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**Baseline Parameter
Ground Water Monitoring Report
May 2021**

**Leonard's Conoco
603 Parker Avenue
Santa Rosa, New Mexico 88435
Facility # 29084 Release ID #: 755**

Job No. 3288JV031



**Western
Technologies
Inc.**

The Quality People
Since 1955

ALBUQUERQUE – NEW MEXICO

8305 Washington Place N.E.
Albuquerque, New Mexico 87113-1670
(505) 823-4488 • fax 821-2963

Prepared For:

**New Mexico Environment Department
Petroleum Storage Tank Bureau
District 2 Office
2905 Rodeo Park Drive East, Bldg. 1
Santa Fe, New Mexico 87505**

May 26, 2021

David C. Wagner, P.G.
Senior Environmental Scientist

Jeff Boyd, P.E.
Senior Geotechnical Engineer



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May 26, 2021

New Mexico Environment Department
Petroleum Storage Tank Bureau
District 2 Office
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505

Attn: Tim Noger

Re: Baseline Parameter Ground Water Monitoring Report (May 2021) Job No. 3288JV031
Leonard's Conoco
603 Parker Avenue
Santa Rosa, New Mexico 88435

Facility #: 29084

Release ID #: 755

WPID #: 4168-1

Western Technologies (WT) is pleased to present this Baseline Parameter Ground Water Monitoring Report for the referenced State Lead site. The original tasks were detailed in a WT workplan dated July 16, 2020. The NMED PSTB approval letter was dated March 31, 2021.

Should you have any questions or comments, please call.

Sincerely,
WESTERN TECHNOLOGIES INC.
Senior Environmental Services

A handwritten signature in black ink that reads "David C. Wagner". The signature is written in a cursive, flowing style.

David C. Wagner, P. G.
Environmental Scientist

Copies to: Addressee (1)

Baseline Parameter Ground Water Monitoring (May 2021)
Leonard's Conoco, 603 Parker Avenue, Santa Rosa, New Mexico 88435
Facility # 29084 Release ID #: 755
Job No. 3288JV031

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**COVER PAGE
FORM 1216
GROUND WATER MONITORING**

Please include the following information:

1. **Site name:** Leonard's Conoco
2. **Responsible party:** State Lead Site
3. **Responsible party mailing address** (list contact person if different):
Petroleum Storage Tank Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, NM 85405
4. **Facility number:** 29084
5. **Address/legal description:**
603 Parker Avenue, Santa Rosa, New Mexico 88435
6. **Author/consulting company:** David C. Wagner/Western Technologies Inc.
7. **Date of report:** May 26, 2021
8. **Date of confirmation of release or date PSTB was notified of the release:** June 1991

STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature: David C. Wagner

Name: David C. Wagner, P.G.

Affiliation: Western Technologies Inc.

Title: Environmental Scientist

Certified Scientist #: Not Applicable

Date: May 26, 2021



I. INTRODUCTION:

A. Scope of work: WPID #: 4168-1

The following tasks were detailed in a Western Technologies (WT) workplan dated July 16, 2020. The NMED PSTB approval letter was dated March 31, 2021. Western Technologies (WT) collected ground water samples from all ground water monitor wells (MW-1A, MW-2A, and MW-3) specified in the workplan during this monitoring event. This report completes the scope of work for WPID #: 4168-1.

Figures are presented in Appendix A. Tables are presented in Appendix B. The laboratory analytical report is presented in Appendix C. Appendix D presents relevant charts. Field notes are presented in Appendix E.

WT began ground water monitoring at the Site in April 2019. The location of the Leonard's Conoco (Site) is illustrated on Figure 1, Site Location Map. The Site is currently occupied by Santa Rosa Magistrate Court with the address of:

Santa Rosa Magistrate Court
1633 Route 66 Santa Rosa, NM 88435
Telephone: (575) 472-3237

Note that Google Maps and Google Earth also indicated the site has an address of 1633 Route 66 Santa Rosa, NM 88435. The 603 Parker Avenue address on NMED PSTB correspondence and was located approximately 500 feet to the east on both Google Maps and Google Earth.

The site was along the north side of the westbound I-40 Business Loop. Adjacent to the north was the Union Pacific Railroad Company Automobile Distribution Center. Adjacent to the east was the Mi Casa Laundromat, which was formerly a gas station. A vacant graveled lot was adjacent to the west.

History

Daniel B. Stephens & Associates, Inc. (DBS&A) performed ground water from June 2016 through December 2017. The previous DBS&A monitoring report was dated March 12, 2018¹ (2018 DBS&A Report) and summarized the history of the Site.

"A confirmed petroleum release was documented during the removal of three 4,000-gallon underground storage tanks (USTs) and one 560-gallon waste oil UST in June 1991. Monteverde, Inc. performed a minimum site assessment (MSA) in 1995, during which four monitor wells (MW-1, MW-2, MW-3, and MW-4) were installed.

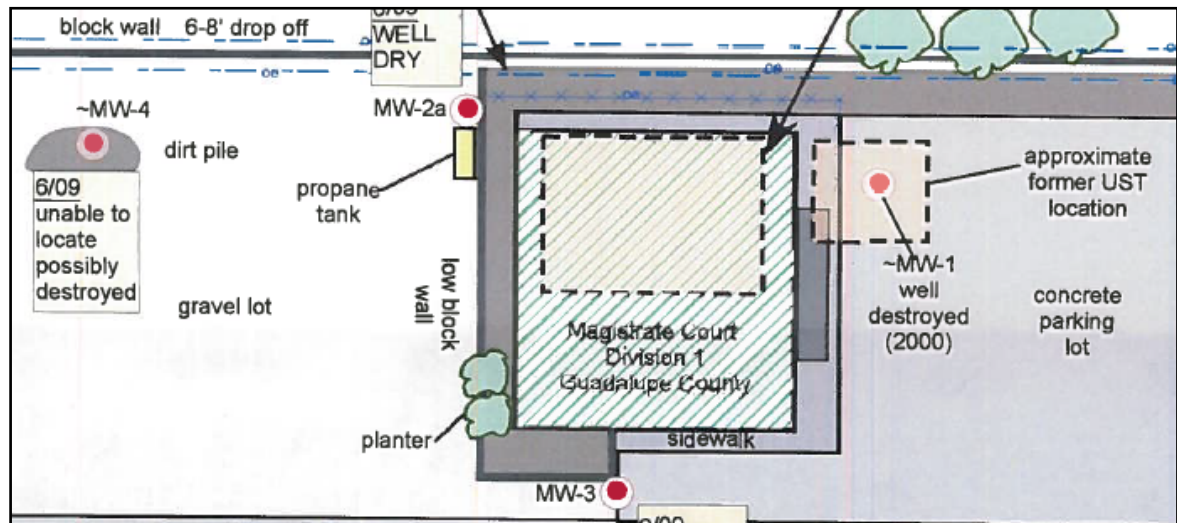
¹ Annual Groundwater Monitoring and MW-3 Well Surface Completion Replacement Report Leonard's Conoco, 603 Parker Avenue, Santa Rosa, New Mexico Facility #29084, Release ID #755, WPID #3929 Avenue, Santa Rosa, New Mexico Facility #29084, Release ID #755, WPID #3929, Daniel B. Stephens & Associates, Inc., March 12, 2018.



Innovative Explorations (INEX) performed groundwater monitoring at the site from 1997 through 2001. In 2000, the former Leonard's Conoco building was demolished and the current building was constructed. Monitor well MW-2 was destroyed during construction, and a replacement well, MW-2A, was installed by INEX."

"In June 2009, Tecumseh Professional Associates, Inc. (TPA) performed a groundwater monitoring event at the site. TPA located monitor wells MW-2A and MW-3, but could not locate monitor wells MW-1 and MW-4. Of the two wells located, only MW-3 was sampled because well MW-2A was dry."

The June 2009, TPA map below indicates the footprint of the former Leonard's Conoco Building and the former UST location. We believe that MW-3 is in the vicinity of a former dispenser island. Note the "6-8' drop off" north of the block wall. The complete 2009 TPA map is presented at the end of Appendix A.



According to the 2018 DBS&A Report, *"In October 2013, Haller & Associates, Inc. (HAI) performed groundwater monitoring at the site. HAI located monitor well MW-1, but was unsuccessful in locating MW-4 with a metal detector. HAI indicated that monitor well MW-4 appeared to have been destroyed."*

"In March 2014, HAI plugged and abandoned monitor well MW-1 and performed groundwater monitoring at the site. Monitor wells MW-1A, MW-2A, and MW-3 were located and gauged." The MW-1A boring log is presented in Appendix E.

DBSA completed well surface completion replacement for MW-3 and conducted groundwater monitoring at the site in December 2017. The three existing monitor wells: MW-1A, MW-2A, and MW-3, were also resurveyed on January 18, 2018, by Surveying Control, Inc.



B. Monitoring Event Highlights:

Benzene concentrations in MW-1A exceeded the regulatory limit of 5.0 $\mu\text{g/L}$. Total naphthalene concentrations in MW-1A exceeded the regulatory limit of 30 $\mu\text{g/L}$. All other EPA Method 8260B list compounds detected were below applicable NMWQCC regulatory limits in MW-1A.

This was the first monitoring event to evaluate the baseline parameters of nitrate, nitrite, Total Kjeldhal Nitrogen (TKN), Total Petroleum Hydrocarbons (TPH), Total Dissolved Solids (TDS), and Chemical Oxygen Demand (COD). This was also the first monitoring event to evaluate ethylene dibromide (EDB) by EPA Method 504.1.

All results were below the applicable NMWQCC limits of 10.0 mg/L for nitrate and 1.0 mg/L for nitrite. Total Kjeldahl Nitrogen (TKN) results were < 2.0 mg/L. There is no NMWQCC regulatory limit for TKN.

The TDS results from MW-1A, MW-2A, and MW-3 exceeded the NMWQCC regulatory limit of 1,000 mg/L (NMAC 20.6.2.3103.B. Other Standards for Domestic Water Supply). WT believes that the average TDS of 3,000 may be normal background because no petroleum contamination was ever detected in MW-2A or MW-3.

