REVIEWED
By Mike Buchanan at 11:35 am, Jul 03, 2023

ENSOLUM

March 30, 2023

New Mexico Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Review of the 2022 Annual Groundwater Monitoring Report, Pritchard #2A: **Content Satisfactory.**
1.Continue to gauge depth to water and conduct all sampling activities for monitoring wells.
2. Continue to use product recovery socks and manual bailing of PSH. Re-install pneumatic PSH recovery system.
3. Submit annual GW monitoring report by March 31, 2024.

Re: 2022 Annual Groundwater Monitoring Report
Pritchard #2A
San Juan County, New Mexico
Harvest Four Corners, LLC
NMOCD Incident No: nAUTOfAB000453
Remediation Permit Number: 3RP-339-0

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Harvest Four Corners, LLC (Harvest), has prepared this report detailing annual groundwater monitoring activities completed between January 2022 and December 2022 at the Pritchard #2A (Site), Remediation Permit (RP) Number 3RP-339-0 and Incident Number nAUTOfAB000453. The purpose of this project was to continue phase-separated hydrocarbon (PSH) recovery and monitoring of petroleum hydrocarbon impacts to groundwater resulting from a release involving a former earthen dehydrator pit.

LOCATION

The Site is located at latitude 36.837444 and longitude -107.713236 in Unit J, Section 6, Township 30 North, Range 8 West (Figure 1). The Site is at the confluence of an unnamed tributary to La Manga Canyon, a tributary to Pump Canyon, in the San Juan Basin in San Juan County, New Mexico.

SITE HISTORY

The soil and groundwater impacts at the Site originated from two historical pits formerly operated by Gas Company of New Mexico (GCNM): a former dehydrator pit and a former abandoned pit, which are considered a single source due to their proximity to each other. In December 1997, approximately 800 cubic yards of impacted soil were excavated from the Site. Laboratory analytical results for soil samples collected from the floor of the two excavations indicated total petroleum hydrocarbons (TPH) - diesel range organics (DRO) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations exceeded the New Mexico Oil Conservation Division (NMOCD) standards. A groundwater sample collected from a monitoring well (MW-2) installed in the source area at approximately 76.5 feet below ground surface (bgs) contained 8,600 micrograms per liter (µg/L) of benzene. Sometime prior to April 2000, monitoring wells MW-1, MW-3, and MW-4 were installed, and in April 2000, MW-5 and MW-6 were installed at the Site. Williams Four Corners LLC (Williams) purchased the Site from Public Service Company of New Mexico (PNM) in 2000 and assumed environmental liability for the Site. Between 2000 and December 2017, Williams monitored groundwater levels and quality at the

Site. Records regarding these activities are in previous groundwater reports submitted to the NMOCD.

On September 12, 2013, LT Environmental, Inc. (LTE) collected a sample of phase-separated hydrocarbons (PSH) from monitoring wells MW-2 and MW-4 for analysis of paraffins, isoparaffins, aromatics, naphthene, and olefins (PIANO) to speciate the chemical composition of the PSH and identify the potential for additional sources at the Site. The PSH samples collected indicated a natural gas condensate source; however, the results were inconclusive for differentiating two sources based on age or chemical composition. On November 5, 2013, LTE conducted a PSH bail down test in monitoring well MW-4 to assess potential PSH recovery options. All PSH was bailed down on November 5, 2013. PSH recovery was minimal, and only 12 percent (%) of the original PSH thickness had recovered within six days.

During 2018, Williams installed a solar powered pneumatic PSH recovery system in MW-6. Harvest purchased the facility from Williams on October 1, 2018, and retained LTE to continue operation and maintenance (O&M) of the PSH recovery system until its removal in November 2019. The PSH recovery system was rotated quarterly between Harvest sites and available to be reinstalled if a rebound in PSH thickness was observed in MW-6. The PSH recovery system was installed again in February 2020, moved in March 2020, and reinstalled from June 2020 to April 2021.

LTE conducted delineation activities in October 2019 by replacing damaged monitoring well MW-2 and installing monitoring wells MW-7 (downgradient point of compliance (POC)), MW-8 (cross-gradient), and MW-9 (downgradient POC).

In April 2022, Harvest retained Ensolum to continue groundwater monitoring and PSH recovery at the Site. In September 2022, Ensolum conducted additional delineation activities by drilling three soil borings and installing three monitoring wells, MW-10, MW-11, and MW-12, at the Site to further delineate petroleum hydrocarbon impacts to groundwater.

ADDITIONAL DELINEATION

Ensolum was on Site to install additional monitoring wells from September 19, 2022, to September 23, 2022. Monitoring well MW-10 was installed northeast of MW-2R, monitoring well MW-11 was installed west of MW-6, and MW-12 was installed northwest of MW-3. Monitoring wells were installed with a total depth of 90 to 100 feet bgs. Groundwater was encountered in the borings during drilling at approximately 80 feet bgs. Soil boring logs are presented in Appendix A.

Soil borings were drilled using a hollow stem auger and air rotary was implemented when bedrock was encountered (BH10). Soil was collected using a split spoon sampler and logged by an Ensolum geologist after drilling each 5-foot interval. Soil was inspected for the presence or absence of petroleum hydrocarbon odor and/or staining and was characterized by visually inspecting the soil samples and field screening the soil for headspace using a photo-ionization detector (PID) to monitor the presence of volatile organic vapors. Soil samples were submitted for laboratory analysis for the highest PID reading, and the bottom of the boring. Soil samples were placed in new laboratory supplied 4-ounce glass jars and submitted to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico, for analysis of BTEX by United States Environmental Protection Agency (USEPA) method 8021, and TPH – DRO, gasoline range organics (GRO) and motor range oil organics (MRO) by USEPA method 8015. Proper chain of custody procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analyses required, and sample collector's signature.

Groundwater monitoring wells were constructed by installing screened casing across the groundwater interface and solid casing to the surface. Wells were constructed out of 2-inch diameter schedule 40 polyvinyl chloride (PVC) casing and 2- inch PVC slotted screen. Wells were completed with 10-20 silica sand pack to two feet above the screened interval, followed by two feet of hydrated bentonite seal, capped with a bentonite cement slurry grout to the ground surface. The well was completed aboveground with a locking steel protective casing cemented into the ground.

MONITORING WELL DEVELOPMENT

Following well completion at least 24 hours after installation, each monitoring well was developed. An oil/water interface probe was used to measure depth to groundwater and total depth of each well. The wells were surveyed to obtain elevations above mean sea level for the top of casing. Monitoring wells were developed by purging 10 casing volumes, or until the monitoring well was purged dry.

PSH RECOVERY

In November 2019, Harvest installed a solar powered pneumatic pumping recovery system in monitoring well MW-6. The pump utilizes a hydrophobic and oleophilic skimmer that floats on the water column to remove PSH from the water-PSH interface. The system cycles between vacuum and pressure to move PSH to the surface, where it is containerized. The recovery system was removed from the Site in April of 2021 because of the low volume of PSH at the Site. The recovery system removed approximately 44.2 gallons of PSH from monitoring well MW-6 prior to being removed. After the recovery system was removed, product recovery socks were installed in monitoring wells MW-4 and MW-6 for continued passive recovery of PSH. During the 2022 monitoring year, 17 ounces of PSH was recovered from monitoring well MW-4, and 34 ounces of PSH was recovered from monitoring well MW-6.

GROUNDWATER AND PSH ELEVATIONS

Groundwater levels were monitored quarterly by recording depth to groundwater and depth to PSH measurements in the existing monitoring wells with an oil/water interface probe. The interface probe was decontaminated with Alconox™ soap and rinsed with distilled water prior to each measurement. Top-of-casing elevations from the survey were used to calculate groundwater potentiometric elevations, draft groundwater contours, and determine groundwater flow direction.

