HARVEST FOUR CORNERS, LLC

REVISED STAGE 1 ABATEMENT PLAN LATERAL L - 2 PIPELINE RELEASE INCIDENT # NVF1724832528 REMEDIATION PERMIT 3RP - 1061

MARCH 21, 2022





REVISED STAGE 1 ABATEMENT PLAN

LATERAL L - 2 PIPELINE RELEASE INCIDENT # NVF1724832528 REMEDIATION PERMIT 3RP - 1061

HARVEST FOUR CORNERS, LLC

PROJECT NO.: TE090321009 DATE: MARCH 21, 2022

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March 21, 2022

New Mexico Energy, Minerals and Natural Resources Department New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

Subject: Revised Stage 1 Abatement Plan

Lateral L - 2 Pipeline Release Incident # NVF1724832528 Remediation Permit 3RP - 1061

To Whom It May Concern:

On behalf of Harvest Four Corners, LLC (Harvest), WSP USA Inc. (WSP) presents the following Revised Stage 1 Abatement Plan (Plan) associated with subsurface hydrocarbon impacts encountered at the Lateral L -2 pipeline release (Site) with Incident # NVF1724832528 and Remediation Permit (RP) # 3RP-1061. This Plan details the site description and background, initial response and assessment activities, site geologic and hydrologic characteristics, excavation activities, and monitoring well installation and sampling activities to-date. The Plan proposes additional monitoring activities and provides a proposed schedule for completion of those activities.

A previous version of a Stage 1 Abatement Plan was submitted to the New Mexico Oil Conservation Division (NMOCD) on December 28, 2018. Due to changing site conditions and a lack of response from the NMOCD regarding acknowledgement of receipt or approval of the preceding Plan, Harvest respectfully requests this current revised Plan replace the previous submittal that has yet to be approved.

Yours sincerely,

Eric Carroll Consultant, Geologist

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Brooke Herb Senior Consultant, Geologist



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1 SITE DESCRIPTION AND BACKGROUND

The Lateral L -2 pipeline release (Site) is located adjacent to Armenta Canyon in the northeast quarter of the southeast quarter of Section 14 of Township 28 North, Range 10 West in San Juan County, New Mexico, approximately 4.8 miles southwest of Blanco (Figure 1). The Site is an active natural gas pipeline operated by Harvest Four Corners, LLC (Harvest), which acquired the pipeline from Williams Four Corners LLC (Williams). On July 20, 2017, a pipeline leak was detected by Williams during a leak survey on the Lateral L-2 pipeline leg adjacent to Armenta Canyon. The pipeline was immediately shut-in and repaired. The release was reported to the New Mexico Oil Conservation Division (NMOCD) by Williams on a Form C-141 *Release Notification and Corrective Action Form* on August 2, 2017.

1.1 REGIONAL GEOLOGY AND HYDROLOGY

The Nacimiento Formation of Tertiary age is exposed in the region, along with Quaternary alluvial and aeolian sands within dry washes and arroyos. Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits, serve as the primary aquifers in the San Juan Basin. In most of the area, the Nacimiento Formation lies at the surface. Thickness of the Nacimiento Formation ranges from 418 feet to 2,232 feet, aquifers within the coarser and continuous sandstone bodies are between 0 feet and 1,000 feet deep in this section of the San Juan Basin (Stone et al., 1983). Groundwater within these aquifers generally flows toward the nearby San Juan River and its tributaries. The Site is approximately 150 feet west of the main channel of Armenta Canyon, a first-order tributary of the San Juan River. Groundwater close to the San Juan River and its major tributaries is shallow, as the Quaternary deposits associated with the San Juan River form shallow aquifers. Groundwater was identified at approximately 6 feet below ground surface (bgs) at the Site.

1.2 LOCAL GEOLOGY AND HYDROLOGY

Based on information obtained during previous subsurface investigations, soil at the Site is characterized as alluvial sand from ground surface to approximately 6 feet bgs. In general, grain size increases with depth. Near the pipeline release (MW-1 and MW-2), organic content in the sand increases, resulting in a black color and decomposed organic odor. The organic deposit was not observed in the other boreholes. Near Armenta Canyon at monitoring wells MW-6 and MW-7, the sand appears to pinch out over a lean, organic-rich clay at approximately 8 feet bgs. The clay was observed in MW-7 and resulted in auger refusal in MW-6. Field screening results from borehole samples and laboratory analysis of a soil sample collected from the sand following excavation indicate impacted soil was removed during pipeline repairs. Borelogs are included as Appendix A.

Groundwater was encountered in the excavation at approximately 6 feet bgs. Once temporary monitoring wells were installed and surveyed, depth to groundwater was measured in all temporary monitoring wells. Groundwater elevations measured during all of the sampling events are included in Table 1. Depth to groundwater ranges from 6.63 feet below top of casing (btoc) (MW-1) to 7.91 feet btoc (MW-2). No free product was detected with the oilwater interface probe during any sampling event. Based on topography, initial data, and regional groundwater trends, the generalized groundwater flow direction appears to be to the northeast, towards Armenta Canyon (Figure 2).

Based on soil texture, the Natural Resources Conservation Service (NRCS) assigns a saturated hydraulic conductivity of 0.004 centimeters per second (cm/sec) to greater than 0.014 cm/sec for sands and coarse sands, which appears to be in alignment with soil conditions near Armenta Canyon. The groundwater flow gradient calculated from the potentiometric surface contours is approximately 0.010 feet per foot (ft/ft).

1.3 LAND AND WATER USE

Land use surrounding the Site consists of natural gas development and undeveloped Bureau of Land Management (BLM) pasture and range land. There are no residences or buildings within 1-mile of the Site. There are no water wells within 1-mile of the Site. The closest permitted water well is SJ 03743, located approximately 1.80 miles to the northwest of the Site with a depth to water of 140 feet and a total depth of 490 feet bgs. The nearest significant watercourse is a first-order tributary to Armenta Canyon approximately 35 feet north of the Site. Armenta Canyon is approximately 150 feet east of the Site (Figure 3). No impact to surface water has been identified.

1.4 INITIAL RESPONSE

Approximately 2,700 cubic feet of soil was excavated during pipeline repairs, which were conducted immediately following release identification in June 2017. The soil surrounding the leak area was suspected of petroleum hydrocarbon impacts due to its dark color and organic odor, but analytical results from initial soil sampling indicated no presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), or chloride. The dark color and organic odor were likely a result of the rich organic material decomposing in the shallow saturated soil on the banks of Armenta Canyon. Analytical results from the initial soil sample are included in Appendix A.

Shallow groundwater infiltrated the repair excavation at approximately 6 feet bgs and the NMOCD requested a groundwater sample be collected. Prior to backfilling the excavated area, a section of 0.01-inch slotted 2-inch diameter polyvinyl chloride (PVC) pipe was installed using a backhoe into the native saturated soil at approximately 7 feet bgs as a temporary groundwater collection point (MW-1). The temporary monitoring well was installed to a total depth beneath the depth of the pipeline at approximately 4 feet bgs. The native soil surrounding the temporary monitoring well consisted of a fine, silty sand that allows for groundwater infiltration into the slotted PVC pipe. The location of the excavation and MW-1 are depicted on Figure 2.

1.5 INITIAL REMEDIATION ACTIVITIES

On October 20, 2017, WSP (formerly LT Environmental, Inc.) personnel were on site to collect a grab sample of the groundwater from MW-1, (sample name Lat L-2) in the presence of NMOCD personnel. Laboratory analytical results indicated the groundwater sample contained a concentration of 39 micrograms per liter (μ g/L) of benzene and 4.3 μ g/L of toluene. Ethylbenzene or total xylenes were not detected in groundwater at concentrations above the laboratory reporting limits. Due to the elevated benzene concentration, which exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard of 10 μ g/L (and currently standard of 5 μ g/L), the NMOCD requested Williams conduct additional groundwater sampling to laterally define the extent of impact to groundwater. Williams proposed installing additional temporary groundwater monitoring wells within the existing pipeline right-of-way prior to requesting additional surface access from the BLM in an effort to expedite the groundwater delineation events.

2 GROUNDWATER SITE INVESTIGATION

2.1 TEMPORARY MONITORING WELL INSTALLATION

On January 31, 2018, a subsurface soil investigation was conducted via hand auger and four additional temporary monitoring wells (MW-2, MW-3, MW-4, and MW-5) were installed into the exploratory boreholes for further groundwater investigation. A WSP geologist observed an unconsolidated medium-grained light brown sand from the ground surface to approximately 4 feet bgs. Dark, organic material was encountered in the soil vadose zone at approximately 4 feet to 7 feet bgs. Samples collected from this material were field screened with a photo-ionization detector (PID) every 2 feet. Field screening results indicated subsurface soil samples did not exceed 100 parts per million (ppm) for volatile aromatic hydrocarbons; therefore, no soil samples were submitted for laboratory analysis. The boreholes were completed as temporary groundwater monitoring points by clearing any remaining soil cuttings and advancing the hand auger as deep into the groundwater table as possible before the saturated sidewalls composed of sand collapsed. A 1-inch diameter 0.01-inch slotted PVC pipe with a silica sand pre-pack filter around the screened interval was installed in the open borehole. The annulus between the riser and borehole was backfilled with native material. Groundwater was observed at approximately 6 feet bgs. Soil boring and temporary monitoring well installation/completion boring logs are included as Appendix B.

On February 7, 2018, WSP personnel were on site to develop and purge the four new temporary monitoring wells prior to sampling. Depth to groundwater was measured in each well and a total purge volume of 10 well casing volumes was calculated. Purge water was collected using a peristaltic pump and dedicated tubing until 10 well casing volumes were removed or the well ran dry. Purge water was collected and disposed of at a nearby Williams gathering facility.

2.2 GROUNDWATER SAMPLING

On March 8, 2018, WSP personnel were on site to sample groundwater from temporary monitoring wells MW-1 through MW-5. Prior to sampling, depth to groundwater and the total depth of the monitoring wells were measured using a Keck oil/water interface probe. The depth to water and the total depth of each monitoring well were used to calculate three well casing volumes to be purged from each monitoring well. The Keck oil/water interface probe was decontaminated with Alconox[™] soap and rinsed with distilled water prior to each measurement to prevent cross contamination.

As groundwater was purged from the monitoring wells, field parameters including pH, electrical conductivity (EC), and temperature were recorded. Purging continued until three well casing volumes were removed or the parameters stabilized indicating the purge water was representative of existing aquifer conditions, or the well flowed dry. Stabilization was defined as three consecutive stable readings for each water parameter (plus or minus $[\pm]$ 0.4 units for pH, \pm 10 percent (%) for EC, and \pm 2 degrees $[\circ]$ Celsius for temperature). Once each monitoring well was properly purged, groundwater samples were collected in the appropriate sample bottles.

Groundwater samples were labeled with the date and time of sample collection, well designation, project name, collector's name, and parameters to be analyzed and were immediately sealed and stored on ice. The samples were hand delivered to Hall Environmental Analysis Laboratory (Hall) of Albuquerque, New Mexico, for analysis volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260. Samples were maintained under strict chain-of-custody (COC) protocol documenting the date and time of sample collection, time and date of sample transfer, sample designation, type of sample, sampler's name, applicable preservative, and analyses required. Signatures of the sampler, courier, and laboratory are included to document the custody transfer. A blind field duplicate sample, MW-A, was collected from monitoring well MW-5.

2.3 ADDITIONAL MONITORING WELL INSTALLATION

On April 27, 2018, WSP personnel returned to the Site to conduct groundwater monitoring on existing temporary monitoring wells and to install two additional temporary monitoring wells (MW-6 and MW-7) via hand auger into exploratory boreholes for further groundwater investigation. Light brown sand and the presence of an underlying

lean clay were encountered in the soil vadose zone and samples collected from this material were screened with a PID. No field screening results of volatile aromatic hydrocarbons exceeded 100 ppm, therefore no soil samples were submitted for laboratory analysis. The open boreholes were completed as temporary groundwater monitoring points in the same manner as previously described. A self-leveling laser level was used on the top of casing and a Trimble global positioning system (GPS) to survey each temporary monitoring well. Soil boring and temporary monitoring well installation completion logs are included in Appendix B. The location of all temporary monitoring wells is shown on Figure 2.

2.4 ADDITIONAL DELINEATION

On December 9, 2021, the BLM – Farmington Field Office sent an email approval for installing and sampling four hydropunch points, which are manually driven temporary stainless-steel piezometers used in shallow groundwater zones, located outside of the existing Harvest pipeline right-of-way, per casual use as defined in Part 43 of the Code of Federal Regulations (CFR) 2804.9. On January 12, 2022, WSP personnel returned to the Site for additional delineation of groundwater impacts outside of the pipeline right-of-way. The hydropunch points were used to collect samples. The hydropunch points were installed using a hollow stem auger (HSA) with a 14-inch mesh screen attached that is driven from ground surface to the shallow groundwater table. Groundwater is then sampled with a peristaltic pump and disposable poly tubing through the HSA and screen assembly. The hydropunch is removed after sampling and decontaminated thoroughly between borehole locations. Hydropunch boring locations HP01 and HP04 were collected adjacent to MW-1 and MW-4, respectively. The four hydropunch boring locations were collected outside of the pipeline right-of-way to delineate previous impacts identified in monitoring wells MW-2 and MW-5. Hydropunch locations are depicted on Figure 2.

Groundwater samples were collected by low-flow sampling methods with a peristaltic pump. As water was removed from the monitoring well groundwater was monitored for pH, EC, and temperature. Monitoring wells were purged until groundwater parameters in each well stabilized as described in prior sections or until the well bailed dry. Groundwater samples were collected and sent to Hall as described in previous sections.

2.5 ANALYTICAL RESULTS

Laboratory analytical results from the initial groundwater sampling event in October 2017 from monitoring well MW-01 indicated elevated benzene concentration of 39 μ g/L in groundwater within the excavation. Subsequent sampling events had elevated concentrations of benzene in monitoring wells MW-1 and MW-5 in March 2018, and monitoring wells MW-1, MW-2, and MW-5 in April 2018 and December 2019. Laboratory analytical data is presented in Table 2.

Laboratory analytical results from the sampling event conducted in March 2018 indicated benzene concentrations of $18 \mu g/L$ and $210 \mu g/L$ in monitoring wells MW-1 and MW-5, respectively. No other analytes or monitoring wells exceeded the NMWQCC standards. Due to benzene concentrations exceeding the NMWQCC standard, the NMOCD requested Williams conduct additional monitoring well installation and groundwater sampling to laterally define the extent of impact to groundwater. Williams proposed additional temporary monitoring wells be installed within the existing pipeline right-of-way due to issues getting surface access from the BLM.

Laboratory analytical results from April 27, 2018, indicated all VOC concentrations in temporary monitoring wells MW-3, MW-4, MW-6, and MW-7 were below laboratory detection limits or compliant with the NMWQCC groundwater standards. The benzene concentration in temporary monitoring wells MW-1, MW-2, and MW-5 exceeded the NMWQCC standard of 5 μ g/L of benzene with concentrations of 200 μ g/L, 170 μ g/L, and 190 μ g/L, respectively. Sample MW-A had a concentration of 200 μ g/L as a blind field duplicate for temporary monitoring well MW-5, which is within 5 % error.

The groundwater sampling events were submitted to the NMOCD in a Stage 1 Abatement Plan on December 28, 2018; however, no response was received from the NMOCD to approve or acknowledge the Stage 1 Abatement Plan within 60 days of submittal per Title 19, Chapter 15, Part 30, Section 16 (19.15.30.16) of the New Mexico Administrative Code (NMAC).

A subsequent groundwater sampling event in December 2021 was conducted to monitor groundwater impact concentrations and determine if impacts were migrating. Laboratory analytical results during the December 2021 groundwater sampling event indicated benzene concentrations in MW-2, MW-3, MW-5, MW-6, and MW-7 did not

exceed the NMWQCC standard. All samples collected during the December 2021 sampling event were below laboratory reporting limits. Samples were not collected from MW-1 and MW-4 during the December 2021 sampling event due to damage to the wells.