The MW-3A COD result of 1,290 mg/L exceeded the NMWQCC regulatory limit of 125 mg/L (NMAC 20.6.2.2101.A. General Requirements). All EDB results were below the laboratory reporting limits. With the exception of 0.99 GRO in MW-1A, all TPH results were below the laboratory reporting limits.

II. ACTIVITIES PERFORMED DURING THIS MONITORING EVENT:**A. Brief description of remediation system and date installed.**

No operating remediation system was present at the site.

B. Description of activities performed to keep system operating properly including: inspections, maintenance procedures and modifications, if any.

Not applicable.

C. Monitoring activities performed.

WT collected ground water samples from monitor wells MW-1A, MW-2A, and MW-3 during this monitoring event (see Figure 2, Site Plan and Ground Water Contour Map). Current and historical data is presented in Table 1, Ground Water Elevation Data. Figure 2 includes significant site features including the location of the three former USTs removed in 1993.



Before collecting ground water samples from the monitor wells, the water levels in the monitor wells were measured with a Heron™ interface probe (IP). The IP was also used to measure free product, if any. The IP was decontaminated with an Alconox solution, then rinsed with tap water, and finally rinsed with deionized water before and after each water level measurement.

A minimum of three well volumes were removed from each well before collecting a ground water sample (see Table 2, Ground Water Field Data). The well purging was conducted with a Geotech Peristaltic Pump and disposable tubing.

During purging activities, ground water parameters of temperature, dissolved oxygen, pH, Oxidation-Reduction Potential (ORP/Eh), and specific conductivity were measured and recorded using an YSI Professional Plus™ multiparameter water quality probe. Before and after obtaining ground water parameters from each well, the multiparameter water quality probe was decontaminated with an Alconox solution, then rinsed with tap water, and finally rinsed with deionized water.

Measurements were digitally recorded as specific volumes of ground water removed from each well. Selected digitally recorded parameters are indicated on Table 2. Note that Table 2 digitally recorded parameters do not exactly match hand written parameters in the Field Notes because the parameters vary slightly from second to second whereas digital parameters are recorded at the beginning of a specific one-second time. The negative ORP/Eh values in MW-1A indicated petroleum contamination impacted the ground water.

Low-flow, minimal drawdown techniques were employed and the drawdown was limited to less than 0.33 feet. Ground water parameter stabilization was confirmed by assessing the last two intervals were within 10% of each other, for temperature, pH, and conductivity. WT obtained one field measurement of turbidity from each well using a Geotech® Portable Turbidity Meter at the end of purging (see Table 2).

All of the ground water samples collected were analyzed for:

- EPA Method 8260B Extended analysis for Volatile Organic Compounds (which includes 1-methylnaphthalene and 2-methylnaphthalene). Each EPA Method 8260B sample was placed into laboratory-supplied, 40-milliliter volatile organic analysis (VOAs) vials with Teflon® septums, with mercuric chloride preservative.
- EPA Method 504.1 for ethylene dibromide (EDB): Each EPA Method 8260B sample was placed into laboratory-supplied, 40-milliliter VOAs with sodium thiosulfate preservative.
- EPA 8015B for Total Petroleum Hydrocarbons (TPH): The EPA Method 8015B GRO laboratory analyses used ground water from the EPA Method 8260B VOAs. Each sample for EPA Method 8015B analyses of DRO and MRO were placed into unpreserved, 250-milliliter, amber, glass containers.



- SM 2540C for Total Dissolved Solids (TDS): Each SM 2540C sample was placed into laboratory-supplied 500-milliliter high-density polyethylene (HDPE) containers with no preservative.
- EPA Method 410.4 for Chemical Oxygen Demand (COD): Each EPA Method 410.4 sample was placed into laboratory-supplied 500-milliliter HDPE containers with no preservative.
- EPA Method 300 for Nitrite/Nitrate: Each EPA Method 300 sample was placed into laboratory-supplied 500-milliliter HDPE containers with no preservative.
- SM 4500 Norg C for Total Kjeldhal Nitrogen (TKN): All samples for SM 4500 Norg C analyses was placed into two laboratory-supplied, 500-ml, HDPE containers, one unpreserved and one preserved with sulfuric acid.

Each ground water sample container label mirrored the information on the COC. All laboratory samples were analyzed by Hall Environmental Analysis Laboratory, Inc. in Albuquerque, New Mexico (See Appendix C).

Ground Water Data

The depths to ground water ranged from 13.54 feet below top of casing (MW-2A) to 15.07 feet below top of casing (MW-1A) during this monitoring event (see Table 1, Ground Water Elevation Data). Ground water elevations ranged from 4599.99 feet (MW-2A) to 4601.77 feet (MW-3). The average ground water elevations decreased 0.25 feet since the previous ground water monitoring event of April 2019. The 0.016 ft/ft ground water gradient observed during this ground water monitoring event was generally to the northwest (see Figure 2, Site Plan and Ground Water Contour Map).

Laboratory Analytical Results

Based on the results of the EPA Method 8260B laboratory analysis, the results from MW-2A and MW-3 were below all applicable laboratory Reporting Limits (RL). (see Table 3, Summary of Water Sample Analytical Test Results).

Benzene concentration of 120 $\mu\text{g/L}$ in MW-1A exceeded the NMWQCC regulatory limit of 5.0 $\mu\text{g/L}$. The total naphthalenes concentrations of 30 $\mu\text{g/L}$ in MW-1A exceeded the NMWQCC regulatory limit of 30 $\mu\text{g/L}$. Benzene and total naphthalenes contours are presented on Figure 3, Dissolved Petroleum Hydrocarbon Concentration Map. Other EPA Method 8260B compounds were detected in MW-1A but were all below applicable NMWQCC regulatory limits (see Table 4, Current Water Sample Analytical Test Results: Volatile Organic Analysis by EPA Method 8260B).

Chart for MW-1A

WT prepared a Chart for contaminants of concern in MW-1A above NMWQCC regulatory limits (See Appendix D). The X-axis is linear time. The contaminant of concern values ($\mu\text{g/L}$) are plotted against the left-hand logarithmic Y-axis. Linear ground water elevations are plotted against the right-hand Y-axis.



Chart 1, MW-1A Benzene and Naphthalene Concentrations (logarithmic) versus Ground Water Elevations: January 1995 to Date, illustrates benzene and naphthalene concentrations over time. Analyses for total naphthalenes began in 2013. There was no obvious relation between ground water elevation and either benzene or total naphthalenes concentrations.

The EPA Method 8015D results for TPH are presented on Table 5: Summary of Water Sample Analytical Test Results, Total Petroleum Hydrocarbons by EPA Method 8015D. MW-1A GRO was 0.99 mg/L. The MW-1A DRO and MRO were below RLs. Laboratory results for MW-2A and MW-3A were below RLs for GRO, DRO, and MRO.

Table 6 presents the Summary of Water Sample Analytical Test Results: Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Solids, and Chemical Oxygen Demand. All results were below the applicable NMWQCC limits of 10.0 mg/L for nitrate and 1.0 mg/L for nitrite. Total Kjeldahl Nitrogen (TKN) results were below the respective RLs. There is no NMWQCC regulatory limit for TKN.

The TDS results ranged from 2,780 mg/L (MW-2A) and 3,240 mg/L (MW-3A). The TDS results from MW-1A, MW-2A, and MW-3 exceeded the NMWQCC regulatory limit of 1,000 mg/L (NMAC 20.6.2.3103.B. Other Standards for Domestic Water Supply). The average TDS of 3,000 may be normal background.

The COD results were 27.8 mg/L (MW-1A), <20.0 mg/L (MW-2A) and 1,290 mg/L (MW-3A). The MW-3A COD result of 1,290 mg/L exceeded the NMWQCC regulatory limit of 125 mg/L (NMAC 20.6.2.2101.A. General Requirements).

D. System performance and effectiveness

Not applicable.

E. Statement verifying containment of release.

The Leonard's Conoco contamination plume was only defined to the southwest and south. The contamination plume was undefined in all other directions.

III. SUMMARY AND CONCLUSIONS:

A. Discussion of any trends or changes noted in analytical results or site conditions.

Benzene concentrations in MW-1A exceeded the NMWQCC regulatory limit of 5.0 $\mu\text{g/L}$. The total naphthalenes concentrations in MW-1A exceeded the NMWQCC regulatory limit of 30 $\mu\text{g/L}$. Other EPA Method 8260B compounds were detected in MW-1A but were all below applicable NMWQCC regulatory limits.



B. Ongoing assessment of remediation system.

Not applicable.

C. Recommendations.

WT recommends the following:

- Annual or semi-annual ground water monitoring.
- A Continued Minimum Site Assessment including the installation of three monitor wells as indicated on Figure 3. The most important proposed monitor well, MW A is downgradient of the former USTs. However, MW A is offsite on Union Pacific Railroad land, which may preclude access.
- Continued EPA Method 504.1 ground water analysis because available historical data indicates only the May 5, 2021 water samples were analyzed for EDB.
- EPA Method 6010C ground water analysis because available historical data indicates that no ground water samples were ever analyzed for the dissolved metals: lead, manganese, and iron.



