0	< 0.010				
MW-5	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18	< 1.0	< 0.010				
MW-5	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18	< **10**	< 0.010				
MW-5	12/26/06	< 1.0	< 1.0	< 1.0	< 3.0	**25**	< 10	41						
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*
MW-6	04/23/04	**50**	< 10	**14**	**15**	**830**	**140**	1,059		< 0.010				
MW-6	07/29/05	**45**	< 20	< 20	< 20	**800**	**210**	1,115		< 0.010				
MW-6	11/03/05	**46**	< 5.0	**28**	**16**	**570**	**380**	1,045		< 0.010				
MW-6	01/31/06	**24**	< 10	**20**	**13**	**730**	**253**	1,050		< 0.010				
MW-6	05/17/06	**20**	< 10	**11**	< 30	**490**	**160**	721		< 0.010				
MW-6	09/25/06	**84**	< 5.0	**32**	**15**	**1,200**	**630**	1,966		< 0.010				
MW-6	12/26/06	**33**	< 10	**16**	< 30	**720**	**395**	1,204		< 0.010				
MW-6	02/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-6	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	**1.8**	< 10	16						
MW-6	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	**1.1**	< 10	16						
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**	72						
MW-6R	11/17/14													*Destroyed*
MW-6RR	12/22/14	< **5.0**	< 5.0	**130**	**27**	**13**	**262**	442	< **5.0**	< **5.0**				
MW-6RR	05/19/15	< 1.0	< 1.0	**24**	**3.2**	**4.6**	**39**	73						
MW-6RR	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	**4.3**	9.8						
MW-6RR	12/20/17	3.4	< 1.0	< 1.0	< 1.5	**1.5**	**7.2**	16	< 1.0	< **1.0**				
MW-6RR	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-6RR	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-6RR	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**	< 0.50	95		
MW-6RR	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**	< 0.50	100	433	
MW-6RR	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-6RR	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-6RR	12/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-29	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5		4.5						
MW-29	04/22/04	< 1.0	< 1.0	< 1.0	< 1.0	**14**	< 10	28						
MW-29	07/29/05	< 1.0	< 1.0	< 1.0	< 1.0	**6.8**	< 10	21						
MW-29	09/25/06	< 1.0	< 1.0	< 1.0	< 1.0	**7.5**	< 10	22						
MW-29	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-29	08/23/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-29	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-29	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-29	05/01/14													*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*	*10*	*600*	*1,000*	
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**BTEXMN**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
MW-38	01/01/98	**46**	**1.2**	**8.1**	**7.6**	**9.0**		72						
MW-38	04/22/04	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 10	16						
MW-38	07/29/05	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
MW-38	11/03/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
MW-38	01/31/06	2.5	< 1.0	< 1.0	< 1.0	< 1.0	**2.5**	9.0						
MW-38	05/17/06	1.4	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18						
MW-38	09/25/06	1.5	< 1.0	< 1.0	< 3.0	< 1.5	**3.1**	11						
MW-38	12/26/06	**13**	< 1.0	**2.5**	< 3.0	< 1.5	**12**	33						
MW-38	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	08/23/12	1.5	< 1.0	< 1.0	< 1.5	**1.2**	**15**	21						
MW-38	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	05/01/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
MW-38	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**	< 0.50	130		
MW-38	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**	< 0.50	120	604	
MW-38	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
MW-38	12/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
NMW-1	01/01/98													*NAPL*
NMW-1	04/22/04	**990**	**200**	**28**	**1,100**	**580**	**272**	3,170						
NMW-1	07/28/05	**1,100**	**390**	< 50	**3,600**	**840**	**920**	6,900						
NMW-1	11/03/05	**710**	**170**	< 50	**640**	**480**	**190**	2,240						
NMW-1	01/31/06	**810**	**56**	< 50	**1,100**	**570**	**220**	2,806						
NMW-1	05/17/06	**340**	**95**	< 20	**1,700**	**320**	**840**	3,315						
NMW-1	09/25/06	**410**	< 10	< 10	**86**	**420**	**140**	1,076						
NMW-1	12/26/06	**950**	**55**	**44**	**900**	**750**	**760**	3,459						
NMW-1	02/21/12	**390**	< 10	**33**	**38**	**110**	**92**	673						
NMW-1	08/23/12	**490**	< 10	**23**	**70**	**94**	**48**	735						
NMW-1	03/26/13	**510**	**17**	**22**	**71**	**130**	**126**	876						
NMW-1	10/01/13	**290**	**8.4**	**3.1**	**39**	**44**	**52**	437						
NMW-1	05/02/14	**190**	**1.6**	**5.9**	**6.3**	**35**	**25**	264						
NMW-1	11/17/14	**52**	< 5.0	**5.3**	**19**	**9.3**	< 20	111						
NMW-1	05/19/15	**430**	**11**	**100**	**140**	**62**	**140**	883						
NMW-1	01/17/17	**220**	< 5.0	**47**	**32**	**16**	**59**	379	< **5.0**	< **5.0**				
NMW-1	12/20/17	**79**	**1.0**	**3.0**	**4.7**	**11**	**23**	122	< 1.0	< **1.0**				
NMW-1	10/10/19	**84**	**1.0**	**3.6**	**13**	**12**	**22**	135	< 1.0	< **1.0**				
NMW-1	06/17/21	**56**	< 1.0	**3.1**	< 1.5	**11**	**14**	87	< 1.0	< **1.0**				
NMW-1	04/06/22	**32**	< 1.0	**1.4**	**3.4**	**4.5**	**8.4**	51	< 1.0	< **1.0**	< 0.50	200		
NMW-1	03/08/23	**42**	< 2.0	< 2.0	< 3.0	**8.0**	**5.4**	62	< 2.0	< **2.0**	< 0.50	140	704	
NMW-1	06/06/23	**45**	< 2.0	**2.5**	< 3.0	**8.3**	**14**	75	< 2.0	< **2.0**	< 0.50	140		
NMW-1	09/06/23	**41**	< 2.0	< 2.0	< 3.0	**5.4**	**11**	64	< 2.0	< **2.0**				
NMW-1	12/06/23	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 20	31	< 2.0	< **2.0**				
NMW-4	06/01/94	< 0.5	< 0.5	< 0.5	< 0.5	< 2.5		4.5						
NMW-4	04/23/04	< 1.0	< 1.0	< 1.0	< 1.0	**2.7**	< 10	17						
NMW-4	07/29/05	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 10	16						
NMW-4	11/03/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
NMW-4	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
NMW-4	05/17/06	< 1.0	< 1.0	< 1.0	< 3.0	**9.7**	< 10	26						
NMW-4	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18						
NMW-4	12/26/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18						
NMW-4	02/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
NMW-4	08/23/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
NMW-4	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
NMW-4	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
NMW-4	04/30/14													*Plugged*
NMW-4R	05/01/14	**8.0**	**2.6**	< 1.0	< 1.5	**11**	< 10	34						
NMW-4R	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
NMW-4R	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	**18**	< 10	33						
NMW-4R	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	**2.0**	< 10	17	< 1.0	< **1.0**				
NMW-4R	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
NMW-4R	10/10/19	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< **1.0**				
NMW-4R	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	**3.1**	< 10	18	< 1.0	< **1.0**				
NMW-4R	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	**1.9**	< 10	16	< 1.0	< **1.0**	< 0.50	91		
NMW-4R	03/08/23	< 2.0	< 2.0	< 2.0	< 3.0	< 2.0	< 20	31	< 2.0	< **2.0**	< 0.50	82	441	
NMW-4R	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	**3.1**	< 10	18	< 1.0	< **1.0**				
NMW-4R	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 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*	*10*	*600*	*1,000*	
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**BTEXMN**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
NMW-4R	12/06/23	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16	< 1.0	< 1.0				
W-34	01/01/98	1.2	< 5.0	**7.6**	**7.2**	< 2.5		24						
W-34	05/06/04	< 1.0	< 1.0	**6.7**	**3.4**	< 1.0	< 10	23						
W-34	07/28/05	< 1.0	< 1.0	**3.7**	**1.3**	< 1.0	< 10	18						
W-34	09/25/06	< 1.0	< 1.0	< 1.0	< 3.0	< 1.5	< 10	18						
W-34	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-34	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-34	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
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		7,505						
W-35	05/06/04	< 1.0	< 1.0	**110**	**96**	< 1.0	164	373						
W-35	07/28/05	< 5.0	< 5.0	**250**	**42**	< 5.0	400	707						
W-35	09/25/06	< 1.0	< 1.0	**12**	< 3.0	< 1.5	188	207						
W-35	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-35	08/22/12	< 1.0	< 1.0	**6.9**	< 1.5	< 1.0	55	67						
W-35	03/25/13	< 1.0	< 1.0	**32**	< 1.5	< 1.0	399	436						
W-35	10/01/13													*Paved over*
W-35	05/02/14	< 1.0	< 1.0	**7.5**	< 1.5	< 1.0	124	136						
W-35	11/17/14	< 1.0	< 1.0	**15**	< 1.5	< 1.0	99	118						
W-35	05/19/15	< 1.0	< 1.0	**3.6**	< 1.5	< 1.0	45	53						
W-35	01/17/17	< 1.0	< 1.0	**16**	< 1.5	< 1.0	525	546	< 1.0	< 1.0				
W-35	12/20/17	< 2.0	< 2.0	**5.2**	< 3.0	< 2.0	128	142	< 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**		116						
W-36	05/06/04	< 10	< 10	**190**	**390**	< 10	230	840						
W-36	07/28/05	< 1.0	< 1.0	**55**	**77**	< 1.0	77	212						
W-36	11/03/05	< 1.0	< 1.0	**2.9**	**3.6**	< 1.0	**3.3**	13						
W-36	01/31/06	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
W-36	05/17/06	< 1.0	< 1.0	**3.0**	< 3.0	< 1.5	**4.1**	14						
W-36	09/25/06	< 1.0	< 1.0	**23**	**3.0**	< 1.5	82	111						
W-36	12/26/06	< 1.0	< 1.0	**15**	**4.5**	< 1.5	55	78						
W-36	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-36	08/22/12	< 1.0	< 1.0	**2.3**	< 1.5	< 1.0	**11**	18						
W-36	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-36	10/01/13													*Paved over*
W-36	05/02/14	< 1.0	< 1.0	**2.4**	< 1.5	< 1.0	**12**	19						
W-36	11/17/14	< 1.0	< 1.0	**3.8**	< 1.5	< 1.0	**17**	25						
W-36	05/19/15	< 1.0	< 1.0	**2.6**	< 1.5	< 1.0	31	38						
W-36	01/17/17	< 1.0	< 1.0	**1.1**	< 1.5	< 1.0	**18**	24	< 1.0	< 1.0				
W-36	12/20/17	< 1.0	< 1.0	**4.1**	< 1.5	< 1.0	70	79	< 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		4.5						
W-37	05/06/04	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
W-37	07/28/05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	15						
W-37	09/25/06	< 1.0	< 1.0	**12**	< 3.0	< 1.5	< 10	29						
W-37	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-37	08/22/12	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-37	03/25/13	< 1.0	< 1.0	< 1.0	< 1.5	< 1.0	< 10	16						
W-37	10/01/13													*Paved over*
W-37	05/01/14													*Plugged*
MW-1R Diluted	03/08/23	< 50	< 50	< 50	< 75	< 50	< 500	775	< 1.0	< 1.0				*Actual 50-x diluted reported results. Matrix interference due to presence of PetroFix®*
MW-1R Diluted	06/06/23	< 8.0	< 20	< 20	< 30	< 20	< 500	598	< 8.0	< 20				*Actual 20-x diluted reported results. Matrix interference due to presence of PetroFix ®*
MW-1R Diluted	09/06/23	10	< 20	< 20	< 30	< 20	< 500	600	< 20	< 20				*Actual 20-x diluted reported results. Matrix interference due to presence of PetroFix ®*
MW-1R Diluted	12/06/23	< 50	< 50	< 50	< 75	< 50	< 500	775	< 50	< 50				*Actual 50-x diluted reported results. Matrix interference due to presence of PetroFix®*
NMW-2/RNMW-2	04/23/04													*NAPL*
NMW-2/RNMW-2	07/28/05	320	**11**	710	**120**	1,300	39	2,500						
NMW-2/RNMW-2	11/03/05	74	**1.1**	**160**	**52**	590	**27**	905						
NMW-2/RNMW-2	01/31/06	11	< 1.0	**45**	**4.1**	560	**3.0**	624						
NMW-2/RNMW-2	05/17/06	310	< 1.0	**31**	**19**	550	**14**	925						
NMW-2/RNMW-2	09/25/06	20	< 10	**16**	< 30	1,300	< 100	1,476						
NMW-2/RNMW-2	12/26/06	47	< 10	< 10	< 30	1,000	**20**	1,117						
NMW-2/RNMW-2	02/21/12	< 1.0	< 1.0	< 1.0	< 1.5	**83**	< 10	98						
NMW-2/RNMW-2	08/22/12	54	< 1.0	< 1.0	< 1.5	290	**9.6**	357						
NMW-2/RNMW-2	03/26/13	99	**1.2**	**1.7**	**2.2**	220	**7.4**	332						
NMW-2/RNMW-2	10/01/13	< 1.0	< 1.0	< 1.0	< 1.5	**61**	< 10	76						
NMW-2/RNMW-2	05/02/14	12	< 1.0	< 1.0	< 1.5	**72**	< 10	98						
NMW-2/RNMW-2	11/17/14	< 1.0	< 1.0	< 1.0	< 1.5	**62**	< 10	77						