Harvest received approval per casual use from the BLM and opted to conduct another monitoring event and proceed with additional delineation even though NMOCD had not commented on the Stage 1 Abatement Plan. In January 2022, groundwater samples HP01 through HP06 were collected with hydropunch points. Laboratory analytical results for all samples were below the laboratory detection limit and in compliance with NMWQCC standards. The groundwater analytical results for the December 2021 and January 2022 sampling events as compared to the NMWQCC standards are presented on Figure 2 and summarized in Table 2. The laboratory analytical reports are included in Appendix A.

2.6 CONCLUSIONS

Soil excavated from the area of the July 20217 release remediated the majority of impacts to soil and minimized additional vertical migration of petroleum hydrocarbons to impact groundwater to a greater extent. This is evident by the initial excavation soil analytical results and no PID readings above 100 ppm all boreholes during the installation of temporary monitoring wells. Previously observed elevated benzene concentrations in groundwater have since diminished to below NMWQCC standards. Therefore, continued quarterly groundwater monitoring until eight consecutive quarters of compliance with NMWQCC standards are achieved in lieu of submitting a Stage 2 Abatement Plan appears to be the appropriate path toward Site closure. As no impacts to groundwater currently exist, a remediation proposal does not appear necessary at this time. If contaminant concentrations rebound and exceed NMWQCC standards, a remediation alternative may be proposed in a Stage 2 Abatement Plan per NMAC 19.15.30.

2.7 QUALITY ASSURANCE

Sampling and analytical techniques have been identified in the text above and conform with the references identified in Subsection B of 20.6.2.3107 NMAC and with 20.6.4.14 NMAC of the water quality standards for interstate and intrastate surface waters in New Mexico.

3 RECOMMENDATIONS

3.1 PROPOSED GROUNDWATER MONITORING

WSP proposes quarterly groundwater monitoring at the Site beginning within 60 days of receipt of approval from the NMOCD of this Revised Stage 1 Abatement Plan. Fluid-level measurements will be monitored in all temporary monitoring wells using an oil/water interface probe. Each well will be purged of three well casing volumes or until the well is purged dry. Temporary monitoring wells containing sufficient groundwater will be sampled and submitted for laboratory analysis of BTEX by USEPA 8021.

3.2 PROPOSED SCHEDULE

WSP will continue groundwater sampling the Site on a quarterly basis until eight consecutive quarters of compliance with NMWQCC standards is achieved. If impacts to groundwater exceeding NMWQCC standards are observed consistently (subsequent quarterly events with concentrations exceeding NMWQCC standards by 10 %), a Stage 2 Abatement Plan with remediation options for review from the NMOCD will be submitted.

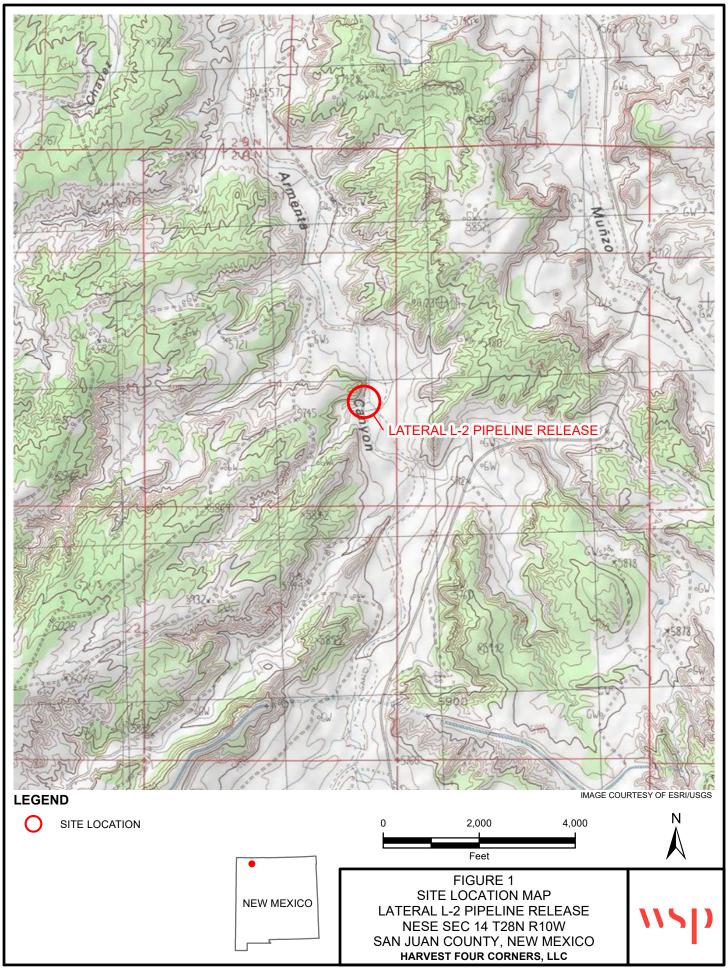
WSP appreciates the opportunity to provide this report to the NMOCD. If you have any questions or comments regarding this Revised Stage 1 Abatement Plan, do not hesitate to contact Ms. Brooke Herb at (970) 385-1096 or via email at brooke.herb@WSP.com or Ms. Monica Smith at (505)-632-4475 or via email at msmith@harvestmidstream.com.

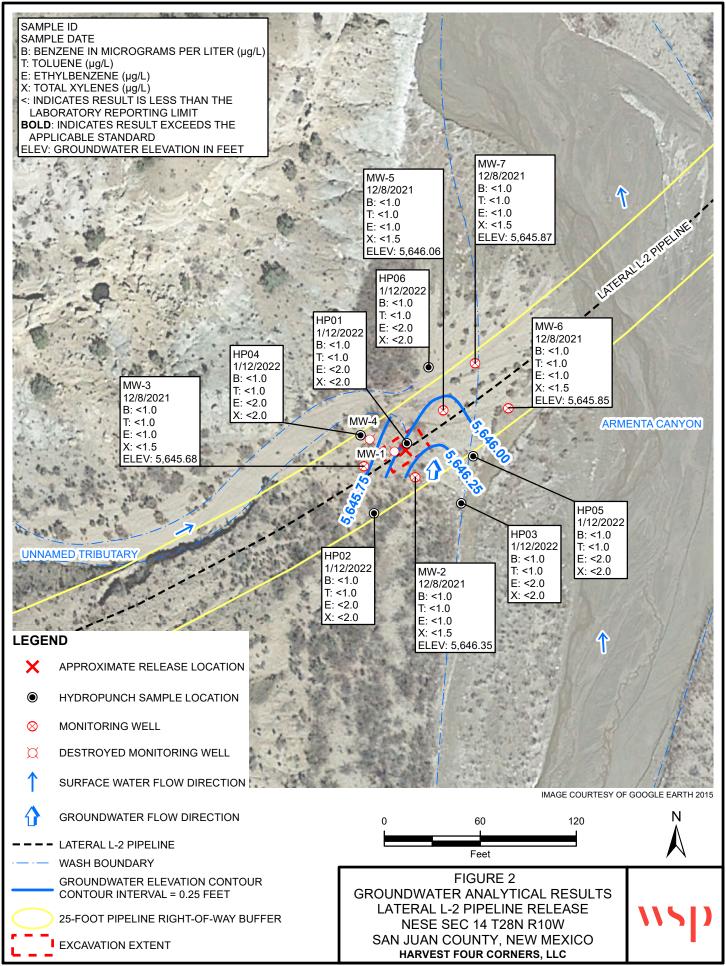
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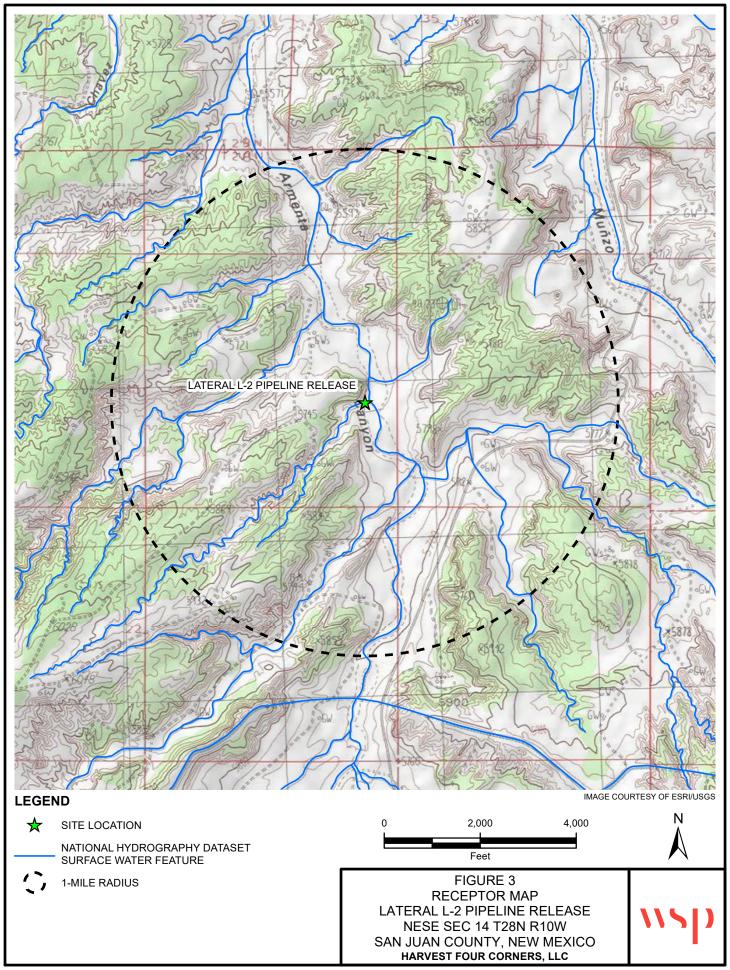
 Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

FIGURES

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TABLES

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TABLE 1 GROUNDWATER ELEVATION SUMMARY

LATERAL L-2 PIPELINE RELEASE SAN JUAN COUNTY, NEW MEXICO HARVEST FOUR CORNERS, LLC

Well Name	Date	Top of Casing Elevation (feet)	Total Depth (feet BTOC)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
	10/20/2017		9.08	7.10	5,646.22
	1/31/2018		9.08	6.65	5,646.67
MW-1	3/8/2018	5,653.32	9.05	6.60	5,646.72
IVI VV - I	4/27/2018	3,033.32	9.05	6.63	5,646.69
	12/17/2019		9.00	7.85	5,645.47
	12/8/2021		Dest.	Dest.	Dest.
	1/31/2017		10.18	7.00	5,647.53
	3/8/2018		10.18	7.00	5,647.53
MW-2	4/27/2018	5,654.53	10.19	7.91	5,646.62
	12/17/2019		10.19	8.97	5,645.56
	12/8/2021		10.15	8.18	5,646.35
	3/8/2018		10.18	7.71	5,646.10
MW-3	4/27/2018	5,653.81	10.19	7.09	5,646.72
IVI VV -3	12/17/2019	3,033.81	10.19	8.22	5,645.59
	12/8/2021		10.15	8.13	5,645.68
	3/8/2018		10.15	7.58	5,646.84
MW-4	4/27/2018	5,654.42	10.18	7.81	5,646.61
IVI VV -4	12/17/2019	3,034.42	10.15	8.90	5,645.52
	12/8/2021		Dest.	Dest.	Dest.
	3/8/2018		10.15	7.70	5,646.32
MW-5	4/27/2018	5,654.02	10.17	7.75	5,646.27
1V1 VV -3	12/17/2019	3,034.02	10.15	8.65	5,645.37
	12/8/2021		10.15	7.96	5,646.06
	4/27/2018		10.18	7.42	5,646.11
MW-6	12/17/2019	5,653.53	10.17	8.35	5,645.18
	12/8/2021		10.15	7.68	5,645.85
	4/27/2018		10.18	7.42	5,646.11
MW-7	12/17/2019	5,653.53	10.15	8.35	5,645.18
	12/8/2021		10.15	7.66	5,645.87

Notes:

BTOC - below top of casing

Dest. - Destroyed

WSP 1 of 1

TABLE 2 GROUNDWATER LABORATORY ANALYTICAL RESULTS

LATERAL L-2 PIPELINE RELEASE SAN JUAN COUNTY, NEW MEXICO HARVEST FOUR CORNERS LLC

Well Name	Sample Date	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	Total BTEX (μg/L)
	10/20/2017	39	4.3	<2.5	<5.0	43.3
	3/8/2018	18	<1.0	<1.0	<1.5	18
MW-1	4/27/2018	200	<1.0	5.2	8.7	213.9
	12/17/2019	260	12	12	87	371
HP01	1/12/2022	<1.0	<1.0	<10	<2.0	<2.0
	3/8/2018	<1.0	<1.0	<1.0	<1.5	<1.5
) av o	4/27/2018	170	33	11	76	290
MW-2	12/17/2019	230	<1.0	1.4	11	242.4
	12/8/2021	<1.0	<1.0	<1.0	<1.5	<1.5
	3/8/2018	<1.0	<1.0	<1.0	<1.5	<1.5
N 677/ 2	4/27/2018	<1.0	<1.0	<1.0	<1.5	<1.5
MW-3	12/17/2019	<1.0	<1.0	<1.0	<2.0	< 2.0
	12/8/2021	<1.0	<1.0	<1.0	<1.5	<1.5
	3/8/2018	1.6	<1.0	<1.0	5.4	7.0
MW-4	4/27/2018	<1.0	<1.0	<1.0	<1.5	<1.5
	12/17/2019	3.6	<1.0	<1.0	< 2.0	3.6
HP04	1/12/2022	<1.0	<1.0	<1.0	<2.0	<2.0
	3/8/2018	210	110	2.7	70	392.7
MW-5	4/27/2018	190	<1.0	5.7	9.1	204.8
IVI VV -3	12/17/2019	140	1.1	<1.0	7.7	148.8
	12/8/2021	<1.0	<1.0	<1.0	<1.5	<1.5
	4/27/2018	<1.0	<1.0	<1.0	<1.5	<1.5
MW-6	12/17/2019	<1.0	<1.0	<1.0	< 2.0	< 2.0
	12/8/2021	<1.0	<1.0	<1.0	<1.5	<1.5
	4/27/2018	<1.0	<1.0	<1.0	<1.5	<1.5
MW-7	12/17/2019	<1.0	<1.0	<1.0	<2.0	< 2.0
	12/8/2021	<1.0	<1.0	<1.0	<1.5	<1.5
MW-A	3/8/2018	210	120	3.7	69	402.7
1V1 VV -A	4/27/2018	200	<1.0	6.0	9.4	215.4

TABLE 2 GROUNDWATER LABORATORY ANALYTICAL RESULTS

LATERAL L-2 PIPELINE RELEASE SAN JUAN COUNTY, NEW MEXICO HARVEST FOUR CORNERS LLC

Well Name	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	Total BTEX (μg/L)
HP02	1/12/2022	<1.0	<1.0	<1.0	<2.0	<2.0
HP03	1/12/2022	<1.0	<1.0	<1.0	<2.0	<2.0
HP05	1/12/2022	<1.0	<1.0	<1.0	<2.0	<2.0
HP06	1/12/2022	<1.0	<1.0	<1.0	<2.0	<2.0
NMWQC	C Standard	5	1,000	700	620	NA

Notes:

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes

μg/L - microgram per liter

NA - Not applicable

NMWQCC - New Mexico Water Quality Control Commission

< - indicates result is below laboratory reporting limit

BOLD indicates result exceeds applicable standard

"MW-A" used as blind field duplicate for monitoring well MW-5

APPENDIX A: LABORATORY ANALYTICAL REPORTS



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

August 01, 2017

Kijun Hong Williams Four Corners 188 CR 4900 Bloomfield, NM 87413

TEL: (505) 632-4442

FAX

RE: Lat L-2 OrderNo.: 1707E89

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/29/2017 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1707E89

Date Reported: 8/1/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: Lat L-2 Sidewalls