APPENDIX A

Figures





Adapted from Google Earth Aerial Photograph: October 9, 2017

Santa Rosa USGS 7.5 Minute Quadrangle
 Section 2, Township 8 North, Range 21 East



Leonard's Conoco: 603 Parker Avenue, Santa Rosa, New Mexico 88435
 NMED PSTB Facility # 29084: Release ID # 755

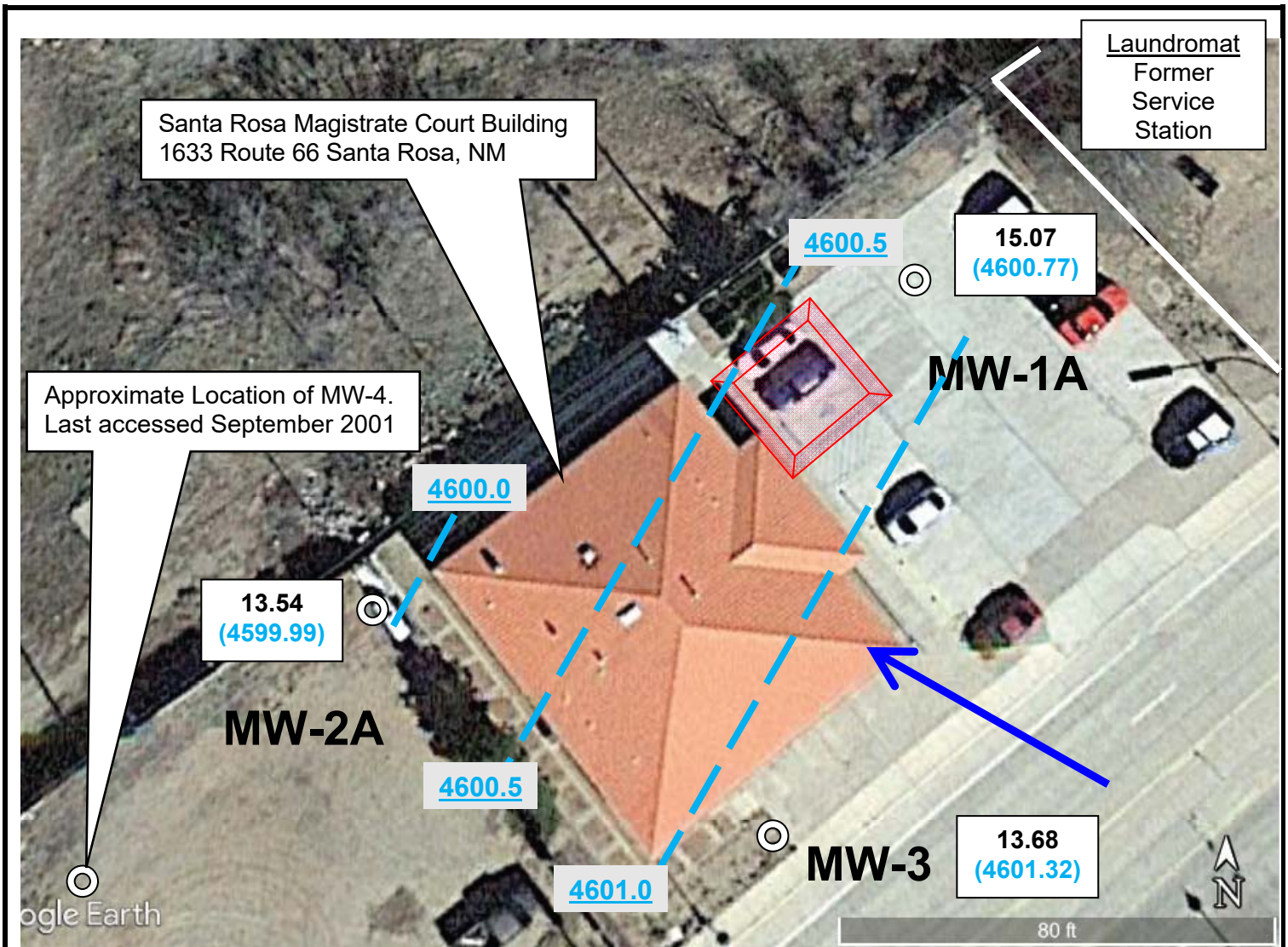
Site Location Map

WESTERN TECHNOLOGIES INC.

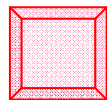
Job No.: 3288JV032

Figure 1





Adapted from Google Earth Aerial Photograph: October 9, 2017



Former USTs: Location is Approximate



Monitor Wells: Locations are Approximate

14.80
(4601.04)

Depth to Ground Water (Black)

Ground water Elevation (Blue)

4600.1 = Contour

Gradient = 0.016 ft/ft

0 30 60 1 Inch = 30 Feet



Leonard's Conoco: 603 Parker Avenue, Santa Rosa, New Mexico 88435
NMED PSTB Facility # 29084: Release ID # 755

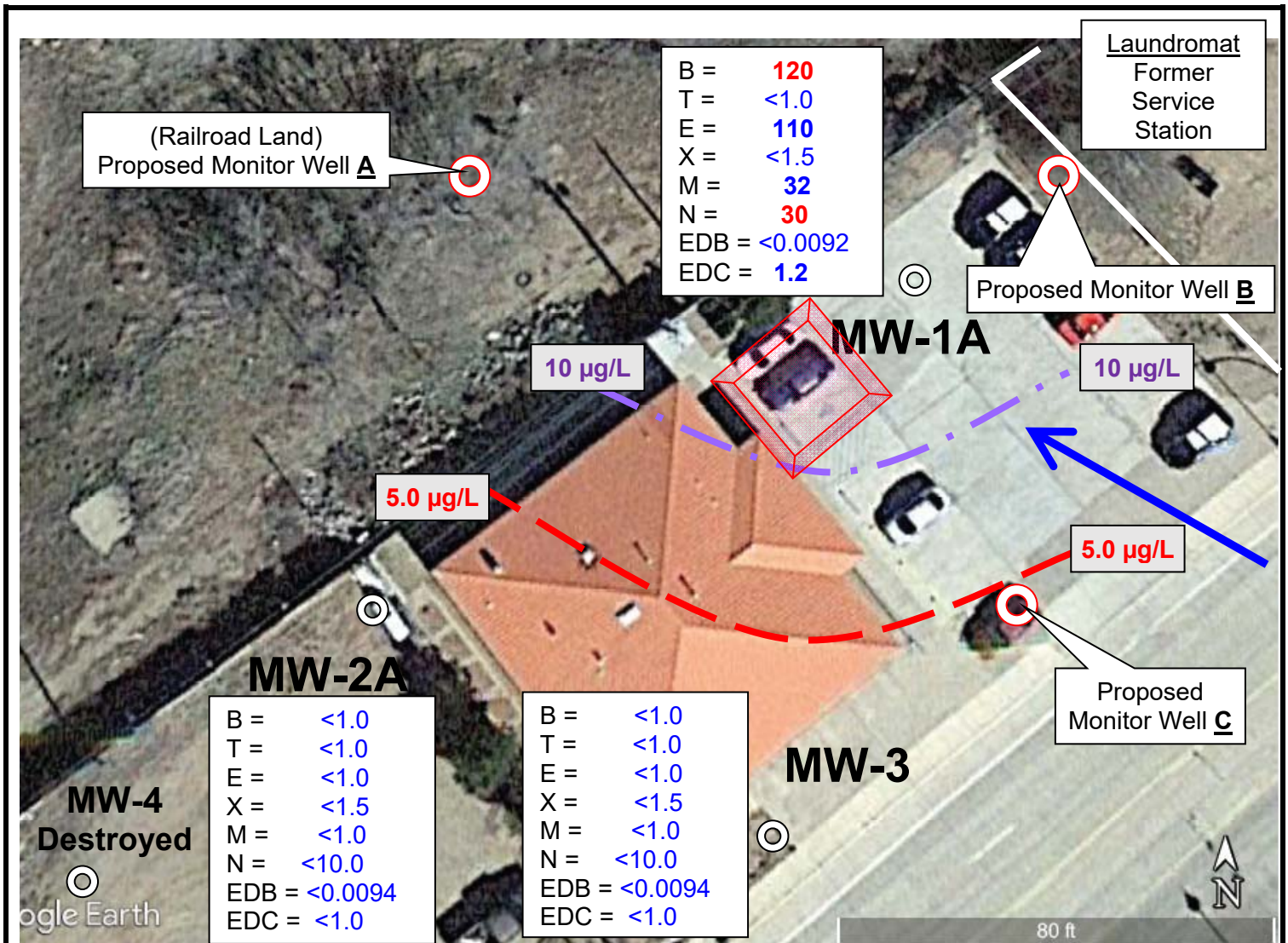
Site Plan and Ground Water Contour Map: : May 5, 2021

WESTERN TECHNOLOGIES INC.

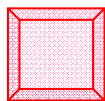
Job No.: 3288JV032

Figure 2





B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylene
 M = Methyl-tert-butyl ether (MTBE)
 EDB = 1,2-Dibromoethane
 EDC = 1,2-Dichloroethane
 N = Total Naphthalenes



Former USTs: Location is Approximate



Monitor Wells: Proposed Monitor Well

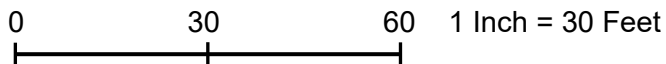
5.0 µg/L Benzene Contour

30 µg/L Total Naphthalenes Contour

Values in **Red** ≥ NMWQCC regulatory limits

Values in **Blue** < NMWQCC regulatory limits

Gradient = 0.016 ft/ft



Leonard's Conoco: 603 Parker Avenue, Santa Rosa, New Mexico 88435
 NMED PSTB Facility # 29084: Release ID # 755

Dissolved Petroleum Hydrocarbon Concentration Map: May 5, 2021

WESTERN TECHNOLOGIES INC.

Job No.: 3288JV032

Figure 3



APPENDIX B

Tables



Leonard's Conoco
 1633 Historic Route 66
 Santa Rosa, New Mexico 88435
 PSTB Facility # 29084: Release ID #755

WESTERN TECHNOLOGIES INC.