SITE GROUNDWATER CLEANUP STANDARDS

The NMOCD requires groundwater-quality standards be met as presented by the New Mexico Water Quality Control Commission (NMWQCC) and listed in Title 20, Chapter 6, Part 2, Section 3103 (20.6.2.3103) of the New Mexico Administrative Code (NMAC). The following standards are presented for the constituents of concern (COCs) at the Site in micrograms per liter (µg/L):

- Benzene: 5 µg/L
- Toluene: 1,000 µg/L
- Ethylbenzene: 700 µg/L
- Total Xylenes: 620 µg/L

GROUNDWATER SAMPLING

On September 30, 2022, monitoring wells MW-1, MW-2R, MW-5, MW-7, MW-8, MW-9, MW-10, MW-11, and MW-12 were purged and sampled using disposable polyethylene bailers. As groundwater was purged from each monitoring well, pH, electrical conductance (EC), and

temperature, were recorded for determining stabilization conditions prior to sampling. Monitoring wells were purged until a total of three casing volumes were removed or the well was purged dry, indicating that groundwater would be representative of aquifer conditions. Purged groundwater was containerized and disposed of at a nearby Harvest compressor station.

Groundwater samples were collected by filling three 40-milliliter (mL) glass vials from each well. The laboratory-supplied vials were filled and capped with zero headspace to prevent degradation of the sample. Samples were labeled with the date and time of collection, well designation, project name, sample collector's name, and parameters to be analyzed. They were immediately sealed, packed on ice, and submitted to HEAL in Albuquerque, New Mexico for analysis of BTEX following USEPA Method 8021. Proper chain-of-custody procedures were followed documenting the date and time sampled, sample number, type of sample, sample collector's name, preservative used, analyses required, and sample collector's signature.

Monitoring well MW-3 was not sampled in 2022 due to an obstruction in the well. Monitoring wells MW-4 and MW-6 were not sampled in 2022 due to the presence of PSH.

RESULTS

Depth to groundwater information, groundwater analytical results, and soil analytical results are provided in Tables 1, 2, and 3 respectively. Groundwater collection forms and analytical laboratory reports for the analyzed samples are included in Appendix B and Appendix C, respectively.

Groundwater-level measurements were collected in February, May, September, and December of 2022 within all wells. Based on data collected during the four quarterly events, the interpreted groundwater-flow direction is generally to the southeast (contours shown on Figures 2 through 5) and potentially affected by the dry wash. Contours were inferred based on groundwater elevations and physical characteristics at the Site (topography, proximity to irrigation ditches, etc.).

All monitoring wells on Site, except for MW-3, MW-4, and MW-6, were sampled on September 30, 2022. Benzene was detected in monitoring wells MW-1, MW-2R, MW-5, MW-11, and MW-12 at concentrations of 34 µg/L, 29 µg/L, 81 µg/L, 26 µg/L, and 9.8 µg/L respectively, which exceed the NMWQCC standard. PSH was observed in monitoring wells MW-4 and MW-6 and were not sampled on September 30, 2022. BTEX results and approximate plume extent are presented on Figure 4 and summarized in Table 2.

Soil analytical results were below laboratory reporting limits for all soil samples collected during drilling activities, except for sample interval BH11-74-76. The analytical results for the boring indicate a benzene concentration of 0.040 milligrams per kilogram (mg/Kg), total BTEX concentrations of 0.609 mg/Kg, and a total TPH concentration of 28 mg/Kg. Soil analytical results are summarized in Table 3.

CONCLUSIONS

Petroleum hydrocarbon impacts to groundwater have not been fully delineated at the Site to the north, west and south. Groundwater samples indicate dissolved phase concentrations of benzene exceed NMWQCC standards in monitoring wells MW-1, MW-2R, MW-5, MW-11, and MW-12. Trace amounts of PSH were observed in monitoring wells MW-4 and MW-6. Approximately 17 ounces of PSH were recovered from monitoring well MW-4 and 34 ounces were recovered from monitoring well MW-6 during 2022 through manual bailing and product recovery socks.

RECOMMENDATIONS

Based on current and historical data gathered at the Site, Ensolum/Harvest recommend the following actions:

- Continue quarterly gauging of depth to water/PSH and annual sampling of all monitoring wells on Site.
- Continue to use product recovery socks and manual bailing of PSH when present. If consistent and measurable PSH increases at the Site, the solar-sipper pneumatic recovery system will be re-installed where appropriate.
- Obtain a Right of Way (ROW) authorization from the Bureau of Land Management (BLM) to conduct additional soil boring delineation and monitoring well installation to the north, west, and south of the Site, to better constrain the extent of impacts to groundwater.
- Submit an annual report summarizing 2023 monitoring activities by March 31, 2024.

Ensolum appreciates the opportunity to provide these environmental services to Harvest. Please contact either of the undersigned with any questions.

Sincerely,

Ensolum, LLC

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Brooke Herb
Senior Geologist
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Attachments:

Figure 1: Site Location Map
Figure 2: Groundwater Elevation Map (February 2022)
Figure 3: Groundwater Elevation Map (May 2022)
Figure 4: Groundwater Elevation & Analytical Map (September 2022)
Figure 5: Groundwater Elevation Map (December 2022)

Table 1: Groundwater Elevations
Table 2: Groundwater Analytical Results
Table 3: Soil Analytical Results

Appendix A: Soil Boring Logs
Appendix B Groundwater Collection Forms
Appendix C: Laboratory Analytical Reports

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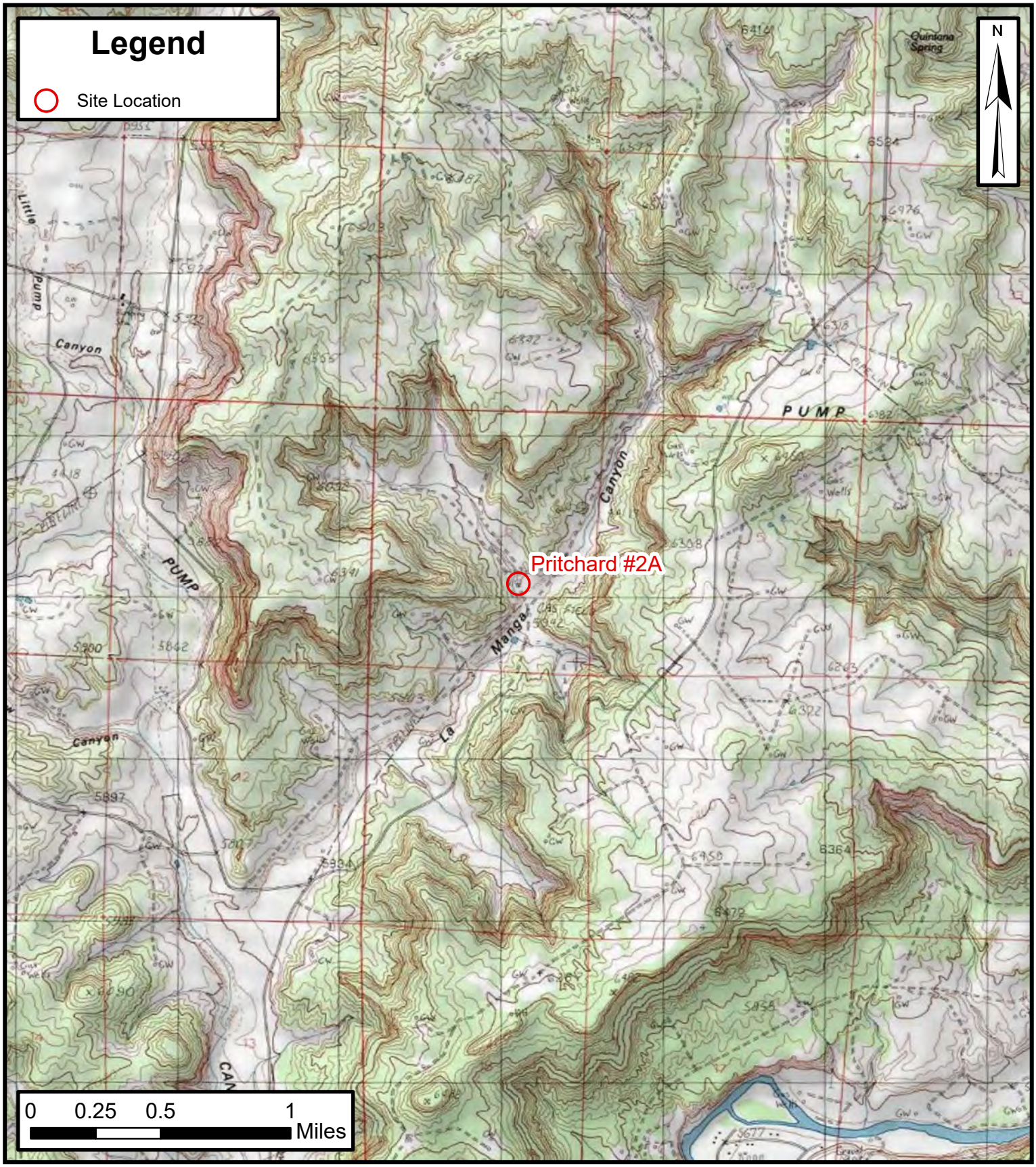
FIGURES