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*	*10*	*600*	*1,000*	
Well	**Date**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**MTBE**	**Total Naphthalenes**	**BTEXMN**	**EDC**	**EDB**	**Nitrate**	**Sulfate**	**TDS**	**Notes**
NMW-2/RNMW-2	05/19/15	**12**	< 1.0	< 1.0	< 1.5	**50**	**2.3**	68						
NMW-2/RNMW-2	01/17/17	< 1.0	< 1.0	< 1.0	< 1.5	**23**	< 10	38	< 1.0	< 1.0				
NMW-2/RNMW-2	12/20/17	< 1.0	< 1.0	< 1.0	< 1.5	**18**	< 10	33	< 1.0	< 1.0				
NMW-2/RNMW-2	10/10/19	**120**	**1.9**	**3.4**	**2.8**	**110**	**80**	318	< 1.0	< 1.0				
NMW-2/RNMW-2	06/17/21	**13**	< 2.0	< 2.0	< 3.0	**44**	< 20	84	< 2.0	< 2.0				
NMW-2/RNMW-2	04/06/22	**44**	< 2.0	< 2.0	< 3.0	**51**	**13**	115	< 1.0	< 1.0	< 0.50	68		
NMW-2/RNMW-2	03/08/23	< 1.0	< 1.0	< 1.0	< 1.5	**46**	< 10	61	< 1.0	< 1.0	< 0.50	100	720	
NMW-2/RNMW-2	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	**9.5**	< 10	24	< 1.0	< 1.0	< 0.50	93		
NMW-2/RNMW-2	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	**22**	< 10	37	< 1.0	< 1.0				
NMW-2/RNMW-2	12/06/23	< 1.0	< 1.0	< 1.0	< 1.5	**6.7**	< 10	21	< 1.0	< **1.0**				
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**	1,805						
NMW-3/RNMW-3	11/03/05	**130**	**7.7**	**89**	**170**	**1,400**	**32**	1,829						
NMW-3/RNMW-3	01/31/06	**11**	< 1.0	**16**	**6.4**	**550**	**3.3**	588						
NMW-3/RNMW-3	05/17/06	**16**	< 1.0	**7.9**	< 3.0	**370**	< 10	408						
NMW-3/RNMW-3	09/25/06	**220**	< 5.0	**64**	< 15	**1,400**	**110**	1,814						
NMW-3/RNMW-3	12/26/06	**6.4**	< 5.0	< 5.0	< 15	**580**	< **50**	661						
NMW-3/RNMW-3	02/21/12	1.8	< 1.0	< 1.0	< 1.5	**120**	**4.9**	130						
NMW-3/RNMW-3	08/23/12	1.2	< 1.0	< 1.0	< 1.5	**170**	**5.5**	180						
NMW-3/RNMW-3	03/26/13	4.6	< 1.0	< 1.0	< 1.5	**86**	**5.4**	100						
NMW-3/RNMW-3	10/01/13	1.2	< 1.0	< 1.0	< 1.5	**83**	**10**	98						
NMW-3/RNMW-3	05/02/14	< 1.0	< 1.0	< 1.0	< 1.5	**31**	< 10	46						
NMW-3/RNMW-3	11/17/14	1.1	< 1.0	< 1.0	< 1.5	**63**	< 10	78						
NMW-3/RNMW-3	05/19/15	< 1.0	< 1.0	< 1.0	< 1.5	**46**	< 10	61						
NMW-3/RNMW-3	01/17/17	1.3	< 1.0	< 1.0	< 1.5	**64**	**10**	79	< 1.0	< **1.0**				
NMW-3/RNMW-3	12/20/17	2.0	< 1.0	< 1.0	< 1.5	**61**	**10**	77	< 1.0	< **1.0**				
NMW-3/RNMW-3	10/10/19	1.5	< 1.0	< 1.0	< 1.5	**30**	**9.6**	45	< 1.0	< **1.0**				
NMW-3/RNMW-3	06/17/21	< 1.0	< 1.0	< 1.0	< 1.5	**11**	< 10	26	< 1.0	< **1.0**				
NMW-3/RNMW-3	04/06/22	< 1.0	< 1.0	< 1.0	< 1.5	**5.5**	< 10	20	< 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	28	< 1.0	< **1.0**	< 0.50	75	633	
NMW-3/RNMW-3	06/06/23	< 1.0	< 1.0	< 1.0	< 1.5	**11**	< 10	26	< 1.0	< **1.0**				
NMW-3/RNMW-3	09/06/23	< 1.0	< 1.0	< 1.0	< 1.5	**20**	< 10	35	< 1.0	< **1.0**				
NMW-3/RNMW-3	12/06/23	< 1.0	< 1.0	< 1.0	< 1.5	**10**	**5.0**	20	< 1.0	< **1.0**				