**TABLE 1
 Ground Water Elevation Data**

Monitor Well ID	Date	Casing Rim Elevation* (Feet)	Depth to Bottom (Feet)	Bottom of Casing Elevation (measured) (Feet)	Depth to Ground Water (Feet)	Water Column Thickness (Feet)	Potentiometric Surface Elevation (Feet)
MW-1A a b	05/05/21	4615.84	18.70	Screened Interval Reported as 9.0' to 19.0'			4600.77
	04/26/19	4615.84	18.70	4597.14	15.07	3.63	4601.04
	12/12/17	4615.84	18.70	4597.14	14.80	3.90	4601.30
	01/26/17	4615.84	18.70	4597.14	14.54	4.16	4601.08
	07/29/16	4615.84	18.70	4597.14	14.76	3.94	4600.34
	03/24/14	4615.84	18.70	4597.14	15.50	3.20	4600.54
	10/30/13	4615.84	18.70	4597.14	15.30	3.40	4601.88
					4597.14	13.96	4.74
MW-2A a b	05/05/21	4613.53	19.00	<i>Screened Interval & Original Total Depth: Not Available</i>			4599.99
	04/26/19	4613.53	19.00	4594.53	13.54	5.46	4600.37
	12/12/17	4613.53	19.00	4594.53	13.16	5.84	4600.48
	01/26/17	4613.53	19.00	4594.53	13.05	5.95	4600.41
	07/29/16	4613.53	19.00	4594.53	13.12	5.88	4599.21
	03/24/14	4613.53	19.00	Roots in casing. No depth to water recorded			
	10/30/13	4613.53	19.00	4594.53	14.32	4.68	4600.99
	06/11/09	4613.39	19.00	Roots in casing. No depth to water recorded			
	09/23/01	4613.39	19.00	4594.39	12.54	6.46	
					Dry		



TABLE 1
Ground Water Elevation Data

Monitor Well ID	Date	Casing Rim Elevation* (Feet)	Depth to Bottom (Feet)	Bottom of Casing Elevation (measured) (Feet)	Depth to Ground Water (Feet)	Water Column Thickness (Feet)	Potentiometric Surface Elevation (Feet)
^c MW-3 a	05/05/21	4615.00	27.94	<i>Screened Interval & Original Total Depth: Not Available</i>		14.26	4601.32
	04/26/19	4615.00	27.94	4587.06	13.68	14.35	4601.41
	12/12/17	4615.00	27.94	4587.06	13.59	14.67	4601.73
	01/26/17	4615.02	27.94	4587.06	13.27	13.91	4600.99
	07/29/16	4615.02	27.94	4587.08	14.03	13.30	4600.38
	03/24/14	4615.02	27.94	4587.08	14.64	13.90	4600.98
	10/30/13	4615.02	27.94	4587.08	14.04	15.44	4602.52
	06/11/09	4615.02	27.94	4587.08	12.50	14.04	4601.12
	09/23/01	4615.02	27.94	4587.08	13.90	15.45	4602.53
	03/29/95	4615.02	27.94	4587.08	12.49	17.84	4604.92
^d MW-4	09/23/01	4590.18	unknown	<i>Screened Interval & Original Total Depth: Not Available</i>		unknown	4580.61
	03/29/95	4590.18	unknown	unknown	9.57	unknown	4579.32

Casing Elevations and screened intervals from Annual Groundwater Monitoring and MW-3 Well Surface Completion Report (3/17/18)

^a MW-1A, MW-2A and MW-3 top-of-casing elevations resurveyed on January 18, 2018 by Surveying Control, Inc.

MW-1A and MW-2A ground water normalized to January 2018 resurvey data.

^b Top of casing elevations prior to January 2018 resurvey are questionable because of elevation discrepancies.

^c MW-3 Top of casing adjusted in December 2017

^d MW-4 last located in September 2001. MW-4 may be paved over or destroyed.



Leonard's Conoco
 1633 Historic Route 66
 Santa Rosa, New Mexico 88435
 PSTB Facility # 29084: Release ID #755

WESTERN TECHNOLOGIES INC.

TABLE 2
 Ground Water Field Data

Monitor Well ID	Depth DTW DTB	Date and Time 05/05/21	Temp. (°C)	RDO Dissolved Oxygen (mg/L)	pH	Eh ORP (mV)	Specific Conductivity (ÂµS/cm)*	Volume Removed (gallons)	COMMENTS
		hour:minute:second							<1/3 ft drawdown
MW-1A	<u>DTW</u>	11:05:28	18.4	4.04	7.00	-152	3,130	0.0	Clear, slightly gray
	15.07	11:10:26	17.4	2.94	6.89	-183	3,197	1.0	Clear, slightly gray
	<u>ID</u>	11:12:52	17.4	1.77	6.99	-199	3,207	1.5	Clear, slightly gray
	18.70	11:16:18	17.5	1.91	7.07	-194	3,160	2.0	Clear, slightly gray Turbidity = 7.48 NTU
MW-2A	<u>DTW</u>	8:14:54	16.0	5.21	7.40	110	2,870	0.0	Brown, med. turbid
	13.54	8:22:46	16.1	1.47	7.24	97	2,895	1.0	Brown, med. turbid
	<u>ID</u>	8:25:50	16.3	0.91	7.21	89	2,896	1.5	Brown, med. turbid
	19.00	8:28:16	16.4	1.04	7.22	83	2,900	2.5	Brown, med. turbid Turbidity = 7.49 NTU
MW-3	<u>DTW</u>	9:32:08	18.4	2.31	6.99	102	3,566	0.0	Clear
	13.68	9:54:17	18.4	1.06	6.91	103	3,540	2.0	Clear
	<u>ID</u>	10:07:24	18.9	1.80	7.09	135	3,599	4.0	Brown, turbid
	27.94	10:25:08	19.2	1.79	7.00	117	3,615	7.0	Brown, turbid Turbidity = 1.65 NTU
MW-4								Could not locate (Last located on 9/23/01)	

ORP = Oxidation Reduction Potential (Eh)
 NTU = Nephelometric Turbidity unit

* = temperature compensated specific conductivity



Leonard's Conoco
 1633 Historic Route 66
 Santa Rosa, New Mexico 88435
 PSTB Facility # 29084: Release ID #755

WESTERN TECHNOLOGIES INC.

TABLE 3
Summary of Water Sample Analytical Test Results

Monitor Well	Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Total BTEX µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	Total Naphthalenes µg/L
NMWQCC Regulatory Limits =		5.0	1,000	700	620	none	100	0.005	5.0	30
MW-1A	05/05/21	120	< 1.0	110	<1.5	230	32	< 0.0092	1.2	30
	04/26/19	250	<1.0	140	<1.5	390	46	<1.0	1.9	72
	12/12/17	430	<1.0	310	<1.5	740	45	<1.0	2.1	207
	01/26/17	93	<1.0	58	<1.5	151	15	<1.0	<1.0	25
	07/29/16	100	<1.0	38	<1.5	138	21	<1.0	<1.0	37
	03/24/14	250	<5.0	250	<7.5	500	18	<5.0	<5.0	84
	10/25/13	79	<5.0	210	<7.5	289	<5.0	<5.0	<5.0	79
MW-1	03/24/14				Plugged and abandoned					
	10/25/13				Well dry at 9.40 feet - not sampled					
	12/31/00				Well not sampled					
	03/20/99	57	ND	90	4.1	151	10	ND	ND	—
	10/18/98	83	2.7	71	12	168.7	43	ND	2.2	—
	11/07/97	180	2.7	36	6.5	225.2	150	ND	13	—
	03/31/95	440	26	400	81	947	320	—	—	—



TABLE 3
Summary of Water Sample Analytical Test Results

Monitor Well	Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Total BTEX µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	Total Naphthalenes µg/L	
NMWQCC Regulatory Limits =		5.0	1,000	700	620	none	100	0.005	5.0	30	
MW-2A	05/05/21	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	< 0.0094	<1.0	<10	
	04/26/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10	
	12/12/17	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10	
	01/26/17	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10	
	07/29/16	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10	
	03/24/14	Well dry at 13.70 feet - not sampled									
	10/25/13	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<4.0	
	06/11/09	Well dry at 13.97 feet - not sampled									
	09/23/01	ND	ND	ND	ND	ND	ND	ND	ND	—	
	12/31/00	ND	ND	ND	ND	ND	ND	ND	ND	—	
MW-2	03/20/00	Plugged and abandoned									
	10/18/98	6.3	ND	0.7	2.5	9.5	ND	ND	—	—	
	11/07/97	3.3	ND	1.6	2.3	7.2	1.2	ND	15	—	
	03/31/95	420	6.4	540	86	1,052.4	4.5	—	—	—	



Leonard's Conoco
 1633 Historic Route 66
 Santa Rosa, New Mexico 88435
 PSTB Facility # 29084: Release ID #755

WESTERN TECHNOLOGIES INC.

TABLE 3
Summary of Water Sample Analytical Test Results

Monitor Well	Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Total BTEX µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	Total Naphthalenes µg/L
NMWQCC Regulatory Limits =		5.0	1,000	700	620	none	100	0.005	5.0	30
MW-3	05/05/21	<2.0	<2.0	<2.0	<3.0	<4.5	<2.0	< 0.0094	<2.0	<20
	04/26/19	<2.0	<2.0	<2.0	<3.0	<4.5	<2.0	<2.0	<2.0	<20
	12/12/17	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10
	01/26/17	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10
	07/29/16	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10
	03/24/14	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<4.0
	10/25/13	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<4.0
	06/11/09	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10
	09/23/01	ND	ND	ND	ND	ND	ND	ND	ND	—
	12/31/00	ND	ND	ND	ND	ND	ND	ND	ND	—
	03/20/99	ND	ND	ND	ND	ND	ND	ND	0.6	—
	10/18/98	ND	ND	ND	ND	ND	ND	ND	0.8	—
	11/07/97	ND	ND	ND	ND	ND	ND	ND	3.2	—
03/31/95	39	8.2	6.3	15	68.5	ND	—	—	—	



TABLE 3
Summary of Water Sample Analytical Test Results

Monitor Well	Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Total BTEX µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	Total Naphthalenes µg/L
NMWQCC Regulatory Limits =		5.0	1,000	700	620	none	100	0.005	5.0	30
MW-4	04/26/19					Well Not Located				
	10/25/13					Well Not Located				
	06/11/09					Well Not Located				
	09/23/01	ND	ND	ND	ND	ND	ND	ND	ND	—
	12/31/00	ND	ND	ND	ND	ND	ND	ND	ND	—
	03/20/99	ND	ND	ND	ND	ND	ND	ND	0.3	—
	10/18/98	ND	ND	ND	ND	ND	ND	ND	0.9	—
	11/07/97	ND	ND	ND	ND	ND	ND	ND	ND	—
	03/29/95	<0.5	3.0	<0.5	2.9	5.9	<2.5	—	—	—

Total BTEX = total benzene, toluene, ethylbenzene, and xylenes

EDB = 1,2-Dibromoethane. EDB values <1.0 indicates that EDB analyzed by EPA Method 504.1.