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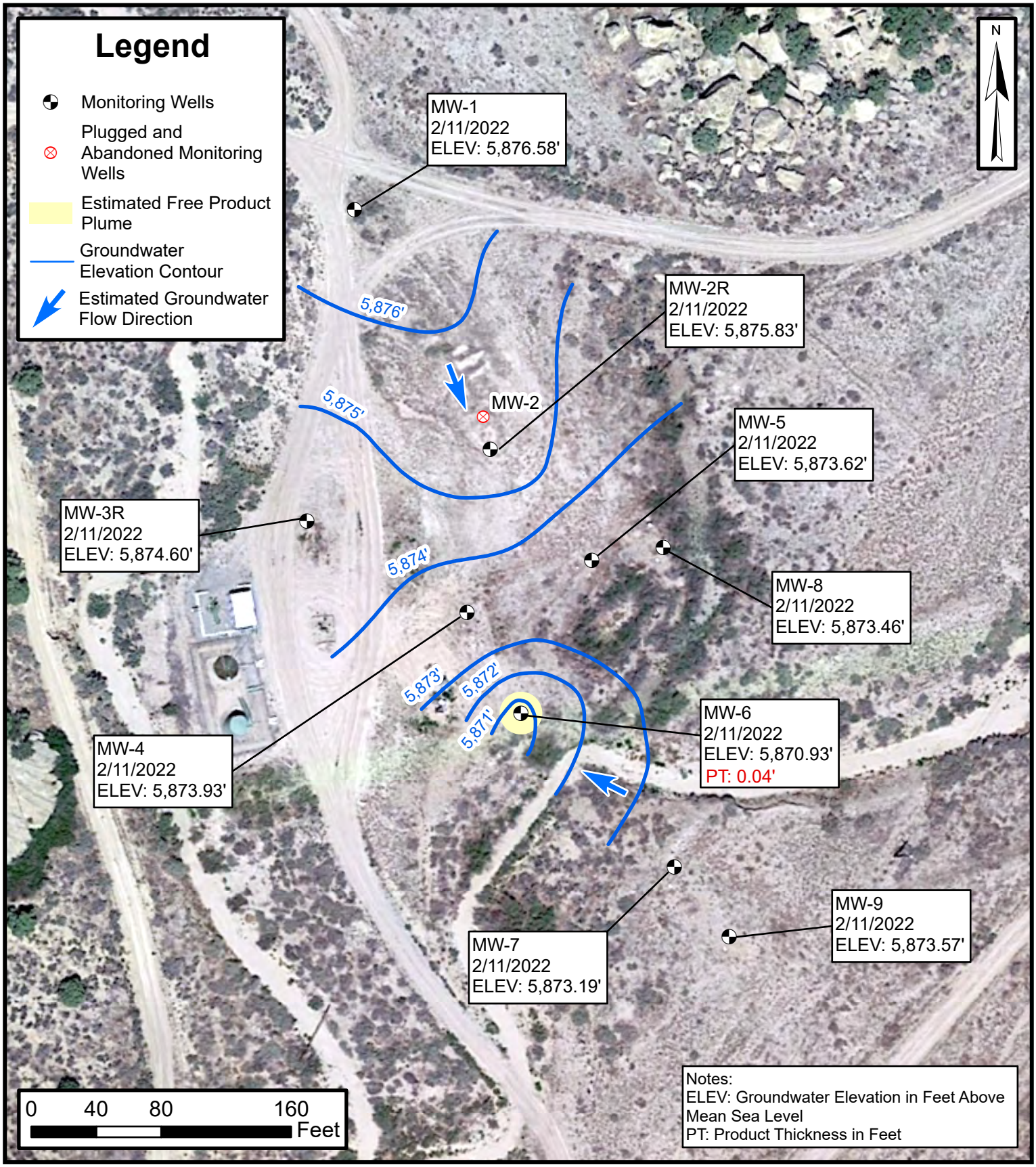
Environmental, Engineering and Hydrogeologic Consultants

Site Location Map

Pritchard #2A
Harvest Four Corners, LLC
36.83754, -107.71299
Sec 6, T30N, R8W
San Juan County, New Mexico

FIGURE
1

Sources: Environmental Systems Research Institute (ESRI), National Geographic Society, i-cubed



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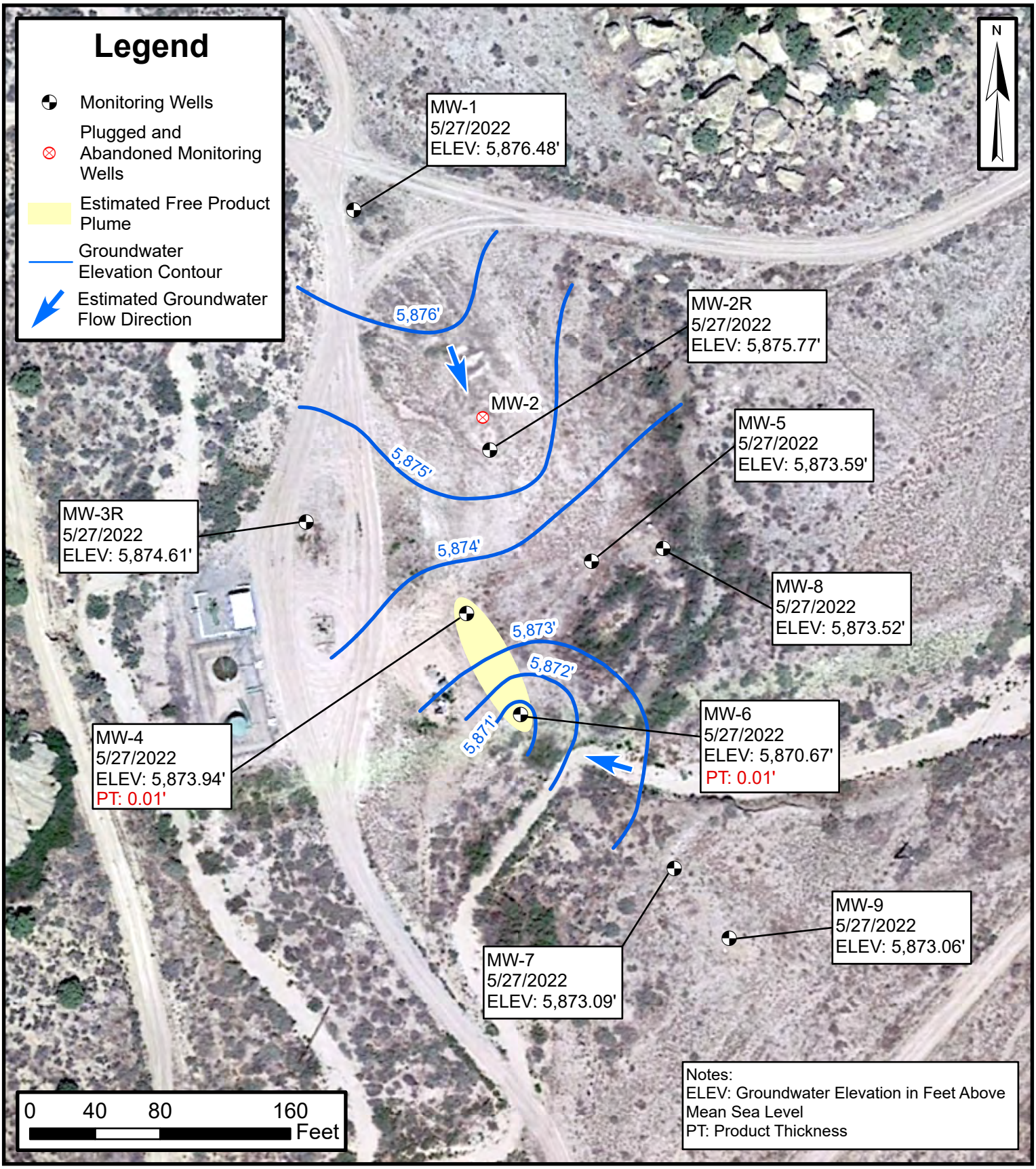
Groundwater Elevation (February 2022)