 Project:
 Lat L-2
 Collection Date: 7/27/2017 3:45:00 PM

 Lab ID:
 1707E89-001
 Matrix: MEOH (SOIL)
 Received Date: 7/29/2017 9:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	30	mg/Kg	20	7/31/2017 12:02:02 PM	1 33090
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/31/2017 10:12:15 AN	1 33085
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/31/2017 10:12:15 AM	1 33085
Surr: DNOP	92.5	70-130	%Rec	1	7/31/2017 10:12:15 AN	1 33085
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	7/31/2017 11:57:11 AN	1 G44614
Surr: BFB	104	54-150	%Rec	1	7/31/2017 11:57:11 AN	1 G44614
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.016	mg/Kg	1	7/31/2017 11:57:11 AN	1 B44614
Toluene	ND	0.033	mg/Kg	1	7/31/2017 11:57:11 AN	1 B44614
Ethylbenzene	ND	0.033	mg/Kg	1	7/31/2017 11:57:11 AN	1 B44614
Xylenes, Total	ND	0.066	mg/Kg	1	7/31/2017 11:57:11 AN	1 B44614
Surr: 4-Bromofluorobenzene	113	66.6-132	%Rec	1	7/31/2017 11:57:11 AN	1 B44614

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1707E89 01-Aug-17

Client: Williams Four Corners

Project: Lat L-2

Sample ID MB-33090 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 33090 RunNo: 44609

Units: mg/Kg Prep Date: 7/31/2017 Analysis Date: 7/31/2017 SeqNo: 1411294

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

Chloride ND 1.5

Sample ID LCS-33090 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 33090 RunNo: 44609

Prep Date: 7/31/2017 Analysis Date: 7/31/2017 SeqNo: 1411295 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.3 110

Qualifiers:

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

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

01-Aug-17

1707E89

WO#:

Client: Williams Four Corners

Project: Lat L-2

Sample ID LCS-33085 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS Batch ID: 33085 RunNo: 44603

Prep Date: 7/31/2017 Analysis Date: 7/31/2017 SeqNo: 1409986 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 O 78.5 39 50.00 73.2 114

Surr: DNOP 3.6 5.000 73.0 70 130

Sample ID MB-33085 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 33085 RunNo: 44603

Prep Date: 7/31/2017 Analysis Date: 7/31/2017 SeqNo: 1409987 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 7.6 10.00 76.4 70 130

Sample ID LCS-33075 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 33075 RunNo: 44604

Prep Date: 7/28/2017 Analysis Date: 7/31/2017 SeqNo: 1410830 Units: %Rec

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

 Surr: DNOP
 4.4
 5.000
 87.2
 70
 130

Sample ID MB-33075 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 33075 RunNo: 44604

Prep Date: 7/28/2017 Analysis Date: 7/31/2017 SeqNo: 1410831 Units: %Rec

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

Surr: DNOP 8.5 10.00 85.3 70 130

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707E89** *01-Aug-17*

Page 4 of 5

Client: Williams Four Corners

Project: Lat L-2

Sample ID RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G44614 RunNo: 44614

Prep Date: Analysis Date: 7/31/2017 SeqNo: 1410728 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 104 54 150

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

Client ID: LCSS Batch ID: G44614 RunNo: 44614

Prep Date: Analysis Date: 7/31/2017 SeqNo: 1410729 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 24
 5.0
 25.00
 0
 95.2
 76.4
 125

 Surr: BFB
 1100
 1000
 113
 54
 150

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1707E89

Page 5 of 5

01-Aug-17

Client: Williams Four Corners

Project: Lat L-2

Sample ID RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles **PBS** Client ID: Batch ID: **B44614** RunNo: 44614 Prep Date: Analysis Date: 7/31/2017 SeqNo: 1410736 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 ND 0.050 ND 0.050

Toluene Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.2 1.000 115 66.6 132

Sample ID 100NG BTEX LC	Samp	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batc	Batch ID: B44614 RunNo: 44614									
Prep Date: Analysis Date: 7/31/2017					SeqNo: 1410737			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.90	0.025	1.000	0	90.3	80	120				
Toluene	0.90	0.050	1.000	0	90.0	80	120				
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120				
Xylenes, Total	2.8	0.10	3.000	0	93.6	80	120				
Surr: 4-Bromofluorobenzene	1.2		1.000		120	66.6	132				

Qualifiers:

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

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3075 FAY: 505-345-4107

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

Sample Log-In Check List

Client Name:	WILLIAMS FOUR CORN	Work Order Number:	1707E89		RcptNo:	1
Received By:	Ashley Gallegos	7/29/2017 9:35:00 AM		A		
Completed By:	Ashley Gallegos	7/30/2017 2:49:47 PM		A		
Reviewed By:	TO	7/31/17		V		
Chain of Cus	stody					
1. Custody sea	als intact on sample bottles?	?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of C	Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the	e sample delivered?		Courier			
<u>Log In</u>						
4. Was an atte	empt made to cool the samp	ples?	Yes 🗹	No 🗆	na 🗆	
5. Were all sar	mples received at a tempera	ature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗀	
6. Sample(s) i	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sa	ample volume for indicated t	est(s)?	Yes 🗸	No 🗆		
8. Are samples	s (except VOA and ONG) pr	operly preserved?	Yes 🗹	No 🗀		
9. Was preserv	vative added to bottles?		Yes 🗌	No 🗹	NA \square	
10.VOA vials h	ave zero headspace?		Yes 🔲	No 🗆	No VOA Vials 🗹	
11. Were any s	ample containers received t	oroken?	Yes	No 🗹	# of preserved	
	work match bottle labels?	n	Yes 🗸	No 🗆	bottles checked for pH: (<2 o	r >12 unless noted)
·	s correctly identified on Cha	•	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear wh	nat analyses were requested	1?	Yes 🗹	No 🗌		
	ding times able to be met? customer for authorization.)	Yes 🗹	No 🗆	Checked by:	
Special Hand	lling (if applicable)					
	notified of all discrepancies v	with this order?	Yes 🗌	No 🗆	NA 🗹	
Persoi	n Notified:	Date				
By Wh		Via: [🗌 eMail 📗	Phone 🗌 Fax	In Person	
Regar						
Client	Instructions:]
17. Additional re	emarks:					
18. <u>Cooler Info</u> Cooler No.		Seal Intact Seal No S	Seal Date	Signed By		
Page 1 o			···	<u></u> ,,		

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	Fee	-001 X X X 100-		Date Time Remarks: $728/\rho_1 = 7: \text{@}_{A_1}$ Date Time $1 / 28/\rho_1 = 8: \text{Outsign bossibility. Any sub-contracted data will be clearly notated on the analytical report.}$
Client: $\protect\ \protect\ \prote$	ix ther	3:45 207-1 51252515 1-402		Date: Time: Relinquished by: Date: Time: Relinquistred by: Received by: My Xulu. Received by: R



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

November 01, 2017

Danny Burns Williams Four Corners 188 CR 4900 Bloomfield, NM 87413

TEL: (505) 632-4442

FAX

RE: Lateral L 2 OrderNo.: 1710B82

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/21/2017 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **1710B82**

Date Reported: 11/1/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: Lat L-2

 Project:
 Lateral L 2
 Collection Date: 10/20/2017 10:00:00 AM

 Lab ID:
 1710B82-001
 Matrix: AQUEOUS
 Received Date: 10/21/2017 11:15:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SH	ORT LIST					Analys	t: RAA
Benzene	39	2.5	D	μg/L	5	10/30/2017 1:01:00 PM	1 SL46753
Toluene	4.3	2.5	D	μg/L	5	10/30/2017 1:01:00 PM	M SL46753
Ethylbenzene	ND	2.5	D	μg/L	5	10/30/2017 1:01:00 PM	M SL46753
Xylenes, Total	ND	5.0	D	μg/L	5	10/30/2017 1:01:00 PM	M SL46753
Surr: 1,2-Dichloroethane-d4	103	70-130	D	%Rec	5	10/30/2017 1:01:00 PM	1 SL46753
Surr: 4-Bromofluorobenzene	101	70-130	D	%Rec	5	10/30/2017 1:01:00 PM	M SL46753
Surr: Dibromofluoromethane	103	70-130	D	%Rec	5	10/30/2017 1:01:00 PM	M SL46753
Surr: Toluene-d8	99.7	70-130	D	%Rec	5	10/30/2017 1:01:00 PM	1 SL46753

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1710B82** *01-Nov-17*

Client: Williams Four Corners

Project: Lateral L 2

Sample ID rb	SampT	TestCode: EPA Method 8260: Volatiles Short List									
Client ID: PBW	Batch	ı ID: SL	.46694	R	RunNo: 4	6694					
Prep Date: Analysis Date: 10/27/2017					SeqNo: 1487911			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130				
Surr: 4-Bromofluorobenzene	9.9		10.00		98.9	70	130				
Surr: Dibromofluoromethane	10		10.00		102	70	130				
Surr: Toluene-d8	10		10.00		100	70	130				

Sample ID 100ng Ics	SampT	SampType: LCS TestCode: EPA Method 8260: Volatiles Short List								
Client ID: LCSW	Batch	ID: SL	46753	F	RunNo: 46753					
Prep Date:	Analysis Date: 10/30/2017			9	SeqNo: 1	489945	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.8	70	130			
Toluene	19	1.0	20.00	0	92.6	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Sample ID RB	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8260: Volatile	es Short L	_ist	
Client ID: PBW	Batch ID: SL46753			F	RunNo: 4	6753				
Prep Date:	Analysis Date: 10/30/2017		9	SeqNo: 1490338			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.5	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

Qualifiers:

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

quantitation range

Page 2 of 2

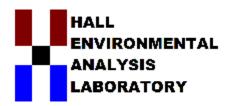


Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	WILLIAMS FO	OUR CORN	Work C	rder Numi	ber: 1710	B82			Rcpt	tNo:	1
Received By:	John Caldwe	ell	10/21/201	7 11:15:0	0 AM		John	Cllur	U		
Completed By:	Erin Melendi	rez	10/23/201	7 9:56:47	'AM		Glan Und	4	5 *		
Reviewed By:	JU 10:	23.17 Q	134	7			·				
Chain of Cus	stody										
1. Custody sea	als intact on sam	ple bottles?			Yes		No		Not Present	✓	
2. Is Chain of	Custody complet	te?			Yes	~	No		Not Present		
3. How was th	e sample deliver	red?			Cou	<u>ier</u>					
Log In											
4. Was an atte	empt made to co	ool the samples?			Yes	✓	No		NA		
5. Were all sa	mples received a	at a temperature	of >0°C1	o 6.0°C	Yes	✓	No		NA [
6. Sample(s) i	in proper contain	er(s)?			Yes	✓	No				
7. Sufficient sa	ample volume for	r indicated test(s)	?		Yes	V	No				
		nd ONG) properly		d?	Yes	V	No				
	vative added to b		, ,		Yes		No	~	NA		
10.VOA vials h	ave zero headsp	ace?			Yes		No		No VOA Vials	✓	
		s received broke	1?		Yes		No	V			
	work match bottl				Yes	✓	No		# of preserved bottles checked for pH:		>12 unless noted)
•		fied on Chain of (Custody?		Yes	✓	No		Adjusted ^a		
	hat analyses wer		•		Yes	Y	No				
	ding times able to customer for au				Yes	V	No		Checked I	by:	
Special Hand	dling (if appli	icable)									
16. Was client r	notified of all disc	crepancies with th	nis order?		Yes		No		NA	✓	
Perso	n Notified:		Elektronium kontronom en er	Date	:		wance,e.p.comman.	erometer.			
By Wi	hom:	enco no scopende ago no epotamo ago no esperio e e e e e e e e e e e e e e e e e e e	FLAGGER OFFI STATE OF THE STATE	Via:	☐ eMa	ail _	Phone [] Fax	In Person		
Regar	ding:									2000	
Client	Instructions:										
17. Additional r	emarks:										
18. Cooler Info					r						
Cooler N		-	al Intact	Seal No	Seal Da	ate	Signed	Ву			
[1	3.0	Good Not	Present			,					
Page 1 o	of 1			<u> </u>							

	HALL ENVIRONMENTAL ANALYSIS LABORATORY	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	([†] OS	S'⁵Od	(1.40) 8 0728 1.50N.e ⁶ 2808 \ (4	d 500 h	DEB (Metho EDB (Metho PCRA 8 Met RCRA 8 Met Anions (F,Cl 8081 Pestici 8260B (VOA 8270 (Semi-							Date Time Remarks: Lighterns at tendicon direct Date Time Commissed tendicons williams and the serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	
		■ 901 Hav	el. 505-				O / DE	AÐ)	83108 H9T							S:	
		94					1	_	тм +(хэтв) этм + хэтв	X				- -		Remarks:	
Turn-Around Time:	X Standard □ Rush	Project Name: Leteval L-2	Project #:			Danny BULLIS	Sampler: Josh Adams On toe: Kites In No	emperature: 2.1// (ative HEAL No.							inved by: If I I I I I I I I I I I I I I I I I I	Malwed
Chain-of-Custody Record		Mailing Address: 175 April Drive	eld, NM 87413		Kijun. Hong Quilliams.com	QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)	n Other	□ EDD (Type)	Matrix Sample Request ID	10-20-17 1000 6W LON. L.Z		,				C Environmental may be subdo	(oholin 2047) Cholin 2040)



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

March 15, 2018

Danny Burns

LTE

848 East 2nd Avenue

Durango, CO 81301

TEL: (970) 946-1093

FAX

RE: Lateral L2 OrderNo.: 1803516

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/9/2018 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **1803516**

Date Reported: 3/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE Client Sample ID: MW-1

 Project:
 Lateral L2
 Collection Date: 3/8/2018 1:05:00 PM

 Lab ID:
 1803516-001
 Matrix: AQUEOUS
 Received Date: 3/9/2018 7:35:00 AM

Analyses	Result	Result PQL Qual Units		DF	Date Analyzed		
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst: AG		
Benzene	18	1.0	μg/L	1	3/13/2018 12:05:10 PM		
Toluene	ND	1.0	μg/L	1	3/13/2018 12:05:10 PM		
Ethylbenzene	ND	1.0	μg/L	1	3/13/2018 12:05:10 PM		
Xylenes, Total	ND	1.5	μg/L	1	3/13/2018 12:05:10 PM		
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	3/13/2018 12:05:10 PM		
Surr: Toluene-d8	91.8	70-130	%Rec	1	3/13/2018 12:05:10 PM		

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE Client Sample ID: MW-2

 Project:
 Lateral L2
 Collection Date: 3/8/2018 11:35:00 AM

 Lab ID:
 1803516-002
 Matrix: AQUEOUS
 Received Date: 3/9/2018 7:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst: AG
Benzene	ND	1.0	μg/L	1	3/13/2018 8:52:50 PM
Toluene	ND	1.0	μg/L	1	3/13/2018 8:52:50 PM
Ethylbenzene	ND	1.0	μg/L	1	3/13/2018 8:52:50 PM
Xylenes, Total	ND	1.5	μg/L	1	3/13/2018 8:52:50 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	3/13/2018 8:52:50 PM
Surr: Toluene-d8	93.5	70-130	%Rec	1	3/13/2018 8:52:50 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE Client Sample ID: MW-3

 Project:
 Lateral L2
 Collection Date: 3/8/2018 12:25:00 PM

 Lab ID:
 1803516-003
 Matrix: AQUEOUS
 Received Date: 3/9/2018 7:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst: AG
Benzene	ND	1.0	μg/L	1	3/13/2018 9:15:45 PM
Toluene	ND	1.0	μg/L	1	3/13/2018 9:15:45 PM
Ethylbenzene	ND	1.0	μg/L	1	3/13/2018 9:15:45 PM
Xylenes, Total	ND	1.5	μg/L	1	3/13/2018 9:15:45 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	3/13/2018 9:15:45 PM
Surr: Toluene-d8	92.7	70-130	%Rec	1	3/13/2018 9:15:45 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE Client Sample ID: MW-4

 Project:
 Lateral L2
 Collection Date: 3/8/2018 2:00:00 PM

 Lab ID:
 1803516-004
 Matrix: AQUEOUS
 Received Date: 3/9/2018 7:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst: AG
Benzene	1.6	1.0	μg/L	1	3/13/2018 9:38:40 PM
Toluene	ND	1.0	μg/L	1	3/13/2018 9:38:40 PM
Ethylbenzene	ND	1.0	μg/L	1	3/13/2018 9:38:40 PM
Xylenes, Total	5.4	1.5	μg/L	1	3/13/2018 9:38:40 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	3/13/2018 9:38:40 PM
Surr: Toluene-d8	92.9	70-130	%Rec	1	3/13/2018 9:38:40 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE Client Sample ID: MW-5