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).

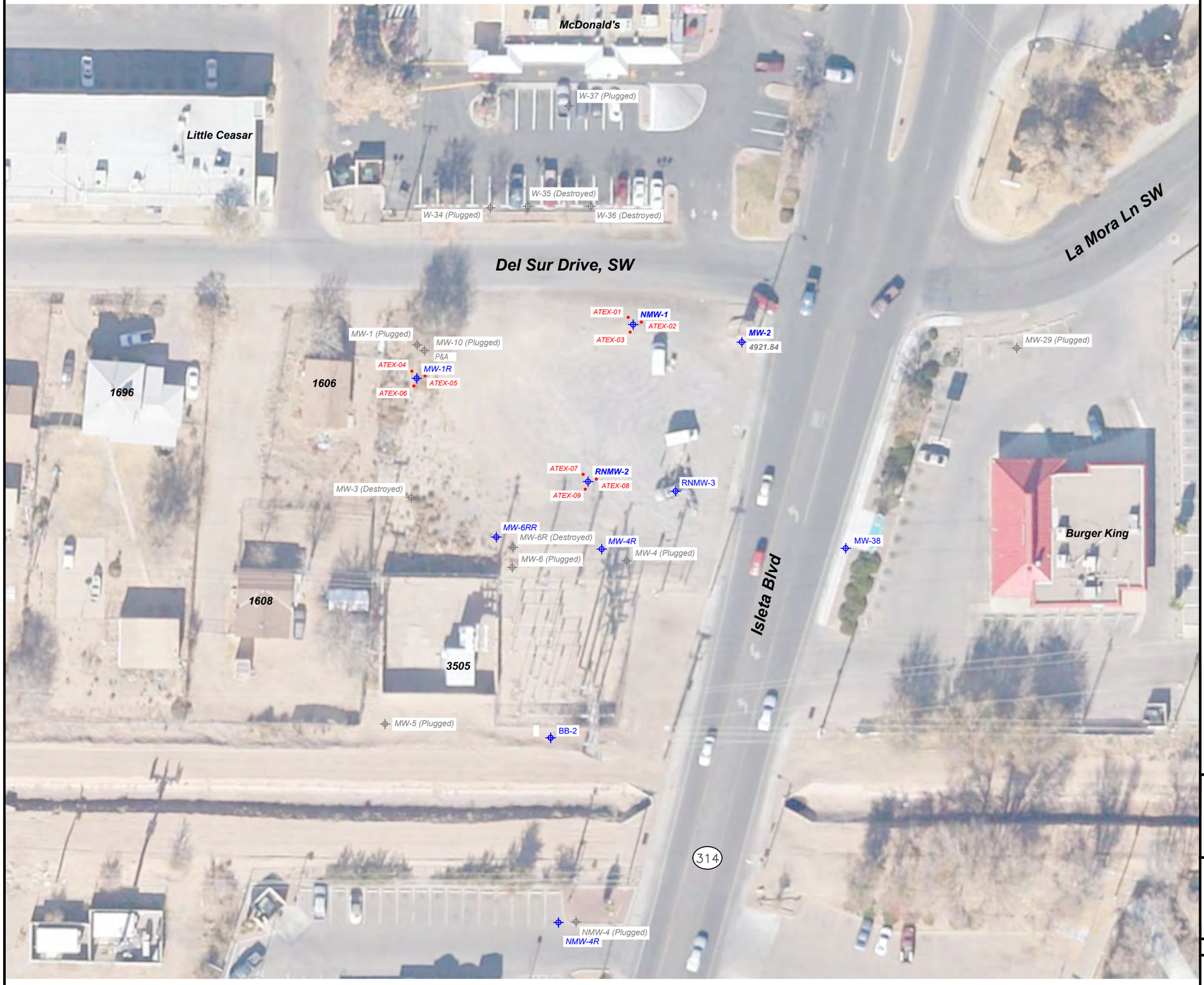
All data reported prior to 2012 from Groundwater Monitoring Report, Atex #213 UST Release Site, Albuquerque, New Mexico (Souder Miller Associates, 2007).

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 #:	66384309	PROJECT PHASE:	01	PROJECT MANAGER:	VM