Total Naphthalenes = total of naphthalene, 1-methylnaphthalene & 2-methylnaphthalene

NMWQCC = New Mexico Water Quality Control Commission

BOLD RED Indicates Laboratory Analytical Result ≥ NMWQCC Regulatory Limit

RED (Not bold) Indicates PQLs ≥ NMWQCC Regulatory Limit

MTBE = Methyl-tert-butyl ether

EDC = 1,2-Dichloroethane

µg/L = micrograms per Liter

"-" indicates Not Analyzed or Not Available



TABLE 4

Current Ground Water Sample Analytical Test Results
 Volatile Organic Analysis by EPA Method 8260B & EDB by EPA Method 504.1

Sample ID = Date = Units =	MW-1A 05/05/21 µg/L	MW-2A 05/05/21 µg/L	MW-3 05/05/21 µg/L	MW-4 04/26/19 µg/L
EDB by EPA Method 504.1 =	< 0.0092	< 0.0094	< 0.0094	
Benzene	120	< 1.0	< 1.0	Not Located since 2001
Toluene	< 1.0	< 1.0	< 1.0	
Ethylbenzene	110	< 1.0	< 1.0	
Methyl tert-butyl ether (MTBE)	32	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	< 1.0	< 1.0	< 1.0	
1,2-Dichloroethane (EDC)	1.2	< 1.0	< 1.0	
1,2-Dibromoethane (EDB)	< 1.0	< 1.0	< 1.0	
Naphthalene	21	< 2.0	< 2.0	
1-Methylnaphthalene	9.0	< 4.0	< 4.0	
2-Methylnaphthalene	< 4.0	< 4.0	< 4.0	
Total Naphthalenes =	30	<10.0	<10.0	
Acetone	< 10	< 10	< 10	
Bromobenzene	< 1.0	< 1.0	< 1.0	
Bromodichloromethane	< 1.0	< 1.0	< 1.0	
Bromoform	< 1.0	< 1.0	< 1.0	
Bromomethane	< 3.0	< 3.0	< 3.0	
2-Butanone	< 10	< 10	< 10	
Carbon disulfide	< 10	< 10	< 10	
Carbon Tetrachloride	< 1.0	< 1.0	< 1.0	
Chlorobenzene	< 1.0	< 1.0	< 1.0	
Chloroethane	< 2.0	< 2.0	< 2.0	
Chloroform	< 1.0	< 1.0	< 1.0	
Chloromethane	< 3.0	< 3.0	< 3.0	
2-Chlorotoluene	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	< 1.0	< 1.0	< 1.0	
cis-1,2-DCE	< 1.0	< 1.0	< 1.0	
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	< 2.0	< 2.0	< 2.0	
Dibromochloromethane	< 1.0	< 1.0	< 1.0	
Dibromomethane	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	< 1.0	< 1.0	< 1.0	
Dichlorodifluoromethane	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	
1,3-Dichloropropane	< 1.0	< 1.0	< 1.0	
2,2-Dichloropropane	< 2.0	< 2.0	< 2.0	
1,1-Dichloropropene	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	< 1.0	< 1.0	< 1.0	
2-Hexanone	< 10	< 10	< 10	
Isopropylbenzene	10	< 1.0	< 1.0	
4-Isopropyltoluene	< 1.0	< 1.0	< 1.0	
4-Methyl-2-pentanone	< 10	< 10	< 10	
Methylene Chloride	< 3.0	< 3.0	< 3.0	
n-Butylbenzene	< 3.0	< 3.0	< 3.0	
n-Propylbenzene	13	< 1.0	< 1.0	
sec-Butylbenzene	1.5	< 1.0	< 1.0	
Styrene	< 1.0	< 1.0	< 1.0	
tert-Butylbenzene	< 1.0	< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	< 2.0	< 2.0	< 2.0	
Tetrachloroethene (PCE)	< 1.0	< 1.0	< 1.0	
trans-1,2-DCE	< 1.0	< 1.0	< 1.0	
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	
1,2,3-Trichlorobenzene	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	
Trichloroethene (TCE)	< 1.0	< 1.0	< 1.0	
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	
1,2,3-Trichloropropane	< 2.0	< 2.0	< 2.0	
Vinyl chloride	< 1.0	< 1.0	< 1.0	
Xylenes, Total	< 1.5	< 1.5	< 1.5	



Leonard's Conoco
 1633 Historic Route 66
 Santa Rosa, New Mexico 88435
 PSTB Facility # 29084: Release ID #755

WESTERN TECHNOLOGIES INC.

**Summary of Water Sample Analytical Test Results
 Total Petroleum Hydrocarbons by EPA Method 8015D**

TABLE 5

MONITOR WELL	DATE	GRO (mg/L)	MRO (mg/L)	DRO (mg/L)	Total TPH (mg/L)
MW-1A	05/05/21	0.99	< 1.0	< 5.0	0.99 (GRO)
MW-2A	05/05/21	< 0.050	< 1.0	< 5.0	ND
MW-3	05/05/21	< 0.050	< 1.0	< 5.0	ND

TPH = Total Petroleum Hydrocarbons (GRO + DRO + MRO) by EPA Method 8015D

GRO = Gasoline Range Organics

ND = Not Detected

DRO = Diesel Range Organics

MRO = Motor Oil Range Organics



Leonard's Conoco
 1633 Historic Route 66
 Santa Rosa, New Mexico 88435
 PSTB Facility # 29084: Release ID #755

WESTERN TECHNOLOGIES INC.
Summary of Water Sample Analytical Test Results
Nitrate, Nitrite, Total Kjeldahl Nitrogen,
Total Dissolved Solids, and Chemical Oxygen Demand

TABLE 6

MONITOR WELL	DATE	NITRATE (mg/L)	NITRITE (mg/L)	TKN (mg/L)	TDS (mg/L)	COD (mg/L)
NMWQCC Regulatory Limits =		10.0^a	1.0^a	Not Applicable	1,000^b	125^c
MW-1A	05/05/21	< 0.10	< 0.10	< 2.0	2,980	27.8
MW-2A	05/05/21	< 0.10	< 0.10	< 2.0	2,780	< 20.0
MW-3	05/05/21	< 0.50	< 0.50	< 1.0	3,240	1,290

NMWQCC = New Mexico Water Quality Control Commission

a = NMWQCC Regulations: NMAC 20.6.2.3103.A. Human Health Standards

b = NMWQCC Regulations: NMAC 20.6.2.3103.B. Other Standards for Domestic Water Supply

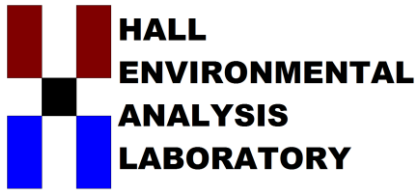
c = NMWQCC Regulations: NMAC 20.6.2.2101.A. General Requirements



APPENDIX C

Hall Environmental Analysis Laboratory Report





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

May 25, 2021

David Wagner

Western Technologies
8305 Washington Place NE
Albuquerque, NM 87113-1670
TEL: (505) 823-4488
FAX (505) 821-2963

RE: Leonards Conoco

OrderNo.: 2105207

Dear David Wagner:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/5/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: MW-1A

Project: Leonards Conoco

Collection Date: 5/5/2021 11:27:00 AM

Lab ID: 2105207-001

Matrix: AQUEOUS

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MH
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	5/6/2021 7:56:22 PM	R77217
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	5/6/2021 7:56:22 PM	R77217
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JMT
Total Dissolved Solids	2980	20.0	*	mg/L	1	5/13/2021 1:57:00 PM	59964
SM 4500 NORG C: TKN							Analyst: EKM
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	5/18/2021 10:21:00 AM	60069
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0092		µg/L	1	5/13/2021 5:57:19 PM	59988
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: SB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/11/2021 2:00:52 AM	59921
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/11/2021 2:00:52 AM	59921
Surr: DNOP	109	63.7-164		%Rec	1	5/11/2021 2:00:52 AM	59921
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	0.99	0.050		mg/L	1	5/11/2021 10:56:00 PM	R77299
Surr: BFB	216	68.5-136	S	%Rec	1	5/11/2021 10:56:00 PM	R77299
EPA METHOD 8260B: VOLATILES							Analyst: BRM
Benzene	120	5.0		µg/L	5	5/12/2021 9:44:02 AM	A77339
Toluene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Ethylbenzene	110	5.0		µg/L	5	5/12/2021 9:44:02 AM	A77339
Methyl tert-butyl ether (MTBE)	32	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,2-Dichloroethane (EDC)	1.2	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Naphthalene	21	2.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1-Methylnaphthalene	9.0	4.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
2-Methylnaphthalene	ND	4.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Acetone	ND	10		µg/L	1	5/11/2021 6:11:09 PM	A77311
Bromobenzene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Bromodichloromethane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Bromoform	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Bromomethane	ND	3.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
2-Butanone	ND	10		µg/L	1	5/11/2021 6:11:09 PM	A77311
Carbon disulfide	ND	10		µg/L	1	5/11/2021 6:11:09 PM	A77311
Carbon Tetrachloride	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Chlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: MW-1A

Project: Leonards Conoco

Collection Date: 5/5/2021 11:27:00 AM

Lab ID: 2105207-001

Matrix: AQUEOUS

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: BRM
Chloroethane	ND	2.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Chloroform	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Chloromethane	ND	3.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
2-Chlorotoluene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
4-Chlorotoluene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
cis-1,2-DCE	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Dibromochloromethane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Dibromomethane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,1-Dichloroethane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,1-Dichloroethene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,2-Dichloropropane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,3-Dichloropropane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
2,2-Dichloropropane	ND	2.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,1-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Hexachlorobutadiene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
2-Hexanone	ND	10		µg/L	1	5/11/2021 6:11:09 PM	A77311
Isopropylbenzene	10	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
4-Isopropyltoluene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
4-Methyl-2-pentanone	ND	10		µg/L	1	5/11/2021 6:11:09 PM	A77311
Methylene Chloride	ND	3.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
n-Butylbenzene	ND	3.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
n-Propylbenzene	13	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
sec-Butylbenzene	1.5	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Styrene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
tert-Butylbenzene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
trans-1,2-DCE	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: MW-1A