 Project:
 Lateral L2
 Collection Date: 3/8/2018 1:30:00 PM

 Lab ID:
 1803516-005
 Matrix: AQUEOUS
 Received Date: 3/9/2018 7:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst: AG
Benzene	210	10	μg/L	10	3/14/2018 12:52:06 PM
Toluene	110	10	μg/L	10	3/14/2018 12:52:06 PM
Ethylbenzene	2.7	1.0	μg/L	1	3/13/2018 10:01:32 PM
Xylenes, Total	70	1.5	μg/L	1	3/13/2018 10:01:32 PM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	3/13/2018 10:01:32 PM
Surr: Toluene-d8	94.6	70-130	%Rec	1	3/13/2018 10:01:32 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 3/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE Client Sample ID: MW-A

 Project:
 Lateral L2
 Collection Date: 3/8/2018 1:40:00 PM

 Lab ID:
 1803516-006
 Matrix: AQUEOUS
 Received Date: 3/9/2018 7:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst: AG
Benzene	210	10	μg/L	10	3/14/2018 1:15:05 PM
Toluene	120	10	μg/L	10	3/14/2018 1:15:05 PM
Ethylbenzene	3.7	1.0	μg/L	1	3/13/2018 10:24:29 PM
Xylenes, Total	69	1.5	μg/L	1	3/13/2018 10:24:29 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	3/13/2018 10:24:29 PM
Surr: Toluene-d8	92.3	70-130	%Rec	1	3/13/2018 10:24:29 PM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803516**

15-Mar-18

Client: LTE
Project: Lateral L2

Sample ID 100ng Ics Client ID: BatchQC	SampType: LCS4 TestCode: EPA Method 8 Batch ID: W49754 RunNo: 49754						8260: Volatile	es Short L	ist	
Prep Date:	Analysis D	ate: 3/	13/2018	S	SeqNo: 1	610246	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.9	80	120			
Toluene	19	1.0	20.00	0	97.4	80	120			
Ethylbenzene	19	1.0	20.00	0	96.2	80	120			
Xylenes, Total	60	1.5	60.00	0	99.6	80	120			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.1	70	130			
Surr: Toluene-d8	9.2		10.00		92.4	70	130			

Sample ID 1803516-001ams	SampType: MS4			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: MW-1	Batch	ID: W	49754	F	RunNo: 4	9754				
Prep Date:	Analysis D	ate: 3/	13/2018	S	SeqNo: 1	610248	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	34	1.0	20.00	18.07	78.0	80	120			S
Toluene	19	1.0	20.00	0.1932	93.7	80	120			
Ethylbenzene	18	1.0	20.00	0.3064	90.5	80	120			
Xylenes, Total	56	1.5	60.00	0.9892	90.9	80	120			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.1	70	130			
Surr: Toluene-d8	9.1		10.00		91.3	70	130			

Sample ID 1803516-001ams	d SampT	SampType: MSD4 TestCode: EPA Method 8260: Volatiles Short List								
Client ID: MW-1	Batch	Batch ID: W49754 RunNo: 49754								
Prep Date:	Analysis D	ate: 3/	13/2018	8	SeqNo: 1	610249	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	34	1.0	20.00	18.07	77.4	80	120	0.395	20	S
Toluene	19	1.0	20.00	0.1932	92.0	80	120	1.80	20	
Ethylbenzene	18	1.0	20.00	0.3064	90.0	80	120	0.551	20	
Xylenes, Total	53	1.5	60.00	0.9892	87.4	80	120	3.77	20	
Surr: 4-Bromofluorobenzene	9.0		10.00		90.4	70	130	0	0	
Surr: Toluene-d8	9.4		10.00		93.6	70	130	0	0	

Sample ID rb	SampT	уре: МЕ	: MBLK TestCode: EPA Method					d 8260: Volatiles Short List					
Client ID: PBW	Batch ID: W49754			F	RunNo: 4	9754							
Prep Date:	Analysis D	ate: 3/	13/2018	8	SeqNo: 1	610255	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	1.0											
Toluene	ND	1.0											
Ethylbenzene	ND	1.0											
Xylenes, Total	ND	1.5											

Qualifiers:

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

above quantitation range

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **1803516**

15-Mar-18

Client: LTE
Project: Lateral L2

Sample ID rb SampType: MBLK TestCode: EPA Method 8260: Volatiles Short List

Client ID: PBW Batch ID: W49754 RunNo: 49754

Prep Date: Analysis Date: 3/13/2018 SeqNo: 1610255 Units: µg/L

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 10.00 107 70 130 11

Surr: Toluene-d8

9.3 10.00 92.8 70 130

Qualifiers:

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

Page 8 of 8



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

Sample Log-In Check List

Client Name: LTE	Work Order Numb	er: 180	3516			RcptNo: 1	
Received By: Isaiah Ortiz	3/9/2018			エ	2./ -	-	
Completed By: Isaiah Ortiz	3/9/2018 7:52:26 AN	Л		7	2.) 2.)	1800.	
Reviewed By: ENM	3/9/18					•	
mw 3/9/18	W 1/18						
Chain of Custody							
1. Is Chain of Custody complete?		Yes	✓	No		Not Present	
2. How was the sample delivered?		Cou	<u>rier</u>				
<u>Log In</u>							
3. Was an attempt made to cool the samples?		Yes	V	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	Z	No			
6. Sufficient sample volume for indicated test(s)?	Yes	V	No			
7. Are samples (except VOA and ONG) propert			<u>✓</u>	No			
8. Was preservative added to bottles?	, , , , , , , , , , , , , , , , , , , ,	Yes		No		NA 🗆	
9. VOA vials have zero headspace?		Yes		No		No VOA Vials 🗹	
10. Were any sample containers received broke	n?	Yes		No	✓		
11. Does paperwork match bottle labels?		Yes	✓	No		# of preserved bottles checked for pH:	
(Note discrepancies on chain of custody)	_				_		unless noted)
[2] Are matrices correctly identified on Chain of (Custody?			No		Adjusted?	
13. Is it clear what analyses were requested?14. Were all holding times able to be met?			✓	No No		Checked by:	
(If no, notify customer for authorization.)		Yes	•	NO			
Special Handling (if applicable)							
15. Was client notified of all discrepancies with t	his order?	Yes		No		NA ▼	
Person Notified:	Date:	~~~		***************************************	**************************************		
By Whom:	Via:	□ еМа	ıil 🗀	Phone 🗀	Fax	In Person	
Regarding: Client Instructions:							
16. Additional remarks:							
17. Cooler Information Cooler No Temp °C Condition Se	al Intact Seal No	Seal Da	ite	Signed E	Зу		
1 1.0 Good Yes							
Page 1 of 1	<u></u>	- 41					· <u></u> .

## 776-575-7054 ## 776-575-7054 ## 776-575-7054 ## 776-575-7054 ## 776-575-7054 ## 776-575-7054 ## 776-575-7054 ## 776-575-7054 ## 776-575-7054 ## 776-575-7054 ## 776-575-7054 ## 776-775-775-7054 ## 776-775-775-7054 ## 776-775-775-7054 ## 776-775-775-7054 ## 776-775-775-7054 ## 776-775-775-7054 ## 776-775-775-7054 ## 776-775-775-7054 ## 776-775-775-7054 ## 776-775-775-7054 ## 776-775-775-7054 ## 776-775-70	## 776-385-7656 ## 776	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) CORN \ ORO \ DRO \ MRO) TPH (Method 4.18.1)
Project Name	Sester Septent Name Septent Name Catual Catainer Catual Catainer Catual Catainer	www.hallenvironmental.com Www.hallenvironmental.com Www.hallenvironmental.com Www.hallenvironmental.com Www.hallenvironmental.com Www.hallenvironmental.com Www.hallenvironmental.com Applysis (8021) Fax 505-345-3975 Fax 505-345-4107 Tel. 505-345-4107 Tel. 505-345-407 Analysis Request RCRA 8 Metals RCRA 8 Metals Analysis Request RCRA 8 Metals Analysis Request RCRA 8 Metals Analysis Request Analysis Reques
3 Address 74 2.2d A.A. Caferal C.2.	Ses: 1948 (Lond Aux Latural L2 1976-375-1676	### ### ### ### ### ### ### ### ### ##
The color of the	Project #: 285-7656	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (G88 only) TPH 8015B (GRO / DRO / MRO) TPH 8015B (GRO / MRO) TPH 8015B
1750-3252-05/6 190-10-10-10-10-10-10-10-10-10-10-10-10-10	# <i>dburns & Henu cou</i> Project Manager: Level 4 (Full Validation)	Analysis PEEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) TPH 8015B (GRO / DRO / MRO) TPH (Method 418.1) EDB (Method 504.1) PAH's (8310 or 8270 SIMS) RCRA 8 Metals RCRA 8 Metals Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8260B (VOA) 8260B (VOA) 8270 (Semi-VOA)
Time Reingelich W	#: <i>qburns & Henu.com</i> Project Manager: Devel 4 (Full Validation) Sampler: Place Preservative Preser	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) TPH 8015B (GRO / DRO / MRO) TPH (Method 418.1) PAH's (8310 or 8270 SIMS) RCRA 8 Metals RCRA 8 Metals Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8250B (VOA) 8250B (VOA) 8270 (Semi-VOA)
Matrix Sample Request D Container Preservative CO CO CO CO CO CO CO C	ae:	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (G88 or TPH (G88 or TPH (Method 418.1) TPH (Method 418.1) PAH's (8310 or 8270 SIMS) RCRA 8 Metals Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO 8260B (VOA) 8270 (Semi-VOA) 8270 (Semi-VOA)
Sampler PULK C22 L/ Image Sampler PULK C22 L/ Image Sampler Pulk C22 L/ Image Sampler Sampler Pulk C22 L/ Image Sampler Sample Sampler Sample Sampler Sa	Other	BTEX + MTBE + TMB' BTEX + MTBE + TPH TPH (Method 418.1) TPH (Method 418.1) PAH's (8310 or 8270 5 RCRA 8 Metals Anions (F,CI,NO ₃ ,NO ₂) Anions (F,CI,NO ₃ ,NO ₂) 8250 (Semi-VOA) 8270 (Semi-VOA)
Time Marrix Sample Request D Container Preservative No Sample Request D Sample Preservative No Sample Request D Sample Preservative No Sample Preservat	On loe: Carporature:	BTEX + MTBE + 7 BTEX + MTBE + 7 BTEX + MTBE + 7 BYPH's (8310 or 82 RCRA 8 Metals RCRA 8 Metals Anions (F,CI,NO ₃ , 8250 (Semi-VOA)
Time Matrix Sample Request ID Container Preservative HEAL No Type and # Type and # Type and # Type BTEX + MTBE TYPE	Matrix Sample Request ID Container Type and # Type Preservative Type HEAL No. GN MW-7 3 km+ 2 CD I MW-3 CD I CD I MW-3 CD 3	BTEX + MTBE BTEX + MTBE TPH 8015B (G) TPH (Method 4) EDB (Method 4) PAH's (8310 or RCRA 8 Metals RCRA 8 Metals Anions (F,Cl,Nd) 8081 Pesticides 8270 (Semi-VC) 8270 (Semi-VC)
Time Matrix Sample Request ID Container Preservative 1305 CM MW - 1 1790 and # Type and * Type and * Type and * Ty	Time Matrix Sample Request ID Container Type and # Type HEAL No. /305 CN //W~/ 3 V/AP CD I //35 MW~2 CD I CD I //25 MW~3 CD 3 //25 MW~3 CD 3	BTEX + MT BTEX + MT BTEX + MT BTEX + MT BO81 Pestions (F,C) 8081 P
1305 GN MW-2 3 (MP - CO) CO CO 135 MW-2 CO CO 1205 MW-3 CO CO 1340 MW-5 CO 1340 MW-5 CO 1340 MW-6 CO 1340 MW-7 CO	1305 GN MW-1 34074 GOD CD 1135 MW-2 CD CD 1225 MW-3 GD	-
135 1 MW-2 125 MW-3 1400 MW-4 1350 MW-7 1340 MW-7	1 MW-2- MW-3 @	
725 MW-3 1350 MW-5 1340 MW-F 1	MW-3	239
1340 MW -9 CO9 1340 MW -9 CO6 1340 MW -9 CO6 Time: Relinguished by: Received by: Detter Time Time: Relinguished by: Received by: Detter Time 1827 Machine to by: April 157 1827 Machine to by: April 158		D 3
1350 MW -5 1340 MW -A 1340 MW -A 1340 MW -A 1540 MW -A 1540 MW -A 1550 MW	my-4	D4
7.346 J MW – A J V V COG Time: Relinguished by: Received by: Dete Time Time: Relinguished by: ASI/8 ST Y 1827 M. L. A. 28 18 35 35 35 35 35 35 35 3		05
Time: Relinguished by: Recaived by: Recaiv	D > 7 & WW P	900
Time: Relinquished by: Received by: Receiv		
Time: Resinguished by: Received by: Receiv		
	Time: Reingdished by: Received by: Receive	1 10



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

May 08, 2018

Danny Burns Williams Four Corners 188 CR 4900 Bloomfield, NM 87413

TEL: (505) 632-4442

FAX

RE: Lateral L 2 OrderNo.: 1804E35

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/28/2018 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-2

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 11:30:00 AM

 Lab ID:
 1804E35-001
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analys	t: RAA
Benzene	170	10	μg/L	10	5/7/2018 6:12:00 PM	R51091
Toluene	33	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Ethylbenzene	11	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,2,4-Trimethylbenzene	3.7	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,3,5-Trimethylbenzene	3.0	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Naphthalene	ND	2.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
2-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Acetone	36	10	μg/L	1	5/4/2018 7:26:00 PM	R51047
Bromobenzene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Bromodichloromethane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Bromoform	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Bromomethane	ND	3.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
2-Butanone	ND	10	μg/L	1	5/4/2018 7:26:00 PM	R51047
Carbon disulfide	ND	10	μg/L	1	5/4/2018 7:26:00 PM	R51047
Carbon Tetrachloride	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Chlorobenzene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Chloroethane	ND	2.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Chloroform	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Chloromethane	ND	3.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
2-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
4-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
cis-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Dibromochloromethane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Dibromomethane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,2-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,3-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,4-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Dichlorodifluoromethane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,1-Dichloroethane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,1-Dichloroethene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,2-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,3-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
2,2-Dichloropropane	ND	2.0	μg/L	1	5/4/2018 7:26:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-2

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 11:30:00 AM

 Lab ID:
 1804E35-001
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analys	t: RAA
1,1-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Hexachlorobutadiene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
2-Hexanone	ND	10	μg/L	1	5/4/2018 7:26:00 PM	R51047
Isopropylbenzene	1.3	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
4-Isopropyltoluene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
4-Methyl-2-pentanone	ND	10	μg/L	1	5/4/2018 7:26:00 PM	R51047
Methylene Chloride	ND	3.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
n-Butylbenzene	ND	3.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
n-Propylbenzene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
sec-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Styrene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
tert-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
trans-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,1,1-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,1,2-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Trichloroethene (TCE)	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Trichlorofluoromethane	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
1,2,3-Trichloropropane	ND	2.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Vinyl chloride	ND	1.0	μg/L	1	5/4/2018 7:26:00 PM	R51047
Xylenes, Total	76	1.5	μg/L	1	5/4/2018 7:26:00 PM	R51047
Surr: 1,2-Dichloroethane-d4	112	70-130	%Rec	1	5/4/2018 7:26:00 PM	R51047
Surr: 4-Bromofluorobenzene	117	70-130	%Rec	1	5/4/2018 7:26:00 PM	R51047
Surr: Dibromofluoromethane	110	70-130	%Rec	1	5/4/2018 7:26:00 PM	R51047
Surr: Toluene-d8	113	70-130	%Rec	1	5/4/2018 7:26:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners **Client Sample ID:** MW-7