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

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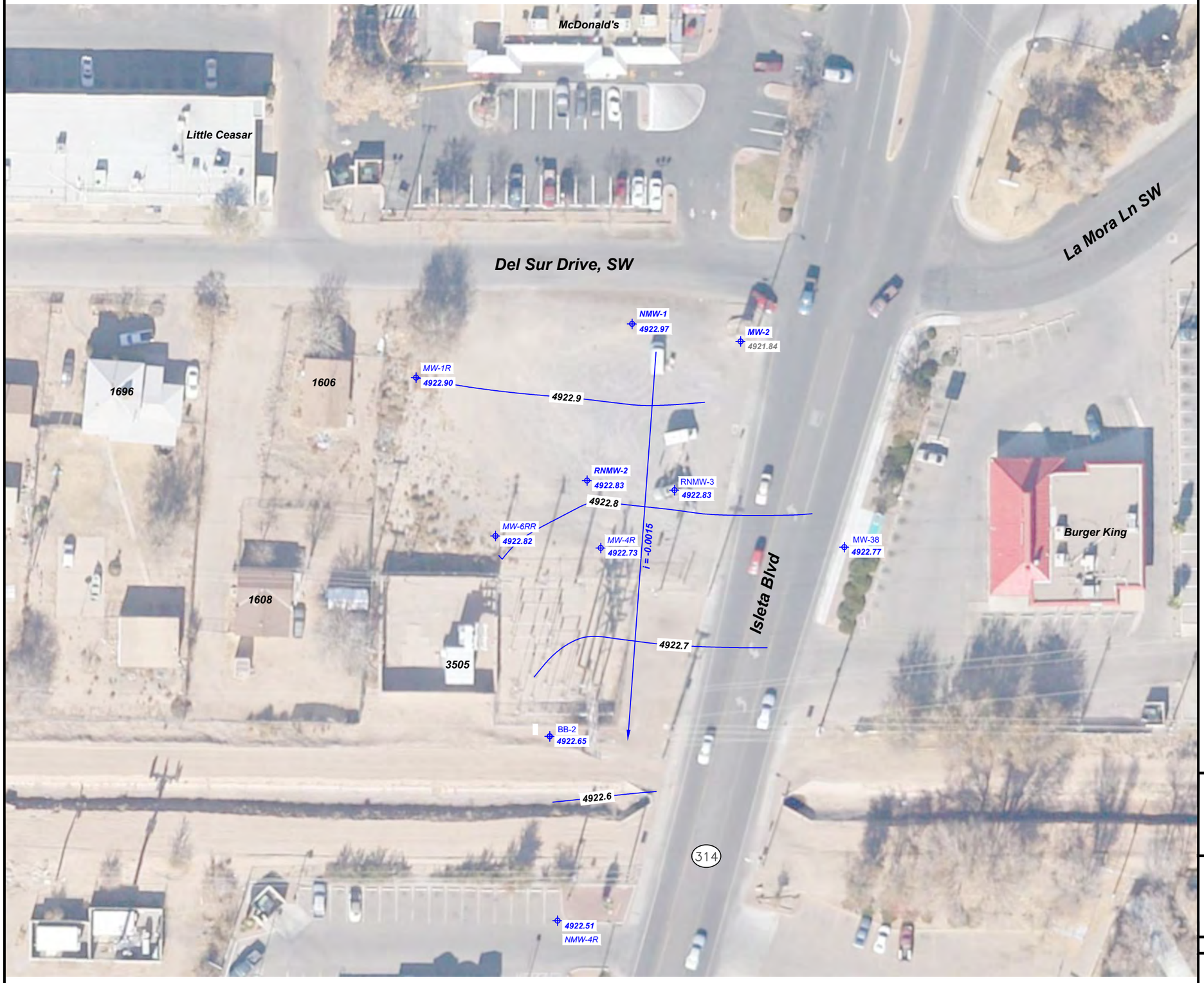

LEGEND:

- MW-2 — MONITORING WELL
- 4922.50 — GROUNDWTATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
- GROUNDWATER FLOW DIRECTION AVERAGE GRADIENT 0.0015

NOTE:

1. *GROUNDWATER ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL.*
2. *GRAYED ELEVATIONS ARE EXCLUDED FROM CONTOURING.*

50 25 0 50
SCALE IN FEET

ATEX 213
ALBUQUERQUE, NEW MEXICO

FIGURE 2
GROUNDWATER CONTOUR MAP
DECEMBER 6, 2023

PROJECT #:	66384309	PROJECT PHASE:	01	PROJECT MANAGER:	VM

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

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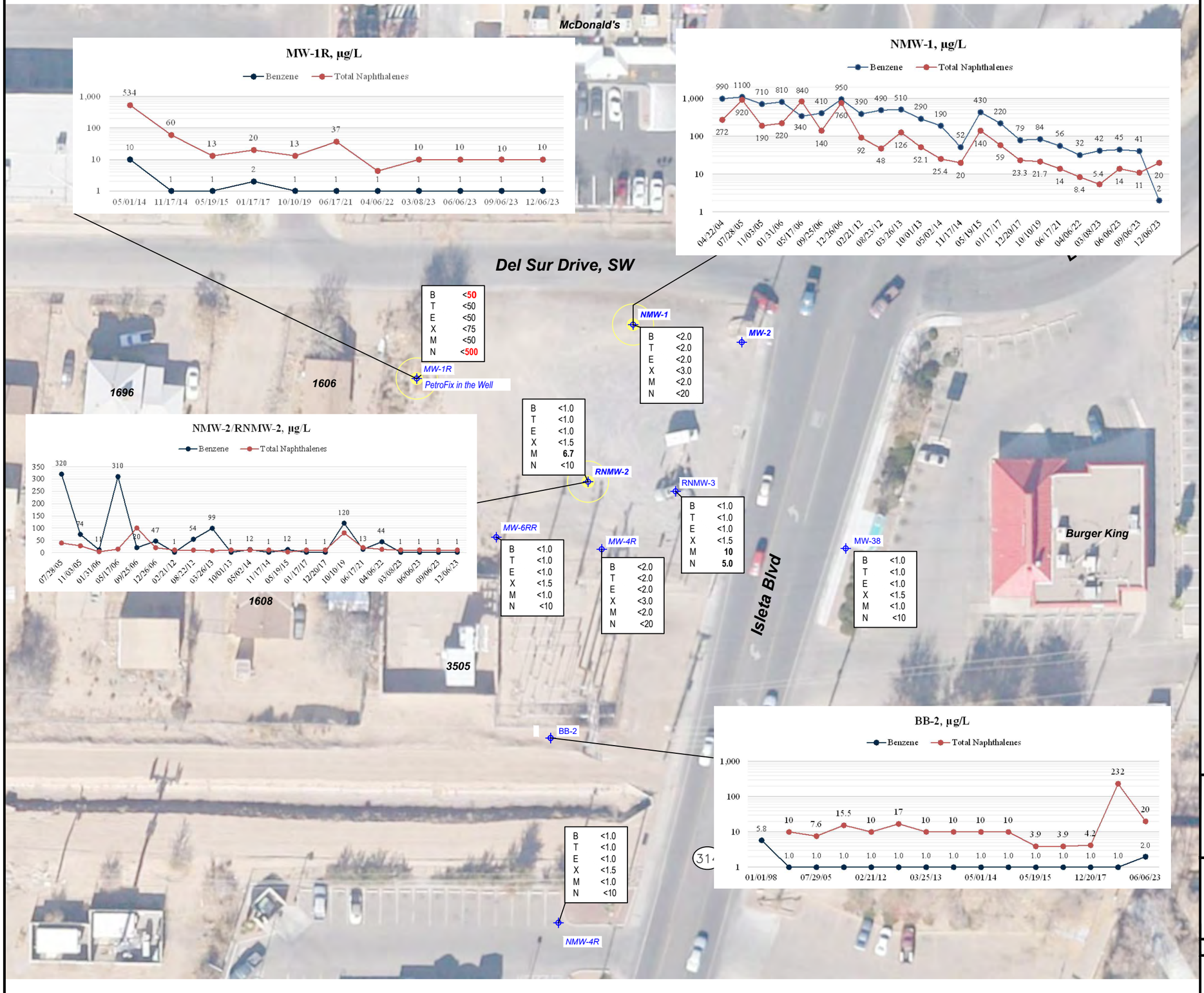

LEGEND:

MW-2 — MONITORING WELL

PETROFIX WAS INJECTED IN THE AREA SURROUNDING THE WELL IN SEPTEMBER 2022.