Pritchard #2A
Harvest Four Corners, LLC
36.83754, -107.71299
Sec 6, T30N, R8W
San Juan County, New Mexico

FIGURE
2

Sources: Google Earth



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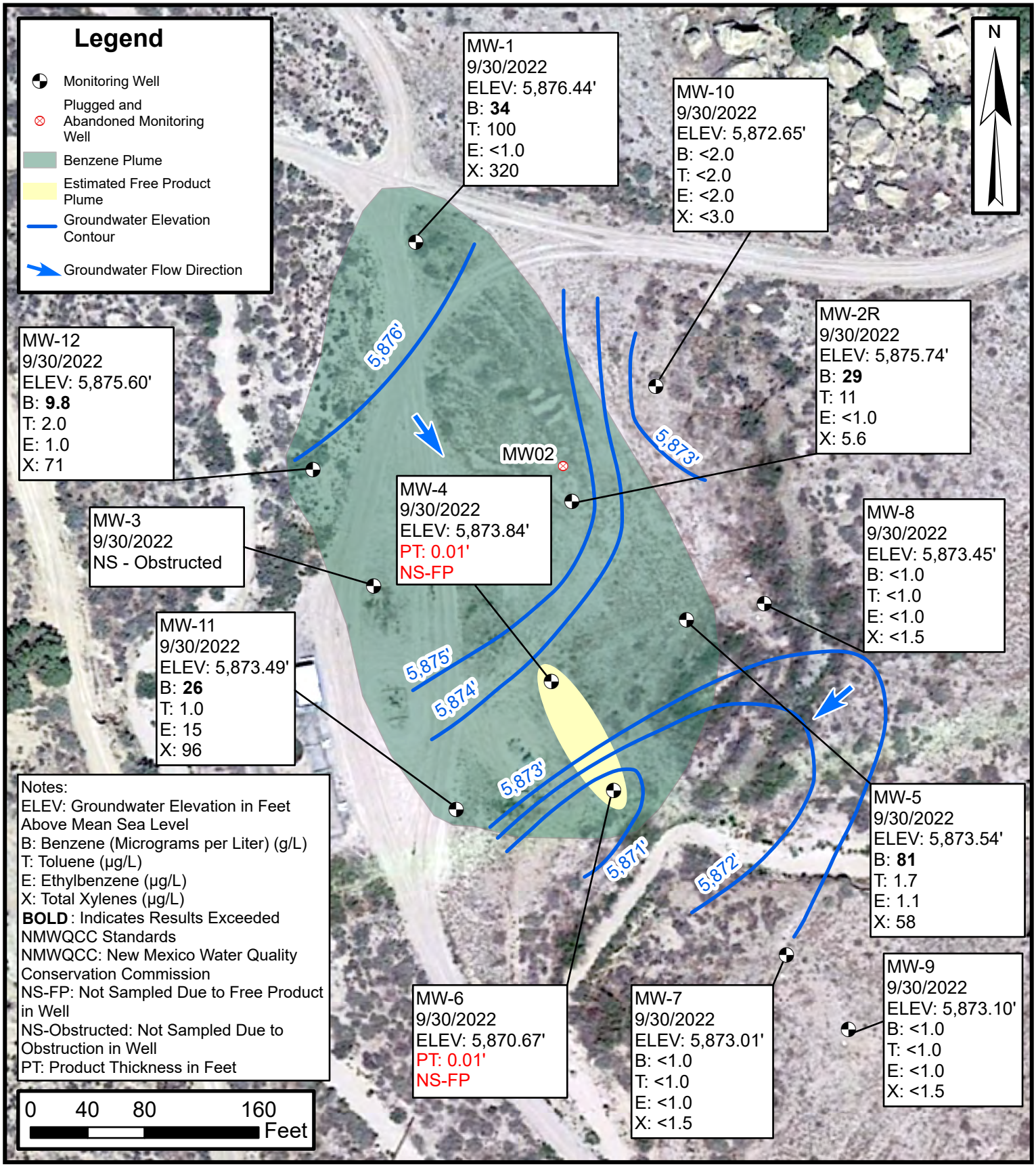
Groundwater Elevation (May 2022)

Pritchard #2A
Harvest Four Corners, LLC
36.83754, -107.71299
Sec 6, T30N, R8W
San Juan County, New Mexico

FIGURE
3

Sources: Google Earth



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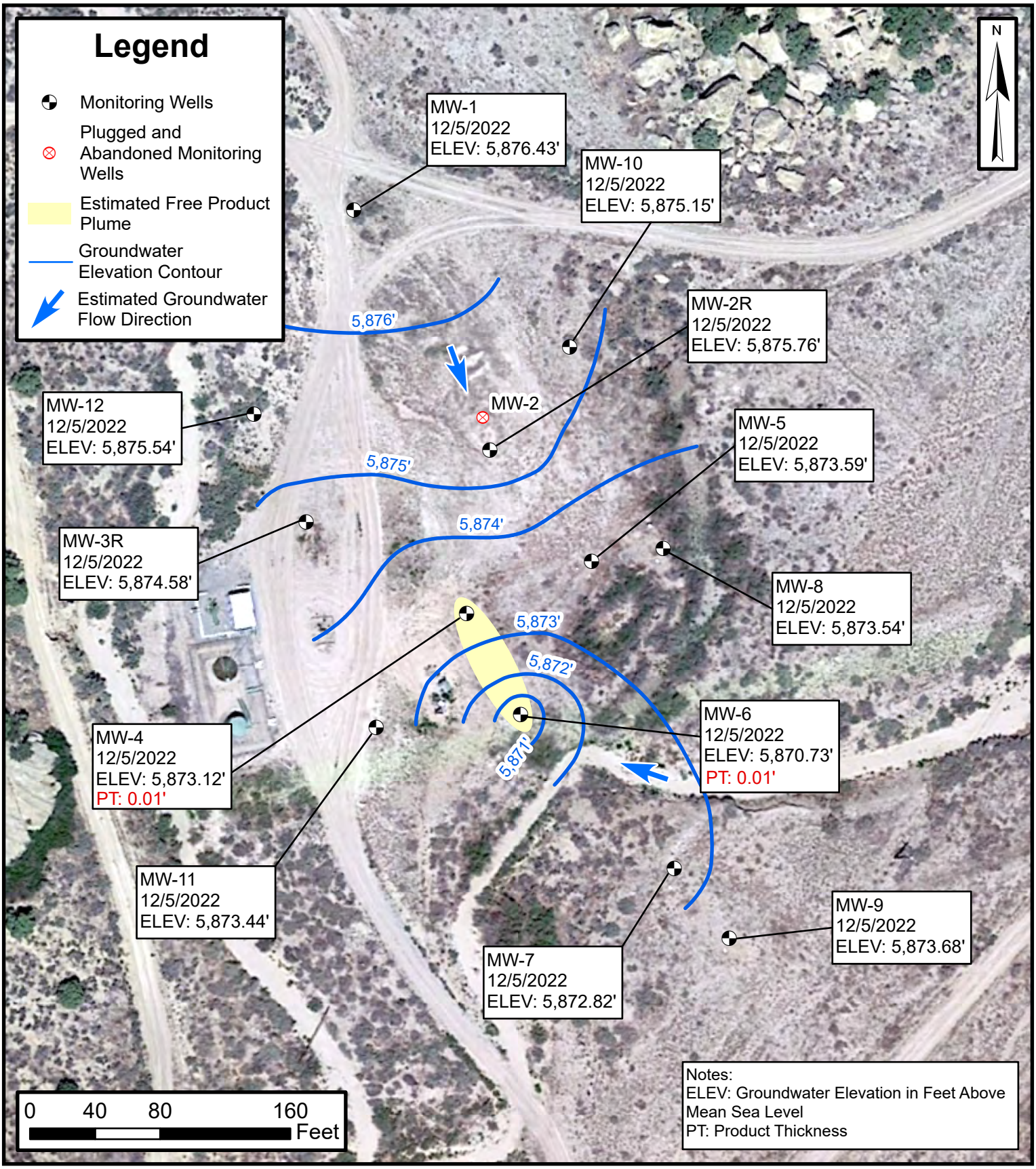
Groundwater Elevation and Analytical Results (September 2022)