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 12:15:00 PM

 Lab ID:
 1804E35-002
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					t: RAA	
Benzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Toluene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Ethylbenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Naphthalene	ND	2.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1-Methylnaphthalene	ND	4.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
2-Methylnaphthalene	ND	4.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Acetone	ND	10	μg/L	1	5/7/2018 6:36:00 PM	R51091
Bromobenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Bromodichloromethane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Bromoform	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Bromomethane	ND	3.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
2-Butanone	ND	10	μg/L	1	5/7/2018 6:36:00 PM	R51091
Carbon disulfide	ND	10	μg/L	1	5/7/2018 6:36:00 PM	R51091
Carbon Tetrachloride	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Chlorobenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Chloroethane	ND	2.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Chloroform	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Chloromethane	ND	3.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
2-Chlorotoluene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
4-Chlorotoluene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
cis-1,2-DCE	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Dibromochloromethane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Dibromomethane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,2-Dichlorobenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,3-Dichlorobenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,4-Dichlorobenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
Dichlorodifluoromethane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,1-Dichloroethane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,1-Dichloroethene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,2-Dichloropropane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
1,3-Dichloropropane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091
2,2-Dichloropropane	ND	2.0	μg/L	1	5/7/2018 6:36:00 PM	R51091

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-7

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 12:15:00 PM

 Lab ID:
 1804E35-002
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 8260B: VOLATILES				Analyst: RAA			
1,1-Dichloropropene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
Hexachlorobutadiene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
2-Hexanone	ND	10	μg/L	1	5/7/2018 6:36:00 PM	R51091	
Isopropylbenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
4-Isopropyltoluene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
4-Methyl-2-pentanone	ND	10	μg/L	1	5/7/2018 6:36:00 PM	R51091	
Methylene Chloride	ND	3.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
n-Butylbenzene	ND	3.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
n-Propylbenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
sec-Butylbenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
Styrene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
tert-Butylbenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
trans-1,2-DCE	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
1,1,1-Trichloroethane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
1,1,2-Trichloroethane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
Trichloroethene (TCE)	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
Trichlorofluoromethane	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
1,2,3-Trichloropropane	ND	2.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
Vinyl chloride	ND	1.0	μg/L	1	5/7/2018 6:36:00 PM	R51091	
Xylenes, Total	ND	1.5	μg/L	1	5/7/2018 6:36:00 PM	R51091	
Surr: 1,2-Dichloroethane-d4	118	70-130	%Rec	1	5/7/2018 6:36:00 PM	R51091	
Surr: 4-Bromofluorobenzene	115	70-130	%Rec	1	5/7/2018 6:36:00 PM	R51091	
Surr: Dibromofluoromethane	116	70-130	%Rec	1	5/7/2018 6:36:00 PM	R51091	
Surr: Toluene-d8	113	70-130	%Rec	1	5/7/2018 6:36:00 PM	R51091	

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Williams Four Corners

Analytical Report

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-6

Project: Lateral L 2 **Collection Date:** 4/27/2018 1:15:00 PM

Lab ID: 1804E35-003 **Matrix:** GROUNDWA **Received Date:** 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst:	
Benzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Toluene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Ethylbenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Naphthalene	ND	2.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
2-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Acetone	ND	10	μg/L	1	5/4/2018 8:14:00 PM	R51047
Bromobenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Bromodichloromethane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Bromoform	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Bromomethane	ND	3.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
2-Butanone	ND	10	μg/L	1	5/4/2018 8:14:00 PM	R51047
Carbon disulfide	ND	10	μg/L	1	5/4/2018 8:14:00 PM	R51047
Carbon Tetrachloride	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Chlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Chloroethane	ND	2.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Chloroform	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Chloromethane	ND	3.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
2-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
4-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
cis-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Dibromochloromethane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Dibromomethane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,2-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,3-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,4-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Dichlorodifluoromethane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,1-Dichloroethane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,1-Dichloroethene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,2-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,3-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
2,2-Dichloropropane	ND	2.0	μg/L	1	5/4/2018 8:14:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-6

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 1:15:00 PM

 Lab ID:
 1804E35-003
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analys	t: RAA
1,1-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Hexachlorobutadiene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
2-Hexanone	ND	10	μg/L	1	5/4/2018 8:14:00 PM	R51047
Isopropylbenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
4-Isopropyltoluene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
4-Methyl-2-pentanone	ND	10	μg/L	1	5/4/2018 8:14:00 PM	R51047
Methylene Chloride	ND	3.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
n-Butylbenzene	ND	3.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
n-Propylbenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
sec-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Styrene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
tert-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
trans-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,1,1-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,1,2-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Trichloroethene (TCE)	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Trichlorofluoromethane	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
1,2,3-Trichloropropane	ND	2.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Vinyl chloride	ND	1.0	μg/L	1	5/4/2018 8:14:00 PM	R51047
Xylenes, Total	ND	1.5	μg/L	1	5/4/2018 8:14:00 PM	R51047
Surr: 1,2-Dichloroethane-d4	114	70-130	%Rec	1	5/4/2018 8:14:00 PM	R51047
Surr: 4-Bromofluorobenzene	115	70-130	%Rec	1	5/4/2018 8:14:00 PM	R51047
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/4/2018 8:14:00 PM	R51047
Surr: Toluene-d8	113	70-130	%Rec	1	5/4/2018 8:14:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1804E35

Date Reported: 5/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-3

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 1:50:00 PM

 Lab ID:
 1804E35-004
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analys	t: RAA
Benzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Toluene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Ethylbenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Naphthalene	ND	2.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
2-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Acetone	ND	10	μg/L	1	5/4/2018 8:38:00 PM	R51047
Bromobenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Bromodichloromethane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Bromoform	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Bromomethane	ND	3.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
2-Butanone	ND	10	μg/L	1	5/4/2018 8:38:00 PM	R51047
Carbon disulfide	ND	10	μg/L	1	5/4/2018 8:38:00 PM	R51047
Carbon Tetrachloride	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Chlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Chloroethane	ND	2.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Chloroform	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Chloromethane	ND	3.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
2-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
4-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
cis-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Dibromochloromethane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Dibromomethane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,2-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,3-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,4-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Dichlorodifluoromethane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,1-Dichloroethane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,1-Dichloroethene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,2-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,3-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
2,2-Dichloropropane	ND	2.0	μg/L	1	5/4/2018 8:38:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-3

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 1:50:00 PM

 Lab ID:
 1804E35-004
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analys	t: RAA
1,1-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Hexachlorobutadiene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
2-Hexanone	ND	10	μg/L	1	5/4/2018 8:38:00 PM	R51047
Isopropylbenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
4-Isopropyltoluene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
4-Methyl-2-pentanone	ND	10	μg/L	1	5/4/2018 8:38:00 PM	R51047
Methylene Chloride	ND	3.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
n-Butylbenzene	ND	3.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
n-Propylbenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
sec-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Styrene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
tert-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
trans-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,1,1-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,1,2-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Trichloroethene (TCE)	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Trichlorofluoromethane	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
1,2,3-Trichloropropane	ND	2.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Vinyl chloride	ND	1.0	μg/L	1	5/4/2018 8:38:00 PM	R51047
Xylenes, Total	ND	1.5	μg/L	1	5/4/2018 8:38:00 PM	R51047
Surr: 1,2-Dichloroethane-d4	113	70-130	%Rec	1	5/4/2018 8:38:00 PM	R51047
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	5/4/2018 8:38:00 PM	R51047
Surr: Dibromofluoromethane	108	70-130	%Rec	1	5/4/2018 8:38:00 PM	R51047
Surr: Toluene-d8	113	70-130	%Rec	1	5/4/2018 8:38:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-4

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 2:25:00 PM

 Lab ID:
 1804E35-005
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analys	t: RAA
Benzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Toluene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Ethylbenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Naphthalene	ND	2.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
2-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Acetone	ND	10	μg/L	1	5/4/2018 9:02:00 PM	R51047
Bromobenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
Bromodichloromethane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
Bromoform	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
Bromomethane	ND	3.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
2-Butanone	ND	10	μg/L	1	5/4/2018 9:02:00 PM	R5104
Carbon disulfide	ND	10	μg/L	1	5/4/2018 9:02:00 PM	R5104
Carbon Tetrachloride	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
Chlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
Chloroethane	ND	2.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
Chloroform	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
Chloromethane	ND	3.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
2-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
4-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
cis-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
Dibromochloromethane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
Dibromomethane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
1,2-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
1,3-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
1,4-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
Dichlorodifluoromethane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
1,1-Dichloroethane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
1,1-Dichloroethene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
1,2-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,3-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R5104
2,2-Dichloropropane	ND	2.0	μg/L	1	5/4/2018 9:02:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-4

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 2:25:00 PM

 Lab ID:
 1804E35-005
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analys	t: RAA
1,1-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Hexachlorobutadiene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
2-Hexanone	ND	10	μg/L	1	5/4/2018 9:02:00 PM	R51047
Isopropylbenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
4-Isopropyltoluene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
4-Methyl-2-pentanone	ND	10	μg/L	1	5/4/2018 9:02:00 PM	R51047
Methylene Chloride	ND	3.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
n-Butylbenzene	ND	3.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
n-Propylbenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
sec-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Styrene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
tert-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
trans-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,1,1-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,1,2-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Trichloroethene (TCE)	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Trichlorofluoromethane	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
1,2,3-Trichloropropane	ND	2.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Vinyl chloride	ND	1.0	μg/L	1	5/4/2018 9:02:00 PM	R51047
Xylenes, Total	ND	1.5	μg/L	1	5/4/2018 9:02:00 PM	R51047
Surr: 1,2-Dichloroethane-d4	113	70-130	%Rec	1	5/4/2018 9:02:00 PM	R51047
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	5/4/2018 9:02:00 PM	R51047
Surr: Dibromofluoromethane	110	70-130	%Rec	1	5/4/2018 9:02:00 PM	R51047
Surr: Toluene-d8	114	70-130	%Rec	1	5/4/2018 9:02:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1804E35

Date Reported: 5/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-5

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 3:25:00 PM

 Lab ID:
 1804E35-006
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES	_ES			Analys	t: RAA	
Benzene	190	10	μg/L	10	5/7/2018 7:00:00 PM	R5109
Toluene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Ethylbenzene	5.7	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,2,4-Trimethylbenzene	1.5	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,3,5-Trimethylbenzene	1.6	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Naphthalene	ND	2.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
2-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Acetone	20	10	μg/L	1	5/4/2018 9:26:00 PM	R5104
Bromobenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Bromodichloromethane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Bromoform	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Bromomethane	ND	3.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
2-Butanone	ND	10	μg/L	1	5/4/2018 9:26:00 PM	R5104
Carbon disulfide	ND	10	μg/L	1	5/4/2018 9:26:00 PM	R5104
Carbon Tetrachloride	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Chlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Chloroethane	ND	2.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Chloroform	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Chloromethane	ND	3.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
2-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
4-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
cis-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Dibromochloromethane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Dibromomethane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,2-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,3-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,4-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
Dichlorodifluoromethane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,1-Dichloroethane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,1-Dichloroethene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,2-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
1,3-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R5104
2,2-Dichloropropane	ND	2.0	μg/L	1	5/4/2018 9:26:00 PM	R5104

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-5

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 3:25:00 PM

 Lab ID:
 1804E35-006
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analys	t: RAA
1,1-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
Hexachlorobutadiene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
2-Hexanone	ND	10	μg/L	1	5/4/2018 9:26:00 PM	R51047
Isopropylbenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
4-Isopropyltoluene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
4-Methyl-2-pentanone	ND	10	μg/L	1	5/4/2018 9:26:00 PM	R51047
Methylene Chloride	ND	3.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
n-Butylbenzene	ND	3.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
n-Propylbenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
sec-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
Styrene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
tert-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
trans-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
1,1,1-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
1,1,2-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
Trichloroethene (TCE)	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
Trichlorofluoromethane	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
1,2,3-Trichloropropane	ND	2.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
Vinyl chloride	ND	1.0	μg/L	1	5/4/2018 9:26:00 PM	R51047
Xylenes, Total	9.1	1.5	μg/L	1	5/4/2018 9:26:00 PM	R51047
Surr: 1,2-Dichloroethane-d4	111	70-130	%Rec	1	5/4/2018 9:26:00 PM	R51047
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	5/4/2018 9:26:00 PM	R51047
Surr: Dibromofluoromethane	109	70-130	%Rec	1	5/4/2018 9:26:00 PM	R51047
Surr: Toluene-d8	112	70-130	%Rec	1	5/4/2018 9:26:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1804E35

Date Reported: 5/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-1

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 3:00:00 PM

 Lab ID:
 1804E35-007
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	
Benzene	200	10	μg/L	10	5/7/2018 7:24:00 PM	R51091
Toluene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Ethylbenzene	5.2	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,2,4-Trimethylbenzene	2.2	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,3,5-Trimethylbenzene	2.1	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Naphthalene	ND	2.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
2-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Acetone	15	10	μg/L	1	5/4/2018 9:50:00 PM	R51047
Bromobenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Bromodichloromethane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Bromoform	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Bromomethane	ND	3.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
2-Butanone	ND	10	μg/L	1	5/4/2018 9:50:00 PM	R51047
Carbon disulfide	ND	10	μg/L	1	5/4/2018 9:50:00 PM	R51047
Carbon Tetrachloride	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Chlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Chloroethane	ND	2.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Chloroform	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Chloromethane	ND	3.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
2-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
4-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
cis-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Dibromochloromethane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Dibromomethane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,2-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,3-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,4-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Dichlorodifluoromethane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,1-Dichloroethane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,1-Dichloroethene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,2-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,3-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
2,2-Dichloropropane	ND	2.0	μg/L	1	5/4/2018 9:50:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 13 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT: Williams Four Corners

Analytical Report

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW-1

Project: Lateral L 2 **Collection Date:** 4/27/2018 3:00:00 PM

Lab ID: 1804E35-007 **Matrix:** GROUNDWA **Received Date:** 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					t: RAA	
1,1-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Hexachlorobutadiene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
2-Hexanone	ND	10	μg/L	1	5/4/2018 9:50:00 PM	R51047
Isopropylbenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
4-Isopropyltoluene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
4-Methyl-2-pentanone	ND	10	μg/L	1	5/4/2018 9:50:00 PM	R51047
Methylene Chloride	ND	3.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
n-Butylbenzene	ND	3.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
n-Propylbenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
sec-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Styrene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
tert-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
trans-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,1,1-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,1,2-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Trichloroethene (TCE)	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Trichlorofluoromethane	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
1,2,3-Trichloropropane	ND	2.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Vinyl chloride	ND	1.0	μg/L	1	5/4/2018 9:50:00 PM	R51047
Xylenes, Total	8.7	1.5	μg/L	1	5/4/2018 9:50:00 PM	R51047
Surr: 1,2-Dichloroethane-d4	112	70-130	%Rec	1	5/4/2018 9:50:00 PM	R51047
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	5/4/2018 9:50:00 PM	R51047
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/4/2018 9:50:00 PM	R51047
Surr: Toluene-d8	111	70-130	%Rec	1	5/4/2018 9:50:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-A

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 3:30:00 PM

 Lab ID:
 1804E35-008
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: RAA
Benzene	200	10	μg/L	10	5/7/2018 7:48:00 PM	R51091
Toluene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Ethylbenzene	6.0	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,2,4-Trimethylbenzene	1.6	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,3,5-Trimethylbenzene	1.7	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Naphthalene	ND	2.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
2-Methylnaphthalene	ND	4.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Acetone	25	10	μg/L	1	5/4/2018 10:14:00 PM	R51047
Bromobenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Bromodichloromethane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Bromoform	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Bromomethane	ND	3.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
2-Butanone	ND	10	μg/L	1	5/4/2018 10:14:00 PM	R51047
Carbon disulfide	ND	10	μg/L	1	5/4/2018 10:14:00 PM	R51047
Carbon Tetrachloride	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Chlorobenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Chloroethane	ND	2.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Chloroform	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Chloromethane	ND	3.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
2-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
4-Chlorotoluene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
cis-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Dibromochloromethane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Dibromomethane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,2-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,3-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,4-Dichlorobenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Dichlorodifluoromethane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,1-Dichloroethane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,1-Dichloroethene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,2-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,3-Dichloropropane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
2,2-Dichloropropane	ND	2.0	μg/L	1	5/4/2018 10:14:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 15 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: MW-A