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

NOTES:

1. *ON GRAPHS, WHEN CONCENTRATIONS WERE BELOW DETECTION LIMITS, REPORTING LIMITS WERE USED FOR GRAPHING PURPOSES.*
2. *MW-1R HAD PETROFIX®. THEREFORE, THE LABORATORY DILUTED THE SAMPLE TO ANALYZE IT. THIS RESULTED IN HIGH REPORTING LIMITS. THE VALUES SHOWN ON THE GRAPH WERE ADJUSTED TO THE STANDARD DILUTION.*
3. *PLEASE SEE TABLE 4 FOR ADDITIONAL CONCENTRATION DATA.*
4. *CONCENTRATIONS ARE IN MICROGRAMS PER LITER.*

50 25 0 50
SCALE IN FEET

ATEX 213
ALBUQUERQUE, NEW MEXICO

FIGURE 3
VOLATILE ORGANIC COMPOUNDS
DECEMBER 6, 2023

PROJECT #:	66384309	PROJECT PHASE:	01	PROJECT MANAGER:	VM

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

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Appendix A – Field Records

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

320 Gold Avenue SW, Suite 1300
Albuquerque, NM 87102
Telephone: 505-224-9013
www.eaest.com

Project Manager: Vener Mustafin 505-296-1070 vmustafin@eaest.com

Date: 12-12-2023

Personnel: D. O'Brien

Water Level Interface Model:

ATEX 213, 3501 ISLETA BLVD., SW, ALBUQUERQUE, NM

Well ID	Depth to Water	Notes
BB-2	11.99	
MW-1R	9.18	
MW-2	12.88	
MW-38	9.10	
MW-4R	10.69	
MW-6RR	11.08	
NMW-1	9.66	
NMW-4R	10.02	
RNMW-2	10.62	
RNMW-3	10.39	

Notes:

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-4R
Site: Atex
Date gauged: 12-6-2023
Time gauged: 0847
Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 10.64 Feet
Height of fluid column: 10.57 Feet
Total depth: 21.26 Feet
Volume in well: 1.79 Gallons
NAPL thickness: — Feet
(3 well volumes = 5.39 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 0849 12.6.2023 Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0849	0.25	19.5	692.1	7.441	-30	1.71
0856	2.5	19.0	697.4	7.104	-33	3.14
0901	5.25	20.5	700.1	7.55	-47	2.36

Actual purge volume: 5.5 gal.
Field measurements stabilized within ± 10%? NO
Time/date sampled: 0901 12.6.23
Purged/sampled by: D OBrien
Sample method: Disposable Bailer
Requested analyses: 8260
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-6 RR
Site: Afex
Depth to PSH: — Feet
Depth to water: 11.08 Feet
Total depth: 19.97 Feet
NAPL thickness: — Feet

Date gauged: 12.6.2023
Time gauged: 0907
Well diameter: 2 Inches
Height of fluid column: 8.89 Feet
Volume in well: 1.51 Gallons

(3 well volumes = 4.5 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 0911 12.6.2023 Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0911	0.25	20.7	751.6	7.59	50	4.77
0915	2	20.8	757.8	7.62	-12	6.32
0919	4.25	21.7	720.0	7.62	-94	5.83

Actual purge volume: 4.5 gal.
Field measurements stabilized within ± 10%? NO

Time/date sampled: 0921 12.6.23
Purged/sampled by: D. OBrien

Sample method: Disposable bailer
Requested analyses: 8260

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	Date gauged	12.6.2023
Site	Atex	Time gauged	0925
Depth to PSH	— Feet	Well diameter	2 Inches
Depth to water	9.18 Feet	Height of fluid column	5.19 Feet
Total depth	14.37 Feet	Volume in well	0.88 Gallons
NAPL thickness	— Feet		

(3 well volumes = 2.64 gallons)

After Bailing NAPL

Depth to PSH	Feet
Depth to water	Feet
NAPL thickness	Feet
NAPL Recovered	Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 0927 12-6-23 Purge Method hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0927	0.75	19.5	738.8	7.74	33	1.51
0932	1.75	20.8	731.3	7.69	21	0.97
0936	2.5	21.5	735.2	7.67	12	0.98

Actual purge volume 2.75 gal. Field measurements stabilized within ± 10%? —

Time/date sampled 0937 12.6.2023 Purged/sampled by D. O'Brien

Sample method Disposable Bailer

Requested analyses 8260

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: NMW-1
Site: Atex
Date gauged: 12.6.2023
Time gauged: 0941
Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 9.66 Feet
Height of fluid column: 5.37 Feet
Total depth: 15.03 Feet
Volume in well: 0.91 Gallons
NAPL thickness: — Feet
(3 well volumes = 2.73 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 0942 12.6.23 Purge Method: Mud Gail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0943	0.25	19.8	1122	7.38	-191	0.68
0947	1.75	22.2	1118	7.06	-228	3.62
0951	2.5	22.2	1135	7.07	-225	3.81

Actual purge volume: 2.75 gal.
Field measurements stabilized within ± 10%? NO
Time/date sampled: 0952
Purged/sampled by: D. OBrien
Sample method: Disposable Bailer
Requested analyses: 8260
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
Date gauged: 12.6.2023
Time gauged: 1004

Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 10.34 Feet
Height of fluid column: 5.59 Feet
Total depth: 15.98 Feet
Volume in well: 0.95 Gallons
NAPL thickness: — Feet
(3 well volumes = 2.85 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 1006 12.6.23 Purge Method: Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1008	0.75	21.5	1056	7.42	-230	1.21
1012	1.5	21.5	1063	7.38	-233	2.81
1018	2.75	22.4	951.2	7.41	-230	2.06

Actual purge volume: 3 gal.
Field measurements stabilized within ± 10%? NO
Time/date sampled: 1019 12.6.23
Purged/sampled by: D. OBrien
Sample method: Disposable Bailer
Requested analyses: 8260
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
Date gauged: 12.6.2023
Time gauged: 1031

Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 10.62 Feet
Height of fluid column: 4.87 Feet
Total depth: 15.49 Feet
Volume in well: 0.82 Gallons
NAPL thickness: — Feet

(3 well volumes = 2.48 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 1033 12.6.23 Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1033	0.25	20.4	828.3	7.53	-118	1.23
1037	1.25	22.3	805.4	7.51	-149	4.25
1040	2.25	22.3	802.1	7.48	-160	4.34

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

Time/date sampled: 1041 12.6.23 Purged/sampled by: D O'Brien

Sample method: Disposable bailer
Requested analyses: 8260
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: NMW-4R
Site: Atex
Date gauged: 12-6-2023
Time gauged: 1104

Depth to PSH: — Feet
Depth to water: 10.02 Feet
Total depth: 19.81 Feet
NAPL thickness: — Feet

Well diameter: 2 Inches
Height of fluid column: 9.79 Feet
Volume in well: 1.66 Gallons
(3 well volumes = 4.99 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 1106 12-6-23 Purge Method: Hand Bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1106	0.25	20.4	412.9	7.74	-4	4.65
1109	2.5	21.1	419.9	7.73	-24	3.44
1114	4.75	21.6	423.0	7.68	-41	2.02

Actual purge volume: 5 gal.
Field measurements stabilized within ± 10%? NO
Time/date sampled: 1115 12-6-23
Purged/sampled by: D. O'Brien
Sample method: Disposable Bailer
Requested analyses: 82 60
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-38
Site: Atex
Date gauged: 12.6.2023
Time gauged: 1118

Depth to PSH: — Feet
Well diameter: 2 Inches
Depth to water: 9.10 Feet
Height of fluid column: 3.06 Feet
Total depth: 12.16 Feet
Volume in well: 0.52 Gallons
NAPL thickness: — Feet
(3 well volumes = 1.56 gallons)

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

GROUNDWATER SAMPLING DATA

Time/date purged: 1120 12.6.23 Purge Method: hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1120	0.25	20.4	823.1	7.67	25	3.48
1124	0.75	20.7	838.3	7.52	-16	1.79
1127	1.5	20.9	835.8	7.50	-27	3.43

Actual purge volume: 1.75 gal.
Field measurements stabilized within ± 10%? NO
Time/date sampled: 1131 12.6.23 Purged/sampled by: D. OBrien
Sample method: Disposable bailer
Requested analyses: 8260
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

Eurofins Environment Testing South Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 20, 2023

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

RE: Atex 213 OrderNo.: 2312346

Dear Vener Mustafin:

Eurofins Environment Testing South Central, LLC received 9 sample(s) on 12/6/2023 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 do not hesitate to contact Eurofins Albuquerque 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
Client Sample ID: MW-4R
Project: Atex 213
Collection Date: 12/6/2023 9:01:00 AM
Lab ID: 2312346-001
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Toluene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Ethylbenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Naphthalene	ND	4.0		µg/L	2	12/15/2023 3:03:00 AM
1-Methylnaphthalene	ND	8.0		µg/L	2	12/15/2023 3:03:00 AM
2-Methylnaphthalene	ND	8.0		µg/L	2	12/15/2023 3:03:00 AM
Acetone	ND	20		µg/L	2	12/15/2023 3:03:00 AM
Bromobenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Bromodichloromethane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Bromoform	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Bromomethane	ND	6.0		µg/L	2	12/15/2023 3:03:00 AM
2-Butanone	ND	20		µg/L	2	12/15/2023 3:03:00 AM
Carbon disulfide	ND	20		µg/L	2	12/15/2023 3:03:00 AM
Carbon Tetrachloride	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Chlorobenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Chloroethane	ND	4.0		µg/L	2	12/15/2023 3:03:00 AM
Chloroform	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Chloromethane	ND	6.0		µg/L	2	12/15/2023 3:03:00 AM
2-Chlorotoluene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
4-Chlorotoluene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
cis-1,2-DCE	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	12/15/2023 3:03:00 AM
Dibromochloromethane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Dibromomethane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Dichlorodifluoromethane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,1-Dichloroethene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
2,2-Dichloropropane	ND	4.0		µg/L	2	12/15/2023 3:03:00 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
Client Sample ID: MW-4R
Project: Atex 213
Collection Date: 12/6/2023 9:01:00 AM
Lab ID: 2312346-001
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
2-Hexanone	ND	20		µg/L	2	12/15/2023 3:03:00 AM
Isopropylbenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
4-Methyl-2-pentanone	ND	20		µg/L	2	12/15/2023 3:03:00 AM
Methylene Chloride	ND	6.0		µg/L	2	12/15/2023 3:03:00 AM
n-Butylbenzene	ND	6.0		µg/L	2	12/15/2023 3:03:00 AM
n-Propylbenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
sec-Butylbenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Styrene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
tert-Butylbenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	12/15/2023 3:03:00 AM
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
trans-1,2-DCE	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Trichloroethene (TCE)	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
1,2,3-Trichloropropane	ND	4.0		µg/L	2	12/15/2023 3:03:00 AM
Vinyl chloride	ND	2.0		µg/L	2	12/15/2023 3:03:00 AM
Xylenes, Total	ND	3.0		µg/L	2	12/15/2023 3:03:00 AM
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%Rec	2	12/15/2023 3:03:00 AM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	2	12/15/2023 3:03:00 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	2	12/15/2023 3:03:00 AM
Surr: Toluene-d8	98.4	70-130		%Rec	2	12/15/2023 3:03:00 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
Client Sample ID: MW-6RR
Project: Atex 213
Collection Date: 12/6/2023 9:21:00 AM
Lab ID: 2312346-002
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Toluene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Ethylbenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Naphthalene	ND	2.0		µg/L	1	12/15/2023 3:27:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 3:27:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 3:27:00 AM
Acetone	ND	10		µg/L	1	12/15/2023 3:27:00 AM
Bromobenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Bromoform	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Bromomethane	ND	3.0		µg/L	1	12/15/2023 3:27:00 AM
2-Butanone	ND	10		µg/L	1	12/15/2023 3:27:00 AM
Carbon disulfide	ND	10		µg/L	1	12/15/2023 3:27:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Chlorobenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Chloroethane	ND	2.0		µg/L	1	12/15/2023 3:27:00 AM
Chloroform	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Chloromethane	ND	3.0		µg/L	1	12/15/2023 3:27:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/15/2023 3:27:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Dibromomethane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/15/2023 3:27:00 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
Client Sample ID: MW-6RR
Project: Atex 213
Collection Date: 12/6/2023 9:21:00 AM
Lab ID: 2312346-002
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
2-Hexanone	ND	10		µg/L	1	12/15/2023 3:27:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/15/2023 3:27:00 AM
Methylene Chloride	ND	3.0		µg/L	1	12/15/2023 3:27:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	12/15/2023 3:27:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Styrene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/15/2023 3:27:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/15/2023 3:27:00 AM
Vinyl chloride	ND	1.0		µg/L	1	12/15/2023 3:27:00 AM
Xylenes, Total	ND	1.5		µg/L	1	12/15/2023 3:27:00 AM
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%Rec	1	12/15/2023 3:27:00 AM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	12/15/2023 3:27:00 AM
Surr: Dibromofluoromethane	99.1	70-130		%Rec	1	12/15/2023 3:27:00 AM
Surr: Toluene-d8	104	70-130		%Rec	1	12/15/2023 3:27:00 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
Client Sample ID: MW-1R
Project: Atex 213
Collection Date: 12/6/2023 9:37:00 AM
Lab ID: 2312346-003
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Toluene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Ethylbenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Methyl tert-butyl ether (MTBE)	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,2,4-Trimethylbenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,3,5-Trimethylbenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,2-Dichloroethane (EDC)	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,2-Dibromoethane (EDB)	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Naphthalene	ND	100	D	µg/L	50	12/15/2023 3:51:00 AM
1-Methylnaphthalene	ND	200	D	µg/L	50	12/15/2023 3:51:00 AM
2-Methylnaphthalene	ND	200	D	µg/L	50	12/15/2023 3:51:00 AM
Acetone	ND	500	D	µg/L	50	12/15/2023 3:51:00 AM
Bromobenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Bromodichloromethane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Bromoform	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Bromomethane	ND	150	D	µg/L	50	12/15/2023 3:51:00 AM
2-Butanone	ND	500	D	µg/L	50	12/15/2023 3:51:00 AM
Carbon disulfide	ND	500	D	µg/L	50	12/15/2023 3:51:00 AM
Carbon Tetrachloride	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Chlorobenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Chloroethane	ND	100	D	µg/L	50	12/15/2023 3:51:00 AM
Chloroform	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Chloromethane	ND	150	D	µg/L	50	12/15/2023 3:51:00 AM
2-Chlorotoluene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
4-Chlorotoluene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
cis-1,2-DCE	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
cis-1,3-Dichloropropene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,2-Dibromo-3-chloropropane	ND	100	D	µg/L	50	12/15/2023 3:51:00 AM
Dibromochloromethane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Dibromomethane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,2-Dichlorobenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,3-Dichlorobenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,4-Dichlorobenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Dichlorodifluoromethane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,1-Dichloroethane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,1-Dichloroethene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,2-Dichloropropane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,3-Dichloropropane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
2,2-Dichloropropane	ND	100	D	µg/L	50	12/15/2023 3:51:00 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
Client Sample ID: MW-1R
Project: Atex 213
Collection Date: 12/6/2023 9:37:00 AM
Lab ID: 2312346-003
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Hexachlorobutadiene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
2-Hexanone	ND	500	D	µg/L	50	12/15/2023 3:51:00 AM
Isopropylbenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
4-Isopropyltoluene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
4-Methyl-2-pentanone	ND	500	D	µg/L	50	12/15/2023 3:51:00 AM
Methylene Chloride	ND	150	D	µg/L	50	12/15/2023 3:51:00 AM
n-Butylbenzene	ND	150	D	µg/L	50	12/15/2023 3:51:00 AM
n-Propylbenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
sec-Butylbenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Styrene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
tert-Butylbenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,1,1,2-Tetrachloroethane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,1,2,2-Tetrachloroethane	ND	100	D	µg/L	50	12/15/2023 3:51:00 AM
Tetrachloroethene (PCE)	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
trans-1,2-DCE	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
trans-1,3-Dichloropropene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,2,3-Trichlorobenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,2,4-Trichlorobenzene	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,1,1-Trichloroethane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,1,2-Trichloroethane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Trichloroethene (TCE)	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Trichlorofluoromethane	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
1,2,3-Trichloropropane	ND	100	D	µg/L	50	12/15/2023 3:51:00 AM
Vinyl chloride	ND	50	D	µg/L	50	12/15/2023 3:51:00 AM
Xylenes, Total	ND	75	D	µg/L	50	12/15/2023 3:51:00 AM
Surr: 1,2-Dichloroethane-d4	100	70-130	D	%Rec	50	12/15/2023 3:51:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	D	%Rec	50	12/15/2023 3:51:00 AM
Surr: Dibromofluoromethane	98.8	70-130	D	%Rec	50	12/15/2023 3:51:00 AM
Surr: Toluene-d8	101	70-130	D	%Rec	50	12/15/2023 3:51:00 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
Client Sample ID: NMW-1
Project: Atex 213
Collection Date: 12/6/2023 9:52:00 AM
Lab ID: 2312346-004
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Toluene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Ethylbenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Naphthalene	ND	4.0		µg/L	2	12/15/2023 4:16:00 AM
1-Methylnaphthalene	ND	8.0		µg/L	2	12/15/2023 4:16:00 AM
2-Methylnaphthalene	ND	8.0		µg/L	2	12/15/2023 4:16:00 AM
Acetone	ND	20		µg/L	2	12/15/2023 4:16:00 AM
Bromobenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Bromodichloromethane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Bromoform	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Bromomethane	ND	6.0		µg/L	2	12/15/2023 4:16:00 AM
2-Butanone	ND	20		µg/L	2	12/15/2023 4:16:00 AM
Carbon disulfide	ND	20		µg/L	2	12/15/2023 4:16:00 AM
Carbon Tetrachloride	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Chlorobenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Chloroethane	ND	4.0		µg/L	2	12/15/2023 4:16:00 AM
Chloroform	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Chloromethane	ND	6.0		µg/L	2	12/15/2023 4:16:00 AM
2-Chlorotoluene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
4-Chlorotoluene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
cis-1,2-DCE	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	12/15/2023 4:16:00 AM
Dibromochloromethane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Dibromomethane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,2-Dichlorobenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,3-Dichlorobenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,4-Dichlorobenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Dichlorodifluoromethane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,1-Dichloroethane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,1-Dichloroethene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,2-Dichloropropane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,3-Dichloropropane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
2,2-Dichloropropane	ND	4.0		µg/L	2	12/15/2023 4:16:00 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
Client Sample ID: NMW-1
Project: Atex 213
Collection Date: 12/6/2023 9:52:00 AM
Lab ID: 2312346-004
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Hexachlorobutadiene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
2-Hexanone	ND	20		µg/L	2	12/15/2023 4:16:00 AM
Isopropylbenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
4-Isopropyltoluene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
4-Methyl-2-pentanone	ND	20		µg/L	2	12/15/2023 4:16:00 AM
Methylene Chloride	ND	6.0		µg/L	2	12/15/2023 4:16:00 AM
n-Butylbenzene	ND	6.0		µg/L	2	12/15/2023 4:16:00 AM