Pritchard #2A
Harvest Four Corners, LLC
36.83754, -107.71299
Sec 6, T30N, R8W
San Juan County, New Mexico

FIGURE

4

Sources: Google Earth



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Groundwater Elevation (December 2022)

Pritchard #2A
Harvest Four Corners, LLC
36.83754, -107.71299
Sec 6, T30N, R8W
San Juan County, New Mexico

FIGURE
5

Sources: Google Earth

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TABLES

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TABLE 1
Groundwater Elevation
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-1	2/28/2013	5,966.76	82.06	NP	NP	5,884.70
	6/24/2013	5,961.21*	82.24	NP	NP	5,878.97
	9/12/2013		82.35	NP	NP	5,878.86
	12/6/2013		82.51	NP	NP	5,878.70
	3/19/2014		82.68	NP	NP	5,878.53
	6/12/2014		82.75	NP	NP	5,878.46
	9/11/2014		82.90	NP	NP	5,878.31
	12/8/2014		83.02	NP	NP	5,878.19
	3/10/2015		83.12	NP	NP	5,878.09
	6/15/2015		83.15	NP	NP	5,878.06
	9/24/2015		83.31	NP	NP	5,877.90
	12/19/2015		83.39	NP	NP	5,877.82
	9/8/2016		83.51	NP	NP	5,877.70
	3/28/2017		83.62	NP	NP	5,877.59
	6/27/2017		83.70	NP	NP	5,877.51
	11/5/2019	5,961.39***	84.03	NP	NP	5,877.36
	3/10/2020		84.35	NP	NP	5,877.04
	6/26/2020		84.40	NP	NP	5,876.99
	9/11/2020		84.44	NP	NP	5,876.95
	12/11/2020		84.43	NP	NP	5,876.96
	3/31/2021		84.68	NP	NP	5,876.71
	5/24/2021		84.61	NP	NP	5,876.78
	9/30/2021		84.73	NP	NP	5,876.66
	11/23/2021		84.71	NP	NP	5,876.68
	2/11/2022		84.84	NP	NP	5,876.55
	5/27/2022		84.91	NP	NP	5,876.48
	9/30/2022		84.95	NP	NP	5,876.44
	12/5/2022		84.96	NP	NP	5,876.43
MW-2	2/28/2013	5,963.03**	79.97	79.63	0.34	5,883.33
	6/24/2013	5,957.53*	79.90	79.62	0.28	5,877.85
	9/12/2013		80.06	79.78	0.28	5,877.69
	12/6/2013		DRY	DRY	DRY	DRY
	3/19/2014		DRY	DRY	DRY	DRY
	6/12/2014		DRY	DRY	DRY	DRY
	9/11/2014		DRY	DRY	DRY	DRY
	12/8/2014		DRY	DRY	DRY	DRY
	3/10/2015		DRY	DRY	DRY	DRY
	6/15/2015		DRY	DRY	DRY	DRY
	9/24/2015		DRY	DRY	DRY	DRY
	12/19/2015		DRY	DRY	DRY	DRY
	9/8/2016		DRY	DRY	DRY	DRY
	3/28/2017		DRY	DRY	DRY	DRY
	6/27/2017		DRY	DRY	DRY	DRY
MW-2R	11/5/2019	5,953.78***	77.51	NP	NP	5,876.27
	3/10/2020		77.56	NP	NP	5,876.22
	6/26/2020		77.64	NP	NP	5,876.14
	9/11/2020		77.70	NP	NP	5,876.08
	12/11/2020		77.67	NP	NP	5,876.11
	3/31/2021		77.82	NP	NP	5,875.96

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TABLE 1
Groundwater Elevation
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-2R	5/24/2021	5,953.78***	77.80	NP	NP	5,875.98
	9/30/2021		77.88	NP	NP	5,875.90
	11/23/2021		77.88	NP	NP	5,875.90
	2/11/2022		77.95	NP	NP	5,875.83
	5/27/2022		78.01	NP	NP	5,875.77
	9/30/2022		78.04	NP	NP	5,875.74
	12/5/2022		78.02	NP	NP	5,875.76
MW-3	2/28/2013	5,961.27	78.02	NP	NP	5,883.25
	6/24/2013	5,955.95*	78.22	NP	NP	5,877.73
	9/12/2013		78.37	NP	NP	5,877.58
	12/6/2013		78.51	NP	NP	5,877.44
	3/19/2014		78.71	NP	NP	5,877.24
	6/12/2014		78.84	NP	NP	5,877.11
	9/11/2014		79.01	NP	NP	5,876.94
	12/8/2014		79.18	NP	NP	5,876.77
	3/10/2015		79.29	NP	NP	5,876.66
	6/15/2015		79.40	NP	NP	5,876.55
	9/24/2015		79.55	NP	NP	5,876.40
	12/19/2015		79.63	NP	NP	5,876.32
	9/8/2016		79.90	NP	NP	5,876.05
	3/28/2017		80.17	NP	NP	5,875.78
	6/27/2017		80.20	NP	NP	5,875.75
	11/5/2019	5,956.12***	80.99	NP	NP	5,875.13
	3/10/2020		81.13	NP	NP	5,874.99
	6/26/2020		81.21	NP	NP	5,874.91
	9/11/2020		81.26	NP	NP	5,874.86
	12/11/2020		81.34	NP	NP	5,874.78
	3/31/2021		81.39	NP	NP	5,874.73
	5/24/2021		81.38	NP	NP	5,874.74
	9/30/2021		81.46	NP	NP	5,874.66
	11/23/2021		81.49	NP	NP	5,874.63
	2/11/2022		81.52	NP	NP	5,874.60
	5/27/2022		81.51	NP	NP	5,874.61
	9/30/2022		Obstructed			
	12/5/2022		81.54	NP	NP	5,874.58
MW-4	2/28/2013	5,960.42	79.55	77.97	1.58	5,882.13
	6/24/2013	5,955.12*	79.72	78.18	1.54	5,876.63
	9/12/2013		79.73	78.43	1.30	5,876.43
	12/6/2013		79.03	78.82	0.21	5,876.26
	3/19/2014		79.29	78.97	0.32	5,876.09
	6/12/2014		79.25	79.20	0.05	5,875.91
	9/11/2014		79.45	79.40	0.05	5,875.71
	12/8/2014		79.49	79.46	0.03	5,875.65
	3/10/2015		79.59	79.58	0.01	5,875.54
	6/15/2015		79.73	79.70	0.03	5,875.41
	9/24/2015		79.87	79.83	0.04	5,875.28
	12/19/2015		79.88	79.86	0.02	5,875.26
	9/8/2016		80.23	80.10	0.13	5,874.99