 Project:
 Lateral L 2
 Collection Date: 4/27/2018 3:30:00 PM

 Lab ID:
 1804E35-008
 Matrix: GROUNDWA
 Received Date: 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	RAA
1,1-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Hexachlorobutadiene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
2-Hexanone	ND	10	μg/L	1	5/4/2018 10:14:00 PM	R51047
Isopropylbenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
4-Isopropyltoluene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
4-Methyl-2-pentanone	ND	10	μg/L	1	5/4/2018 10:14:00 PM	R51047
Methylene Chloride	ND	3.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
n-Butylbenzene	ND	3.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
n-Propylbenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
sec-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Styrene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
tert-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
trans-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,1,1-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,1,2-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Trichloroethene (TCE)	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Trichlorofluoromethane	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
1,2,3-Trichloropropane	ND	2.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Vinyl chloride	ND	1.0	μg/L	1	5/4/2018 10:14:00 PM	R51047
Xylenes, Total	9.4	1.5	μg/L	1	5/4/2018 10:14:00 PM	R51047
Surr: 1,2-Dichloroethane-d4	112	70-130	%Rec	1	5/4/2018 10:14:00 PM	R51047
Surr: 4-Bromofluorobenzene	116	70-130	%Rec	1	5/4/2018 10:14:00 PM	R51047
Surr: Dibromofluoromethane	110	70-130	%Rec	1	5/4/2018 10:14:00 PM	R51047
Surr: Toluene-d8	113	70-130	%Rec	1	5/4/2018 10:14:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 16 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**

Date Reported: 5/8/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: Trip Blank

Project: Lateral L 2 Collection Date:

Lab ID: 1804E35-009 **Matrix:** AQUEOUS **Received Date:** 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qua	al Units	DF Da	te Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: RAA
Benzene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Toluene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Ethylbenzene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Naphthalene	ND	2.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1-Methylnaphthalene	ND	4.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
2-Methylnaphthalene	ND	4.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Acetone	ND	10	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Bromobenzene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Bromodichloromethane	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Bromoform	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Bromomethane	ND	3.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
2-Butanone	ND	10	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Carbon disulfide	ND	10	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Carbon Tetrachloride	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Chlorobenzene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Chloroethane	ND	2.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Chloroform	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Chloromethane	ND	3.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
2-Chlorotoluene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
4-Chlorotoluene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
cis-1,2-DCE	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
cis-1,3-Dichloropropene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Dibromochloromethane	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Dibromomethane	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,2-Dichlorobenzene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,3-Dichlorobenzene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,4-Dichlorobenzene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
Dichlorodifluoromethane	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,1-Dichloroethane	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,1-Dichloroethene	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,2-Dichloropropane	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
1,3-Dichloropropane	ND	1.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047
2,2-Dichloropropane	ND	2.0	μg/L	1 5/4	4/2018 10:38:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 17 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1804E35**Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners Client Sample ID: Trip Blank

Project: Lateral L 2 Collection Date:

Lab ID: 1804E35-009 **Matrix:** AQUEOUS **Received Date:** 4/28/2018 10:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: RAA
1,1-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
Hexachlorobutadiene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
2-Hexanone	ND	10	μg/L	1	5/4/2018 10:38:00 PM	R51047
Isopropylbenzene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
4-Isopropyltoluene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
4-Methyl-2-pentanone	ND	10	μg/L	1	5/4/2018 10:38:00 PM	R51047
Methylene Chloride	ND	3.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
n-Butylbenzene	ND	3.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
n-Propylbenzene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
sec-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
Styrene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
tert-Butylbenzene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
trans-1,2-DCE	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
1,1,1-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
1,1,2-Trichloroethane	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
Trichloroethene (TCE)	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
Trichlorofluoromethane	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
1,2,3-Trichloropropane	ND	2.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
Vinyl chloride	ND	1.0	μg/L	1	5/4/2018 10:38:00 PM	R51047
Xylenes, Total	ND	1.5	μg/L	1	5/4/2018 10:38:00 PM	R51047
Surr: 1,2-Dichloroethane-d4	114	70-130	%Rec	1	5/4/2018 10:38:00 PM	R51047
Surr: 4-Bromofluorobenzene	115	70-130	%Rec	1	5/4/2018 10:38:00 PM	R51047
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/4/2018 10:38:00 PM	R51047
Surr: Toluene-d8	115	70-130	%Rec	1	5/4/2018 10:38:00 PM	R51047

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 18 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

Batch ID: **R51047**

WO#: **1804E35**

08-May-18

Client: Williams Four Corners

Project: Lateral L 2

Sample ID rb

Client ID: PBW

Sample ID 100ng Ics	SampT	SampType: LCS TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch	n ID: R5	1047	1047						
Prep Date:	Analysis D	oate: 5/	4/2018	S	SeqNo: 1	657986	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	23	1.0	20.00	0	114	70	130			
Chlorobenzene	23	1.0	20.00	0	115	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	108	70	130			
Trichloroethene (TCE)	21	1.0	20.00	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		116	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	11		10.00		112	70	130			

Prep Date:	Analysis D	ate: 5/	4/2018	S	SeqNo: 1	658053	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

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

TestCode: EPA Method 8260B: VOLATILES

RunNo: 51047

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Released to Imaging: 11/5/2024 1:18:12 PM

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804E35**

08-May-18

Client: Williams Four Corners

Project: Lateral L 2

Sample ID rb	SampT	уре: МІ	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	n ID: R5	1047	F	RunNo: 5	1047				
Prep Date:	Analysis D	oate: 5	4/2018	S	SeqNo: 1	658053	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

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

Released to Imaging: 11/5/2024 1:18:12 PM

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804E35**

08-May-18

Client: Williams Four Corners

Project: Lateral L 2

Sample ID rb	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8260B: VOLATILES					
Client ID: PBW	Batch	1D: R5	1047	F	RunNo: 5	1047				
Prep Date:	Analysis D	ate: 5/	4/2018	5	SeqNo: 1	658053	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		112	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		115	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	11		10.00		115	70	130			

Sample ID 100ng Ics	SampT	ype: LC	S	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batcl	n ID: R5	1091	F	RunNo: 5	1091				
Prep Date:	Analysis D	Date: 5/	7/2018	5	SeqNo: 1	659460	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	111	70	130			
Toluene	23	1.0	20.00	0	116	70	130			
Chlorobenzene	24	1.0	20.00	0	118	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	112	70	130			
Trichloroethene (TCE)	22	1.0	20.00	0	112	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		113	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	11		10.00		110	70	130			

Sample ID RB	SampT	уре: М	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES	•	•
Client ID: PBW	Batch	n ID: R5	1091	F	RunNo: 51091					
Prep Date:	Analysis D	oate: 5/	7/2018	5	SeqNo: 1	659463	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								

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1804E35**

08-May-18

Client: Williams Four Corners

Project: Lateral L 2

Sample ID RB	SampT	Type: MBLK TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch	ID: R5	1091	F	RunNo: 5	1091				
Prep Date:	Analysis D	ate: 5/	7/2018	S	SeqNo: 1	659463	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,1,2 Total demolocularie	ND	1.5								

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1804E35

08-May-18

Client: Williams Four Corners

Project: Lateral L 2

Sample ID RB	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R51091		RunNo: 51091							
Prep Date:	Analysis Date: 5/7/2018		SeqNo: 1659463			Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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	12		10.00		116	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130			
Surr: Dibromofluoromethane	12		10.00		115	70	130			
Surr: Toluene-d8	11		10.00		113	70	130			

Qualifiers:

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

Reporting Detection Limit

Page 23 of 23



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

Sample Log-In Check List

Client Name: WILLIAMS FOUR	R CORN Work Order Nu	mber: 1804E35		RcptNo:	1
Received By: Andy Freeman	4/28/2018 10:40:0	DO AM	andyl		
Completed By: Anne Thorne	4/30/2018 12:37:0	01 PM	and Am		
Reviewed By: ENM	4/30/18	- *	Withe Stran		
abelet by 041301					
। <u>Chain of Custody</u>					
Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present	
2. How was the sample delivered?		<u>Courier</u>			•
Z. Them mad the dample delivered:		Courier			*.
<u>Log In</u>				•	
Was an attempt made to cool the	e samples?	Yes 🗹	No 🗆	NA 🗌	-
 Were all samples received at a te 	emperature of >0° C to 6.0°C	Yes 🗹	No 📙	NA 🗌	
5. Sample(s) in proper container(s)	?	Yes 🗸	No 🗌	•	
		100 🖭	,,,,,		
5. Sufficient sample volume for indi	cated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and O	NG) properly preserved?	Yes 🗹	No 🗌		
3. Was preservative added to bottle	s?	Yes 🗌	No 🗹	NA \square	
). VOA vials have zero headspace?	·	Yes 🗹	No 🗌	No VOA Vials	
0. Were any sample containers rec	eived broken?	Yes 🗆	No 🗹		
				# of preserved bottles checked	
 Does paperwork match bottle lab (Note discrepancies on chain of c 		Yes 🗹		for pH:	12 unless noted
2 Are matrices correctly identified o		Yes 🗸	No 🗆	Adjusted?	
3 Is it clear what analyses were req	juested?	Yes 🗹	No 🗌		
 Were all holding times able to be (If no, notify customer for authorize 		Yes 🗹	No 🗆	Checked by:	
pecial Handling (if applicat		•			
5. Was client notified of all discrepa		Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date	a 1		<u> </u>	
By Whom:	Via:	*·	hone	In Person	
Regarding:	V IL.		none 🗀 rax [
Client Instructions:					
6. Additional remarks:	·	· -			
7. Cooler Information Cooler No Temp °C Con	ndition Seal Intact Seal No	l neggineliji. I n	ominas I	~	
1 3.1 Good		Seal Date	Signed By		
i i		***			
Page 1 of 1		<u> </u>			

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	Method 504.1) (8310 or 8270 SIMS) 8 Metals (P,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) Pesticides / 8082 PCB's Semi-VOA)	PAH's RCRA ROB1 8081 8087 A X X 8260 8270		Date Time Remarks: peace Two SALOB Date Time Cc: Aburns Cleru.com Cc: Aburns Cleru.com Cc: Aburns Cleru.com Cc: Aburns Cleru.com Cc: Aburns Cleru.com
4901 Hav	Method 418.1) Method 418.1)	HqT		Remarks:
	2, 28 20 20 20 20 20 20 20 20 20 20 20 20 20	204E35 2021 2021 2033	विवृद्ध हिंद	Date Time 127 16 16 16 16 16 16 16 1
Around Time: landard Rush ct Name: Lateral L-2 ct #: O340 80 2	Adams of tune of the servative	ed A		W. C.
Tum-Around Time: X Standard Project Name: Latera Project #: O3401	Project N Sampler: Sample Contain	Type and #	***	Received by:
Chain-of-Custody Record Williams Faur Comers Aaron baler g Address:	Level 4 (Full Validation)	MW-3 MW-7	MW-3 MW-4 MW-5 MW-1 MW-A	Time: Relinquished by: Let u
ain-of-Custoc Williams Faur Aaran الم	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1350 1435 1435 1435 1435 1980 1535 1535	Relinquished by Relinquished by Samples Submitted
Chain-Client: Wil	email or Fax#: acutery QA/QC Package: Standard Accreditation NELAP Details Time Netatory		1435 1435 1435 1535 1535	Date: Time: Varietie Letu Date: Time: Varietie Constant



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

December 22, 2021

Brooke Herb

Harvest 1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX:

RE: Lateral L2 OrderNo.: 2112746

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 5 sample(s) on 12/10/2021 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW-2

 Project:
 Lateral L2
 Collection Date: 12/8/2021 2:25:00 PM

 Lab ID:
 2112746-001
 Matrix: GROUNDWA
 Received Date: 12/10/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	12/15/2021 7:25:00 PM	R84549
Toluene	ND	1.0	μg/L	1	12/15/2021 7:25:00 PM	R84549
Ethylbenzene	ND	1.0	μg/L	1	12/15/2021 7:25:00 PM	R84549
Xylenes, Total	ND	1.5	μg/L	1	12/15/2021 7:25:00 PM	R84549
Surr: 1,2-Dichloroethane-d4	98.7	70-130	%Rec	1	12/15/2021 7:25:00 PM	R84549
Surr: Dibromofluoromethane	103	70-130	%Rec	1	12/15/2021 7:25:00 PM	R84549
Surr: Toluene-d8	98.0	70-130	%Rec	1	12/15/2021 7:25:00 PM	R84549

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

Qualifiers:

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

Page 1 of 7

Date Reported: 12/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW-3

 Project:
 Lateral L2
 Collection Date: 12/8/2021 2:35:00 PM

 Lab ID:
 2112746-002
 Matrix: GROUNDWA
 Received Date: 12/10/2021 7:30:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	: CCM
Benzene	ND	1.0	μg/L	1	12/15/2021 7:49:00 PM	R84549
Toluene	ND	1.0	μg/L	1	12/15/2021 7:49:00 PM	R84549
Ethylbenzene	ND	1.0	μg/L	1	12/15/2021 7:49:00 PM	R84549
Xylenes, Total	ND	1.5	μg/L	1	12/15/2021 7:49:00 PM	R84549
Surr: 1,2-Dichloroethane-d4	99.3	70-130	%Rec	1	12/15/2021 7:49:00 PM	R84549
Surr: Dibromofluoromethane	102	70-130	%Rec	1	12/15/2021 7:49:00 PM	R84549
Surr: Toluene-d8	95.8	70-130	%Rec	1	12/15/2021 7:49:00 PM	R84549

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

Qualifiers:

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

Page 2 of 7

Date Reported: 12/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW-5

 Project:
 Lateral L2
 Collection Date: 12/8/2021 2:45:00 PM

 Lab ID:
 2112746-003
 Matrix: GROUNDWA
 Received Date: 12/10/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	12/15/2021 9:22:00 PM	R84549
Toluene	ND	1.0	μg/L	1	12/15/2021 9:22:00 PM	R84549
Ethylbenzene	ND	1.0	μg/L	1	12/15/2021 9:22:00 PM	R84549
Xylenes, Total	ND	1.5	μg/L	1	12/15/2021 9:22:00 PM	R84549
Surr: 1,2-Dichloroethane-d4	99.0	70-130	%Rec	1	12/15/2021 9:22:00 PM	R84549
Surr: Dibromofluoromethane	101	70-130	%Rec	1	12/15/2021 9:22:00 PM	R84549
Surr: Toluene-d8	97.9	70-130	%Rec	1	12/15/2021 9:22:00 PM	R84549

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

Qualifiers:

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

pH Not In Range

Date Reported: 12/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW-6

 Project:
 Lateral L2
 Collection Date: 12/8/2021 2:15:00 PM

 Lab ID:
 2112746-004
 Matrix: GROUNDWA
 Received Date: 12/10/2021 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	12/15/2021 9:45:00 PM	R84549
Toluene	ND	1.0	μg/L	1	12/15/2021 9:45:00 PM	R84549
Ethylbenzene	ND	1.0	μg/L	1	12/15/2021 9:45:00 PM	R84549
Xylenes, Total	ND	1.5	μg/L	1	12/15/2021 9:45:00 PM	R84549
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	12/15/2021 9:45:00 PM	R84549
Surr: Dibromofluoromethane	105	70-130	%Rec	1	12/15/2021 9:45:00 PM	R84549
Surr: Toluene-d8	96.3	70-130	%Rec	1	12/15/2021 9:45:00 PM	R84549

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

Qualifiers:

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

Page 4 of 7

Date Reported: 12/22/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: MW-7

 Project:
 Lateral L2
 Collection Date: 12/8/2021 2:00:00 PM

 Lab ID:
 2112746-005
 Matrix: GROUNDWA
 Received Date: 12/10/2021 7:30:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analy	st: CCM
Benzene	ND	1.0	μg/L	1	12/15/2021 10:09:00	PM R84549
Toluene	ND	1.0	μg/L	1	12/15/2021 10:09:00	PM R84549
Ethylbenzene	ND	1.0	μg/L	1	12/15/2021 10:09:00	PM R84549
Xylenes, Total	ND	1.5	μg/L	1	12/15/2021 10:09:00	PM R84549
Surr: 1,2-Dichloroethane-d4	98.5	70-130	%Rec	1	12/15/2021 10:09:00	PM R84549
Surr: Dibromofluoromethane	102	70-130	%Rec	1	12/15/2021 10:09:00	PM R84549
Surr: Toluene-d8	97.2	70-130	%Rec	1	12/15/2021 10:09:00	PM R84549

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

Qualifiers:

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

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2112746**

22-Dec-21

Client: Harvest
Project: Lateral L2

Sample ID: 100ng lcs	SampT	ype: LC	S	Tes	8260: Volatile	s Short L	ist			
Client ID: LCSW	Batch	1D: R8	4549	F						
Prep Date:	Analysis D	ate: 12	2/15/2021	S	SeqNo: 29	973445	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.3	70	130			
Toluene	20	1.0	20.00	0	98.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.4	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.4	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.0	70	130			
Surr: Toluene-d8	9.8		10.00		97.7	70	130			

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	PA Method	od 8260: Volatiles Short List							
Client ID: PBW	Batch	n ID: R8	4549	F	RunNo: 8	4549							
Prep Date:	Analysis D	ate: 12	2/15/2021	5	SeqNo: 2	973446	Units: μg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	1.0											
Toluene	ND	1.0											
Ethylbenzene	ND	1.0											
Xylenes, Total	ND	1.5											
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.0	70	130						
Surr: 4-Bromofluorobenzene	9.8		10.00		98.0	70	130						
Surr: Dibromofluoromethane	10		10.00		102	70	130						
Surr: Toluene-d8	9.7		10.00		96.7	70	130						

Sample ID: 2112746-002AMS	SampT	SampType: MS TestCode: EPA Method 8260: Volatiles Short List									
Client ID: MW-3	Batch	Batch ID: R84549 RunNo: 84549									
Prep Date:	Analysis D	ate: 12	2/15/2021	S	SeqNo: 2	973914	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	20	1.0	20.00	0	102	70	130				
Toluene	20	1.0	20.00	0	101	70	130				
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130				
Surr: Dibromofluoromethane	10		10.00		103	70	130				
Surr: Toluene-d8	9.8		10.00		97.8	70	130				

Sample ID: 2112746-002AMS	D SampT	ype: MS	SD.	Tes	TestCode: EPA Method 8260: Volatiles Short List								
Client ID: MW-3	Batch	ID: R8	4549	R	tunNo: 84	1549							
Prep Date:	Analysis D	ate: 12	/15/2021	S	SeqNo: 29	973915	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
			0	O: Tt Tto: Ta:	7011LO	LOWLIIIII	riigiiEiiiii	701 CI	TO DEITHE	Quui			
Benzene	20	1.0	20.00	0	99.2	70	130	2.63	20	Quai			
Benzene Toluene	20 19	1.0								Quai			

Qualifiers:

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

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

9.7

WO#: **2112746**

0

22-Dec-21

Client: Harvest
Project: Lateral L2

Surr: Toluene-d8

Sample ID: 2112746-002AMSD SampType: MSD TestCode: EPA Method 8260: Volatiles Short List Client ID: MW-3 Batch ID: R84549 RunNo: 84549 Prep Date: Analysis Date: 12/15/2021 SeqNo: 2973915 Units: µg/L Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0 Surr: 4-Bromofluorobenzene 9.8 10.00 97.6 70 130 0 Surr: Dibromofluoromethane 10 10.00 102 70 130 0 0

96.7

70

130

0

10.00

Qualifiers:

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

Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: Harvest	Work Order Num	ber: 211:	2746			RcptNo:	1
Received By: Tracy Casarrubias	12/10/2021 7:30:00) AM					
Completed By: Sean Livingston	12/10/2021 9:50:47	' AM		<	/	not-	
Chain of Custody	21			رر	-6	1780-	
Chain of Custody JM12/10/	121						
Is Chain of Custody complete?		Yes	V	No		Not Present	
2. How was the sample delivered?		Cou	rier				
l og In							
Log In 3. Was an attempt made to cool the samples?		Yes	V	No		NA 🗆	
4. Were all samples received at a temperature	of >0° C to 6 0°C	Yes		No		NA 🗆	
. Troto an oumples received at a temperature	01 20 0 10 0.0 0	res	V	110		NA L	
5. Sample(s) in proper container(s)?		Yes	V	No			
6. Sufficient sample volume for indicated test(s	3)?	Yes	V	No			
7_{\cdot} Are samples (except VOA and ONG) proper	ly preserved?	Yes	~	No			
8. Was preservative added to bottles?		Yes		No	V	NA 🗆	
9. Received at least 1 vial with headspace <1/4	I" for AQ VOA?	Yes	V	No		NA 🗌	1
10. Were any sample containers received broke	en?	Yes		No	✓	# of preserved	_/
11 0						bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No	Ш	for pH:	>12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes	V	No		Adjusted?	, ,
13. Is it clear what analyses were requested?		Yes	V	No			4
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	✓	No		Checked by:	4 12/10/01
Special Handling (if applicable) 15. Was client notified of all discrepancies with	this order?	Yes		No		NA 🗹	
Person Notified:		Secretary				NA E	
By Whom:	Date:	eMa	sii 🗀	Dhone [l Eas	□ In Darson	
Regarding:	Via.		A11	Phone _	ј гах	☐ In Person	
Client Instructions:			and the second				
16. Additional remarks:						The state of the s	
17. Cooler Information							
I the first service of the first service of the first service are serviced at the	eal Intact Seal No	Seal Da	ate	Signed	Ву		
1 2.3 Good				J	•	1	

	ANAL YSTS LABORATORY		37109				:04:47 A																ge 81 of
(www.iraileitviioiiiieitai.com	505-345-4107	100	153	(JnəsdA\	resent	յ) ա	nofilo	Total Co									-	_		CC. eric. carroll & wsp. cam
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				Eay '						(AO	V) 0928												3
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		Ì) 	3975	0.00						RCRA 8												2/6
1		3	w vkins	505-345-3975		_	SWIS				M) BO3												ઁ,
	7 -		www.ris	505		-	-CB,8				8081 P6												27.50
			490	<u> </u>			(OAM \ C															arks:	α
						-	(1508) 8) ×	У	×	X							Remarks:	\mathcal{C}
					3		C			2.3 (°C)	HEAL No.	100	700	003	750	500						Time 723	e Time
lime:	□ Rush		77				Jers - WS)	Corvol		ncluding CF): 2.3-8	Preservative L	HC1				K	77- 7		3 4	~ 3	-	Via: Date Date	Via:Codir Date
I urn-Around I	区 Standard	Project Name:	Lateral	Project #:	T-		Project Manager: B /のんと・	Sampler: E	olers:	Cooler Temp(including CF): 2	Container F	3 VOA			,	Ā						Received by:	Received by:
Chain-of-Custody Record	FOUN COINERS	· ~	3 /	3			iye <i>S & havvost mid Serenm.com</i> □ Level 4 (Full Validation)				Sample Name	MMZ	MW-3	MW-5	MW-6	NW.7						correctly	ed by:
J-Jo-u	Harvest	Jakha	S:				emall or Fax#:⊘ck/e _{y, Heye} ≲ QA/QC Package: ⊠ Standard □ □	□ Az Co			Matrix	EN			,	>						Relinquished by:	Relinquished by:
hain	He	. 0	Addres		.ند		rax#:. ackage	ation:	EDD (Type)		Time	14:32	14:35	14:45	14:15	14:00						Time: 1545	Time:
ပ	Client:		Mailing Address:		Phone #		email or rax#:∈ QA/QC Package: ⊠ Standard	Accreditation:	□ EDD		Date	8-0	_			*						Date: 7	Date: 1



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

January 20, 2022

Brooke Herb

Harvest 1755 Arroyo Dr.

Bloomfield, NM 87413 TEL: (505) 632-4475

FAX

RE: Lateral L2 OrderNo.: 2201617

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/15/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: HP01

 Project:
 Lateral L2
 Collection Date: 1/12/2022 11:30:00 AM

 Lab ID:
 2201617-001
 Matrix: GROUNDWA
 Received Date: 1/15/2022 8:11:00 AM

Result **PQL Qual Units DF** Date Analyzed **Analyses Batch EPA METHOD 8015M/D: DIESEL RANGE** Analyst: SB Diesel Range Organics (DRO) ND 1.4 mg/L 1/19/2022 2:24:31 PM 65057 Motor Oil Range Organics (MRO) ND 7.0 mg/L 1/19/2022 2:24:31 PM 65057 Surr: DNOP 84.6 64.8-167 %Rec 1/19/2022 2:24:31 PM 65057 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 1/18/2022 10:03:39 AM G85236 Gasoline Range Organics (GRO) ND 0.050 mg/L 1 Surr: BFB 94.8 68.5-136 %Rec 1/18/2022 10:03:39 AM G85236 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 1/18/2022 10:03:39 AM B85236 Benzene ND 1.0 μg/L 1 Toluene ND 1.0 μg/L 1/18/2022 10:03:39 AM B85236 Ethylbenzene ND 1.0 μg/L 1/18/2022 10:03:39 AM B85236 Xylenes, Total ND 2.0 μg/L 1/18/2022 10:03:39 AM B85236 Surr: 4-Bromofluorobenzene 108 70-130 %Rec 1/18/2022 10:03:39 AM B85236

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

Qualifiers:

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

Page 1 of 9

Date Reported: 1/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: HP02

 Project:
 Lateral L2
 Collection Date: 1/12/2022 12:00:00 PM

 Lab ID:
 2201617-002
 Matrix: GROUNDWA
 Received Date: 1/15/2022 8:11:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE					Analys	:: SB
Diesel Range Organics (DRO)	ND	1.4	mg/L	1	1/19/2022 2:48:21 PM	65057
Motor Oil Range Organics (MRO)	ND	7.0	mg/L	1	1/19/2022 2:48:21 PM	65057
Surr: DNOP	79.4	64.8-167	%Rec	1	1/19/2022 2:48:21 PM	65057
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/18/2022 10:27:05 AM	G85236
Surr: BFB	97.1	68.5-136	%Rec	1	1/18/2022 10:27:05 AM	I G85236
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	1.0	μg/L	1	1/18/2022 10:27:05 AM	B85236
Toluene	ND	1.0	μg/L	1	1/18/2022 10:27:05 AM	B85236
Ethylbenzene	ND	1.0	μg/L	1	1/18/2022 10:27:05 AM	B85236
Xylenes, Total	ND	2.0	μg/L	1	1/18/2022 10:27:05 AM	B85236
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	1/18/2022 10:27:05 AM	B85236

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

Qualifiers:

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

Page 2 of 9

Date Reported: 1/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: HP03

Project: Lateral L2 Collection Date: 1/12/2022 12:20:00 PM

Lab ID: 2201617-003 **Matrix:** GROUNDWA **Received Date:** 1/15/2022 8:11:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE					Analyst	: SB
Diesel Range Organics (DRO)	ND	1.4	mg/L	1	1/19/2022 3:12:10 PM	65057
Motor Oil Range Organics (MRO)	ND	7.0	mg/L	1	1/19/2022 3:12:10 PM	65057
Surr: DNOP	91.7	64.8-167	%Rec	1	1/19/2022 3:12:10 PM	65057
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/18/2022 10:50:37 AM	G85236
Surr: BFB	95.5	68.5-136	%Rec	1	1/18/2022 10:50:37 AM	G85236
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	μg/L	1	1/18/2022 10:50:37 AM	B85236
Toluene	ND	1.0	μg/L	1	1/18/2022 10:50:37 AM	B85236
Ethylbenzene	ND	1.0	μg/L	1	1/18/2022 10:50:37 AM	B85236
Xylenes, Total	ND	2.0	μg/L	1	1/18/2022 10:50:37 AM	B85236
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	1/18/2022 10:50:37 AM	B85236

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

Qualifiers:

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

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Date Reported: 1/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: HP04

 Project:
 Lateral L2
 Collection Date: 1/12/2022 12:45:00 PM

 Lab ID:
 2201617-004
 Matrix: GROUNDWA
 Received Date: 1/15/2022 8:11:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE					Analyst	SB
Diesel Range Organics (DRO)	ND	1.4	mg/L	1	1/19/2022 3:36:00 PM	65057
Motor Oil Range Organics (MRO)	ND	7.0	mg/L	1	1/19/2022 3:36:00 PM	65057
Surr: DNOP	89.6	64.8-167	%Rec	1	1/19/2022 3:36:00 PM	65057
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/18/2022 11:14:10 AM	G85236
Surr: BFB	97.1	68.5-136	%Rec	1	1/18/2022 11:14:10 AM	G85236
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	μg/L	1	1/18/2022 11:14:10 AM	B85236
Toluene	ND	1.0	μg/L	1	1/18/2022 11:14:10 AM	B85236
Ethylbenzene	ND	1.0	μg/L	1	1/18/2022 11:14:10 AM	B85236
Xylenes, Total	ND	2.0	μg/L	1	1/18/2022 11:14:10 AM	B85236
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	1/18/2022 11:14:10 AM	B85236

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

Qualifiers:

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

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Date Reported: 1/20/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: HP05

 Project:
 Lateral L2
 Collection Date: 1/12/2022 1:10:00 PM

 Lab ID:
 2201617-005
 Matrix: GROUNDWA
 Received Date: 1/15/2022 8:11:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE					Analyst	: SB
Diesel Range Organics (DRO)	ND	1.4	mg/L	1	1/19/2022 3:59:49 PM	65057
Motor Oil Range Organics (MRO)	ND	7.0	mg/L	1	1/19/2022 3:59:49 PM	65057
Surr: DNOP	89.0	64.8-167	%Rec	1	1/19/2022 3:59:49 PM	65057
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/18/2022 11:37:43 AM	G85236
Surr: BFB	97.9	68.5-136	%Rec	1	1/18/2022 11:37:43 AM	G85236
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	μg/L	1	1/18/2022 11:37:43 AM	B85236
Toluene	ND	1.0	μg/L	1	1/18/2022 11:37:43 AM	B85236
Ethylbenzene	ND	1.0	μg/L	1	1/18/2022 11:37:43 AM	B85236
Xylenes, Total	ND	2.0	μg/L	1	1/18/2022 11:37:43 AM	B85236
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	1/18/2022 11:37:43 AM	B85236

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

Qualifiers:

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

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CLIENT: Harvest

Analytical Report

Lab Order **2201617**Date Reported: **1/20/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: HP06

Project: Lateral L2 **Collection Date:** 1/12/2022 1:30:00 PM

Lab ID: 2201617-006 **Matrix:** GROUNDWA **Received Date:** 1/15/2022 8:11:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE					Analyst	:: SB
Diesel Range Organics (DRO)	ND	1.4	mg/L	1	1/19/2022 4:23:38 PM	65057
Motor Oil Range Organics (MRO)	ND	7.0	mg/L	1	1/19/2022 4:23:38 PM	65057
Surr: DNOP	83.4	64.8-167	%Rec	1	1/19/2022 4:23:38 PM	65057
EPA METHOD 8015D: GASOLINE RANGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	1/18/2022 12:01:11 PM	1 G85236
Surr: BFB	99.3	68.5-136	%Rec	1	1/18/2022 12:01:11 PM	1 G85236
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	1.0	μg/L	1	1/18/2022 12:01:11 PM	1 B85236
Toluene	ND	1.0	μg/L	1	1/18/2022 12:01:11 PM	1 B85236
Ethylbenzene	ND	1.0	μg/L	1	1/18/2022 12:01:11 PM	1 B85236
Xylenes, Total	ND	2.0	μg/L	1	1/18/2022 12:01:11 PM	1 B85236
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	1/18/2022 12:01:11 PM	1 B85236

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

Qualifiers:

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

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2201617**

20-Jan-22

Client: Harvest
Project: Lateral L2

Sample ID: MB-65057 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Client ID: PBW Batch ID: 65057 RunNo: 85257 Prep Date: 1/18/2022 Analysis Date: 1/19/2022 SeqNo: 3000145 Units: mq/L SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Diesel Range Organics (DRO) ND 1.0 Motor Oil Range Organics (MRO) ND 5.0 Surr: DNOP 0.51 0.5000 103 64.8 167