Project: Leonards Conoco

Collection Date: 5/5/2021 11:27:00 AM

Lab ID: 2105207-001

Matrix: AQUEOUS

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: BRM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Trichlorofluoromethane	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Vinyl chloride	ND	1.0		µg/L	1	5/11/2021 6:11:09 PM	A77311
Xylenes, Total	ND	1.5		µg/L	1	5/11/2021 6:11:09 PM	A77311
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	5/11/2021 6:11:09 PM	A77311
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/11/2021 6:11:09 PM	A77311
Surr: Dibromofluoromethane	97.4	70-130		%Rec	1	5/11/2021 6:11:09 PM	A77311
Surr: Toluene-d8	98.8	70-130		%Rec	1	5/11/2021 6:11:09 PM	A77311

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: MW-2A

Project: Leonards Conoco

Collection Date: 5/5/2021 8:28:00 AM

Lab ID: 2105207-002

Matrix: AQUEOUS

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MH
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	5/6/2021 8:21:04 PM	R77217
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	5/6/2021 8:21:04 PM	R77217
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JMT
Total Dissolved Solids	2780	20.0	*	mg/L	1	5/13/2021 1:57:00 PM	59964
SM 4500 NORG C: TKN							Analyst: EKM
Nitrogen, Kjeldahl, Total	ND	2.0	D	mg/L	1	5/18/2021 10:21:00 AM	60069
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0094		µg/L	1	5/13/2021 6:12:36 PM	59988
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: SB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/11/2021 2:10:47 AM	59921
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/11/2021 2:10:47 AM	59921
Surr: DNOP	115	63.7-164		%Rec	1	5/11/2021 2:10:47 AM	59921
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/11/2021 11:16:00 PM	R77299
Surr: BFB	95.8	68.5-136		%Rec	1	5/11/2021 11:16:00 PM	R77299
EPA METHOD 8260B: VOLATILES							Analyst: BRM
Benzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Toluene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Ethylbenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Naphthalene	ND	2.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1-Methylnaphthalene	ND	4.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
2-Methylnaphthalene	ND	4.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Acetone	ND	10		µg/L	1	5/11/2021 6:38:09 PM	A77311
Bromobenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Bromodichloromethane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Bromoform	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Bromomethane	ND	3.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
2-Butanone	ND	10		µg/L	1	5/11/2021 6:38:09 PM	A77311
Carbon disulfide	ND	10		µg/L	1	5/11/2021 6:38:09 PM	A77311
Carbon Tetrachloride	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Chlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: MW-2A

Project: Leonards Conoco

Collection Date: 5/5/2021 8:28:00 AM

Lab ID: 2105207-002

Matrix: AQUEOUS

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: BRM
Chloroethane	ND	2.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Chloroform	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Chloromethane	ND	3.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
2-Chlorotoluene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
4-Chlorotoluene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
cis-1,2-DCE	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Dibromochloromethane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Dibromomethane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,1-Dichloroethane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,1-Dichloroethene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,2-Dichloropropane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,3-Dichloropropane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
2,2-Dichloropropane	ND	2.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,1-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Hexachlorobutadiene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
2-Hexanone	ND	10		µg/L	1	5/11/2021 6:38:09 PM	A77311
Isopropylbenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
4-Isopropyltoluene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
4-Methyl-2-pentanone	ND	10		µg/L	1	5/11/2021 6:38:09 PM	A77311
Methylene Chloride	ND	3.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
n-Butylbenzene	ND	3.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
n-Propylbenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
sec-Butylbenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Styrene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
tert-Butylbenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
trans-1,2-DCE	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: MW-2A

Project: Leonards Conoco

Collection Date: 5/5/2021 8:28:00 AM

Lab ID: 2105207-002

Matrix: AQUEOUS

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: BRM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Trichlorofluoromethane	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Vinyl chloride	ND	1.0		µg/L	1	5/11/2021 6:38:09 PM	A77311
Xylenes, Total	ND	1.5		µg/L	1	5/11/2021 6:38:09 PM	A77311
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/11/2021 6:38:09 PM	A77311
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	5/11/2021 6:38:09 PM	A77311
Surr: Dibromofluoromethane	107	70-130		%Rec	1	5/11/2021 6:38:09 PM	A77311
Surr: Toluene-d8	99.0	70-130		%Rec	1	5/11/2021 6:38:09 PM	A77311

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: Trip Blank

Project: Leonards Conoco

Collection Date:

Lab ID: 2105207-003

Matrix: TRIP BLANK

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0094		µg/L	1	5/13/2021 6:27:52 PM	59988
EPA METHOD 8260B: VOLATILES							Analyst: BRM
Benzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Toluene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Ethylbenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Naphthalene	ND	2.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1-Methylnaphthalene	ND	4.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
2-Methylnaphthalene	ND	4.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Acetone	ND	10		µg/L	1	5/11/2021 7:05:07 PM	A77311
Bromobenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Bromodichloromethane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Bromoform	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Bromomethane	ND	3.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
2-Butanone	ND	10		µg/L	1	5/11/2021 7:05:07 PM	A77311
Carbon disulfide	ND	10		µg/L	1	5/11/2021 7:05:07 PM	A77311
Carbon Tetrachloride	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Chlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Chloroethane	ND	2.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Chloroform	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Chloromethane	ND	3.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
2-Chlorotoluene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
4-Chlorotoluene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
cis-1,2-DCE	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Dibromochloromethane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Dibromomethane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,1-Dichloroethane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,1-Dichloroethene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,2-Dichloropropane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: Trip Blank

Project: Leonards Conoco

Collection Date:

Lab ID: 2105207-003

Matrix: TRIP BLANK

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: BRM
1,3-Dichloropropane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
2,2-Dichloropropane	ND	2.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,1-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Hexachlorobutadiene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
2-Hexanone	ND	10		µg/L	1	5/11/2021 7:05:07 PM	A77311
Isopropylbenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
4-Isopropyltoluene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
4-Methyl-2-pentanone	ND	10		µg/L	1	5/11/2021 7:05:07 PM	A77311
Methylene Chloride	ND	3.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
n-Butylbenzene	ND	3.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
n-Propylbenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
sec-Butylbenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Styrene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
tert-Butylbenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
trans-1,2-DCE	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Trichlorofluoromethane	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Vinyl chloride	ND	1.0		µg/L	1	5/11/2021 7:05:07 PM	A77311
Xylenes, Total	ND	1.5		µg/L	1	5/11/2021 7:05:07 PM	A77311
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	5/11/2021 7:05:07 PM	A77311
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	5/11/2021 7:05:07 PM	A77311
Surr: Dibromofluoromethane	111	70-130		%Rec	1	5/11/2021 7:05:07 PM	A77311
Surr: Toluene-d8	97.5	70-130		%Rec	1	5/11/2021 7:05:07 PM	A77311

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: MW-3

Project: Leonards Conoco

Collection Date: 5/5/2021 10:38:00 AM

Lab ID: 2105207-004

Matrix: AQUEOUS

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MH
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	5/6/2021 8:45:47 PM	R77217
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	5/6/2021 8:45:47 PM	R77217
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JMT
Total Dissolved Solids	3240	40.0	*D	mg/L	1	5/13/2021 1:57:00 PM	59964
SM 4500 NORG C: TKN							Analyst: EKM
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	5/18/2021 10:21:00 AM	60069
EPA METHOD 8011/504.1: EDB							Analyst: mb
1,2-Dibromoethane	ND	0.0094		µg/L	1	5/13/2021 6:43:04 PM	59988
EPA METHOD 8015M/D: DIESEL RANGE							Analyst: SB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/11/2021 2:20:37 AM	59921
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/11/2021 2:20:37 AM	59921
Surr: DNOP	104	63.7-164		%Rec	1	5/11/2021 2:20:37 AM	59921
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/11/2021 11:36:00 PM	R77299
Surr: BFB	92.8	68.5-136		%Rec	1	5/11/2021 11:36:00 PM	R77299
EPA METHOD 8260B: VOLATILES							Analyst: BRM
Benzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Toluene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Ethylbenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Naphthalene	ND	2.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1-Methylnaphthalene	ND	4.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
2-Methylnaphthalene	ND	4.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Acetone	ND	10		µg/L	1	5/11/2021 7:32:03 PM	A77311
Bromobenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Bromodichloromethane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Bromoform	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Bromomethane	ND	3.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
2-Butanone	ND	10		µg/L	1	5/11/2021 7:32:03 PM	A77311
Carbon disulfide	ND	10		µg/L	1	5/11/2021 7:32:03 PM	A77311
Carbon Tetrachloride	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Chlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311

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

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: MW-3

Project: Leonards Conoco

Collection Date: 5/5/2021 10:38:00 AM

Lab ID: 2105207-004

Matrix: AQUEOUS

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: BRM
Chloroethane	ND	2.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Chloroform	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Chloromethane	ND	3.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
2-Chlorotoluene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
4-Chlorotoluene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
cis-1,2-DCE	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Dibromochloromethane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Dibromomethane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,1-Dichloroethane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,1-Dichloroethene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,2-Dichloropropane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,3-Dichloropropane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
2,2-Dichloropropane	ND	2.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,1-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Hexachlorobutadiene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
2-Hexanone	ND	10		µg/L	1	5/11/2021 7:32:03 PM	A77311
Isopropylbenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
4-Isopropyltoluene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
4-Methyl-2-pentanone	ND	10		µg/L	1	5/11/2021 7:32:03 PM	A77311
Methylene Chloride	ND	3.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
n-Butylbenzene	ND	3.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
n-Propylbenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
sec-Butylbenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Styrene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
tert-Butylbenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
trans-1,2-DCE	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2105207

Date Reported: 5/25/2021

CLIENT: Western Technologies

Client Sample ID: MW-3

Project: Leonards Conoco

Collection Date: 5/5/2021 10:38:00 AM

Lab ID: 2105207-004

Matrix: AQUEOUS

Received Date: 5/5/2021 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: BRM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Trichlorofluoromethane	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Vinyl chloride	ND	1.0		µg/L	1	5/11/2021 7:32:03 PM	A77311
Xylenes, Total	ND	1.5		µg/L	1	5/11/2021 7:32:03 PM	A77311
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	5/11/2021 7:32:03 PM	A77311
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	5/11/2021 7:32:03 PM	A77311
Surr: Dibromofluoromethane	106	70-130		%Rec	1	5/11/2021 7:32:03 PM	A77311
Surr: Toluene-d8	99.1	70-130		%Rec	1	5/11/2021 7:32:03 PM	A77311