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TABLE 1
Groundwater Elevation
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-4	3/28/2017	5,955.12*	80.27	0.00	0.00	5,874.85
	6/27/2017		80.33	0.00	0.00	5,874.79
	9/6/2017		80.35	0.00	0.00	5,874.77
	11/5/2019	5,955.32***	81.13	81.10	0.03	5,874.21
	3/10/2020		81.07	81.00	0.07	5,874.31
	6/26/2020		81.27	81.23	0.04	5,874.08
	9/11/2020		81.10	Trace	Trace	5,874.22
	12/11/2020		81.19	NP	NP	5,874.13
	3/31/2021		81.41	NP	NP	5,873.91
	5/24/2021		81.13	NP	NP	5,874.19
	9/30/2021		81.28	81.18	0.10	5,874.12
	11/23/2021		81.22	81.17	0.05	5,874.14
	2/11/2022		81.39	NP	NP	5,873.93
	5/27/2022		81.39	81.38	0.01	5,873.94
	9/30/2022		81.49	81.48	0.01	5,873.84
	12/5/2022		81.21	81.20	0.01	5,874.12
MW-5	2/28/2013	5,960.41	78.20	NP	NP	5,882.21
	6/24/2013	5,955.09*	78.39	NP	NP	5,876.70
	9/12/2013		78.55	NP	NP	5,876.54
	12/6/2013		78.72	NP	NP	5,876.37
	3/19/2014		78.91	NP	NP	5,876.18
	6/12/2014		79.04	NP	NP	5,876.05
	9/11/2014		79.20	NP	NP	5,875.89
	12/8/2014		79.03	NP	NP	5,876.06
	3/10/2015		79.41	NP	NP	5,875.68
	6/15/2015		79.53	NP	NP	5,875.56
	9/24/2015		79.63	NP	NP	5,875.46
	12/19/2015		79.70	NP	NP	5,875.39
	9/8/2016		79.91	NP	NP	5,875.18
	3/28/2017		80.14	NP	NP	5,874.95
	6/26/2017		80.15	NP	NP	5,874.94
	11/5/2019	5,955.27***	80.96	NP	NP	5,874.31
	3/10/2020		81.09	NP	NP	5,874.18
	6/26/2020		81.17	NP	NP	5,874.10
	9/11/2020		81.25	NP	NP	5,874.02
	12/11/2020		81.27	NP	NP	5,874.00
	3/31/2021		81.41	NP	NP	5,873.86
	5/24/2021		81.44	NP	NP	5,873.83
	9/30/2021		81.56	NP	NP	5,873.71
	11/23/2021		81.60	NP	NP	5,873.67
	2/11/2022		81.65	NP	NP	5,873.62
	5/27/2022		81.68	NP	NP	5,873.59
	9/30/2022		81.73	NP	NP	5,873.54
	12/5/2022		81.68	NP	NP	5,873.59
MW-6	2/28/2013	5,958.24	67.56	NP	NP	5,890.68
	6/24/2013	5,952.97*	76.74	NP	NP	5,876.23
	9/12/2013		76.93	NP	NP	5,876.04
	12/6/2013		77.09	NP	NP	5,875.88

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TABLE 1
Groundwater Elevation
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-6	3/19/2014	5,952.97*	77.30	NP	NP	5,875.67
	6/12/2014		77.44	NP	NP	5,875.53
	9/11/2014		77.62	NP	NP	5,875.35
	12/8/2014		77.72	NP	NP	5,875.25
	3/10/2015		77.84	NP	NP	5,875.13
	6/15/2015		77.94	NP	NP	5,875.03
	9/24/2015		78.09	78.09	Trace	5,874.88
	12/19/2015		78.26	78.08	0.18	5,874.85
	9/8/2016		79.10	78.18	0.92	5,874.61
	3/28/2017		79.80	78.45	1.35	5,874.25
	6/27/2017		79.85	78.29	1.56	5,874.37
	9/6/2017		79.84	78.32	1.52	5,874.35
	11/5/2019	5,950.99***	80.14	79.49	0.65	5,871.37
	3/10/2020		79.83	79.72	0.11	5,871.25
	6/26/2020		79.78	79.49	0.29	5,871.44
	9/11/2020		79.55	79.48	0.07	5,871.50
	12/11/2020		79.78	79.76	0.02	5,871.23
	3/31/2021		80.28	80.22	0.06	5,870.76
	5/24/2021		79.84	79.81	0.03	5,871.17
	9/30/2021		77.64	77.46	0.18	5,873.49
	11/23/2021		80.10	80.01	0.09	5,870.96
	2/11/2022		80.09	80.05	0.04	5,870.93
	5/27/2022		80.33	80.33	0.01	5,870.67
	9/30/2022		80.33	80.32	0.01	5,870.67
	12/5/2022		80.26	80.26	<0.01	5,870.73
MW-7	11/5/2019	5,952.61***	79.13	NP	NP	5,873.48
	3/10/2020		78.87	NP	NP	5,873.74
	6/26/2020		78.90	NP	NP	5,873.71
	9/11/2020		79.06	NP	NP	5,873.55
	12/11/2020		79.02	NP	NP	5,873.59
	3/31/2021		79.24	NP	NP	5,873.37
	5/24/2021		79.22	NP	NP	5,873.39
	9/30/2021		79.44	NP	NP	5,873.17
	11/23/2021		79.30	NP	NP	5,873.31
	2/11/2022		79.42	NP	NP	5,873.19
	5/27/2022		79.52	NP	NP	5,873.09
	9/30/2022		79.60	NP	NP	5,873.01
	12/5/2022		79.79	NP	NP	5,872.82
MW-8	11/5/2019	5,955.36***	81.13	NP	NP	5,874.23
	3/10/2020		81.26	NP	NP	5,874.10
	6/26/2020		81.34	NP	NP	5,874.02
	9/11/2020		81.47	NP	NP	5,873.89
	12/11/2020		81.44	NP	NP	5,873.92
	3/31/2021		81.66	NP	NP	5,873.70
	5/24/2021		81.59	NP	NP	5,873.77
	9/30/2021		81.71	NP	NP	5,873.65
	11/23/2021		84.71	NP	NP	5,870.65
	2/11/2022		81.90	NP	NP	5,873.46

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TABLE 1
Groundwater Elevation
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Date	Top of Casing Elevation (feet AMSL)	Depth to Groundwater (feet BTOC)	Depth to Product (feet BTOC)	Product Thickness (feet)	Groundwater Elevation (feet AMSL)
MW-8	5/27/2022	5,955.36***	81.84	NP	NP	5,873.52
	9/30/2022		81.91	NP	NP	5,873.45
	12/5/2022		81.82	NP	NP	5,873.54
MW-9	11/5/2019	5,953.01***	79.67	NP	NP	5,873.34
	3/10/2020		79.78	NP	NP	5,873.23
	6/26/2020		79.71	NP	NP	5,873.30
	9/11/2020		79.71	NP	NP	5,873.30
	12/11/2020		79.68	NP	NP	5,873.33
	3/31/2021		79.90	NP	NP	5,873.11
	5/24/2021		79.83	NP	NP	5,873.18
	9/30/2021		79.93	NP	NP	5,873.08
	11/23/2021		79.86	NP	NP	5,873.15
	2/11/2022		79.44	NP	NP	5,873.57
	5/27/2022		79.95	NP	NP	5,873.06
	9/30/2022		79.91	NP	NP	5,873.10
	12/5/2022		79.33	NP	NP	5,873.68
MW-10	9/30/2022	5,957.51	84.86	NP	NP	5,872.65
	12/5/2022		82.36	NP	NP	5875.15
MW-11	9/30/2022	5,954.70	81.21	NP	NP	5,873.49
	12/5/2022		81.26	NP	NP	5,873.44
MW-12	9/30/2022	5,957.05	81.45	NP	NP	5,875.60
	12/5/2022		81.51	NP	NP	5,875.54