Sample ID: LCS-65057 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Client ID: LCSW Batch ID: 65057 RunNo: 85257 Prep Date: SeqNo: 3000146 1/18/2022 Analysis Date: 1/19/2022 Units: mg/L Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 2.1 1.0 2.500 0 82.2 70 130 Surr: DNOP 0.22 0.2500 89.4 64.8 167

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2201617**

20-Jan-22

Client: Harvest
Project: Lateral L2

Surr: BFB

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBW Batch ID: G85236 RunNo: 85236

Prep Date: Analysis Date: 1/18/2022 SeqNo: 2998585 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 19 20.00 95.0 68.5 136

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSW Batch ID: G85236 RunNo: 85236

21

Prep Date: Analysis Date: 1/18/2022 SeqNo: 2998586 Units: mg/L

20.00

SPK value SPK Ref Val HighLimit Analyte Result PQL %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 0.48 0.050 0.5000 96.1 80

107

68.5

136

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **2201617**

20-Jan-22

Client: Harvest
Project: Lateral L2

Sample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBW Batch ID: **B85236** RunNo: 85236 Prep Date: Analysis Date: 1/18/2022 SeqNo: 2998610 Units: µg/L SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result **PQL** Qual Benzene ND 1.0 Toluene ND 1.0 ND Ethylbenzene 1.0 Xylenes, Total ND 2.0 Surr: 4-Bromofluorobenzene 22 20.00 108 70 130

Sample ID: 100ng btex lcs	Sampl	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batcl	h ID: B8	5236	F	RunNo: 8	5236				
Prep Date:	Analysis D	Date: 1/	18/2022	5	SeqNo: 2	998611	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.6	80	120			
Toluene	20	1.0	20.00	0	98.2	80	120			
Ethylbenzene	19	1.0	20.00	0	97.0	80	120			
Xylenes, Total	58	2.0	60.00	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	22		20.00							

Qualifiers:

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

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

Website: clients.hallenvironmental.com

Sample Log-In Check List

Completed By: Cheyenne Cason 1	/15/2022 8:11:00 AM			
M			Chul	
	/15/2022 8:52:22 AM		Chul	
Reviewed By: 1-17-22			June	
Chain of Custody				
l. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present
How was the sample delivered?		Courier		
Log In				
. Was an attempt made to cool the samples?		Yes 🗸	No 🗌	NA 🗌
. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆
. Sample(s) in proper container(s)?		Yes 🗸	No 🗌	
Sufficient sample volume for indicated test(s)?	۶ .	Yes 🗸	No 🗌	
Are samples (except VOA and ONG) properly pr	eserved?	Yes 🗸	No 🗌	
. Was preservative added to bottles?	,	Yes	No 🗸	NA 🗌
. Received at least 1 vial with headspace <1/4" for	AQ VOA?	Yes 🗸	No 🗌	NA 🗌
). Were any sample containers received broken?	5	Yes	No 🗸	# of preserved
. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	,	res 🗹	No 🗌	bottles checked for pH: (<2 or >12 unless noted)
Are matrices correctly identified on Chain of Cust	ody?	res 🗸	No 🗌	Adjusted?
Is it clear what analyses were requested?	Y	es 🗸	No 🗌	
. Were all holding times able to be met? (If no, notify customer for authorization.)	Y	′es 🗸	No 🗌	Checked by: JN 1772
ecial Handling (if applicable)			_	,
. Was client notified of all discrepancies with this o	order?	Yes 🗌	No 🗌	NA 🗹
Person Notified:	Date:	And the Colonial Colo	we was the settlement to a	
By Whom:	Via:	eMail 🗌	Phone Fax	☐ In Person
Regarding:	Microsophic Sections of Control		PRESIDENT CONTRACTOR THE PARTY OF	ACCOUNT CALLS AND ACCOUNT OF THE PARTY OF TH
Client Instructions:	Western Company of the Company of th	PROFILE BOOK OF THE PROFILE STORY	CONTRACTOR OF THE PERSON NAMED IN CONTRA	
Additional remarks: DRO Analysed Fr	om HCL - 40m	LVBA	- gamples	will be extractal at a dila
Cooler Information				50 1.17-21
Cooler No Temp °C Condition Seal In 1 0.2 Good Yes	tact Seal No Sea	al Date	Signed By	

J	hain	1-of-C	Chain-of-Custody Record	Turn-Around	Time:												Receiv	
Client:	,								I	ALI		IVI	80	HALL ENVIRONMENTAL			ed b	
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Phone #:	#								†0-00	2,66-	Anal	vsis Re	303-343-4107 Reguest	410/			22 1	100000
email o	ır Fax#:	Barley, H	email or Fax#: Cokley, Hays & harres &, Co m	Project Manag	iger:			((ÞC		(1				1:04	
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Accreditation:	itation: AC	☐ Az Cor☐ Other	☐ Az Compliance	Sampler:	E. Carroll	. [0.0000000		1/78 4	NO ⁵						r	
	□ EDD (Type)			# of Coolers:		2		10000			'£C	₹O/						
				Cooler Temp	(including CF): \mathcal{O}	Cooler Temp(including CF): $O.1 \neq O.1 = O.2$ (°C)		9500 (000										
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	YXETEX !	108:Hq7 991 Pe	EDB (We	SAHs by	1, F, Br	OV) 092: e2) 072:	otal Col					
(//	11:30	6-W	HPOI	1	HC)											\dagger		_
n constituents	12:06	-	HPO2		,	607	< >			_		12.77				+	-	_
	17:30		HP03			8	< >	-		-						+		_
	13:45		HPO4			had	· ×					-				\vdash		
	13:10	9	HP05	,	/	500	×											_
> (13:30	>	HPOG)	1	900	X	,		_				-		+		
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									+			+				-		
	Time:	Relinquished by:	ed by:	Received by:	Via: I	, Date Time	Remarks:	ķ:	1	-	1	-	1			+	T	
	13,00	and of	i cural	The state of	Carp	13 13	22										Pag	
.: -	Time:	Reling	ed by:	Received by:	Via:	Date Time											e 93	
14/22	1802	130	Motor Waller	En ca	Carry 11	1/16/22 OBIG CALLISTA	3/4										of I	
=	necessary,	samples sub	l Environmental may be subcα	intracted to other ac	credited laborator	ies. This serves as notice of	this possibility	. Any su	b-contra	ted data	will be cl	arly not	ated on t	ne analytic	al report		T 0 2	

APPENDIX B: BORE LOGS

Elevation: Gravel Pack: 10-20-Silica- Casing Type:	Sand *	Detector:	Ive bo	PID wkfil),	silty	1	Boring/Well Date: Logged By: Drilling Met Seal:	IG LOG/N Number: M M 10 - 3 - Danny hod: Excar	848 E Durai 40Ni /-)	FORING W	Project: Lateral Project Number: 034018 Drilled By: Danny I Sampling Method: NA Grout: NA Hole Diameter:	L-2 3012 Burns Depth to Liquid:
Schedule 40 Screen Type: Schedule 40 Sched			Slot: 0.0	10"			Diameter:	z ^r	Length:	5'	Total Depth: 7	Depth to Water:
Penetration Resistance Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type		L	ithology/Rer	narks	Z' PVC Well stick Completion
moist		No		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 15 15 15 15 15				moist med so mater TD wo	and and cal, ell c	NO Stain Black 10 Organic asing Plan tion Clea	ose Worsanic odor	notive material backfills sand

Elevation: 5660' Gravel Pack: 10-20-Silica-Sand Casing Type:	Detector:	PID Ica Sand	Pre-pac	K	BORIN Boring/Well Date: Logged By: Drilling Met Seal:	848 E. 2nd Durango, G LOG/MONITORI Number: MW-7 1/31/2018 E. Carroll	Opportunity d Ave Colorado 81301 ING WELL COMPLETIC Project: Latera Project Number: 03401 Drilled By: LT Sampling Method: NA Grout: Hole Diameter:	1 L-2 8012 E
Schedule 40 PVC Screen Type: Schedule 40 PVC	Slot:	0.010"		_	Diameter:	Length:	Total Depth:	Depth to Water:
Resistance Moisture Content Avapor (ppm)	HC Staining?		Sample Run	Recovery			ogy/Remarks	Well Completion
moist 63.0 moist 63.0 moist 63.0 typist 3.7 wet 0:6	Ne	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 15 15 15 15 15				Moist, lorse no : SAA W/ White Black Sand W/o	sandstone cobbles rganic mutter lesse rganic odor nostain Increasing Hoo Suturation	VYXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Literal L4					Legind # Wat	L I	Advancing Opposite Advancing Opp	ve Norado 81301	TION DIAGRAM
						Boring/Well	Number:	Project:	ral L-2
						Date:	MW-3	Project Number:	018012
de la companya di salah di sa						Logged By:	1/31/2018	Drilled By:	TE
Elevation:	Detector:			1 20 56		Drilling Met		Sampling Method:	NA
5660' Gravel Pack:			PID _	<u>.</u> . <u>-</u>		Seal:	Hand Auger	Grout:	
10-20 Silica Sand Casing Type:	90 x 40 Si	lica s	and Pi	le-Pack	τ	Diameter:	Length:	Hole Diameter:	Depth to Liquid:
Screen Type:		lot:		<u>.</u>		Diameter:	1" 5 Length: 5	Total Depth:	Depth to Water:
Schedule 40 PVC	50	0.0	10"	<u> </u>			<u> </u>	7	
Penetration Resistance Moisture Content	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/	Remarks	Well Completion
moise 1.1	NO	N/A	0	NA			loose 16. brown 1	ned grain Sund	۸~ ((× × ۲
			1 _	‡			No Stain/Odo.	<i>r</i>	+××1
moist 1.0	No	NA	2 _	† <i>NA</i>			5 A A		+x' -x'.
moist 1.0		, , ,	3	<u> </u>			J / 1 / 1		+ × × • × × × × × × × × × × × × × × × ×
	NO	N.	4 _	MA			5 A A		1×19××
mois, O.B			5	+					1×× ××
	0.54	NΑ	6						+*************************************
wet 0.6	100	א עז		 			loose It brown w/ It grey mott	med grain Sun	《天》目 × ×
			7	∄			Will grey moth	le 3 H ₃ 0 Saturate	**************************************
wet 0.6	No	√ ∧	8 _	1 ~~		<u> </u>	SAA		
			9 -	\prod					+
			10	† 			TD ≈ 8'		+
		;	11	<u> </u>			TD ≈ 8'		‡
			12	<u> </u>					‡
			13	\dagger					<u> </u>
			14	\prod					+
			•	#					Ţ
		·	15	Ш	<u>L</u> .				

Elevation: 5660' Gravel Pack: 10-20 Silica S Casing Type:		Detector:	Silica	PID Sord	Pre-pack			1/31/2018 E. Carroll	e orado 81301	L-2 3012 E Depth to Liquid:
Schedule 40 I Screen Type:			Slot:	10"		_	Diameter:	Length: 5 Length:	Total Depth:	Depth to Water:
Resistance Moisture Content	Vapor (ppm)	HC Staining?	ple #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/R		Well Completion
moist moist moist moist	1.8 2.1 2.2	NO NO		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15				1005e, It. brown in moist No Stain 1 SAA 1005e It. grey C Hod Satuarated No Stain lod. TD = 8.51 DTW = 61	Oo-1se Sand	* * * * * * * * * * * * * * * * * * *

Lateral L2		e e e e e e e e e e e e e e e e e e e					Lapind # Yes	RORIN	Advancing Oppor 848 E. 2nd Ave Durango, Colo G LOG/MONITORING W	rado 81301	ION DIAGRAM
							1	Boring/Well		Project: Later	
	1							Date:	1/31/2018	Project Number: 0340	
			8.1	4				Logged By:	E. Carroll	Drilled By:	
Elevation:			Detector:			1008		Drilling Met	hod:	Sampling Method:	
Gravel Pack:					PID	<u> </u>		Seal:	Hand Auger	Grout:	
1 0-20 Sil Casing Type:		<i>¥</i>	70 x 40	<u>Silica s</u>	iand Pr	e- <u>Pack</u>		Diameter:	Length:	Hole Diameter:	Depth to Liquid:
Screen Type:			· <u> </u>	Slot:	101		-	Diameter:	Length: 5	Total Depth: 7.5	Depth to Water:
Penetration Resistance Moisture	$\neg T$	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Re		Well Completion
inoi	St	13,5	V6	NA	0 1 2 3 3	 \/\^ -			100se It brown n Moist No Stain	ned sand	*
	^-\		NO.	MA	5 _	N/A			SAA		*
	с <i>1</i>	1,8	//®	VA	7 8 9	NA.		:	100se It grey Ca Hao Saturated No Stain	orrse somo	
					11 _ 12 _ 13 _ 14 _ 15				TD≈ 7.5' DTW≈45'		+ + + + + + + + + + + +

	9/9			Z September	nic valkio vei				Advancing Oppo	ortunity	-		
								848 E. 2nd Ave Durango, Colorado 81301					
								BORING LOG/MONITORING WELL COMPLETION DIAGRAM					
			il i	7/				Boring/We	MW-6	Project: Lateral	L-2		
			25 0					Date:	AW 6 4/24/18	Project Number: 034018	012		
GRAF		1				* **		Logged By	Danny Burns	Drilled By: Enviro			
Elevation:			Detector:		PID			Drilling Me	thod: Hand Auger Hollow Stem	Sampling Method: Han	d Auger		
Gravel Pa	ck: 20 Silica	Sand						Seal:	NA	Grout:			
Casing Ty								Diameter:	2 Length: 5	Hole Diameter:	Depth to Liquid:		
Screen Ty	pe:			Slot:	100			Diameter	2'1' Length: 5	Total Depth:	Depth to Water:		
	edule 40		دې.	Į.)10" 	1		· ·	<i>V</i> 1 5	<u> </u>	~ 3		
Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/R	emarks	Well Completion		
	ργ	0.0	No		0			sP	Loose, dry, it, brown,	med-Coarse Sand			
	<u> </u>				1 -					-			
	maist	0-0	NO		2	<u> </u>		sp	Losse, moist, It, brow Sand	in, med-coarse			
	-				3 _					-			
	Wb	0.0	NO		4 _	†		5P	SAA	- -	 		
					5 _	Ĭ				-			
	net	1.4	MO		6 _			5 e		Loose, Saturated, orey, coarse soult,			
		<u> </u>			7				Some clay < 30;	r_c	<u> </u>		
	Wet	58.0	No		8	-		SC	SAA				
					9 _					_			
 					10								
				!	11				Refusal @ 8	-	-		
	,				12	-				-	-		
					13		į			-			
					14					-	[
					15						_		

Elevation: Detector: PID Gravel Pack: 10-20 Silica Sand Casing Type: Schedule 40 PVC Screen Type: Schedule 40 PVC Screen Type: Schedule 40 PVC Screen Type: Schedule 40 PVC O.010"							Boring/Wel Date: Logged By: Drilling Met Seal: Diameter:	IG LOG/MONITORING Number: MW-7 4/24/14 Evic Carroll Danny Burns	Project Number: Orilled By: Sampling Method:	rion diagram ral L-2 018012 ro Drill Spoon Depth to Liquid: Depth to Water:	
Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/	Remarks	Well Completion
	moist wet	3.0 3.7 \$56.0	NO NO NO		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 15 15 15 15 15			5P 5P SC CL	1005e, It. brown, m 1005e, moist, It. b Sand SAA 1005e, Saturated, 9 Gome Clay > i compact, Saturated 1een Clay 7309	rown, mcd-course rey, Sand 5% 49 rey, Sandy	<u> </u>

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

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

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

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

CONDITIONS

Action 92435

CONDITIONS

Operator:	OGRID:		
Harvest Four Corners, LLC	373888		
1755 Arroyo Dr	Action Number:		
Bloomfield, NM 87413	92435		
	Action Type:		
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)		

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Revised Stage 1 Abatement Plan has been accepted as part of the incident record. App ID: 92435	11/5/2024