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

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

Hall Environmental Analysis Laboratory

Sample Delivery Group: L1350177
Samples Received: 05/08/2021
Project Number:
Description:

Report To: Jackie Bolte
4901 Hawkins NE
Albuquerque, NM 87109

Entire Report Reviewed By:












John Hawkins
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

2105207-001F MW-1A L1350177-01 WW

Collected by
05/05/21 11:27
Received date/time
05/08/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 410.4	WG1671868	1	05/18/21 02:11	05/18/21 08:31	AKA	Mt. Juliet, TN

¹Cp

²Tc

³Ss

2105207-002F MW-2A L1350177-02 WW

Collected by
05/05/21 08:28
Received date/time
05/08/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 410.4	WG1671868	1	05/18/21 02:11	05/18/21 08:31	AKA	Mt. Juliet, TN

⁴Cn

⁵Sr

2105207-004F MW-3 L1350177-03 WW

Collected by
05/05/21 10:38
Received date/time
05/08/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 410.4	WG1671868	20	05/18/21 02:11	05/18/21 08:31	AKA	Mt. Juliet, TN

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



John Hawkins
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
COD	27.8		20.0	1	05/18/2021 08:31	WG1671868

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
COD	ND		20.0	1	05/18/2021 08:31	WG1671868

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
COD	1290		400	20	05/18/2021 08:31	WG1671868

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

Method Blank (MB)

(MB) R3655626-1 05/18/21 08:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
COD	U		11.7	20.0

¹Cp

²Tc

³Ss

L1350114-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1350114-15 05/18/21 08:28 • (DUP) R3655626-3 05/18/21 08:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
COD	ND	ND	1	0.000		20

⁴Cn

⁵Sr

L1350114-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1350114-23 05/18/21 08:30 • (DUP) R3655626-6 05/18/21 08:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
COD	ND	ND	1	6.83		20

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3655626-2 05/18/21 08:28

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
COD	500	503	101	90.0-110	

⁹Sc

L1350114-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1350114-17 05/18/21 08:29 • (MS) R3655626-4 05/18/21 08:29 • (MSD) R3655626-5 05/18/21 08:29

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
COD	500	53.3	527	525	94.8	94.3	1	80.0-120			0.405	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

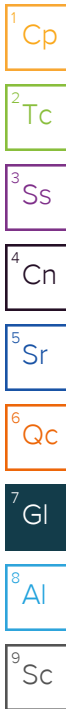
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SUB CONTRACTOR: **Pace TN** COMPANY: **PACE TN** PHONE: **(800) 767-5859** FAX: **(615) 758-5859**
 ADDRESS: **12065 Lebanon Rd** ACCOUNT #: _____ EMAIL: _____
 CITY, STATE, ZIP: **Mt. Juliet, TN 37122**

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2105207-001F	MW-1A	500HDPEH2 SO4	Aqueous	5/5/2021 11:27:00 AM	1	COD -01
2	2105207-002F	MW-2A	500HDPEH2 SO4	Aqueous	5/5/2021 8:28:00 AM	1	COD -02
3	2105207-004F	MW-3	500HDPEH2 SO4	Aqueous	5/5/2021 10:38:00 AM	1	COD -03

L1350177

MOIO

Sample Receipt Checklist
 COC Seal Present/Intact: Y N If Applicable
 COC Signed/Accurate: Y N VOA Zero Headspace: Y N
 Bottles arrive intact: Y N Pres. Correct/Check: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 RAD Screen <0.5 mR/hr: Y N

SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

5016223 7676

Relinquished By: <i>Tron</i>	Date: 5/6/2021	Time: 2:19 PM	Received By: _____	Date: _____	Time: _____	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE FOR LAB USE ONLY Temp of samples: 1.5 + .3 °C Attempt to Cool? _____ Comments: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____	
Relinquished By: _____	Date: _____	Time: _____	Received By: <i>Handy</i>	Date: 5/11/21	Time: 0945	

TAT: Standard RUSH Next BD 2nd BD 3rd BD

cust seal

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105207

25-May-21

Client: Western Technologies

Project: Leonards Conoco

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R77217	RunNo: 77217								
Prep Date:	Analysis Date: 5/6/2021	SeqNo: 2738301			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID: LCS	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R77217	RunNo: 77217								
Prep Date:	Analysis Date: 5/6/2021	SeqNo: 2738313			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.92	0.10	1.000	0	91.9	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	95.6	90	110			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105207

25-May-21

Client: Western Technologies

Project: Leonards Conoco

Sample ID: MB-59988	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 59988	RunNo: 77381								
Prep Date: 5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745642	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Sample ID: LCS-59988	SampType: LCS	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSW	Batch ID: 59988	RunNo: 77381								
Prep Date: 5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745643	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.10	0.010	0.1000	0	101	70	130			

Sample ID: LCSD-59988	SampType: LCSD	TestCode: EPA Method 8011/504.1: EDB								
Client ID: LCSS02	Batch ID: 59988	RunNo: 77381								
Prep Date: 5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745644	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.093	0.010	0.1000	0	93.2	70	130	8.29	20	

Sample ID: MB-59988	SampType: MBLK	TestCode: EPA Method 8011/504.1: EDB								
Client ID: PBW	Batch ID: 59988	RunNo: 77381								
Prep Date: 5/13/2021	Analysis Date: 5/13/2021	SeqNo: 2745645	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.010								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105207

25-May-21

Client: Western Technologies

Project: Leonards Conoco

Sample ID: MB-59921	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: PBW	Batch ID: 59921	RunNo: 77349								
Prep Date: 5/10/2021	Analysis Date: 5/11/2021	SeqNo: 2744634	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		107	63.7	164			

Sample ID: LCS-59921	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range								
Client ID: LCSW	Batch ID: 59921	RunNo: 77349								
Prep Date: 5/10/2021	Analysis Date: 5/11/2021	SeqNo: 2744636	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	109	70	130			
Surr: DNOP	0.56		0.5000		112	63.7	164			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105207

25-May-21

Client: Western Technologies

Project: Leonards Conoco

Sample ID: 2.5ug GRO lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSW	Batch ID: R77299		RunNo: 77299							
Prep Date:	Analysis Date: 5/11/2021		SeqNo: 2743345		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.47	0.050	0.5000	0	93.8	80	120			
Surr: BFB	20		20.00		101	68.5	136			

Sample ID: MB	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBW	Batch ID: R77299		RunNo: 77299							
Prep Date:	Analysis Date: 5/11/2021		SeqNo: 2743346		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		91.7	68.5	136			

Sample ID: 2105207-001bms	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: MW-1A	Batch ID: R77299		RunNo: 77299							
Prep Date:	Analysis Date: 5/11/2021		SeqNo: 2743350		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.6	0.050	0.5000	0.9932	113	67.3	116			
Surr: BFB	49		20.00		246	68.5	136			S

Sample ID: 2105207-001bmsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: MW-1A	Batch ID: R77299		RunNo: 77299							
Prep Date:	Analysis Date: 5/12/2021		SeqNo: 2743351		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1.5	0.050	0.5000	0.9932	102	67.3	116	3.80	20	
Surr: BFB	47		20.00		236	68.5	136	0	0	S

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105207

25-May-21

Client: Western Technologies

Project: Leonards Conoco

Sample ID: 100ng lcs		SampType: LCS		TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW		Batch ID: A77311		RunNo: 77311						
Prep Date:		Analysis Date: 5/11/2021		SeqNo: 2743053			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	19	1.0	20.00	0	93.9	70	130			
Chlorobenzene	18	1.0	20.00	0	90.4	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	96.0	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		113	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.1	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.7		10.00		96.9	70	130			

Sample ID: 2105207-001a ms		SampType: MS		TestCode: EPA Method 8260B: VOLATILES						
Client ID: MW-1A		Batch ID: A77311		RunNo: 77311						
Prep Date:		Analysis Date: 5/12/2021		SeqNo: 2743056			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	150	1.0	20.00	111.9	197	70	130			ES
Toluene	20	1.0	20.00	0.3684	96.0	70	130			
Chlorobenzene	19	1.0	20.00	0	93.0	70	130			
1,1-Dichloroethene	18	1.0	20.00	0	91.0	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	98.8	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.2	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

Sample ID: 2105207-001a msd		SampType: MSD		TestCode: EPA Method 8260B: VOLATILES						
Client ID: MW-1A		Batch ID: A77311		RunNo: 77311						
Prep Date:		Analysis Date: 5/12/2021		SeqNo: 2743057			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	140	1.0	20.00	111.9	155	70	130	5.72	20	ES
Toluene	19	1.0	20.00	0.3684	91.9	70	130	4.23	20	
Chlorobenzene	18	1.0	20.00	0	88.5	70	130	4.97	20	
1,1-Dichloroethene	17	1.0	20.00	0	85.1	70	130	6.78	20	
Trichloroethene (TCE)	19	1.0	20.00	0	94.3	70	130	4.68	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.6		10.00		96.4	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		101	70	130	0	0	
Surr: Toluene-d8	9.6		10.00		96.3	70	130	0	0	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105207

25-May-21

Client: Western Technologies

Project: Leonards Conoco

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: A77311	RunNo: 77311								
Prep Date:	Analysis Date: 5/11/2021	SeqNo: 2743073 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105207

25-May-21

Client: Western Technologies

Project: Leonards Conoco

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: A77311		RunNo: 77311							
Prep Date:	Analysis Date: 5/11/2021		SeqNo: 2743073		Units: µg/L					
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.0	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: A77339		RunNo: 77339							
Prep Date:	Analysis Date: 5/12/2021		SeqNo: 2744209		Units: µg/L					
Benzene	22	1.0	20.00	0	111	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105207

25-May-21

Client: Western Technologies

Project: Leonards Conoco

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: A77339	RunNo: 77339								
Prep Date:	Analysis Date: 5/12/2021	SeqNo: 2744209	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.6		10.00		96.3	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: A77339	RunNo: 77339								
Prep Date:	Analysis Date: 5/12/2021	SeqNo: 2744229	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.8		10.00		98.1	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105207