Notes:

AMSL - above mean sea level

BTOC - below top of casing

NP - no product

* Top of casing elevation was resurveyed on 6/19/2013

** Product recovery sock was present in well, elevation does not represent static water level

*** Top of casing elevation was resurveyed on 12/18/2019

Groundwater elevation calculation in wells with product: (Top of Casing Elevation - Depth to Water) + (Product Thickness * 0.8)

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TABLE 2
Groundwater Laboratory Analytical Results
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		5	1,000	700	620
MW-1	5/26/1999	**260**	880	86	**890**
	8/17/1999	**180**	270	25	370
	10/20/1999	**260**	720	36	420
	1/26/2000	**260**	620	26	460
	4/17/2000	**250**	580	23	340
	11/16/2000	**89**	69.5	11.1	39.7
	1/17/2001	**316**	418	15.1	178
	4/27/2001	**363**	316	5.75	283
	10/16/2001	**140**	7.3	<2.0	110
	3/30/2002	**120**	150	ND	270
	6/16/2002	**79**	20	ND	110
	9/20/2004	<2.0	<2.0	<2.0	12
	12/6/2004	2.6	8.6	<2.0	53
	3/7/2005	**13**	2.3	ND	53
	6/18/2005	ND	ND	ND	7.9
	9/16/2005	<2.0	<2.0	<2.0	15
	11/28/2005	ND	4.5	ND	65.7
	7/13/2006	**17.5**	6	<1.0	57.2
	3/29/2010	**18.3**	2.7	<1.0	71.1
	6/18/2010	**26.5**	19	<1.0	36.3
	9/10/2010	**20**	<1.0	<1.0	30.2
	12/4/2010	**17.9**	8.7	<1.0	91.6
	3/11/2011	**5.5**	2.8	<1.0	65.1
	6/14/2011	2.2	<1.0	<1.0	16.9
	9/12/2011	1.9	<1.0	<1.0	23.3
	1/3/2012	**6.2**	8	<1.0	78.1
	4/2/2012	**23.5**	<1.0	7.7	45.9
	6/13/2012	**19.0**	<1.0	4.4	33.6
	10/2/2012	8.0	<1.0	5.6	40.7
	12/6/2012	**22.0**	<1.0	6.4	52.2
	2/28/2013	2.3	<1.0	<1.0	93
	6/24/2013	**65**	53	<2.0	370
	9/12/2013	**19**	25	1.5	210
	12/11/2013	**5.6**	3.3	<2.0	51
	3/19/2014	<2.0	<2.0	<2.0	<4.0
	6/12/2014	7.1	3.3	<1.0	130
	9/11/2014	**12**	12	<1.0	100
	12/8/2014	**31**	42	<2.0	270
	3/10/2015	**17**	15	<2.0	230
	9/24/2015	**11**	5.7	<1.0	110

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TABLE 2
Groundwater Laboratory Analytical Results
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		5	1,000	700	620
MW-1	9/8/2016	**9.2**	11	<1.0	100
	11/5/2019	**5.2**	1.2	<1.0	35
	9/11/2020	**6.6**	<1.0	<1.0	11
	9/30/2021	3.9	1.1	<1.0	71
	9/30/2022	**34**	100	<1.0	320
MW-2	5/26/1999	**98**	85	18	120
	3/7/2005	**6,100**	**8,200**	650	**8,100**
	11/29/2005	**115**	144	41	139
	7/13/2006	**6,300**	**28,500**	**2,740**	**49,500**
	9/10/2010	**4,490**	**10,600**	277	**7,700**
	3/11/2011	**3,690**	**6,380**	243	**5,440**
	1/3/2012	**721**	**1,280**	73.6	**1,060**
	4/2/2012	NS	NS	NS	NS
	6/13/2012	NS	NS	NS	NS
	10/2/2012	NS	NS	NS	NS
	12/6/2012	NS	NS	NS	NS
	2/28/2013	NS-FP	NS-FP	NS-FP	NS-FP
	6/24/2013	NS-FP	NS-FP	NS-FP	NS-FP
	9/12/2013	NS-FP	NS-FP	NS-FP	NS-FP
	12/6/2013	NS-IW	NS-IW	NS-IW	NS-IW
	3/19/2014	NS-IW	NS-IW	NS-IW	NS-IW
	6/12/2014	NS-IW	NS-IW	NS-IW	NS-IW
	9/11/2014	NS-IW	NS-IW	NS-IW	NS-IW
	12/8/2014	NS-IW	NS-IW	NS-IW	NS-IW
	3/10/2015	NS-IW	NS-IW	NS-IW	NS-IW
	9/8/2016	NS-IW	NS-IW	NS-IW	NS-IW
MW-2R	11/5/2019	**150**	**1,100**	77	**1,100**
	9/11/2020	**580**	17	17	7.2
	9/30/2021	**89**	80	6.6	35
	9/30/2022	**29**	11	<1.0	5.6
MW-3	8/17/1999	**170**	100	23	150
	10/20/1999	**320**	250	50	360
	1/26/2000	**460**	380	180	**1,300**
	4/17/2000	**310**	150	180	**1,100**
	11/16/2000	**100**	43.6	21.3	99
	1/17/2001	**64.8**	81.4	8.7	54.9
	4/27/2001	1.98	<1	<1	<1
	10/16/2001	<1.0	<2.0	<2.0	<2.0
	3/30/2002	3.6	ND	ND	9
	6/16/2002	**15**	2.6	ND	10

ENSOLUM

TABLE 2
Groundwater Laboratory Analytical Results
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		5	1,000	700	620
MW-3	12/6/2004	4.3	5.2	>2.0	5.6
	9/20/2004	>2.0	>2.0	>2.0	>5.0
	3/7/2005	**5.8**	6	ND	8.2
	6/18/2005	ND	ND	ND	ND
	9/16/2005	2.5	<2.0	<2.0	<5.0
	11/29/2005	4.8	4.9	ND	ND
	7/18/2006	**56.7**	6.3	<1.0	7.8
	3/29/2010	**6.0**	<1.0	<1.0	4.32
	6/18/2010	4.4	<1.0	<1.0	5.8
	9/10/2010	**17.6**	4.3	1.9	20.2
	12/4/2010	**26.5**	<1.0	1.9	16.4
	3/11/2011	**10.6**	<1.0	<1.0	4.4
	6/14/2011	**10.1**	<1.0	1.3	12.0
	9/12/2011	**21.2**	<1.0	3.0	22.8
	1/3/2012	**8.3**	<1.0	<1.0	7.6
	4/2/2012	**18.2**	1.8	<1.0	7.5
	6/13/2012	**35.5**	4.5	<1.0	20.7
	10/2/2012	NS	NS	NS	NS
	12/6/2012	NS	NS	NS	NS
	2/28/2013	**18**	<1.0	<1.0	3.5
	6/24/2013	**130**	<1.0	2.1	18
	9/12/2013	**21**	3.4	<1.0	6.9
	12/11/2013	**18**	<1.0	<1.0	2.7
	3/19/2014	**9.2**	<1.0	<1.0	<2.0
	6/12/2014	**69**	<1.0	1.0	8.4
	9/11/2014	**28**	<1.0	<1.0	7.6
	12/8/2014	**38**	1.0	<1.0	5.9
	3/10/2015	**33**	<1.0	<1.0	8.00
	9/24/2015	**31**	<1.0	1.1	6.90
	9/8/2016	**37**	3.3	1.6	18
	11/6/2019	**230**	8.6	6.6	35
	9/11/2020	**15**	<1.0	<1.0	1.5
	9/30/2021	NS-IW	NS-IW	NS-IW	NS-IW
	9/30/2022	NS-Damaged	NS-Damaged	NS-Damaged	NS-Damaged
MW-4	12/6/2004	**750**	**2,100**	250	**2,400**
	4/2/2012	NS	NS	NS	NS
	6/13/2012	NS	NS	NS	NS
	10/2/2012	NS	NS	NS	NS
	12/6/2012	NS	NS	NS	NS
	2/28/2013	NS-FP	NS-FP	NS-FP	NS-FP