n-Propylbenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
sec-Butylbenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Styrene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
tert-Butylbenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	12/15/2023 4:16:00 AM
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
trans-1,2-DCE	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,1,1-Trichloroethane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,1,2-Trichloroethane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Trichloroethene (TCE)	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Trichlorofluoromethane	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
1,2,3-Trichloropropane	ND	4.0		µg/L	2	12/15/2023 4:16:00 AM
Vinyl chloride	ND	2.0		µg/L	2	12/15/2023 4:16:00 AM
Xylenes, Total	ND	3.0		µg/L	2	12/15/2023 4:16:00 AM
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	2	12/15/2023 4:16:00 AM
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	2	12/15/2023 4:16:00 AM
Surr: Dibromofluoromethane	99.8	70-130		%Rec	2	12/15/2023 4:16:00 AM
Surr: Toluene-d8	99.7	70-130		%Rec	2	12/15/2023 4:16:00 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
Client Sample ID: RNMW-3
Project: Atex 213
Collection Date: 12/6/2023 10:19:00 AM
Lab ID: 2312346-005
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Toluene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Ethylbenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Methyl tert-butyl ether (MTBE)	10	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Naphthalene	5.0	2.0		µg/L	1	12/15/2023 4:40:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 4:40:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 4:40:00 AM
Acetone	ND	10		µg/L	1	12/15/2023 4:40:00 AM
Bromobenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Bromoform	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Bromomethane	ND	3.0		µg/L	1	12/15/2023 4:40:00 AM
2-Butanone	ND	10		µg/L	1	12/15/2023 4:40:00 AM
Carbon disulfide	ND	10		µg/L	1	12/15/2023 4:40:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Chlorobenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Chloroethane	ND	2.0		µg/L	1	12/15/2023 4:40:00 AM
Chloroform	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Chloromethane	ND	3.0		µg/L	1	12/15/2023 4:40:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/15/2023 4:40:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Dibromomethane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/15/2023 4:40:00 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
Client Sample ID: RNMW-3
Project: Atex 213
Collection Date: 12/6/2023 10:19:00 AM
Lab ID: 2312346-005
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
2-Hexanone	ND	10		µg/L	1	12/15/2023 4:40:00 AM
Isopropylbenzene	4.3	1.0		µg/L	1	12/15/2023 4:40:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/15/2023 4:40:00 AM
Methylene Chloride	ND	3.0		µg/L	1	12/15/2023 4:40:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	12/15/2023 4:40:00 AM
n-Propylbenzene	7.4	1.0		µg/L	1	12/15/2023 4:40:00 AM
sec-Butylbenzene	2.0	1.0		µg/L	1	12/15/2023 4:40:00 AM
Styrene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/15/2023 4:40:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/15/2023 4:40:00 AM
Vinyl chloride	ND	1.0		µg/L	1	12/15/2023 4:40:00 AM
Xylenes, Total	ND	1.5		µg/L	1	12/15/2023 4:40:00 AM
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%Rec	1	12/15/2023 4:40:00 AM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/15/2023 4:40:00 AM
Surr: Dibromofluoromethane	97.4	70-130		%Rec	1	12/15/2023 4:40:00 AM
Surr: Toluene-d8	102	70-130		%Rec	1	12/15/2023 4:40:00 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
Client Sample ID: RNMW-2
Project: Atex 213
Collection Date: 12/6/2023 10:41:00 AM
Lab ID: 2312346-006
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Toluene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Ethylbenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Methyl tert-butyl ether (MTBE)	6.7	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Naphthalene	ND	2.0		µg/L	1	12/15/2023 5:05:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 5:05:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 5:05:00 AM
Acetone	ND	10		µg/L	1	12/15/2023 5:05:00 AM
Bromobenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Bromoform	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Bromomethane	ND	3.0		µg/L	1	12/15/2023 5:05:00 AM
2-Butanone	ND	10		µg/L	1	12/15/2023 5:05:00 AM
Carbon disulfide	ND	10		µg/L	1	12/15/2023 5:05:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Chlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Chloroethane	ND	2.0		µg/L	1	12/15/2023 5:05:00 AM
Chloroform	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Chloromethane	ND	3.0		µg/L	1	12/15/2023 5:05:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/15/2023 5:05:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Dibromomethane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/15/2023 5:05:00 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
Client Sample ID: RNMW-2
Project: Atex 213
Collection Date: 12/6/2023 10:41:00 AM
Lab ID: 2312346-006
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
2-Hexanone	ND	10		µg/L	1	12/15/2023 5:05:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/15/2023 5:05:00 AM
Methylene Chloride	ND	3.0		µg/L	1	12/15/2023 5:05:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	12/15/2023 5:05:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Styrene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/15/2023 5:05:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/15/2023 5:05:00 AM
Vinyl chloride	ND	1.0		µg/L	1	12/15/2023 5:05:00 AM
Xylenes, Total	ND	1.5		µg/L	1	12/15/2023 5:05:00 AM
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	12/15/2023 5:05:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	12/15/2023 5:05:00 AM
Surr: Dibromofluoromethane	97.3	70-130		%Rec	1	12/15/2023 5:05:00 AM
Surr: Toluene-d8	101	70-130		%Rec	1	12/15/2023 5:05:00 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
Client Sample ID: NMW-4R
Project: Atex 213
Collection Date: 12/6/2023 11:15:00 AM
Lab ID: 2312346-007
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Toluene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Ethylbenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Naphthalene	ND	2.0		µg/L	1	12/15/2023 5:29:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 5:29:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 5:29:00 AM
Acetone	ND	10		µg/L	1	12/15/2023 5:29:00 AM
Bromobenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Bromoform	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Bromomethane	ND	3.0		µg/L	1	12/15/2023 5:29:00 AM
2-Butanone	ND	10		µg/L	1	12/15/2023 5:29:00 AM
Carbon disulfide	ND	10		µg/L	1	12/15/2023 5:29:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Chlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Chloroethane	ND	2.0		µg/L	1	12/15/2023 5:29:00 AM
Chloroform	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Chloromethane	ND	3.0		µg/L	1	12/15/2023 5:29:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/15/2023 5:29:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Dibromomethane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/15/2023 5:29:00 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
Client Sample ID: NMW-4R
Project: Atex 213
Collection Date: 12/6/2023 11:15:00 AM
Lab ID: 2312346-007
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
2-Hexanone	ND	10		µg/L	1	12/15/2023 5:29:00 AM
Isopropylbenzene	1.6	1.0		µg/L	1	12/15/2023 5:29:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/15/2023 5:29:00 AM
Methylene Chloride	ND	3.0		µg/L	1	12/15/2023 5:29:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	12/15/2023 5:29:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Styrene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/15/2023 5:29:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/15/2023 5:29:00 AM
Vinyl chloride	ND	1.0		µg/L	1	12/15/2023 5:29:00 AM
Xylenes, Total	ND	1.5		µg/L	1	12/15/2023 5:29:00 AM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	12/15/2023 5:29:00 AM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/15/2023 5:29:00 AM
Surr: Dibromofluoromethane	102	70-130		%Rec	1	12/15/2023 5:29:00 AM
Surr: Toluene-d8	94.4	70-130		%Rec	1	12/15/2023 5:29:00 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
Client Sample ID: MW-38
Project: Atex 213
Collection Date: 12/6/2023 11:31:00 AM
Lab ID: 2312346-008
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Toluene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Ethylbenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Naphthalene	ND	2.0		µg/L	1	12/15/2023 5:54:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 5:54:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 5:54:00 AM
Acetone	ND	10		µg/L	1	12/15/2023 5:54:00 AM
Bromobenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Bromoform	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Bromomethane	ND	3.0		µg/L	1	12/15/2023 5:54:00 AM
2-Butanone	ND	10		µg/L	1	12/15/2023 5:54:00 AM
Carbon disulfide	ND	10		µg/L	1	12/15/2023 5:54:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Chlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Chloroethane	ND	2.0		µg/L	1	12/15/2023 5:54:00 AM
Chloroform	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Chloromethane	ND	3.0		µg/L	1	12/15/2023 5:54:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/15/2023 5:54:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Dibromomethane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/15/2023 5:54:00 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
Client Sample ID: MW-38
Project: Atex 213
Collection Date: 12/6/2023 11:31:00 AM
Lab ID: 2312346-008
Matrix: GROUNDWA
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
2-Hexanone	ND	10		µg/L	1	12/15/2023 5:54:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/15/2023 5:54:00 AM
Methylene Chloride	ND	3.0		µg/L	1	12/15/2023 5:54:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	12/15/2023 5:54:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Styrene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/15/2023 5:54:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/15/2023 5:54:00 AM
Vinyl chloride	ND	1.0		µg/L	1	12/15/2023 5:54:00 AM
Xylenes, Total	ND	1.5		µg/L	1	12/15/2023 5:54:00 AM
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%Rec	1	12/15/2023 5:54:00 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/15/2023 5:54:00 AM
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	12/15/2023 5:54:00 AM
Surr: Toluene-d8	97.7	70-130		%Rec	1	12/15/2023 5:54:00 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
Client Sample ID: Trip Blank
Project: Atex 213
Collection Date:
Lab ID: 2312346-009
Matrix: TRIP BLANK
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
Benzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Toluene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Ethylbenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Naphthalene	ND	2.0		µg/L	1	12/15/2023 6:18:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 6:18:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/15/2023 6:18:00 AM
Acetone	ND	10		µg/L	1	12/15/2023 6:18:00 AM
Bromobenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Bromoform	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Bromomethane	ND	3.0		µg/L	1	12/15/2023 6:18:00 AM
2-Butanone	ND	10		µg/L	1	12/15/2023 6:18:00 AM
Carbon disulfide	ND	10		µg/L	1	12/15/2023 6:18:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Chlorobenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Chloroethane	ND	2.0		µg/L	1	12/15/2023 6:18:00 AM
Chloroform	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Chloromethane	ND	3.0		µg/L	1	12/15/2023 6:18:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/15/2023 6:18:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Dibromomethane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/15/2023 6:18:00 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
Client Sample ID: Trip Blank
Project: Atex 213
Collection Date:
Lab ID: 2312346-009
Matrix: TRIP BLANK
Received Date: 12/6/2023 1:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **CCM**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
2-Hexanone	ND	10		µg/L	1	12/15/2023 6:18:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/15/2023 6:18:00 AM
Methylene Chloride	ND	3.0		µg/L	1	12/15/2023 6:18:00 AM
n-Butylbenzene	ND	3.0		µg/L	1	12/15/2023 6:18:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Styrene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/15/2023 6:18:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/15/2023 6:18:00 AM
Vinyl chloride	ND	1.0		µg/L	1	12/15/2023 6:18:00 AM
Xylenes, Total	ND	1.5		µg/L	1	12/15/2023 6:18:00 AM
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%Rec	1	12/15/2023 6:18:00 AM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/15/2023 6:18:00 AM
Surr: Dibromofluoromethane	102	70-130		%Rec	1	12/15/2023 6:18:00 AM
Surr: Toluene-d8	103	70-130		%Rec	1	12/15/2023 6:18:00 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#: **2312346**