25-May-21

Client: Western Technologies

Project: Leonards Conoco

Sample ID: MB-59964	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 59964	RunNo: 77368								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745301	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: LCS-59964	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 59964	RunNo: 77368								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745302	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Sample ID: 2105207-001EDUP	SampType: DUP	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: MW-1A	Batch ID: 59964	RunNo: 77368								
Prep Date: 5/12/2021	Analysis Date: 5/13/2021	SeqNo: 2745306	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	2980	20.0						0.134	10	*

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105207

25-May-21

Client: Western Technologies

Project: Leonards Conoco

Sample ID: MB-60069	SampType: MBLK	TestCode: SM 4500 Norg C: TKN								
Client ID: PBW	Batch ID: 60069	RunNo: 77463								
Prep Date: 5/17/2021	Analysis Date: 5/18/2021	SeqNo: 2749357	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID: LCS-60069	SampType: LCS	TestCode: SM 4500 Norg C: TKN								
Client ID: LCSW	Batch ID: 60069	RunNo: 77463								
Prep Date: 5/17/2021	Analysis Date: 5/18/2021	SeqNo: 2749358	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	9.8	1.0	10.00	0	98.0	80	120			

Qualifiers:

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

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

Sample Log-In Check List

Client Name: **Western Technologies** Work Order Number: **2105207** RcptNo: **1**

Received By: **Juan Rojas** 5/5/2021 3:05:00 PM

Juan Rojas

Completed By: **Isaiah Ortiz** 5/5/2021 3:25:00 PM

I-Ortiz

Reviewed By: *SIPA 5.6.21*

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
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: 6
(<2 or >12 unless noted)
Adjusted? no
Checked by: *cu 5/6/21*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	1.2	Good	Not Present			

Chain-of-Custody Record

Client: **Western Technologies, Inc**

Turn-Around Time:
 Standard Rush

Mailing Address: **8305 Washington Place NE
 Albuquerque, NM 87113-1670**

Project Name:
Leonard's Conoco

Phone #: **505-823-4488**
 email or Fax#: **d.wagner@wt-us.com**

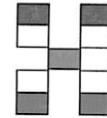
Project #:
3288JV032

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

Project Manager:
David Wagner

Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Sampler: **David Foreman**
 On Ice: Yes No
 # of Coolers: **1**
 Cooler Temp (including CF): **1.2-0=1.2**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	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)	8015 GRO	8015 DRO MRO	410.4 COD	SM 4500 Norg C TKN	SM 2540C (TDS):	EPA 300.0 NO2/NO3	
5/5/21	1038	AQ	MW-3	40 ml/6	HgCl ₂	2105207 004								■			■						
		AQ	MW-3	40 ml/2	Na ₂ S ₂ O ₃					■													
		AQ	MW-3	250 ml glass/1	none													■					
		AQ	MW-3	500 ml HDPE/2	H ₂ SO ₄														■	■			
		AQ	MW-3	500 ml HDPE/1	none															■	■	■	

Date: **5/5/21** Time: **1505** Relinquished by: **David Foreman**

Received by: **[Signature]** Via: **CPO** Date: **5-5-21** Time: **1502**

Remarks:
 Page 2 of 2

Date: _____ Time: _____ Relinquished by: _____

Received by: _____ Via: _____ Date: _____ Time: _____

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.

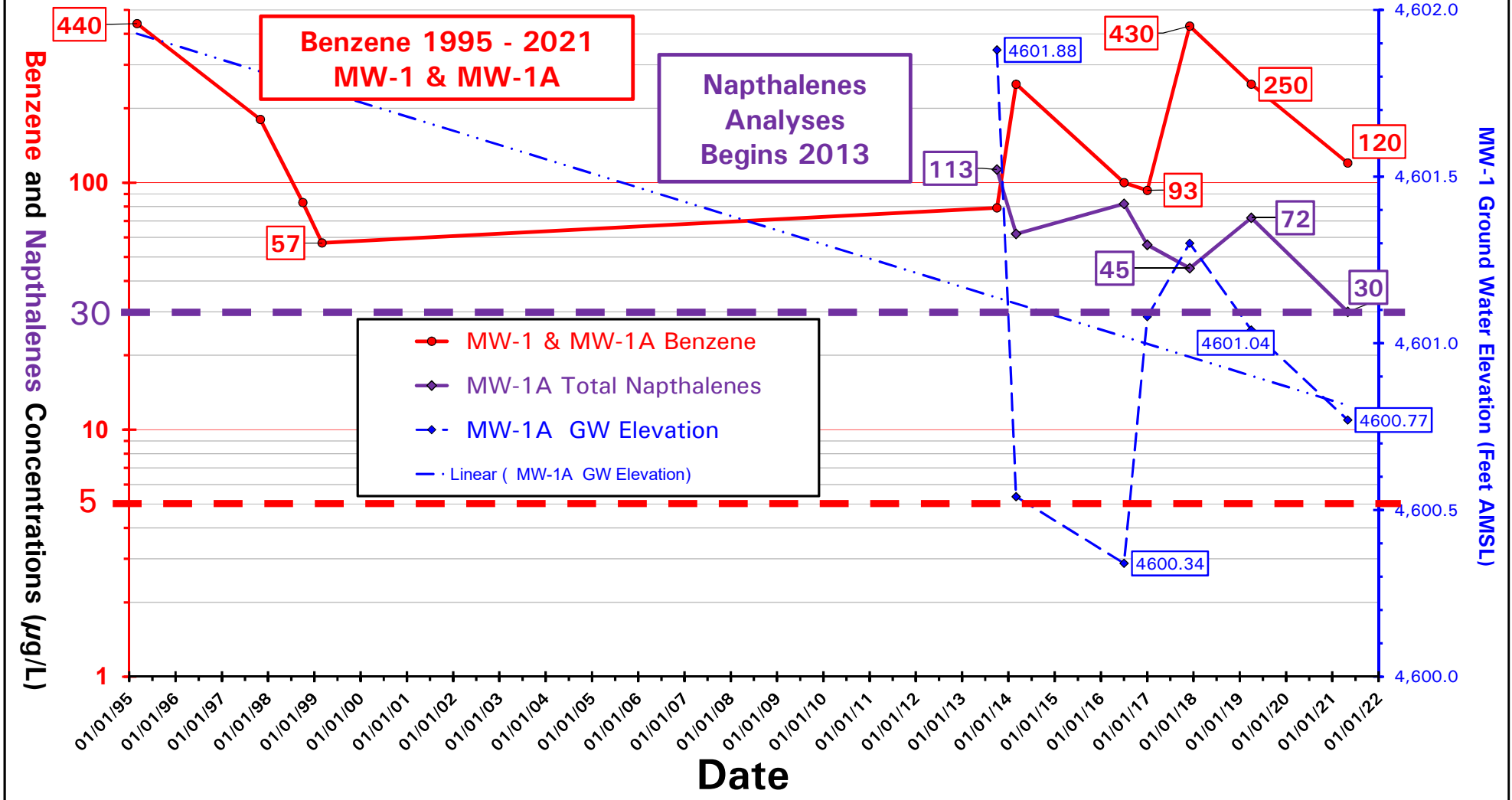
APPENDIX D

Charts



Chart 1: MW-1 Benzene and Napthalene Concentrations (logarithmic) versus MW-1A Ground Water Elevations: January 1995 to Date

Benzene NMWQCC Regulatory Limit = **5.0** $\mu\text{g/L}$
 Napthalenes NMWQCC Regulatory Limit = **30** $\mu\text{g/L}$



APPENDIX E

Field Notes



Leonard's Conoco
 1633 Historic Route 66
 Santa Rosa, New Mexico 88435
 PSTB Facility # 29084: Release ID #755

WESTERN TECHNOLOGIES INC.

Ground Water Field Data

NOTE:
 < 1/3' Drawdown

5-5-21

Monitor Well ID	Depth DTW/DTB	Time	Temp. (°C)	RDO (mg/L)	pH	Eh ORP (mV)	Specific Conductivity (µS/cm)*	Volume purged (gallons)	COMMENTS
			18.9	1.02	6.89	-187.1	3283	0	clear, slightly gray
MW-1A	<u>DTW</u>	15.07	16.0	5.33	7.39	110.7	2870	0	
0707	13.54	0652 1009	17.5	1.15	6.84	198.4	3286	0.15	
059	<u>TD</u>	11.1	17.4	2.13	6.88	-204.1	3274	1.0	
179	18.70	1013	17.4	1.99	7.00	-196.7	3207	1.5	Turbidity = 7.48 NTU
1.78			17.5	2.36	7.07	-184.0	3159	2.0	Sample Time: 1127 (1) clear, brown
MW-2A	<u>DTW</u>	0815	16.0	5.33	7.39	110.7	2870	0	brown, med. turbid
	13.54	0652 ⁰⁸¹⁹	16.0	4.21	7.40	103.5	2892	0.5	0.5 brown, med. turbid
059	<u>TD</u>	0922	16.1	7.09	7.26	97.6	2896	1.2	1.0
1.78	19.00	0925	16.2	1.01	7.21	89.1	2895	1.5	turbidity = 7.49 NTU
2.16		0929	16.4	1.03	7.21	82.4	2900	2.0	Sample Time: 0841
		0831	16.6	1.04	7.21	78.6	2915	2.16	
MW-3	<u>DTW</u>	0932						0	
	13.68	0659	18.7	7.33	7.01	98.3	3565	0	clear
		0941	18.1	1.34	6.94	105.0	3532	1.0	
2.32	<u>TD</u>	0948	18.2	0.99	6.92	104.6	3553	1.5	
6.07	27.94	0954	18.4	1.20	6.90	102.7	3578	2.0	Sample Time: 1038
		1000	18.6	1.87	7.08	113.2	3634	2.5	3.0 turbidity = 16.5 NTU
		1007	18.10	1.71	7.04	134.2	3581	4.0	brown, turbid
		1014	18.7	1.66	7.05	120.8	3628	6.0	
		1025	19.0	2.20	7.01	111.2	3626	7.0	