20-Dec-23

Client: EA Engineering

Project: Atex 213

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **B101831**	RunNo: **101831**
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3755982** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	70	130			
Toluene	19	1.0	20.00	0	95.7	70	130			
Chlorobenzene	19	1.0	20.00	0	95.2	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	95.9	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	91.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.7	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.3	70	130			
Surr: Toluene-d8	9.9		10.00		98.5	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B101831**	RunNo: **101831**
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3755983** Units: **µg/L**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of 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#: **2312346**

20-Dec-23

Client: EA Engineering

Project: Atex 213

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B101831**	RunNo: **101831**
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3755983** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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#: **2312346**

20-Dec-23

Client: EA Engineering

Project: Atex 213

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **B101831**	RunNo: **101831**
Prep Date:	Analysis Date: **12/15/2023**	SeqNo: **3755983** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.8	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		115	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.7	70	130			
Surr: Toluene-d8	9.9		10.00		98.5	70	130			

Qualifiers:

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

eurofins | Environment Testing

Eurofins Environment Testing South Central, LLC
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: 2312346 RcptNo: 1

Received By: Tracy Casarrubias 12/6/2023 1:05:00 PM

Completed By: Desiree Dominguez 12/6/2023 3:44:07 PM

Reviewed By: 7m 12/7/23

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: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: 7m 12/07/23

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	17.1	Good	Not Present	Morty		

Chain-of-Custody Record

Client: E & Engineering

Mailing Address: 320 Gold 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: AEX 213

Project #:

Project Manager: Vener Mustafin

Sampler: D. OBrien

On Ice: ☒ Yes ☐ No mocky

# of Coolers: 1

Cooler Temp(including CF): 17.1 - 0 = 17.1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
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. 2312346	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)
12.6.23	0901	GW	MW-4R	VOA 3	HCl/2	-001								X		
	0921		MW-6RR			-002								X		
	0937		MW-1R			-003								X		
	0952		NMW-1			-004								X		
	1019		RNMW-3			-005								X		
	1041		RNMW-2			-006								X		
	1115		NMW-4R			-007								X		
	1131		MW-38			-008								X		
			Trip Blank	PAD 12.6.23		-009										

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via: CDO	Date	Time
12623	1309	Daniel OBrien			12/6/23	13:05
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.