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TABLE 2
Groundwater Laboratory Analytical Results
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		**5**	**1,000**	**700**	**620**
MW-4	6/24/2013	NS-FP	NS-FP	NS-FP	NS-FP
	9/12/2013	NS-FP	NS-FP	NS-FP	NS-FP
	12/6/2013	NS-FP	NS-FP	NS-FP	NS-FP
	3/19/2014	NS-FP	NS-FP	NS-FP	NS-FP
	6/12/2014	NS-FP	NS-FP	NS-FP	NS-FP
	9/11/2014	NS-FP	NS-FP	NS-FP	NS-FP
	12/8/2014	NS-FP	NS-FP	NS-FP	NS-FP
	3/10/2015	NS-FP	NS-FP	NS-FP	NS-FP
	9/8/2015	NS-FP	NS-FP	NS-FP	NS-FP
	11/5/2019	NS-FP	NS-FP	NS-FP	NS-FP
	9/11/2020	NS-FP	NS-FP	NS-FP	NS-FP
	9/30/2021	NS-FP	NS-FP	NS-FP	NS-FP
	9/30/2022	NS-FP	NS-FP	NS-FP	NS-FP
MW-5	5/26/1999	**97**	82	18	110
	1/26/2000	**370**	290	160	**940**
	4/17/2000	**220**	**1,200**	220	**1,900**
	11/16/2000	**90.9**	146	23.9	153
	1/17/2001	**199**	260	46.7	326
	4/27/2001	3.1	8.34	<1	9.27
	10/16/2001	1.8	2.3	<2.0	<2.0
	3/30/2002	**15**	19	ND	71
	6/16/2002	**23**	30	4.4	56
	9/20/2004	>2.0	>2.0	2.2	>5.0
	12/6/2004	2.4	2.2	2.2	8.5
	3/7/2005	ND	ND	2.2	ND
	6/18/2005	ND	ND	ND	6.3
	9/16/2005	<2.0	<2.0	<2.0	5.5
	11/29/2005	2.9	ND	ND	8.8
	7/18/2006	**21.7**	7.6	>1.0	44.7
	3/29/2010	**98.7**	1.4	1.3	48.4
	6/18/2010	**58.2**	1.0	<1.0	28.5
	9/10/2010	**108**	3.9	<1.0	90.1
	12/4/2010	4.6	<1.0	<1.0	8.2
	6/14/2011	**22.1**	1.4	1.0	24.0
	9/12/2011	**12.4**	<1.0	<1.0	12.6
	1/3/2012	**36.3**	5.5	<1.0	31.6
	6/13/2012	3.3	<1.0	<1.0	<3.0
	10/2/2012	**18.2**	<1.0	3.7	21.2
	12/6/2012	**35.4**	<1.0	2.7	30.6
	2/28/2013	**17**	2.4	<1.0	14

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TABLE 2
Groundwater Laboratory Analytical Results
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		5	1,000	700	620
MW-5	6/24/2013	**110**	30	4.3	220
	9/12/2013	**32**	6.9	1.7	78
	12/6/2013	**49**	4.7	<1.0	140
	3/19/2014	**10**	<2.0	<2.0	<4.0
	6/12/2014	**170**	18	1.8	180
	9/11/2014	**40**	3.4	<1.0	55
	12/8/2014	**73**	11	1.0	100
	3/10/2015	**100**	2.2	<2.0	110
	9/24/2015	**19**	1.4	<1.0	41
	9/8/2016	**20**	<1.0	<1.0	17
	11/5/2019	**89**	1.9	1.1	59
	9/11/2020	**52**	1.9	<1.0	33
	9/30/2021	**43**	1.0	<1.0	21
	9/30/2022	**81**	1.7	1.1	58
MW-6	9/20/2004	**11**	40	20	110
	3/7/2005	**110**	330	48	460
	6/18/2005	**1,100**	**2,100**	280	**2,200**
	9/16/2005	**100**	140	68	420
	11/29/2005	**49.1**	100	62.6	261
	7/18/2006	**795**	**1,480**	285	**2,450**
	3/29/2010	**777**	12.2	187	**1,010**
	6/18/2010	**2,300**	<10.0	510	**2,650**
	9/10/2010	**829**	<10.0	166	**804**
	12/4/2010	**1,700**	6.6	481	**1,530**
	3/11/2011	**1,650**	<5.0	268	**926**
	6/14/2011	**1,940**	<10.0	450	**1,340**
	9/12/2011	**811**	2.0	185	**452**
	1/3/2012	**1,280**	<20.0	357	**695**
	4/2/2012	**1,210**	259	36.2	**423**
	6/13/2012	**1,360**	501	103	**981**
	10/2/2012	**882**	375	40.8	**767**
	12/6/2012	**768**	299	8.4	427
	2/28/2013	**430**	590	210	**870**
	6/24/2013	**280**	34	110	**280**
	9/12/2013	**970**	67	460	**1,000**
	12/6/2013	**540**	76	520	**1,100**
	9/11/2014	**530**	27	94	240
	9/24/2015	NS-FP	NS-FP	NS-FP	NS-FP
	11/5/2019	NS-FP	NS-FP	NS-FP	NS-FP
	9/11/2020	NS-FP	NS-FP	NS-FP	NS-FP

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TABLE 2
Groundwater Laboratory Analytical Results
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		**5**	**1,000**	**700**	**620**
MW-6	9/30/2021	NS-FP	NS-FP	NS-FP	NS-FP
	9/30/2022	NS-FP	NS-FP	NS-FP	NS-FP
MW-7	11/5/2019	**13**	32	22	250
	9/11/2020	<1.0	<1.0	<1.0	6.8
	9/30/2021	<1.0	<1.0	<1.0	<1.5
	9/30/2022	<1.0	<1.0	<1.0	<1.5
MW-8	11/5/2019	<1.0	<1.0	<1.0	<2.0
	9/11/2020	<1.0	<1.0	<1.0	<1.5
	9/30/2021	<2.0	<2.0	<2.0	<3.0
	9/30/2022	<1.0	<1.0	<1.0	<1.5
MW-9	11/5/2019	2.0	26	16	250
	9/11/2020	<1.0	<1.0	<1.0	1.6
	9/30/2021	<1.0	<1.0	<1.0	<1.5
	9/30/2022	<1.0	<1.0	<1.0	<1.5
MW-10	9/30/2022	<2.0	<2.0	<2.0	<3.0
MW-11	9/30/2022	**26**	1.0	15	96
MW-12	9/30/2022	**9.8**	1.6	1.0	71

Notes:

µg/L - micrograms per liter

ND - not detected above laboratory reporting limits

NMWQCC - New Mexico Water Quality Control Commission

NS - not sampled

NS-FP - not sampled due to the presence of phase serperated hydrocarbons (PSH) in the well

NS-IW - not sampled due to insuffiecnt water volume in the well

< - indicates result is less than laboratory reporting detection limit

*Concentrations in **bold** and shaded exceed the New Mexico Water Quality Control Commission Standards, 20.6.2 of the New Mexico Administrative Code*

ENSOLUM

TABLE 3
Soil Analytical Results
Pritchard #2A
Harvest Four Corners, LLC
San Juan County, New Mexico

Well Name	Sample Date	Sample Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	Total GRO+DRO (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
MW10 @ 68-70	9/19/2022	68 - 70	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<47	<47	<47	<60
MW10 @ 100	9/19/2022	100	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<15	<48	<48	<48	<60
BH12-69-71	9/20/2022	69 - 71	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<46	<46	<46	<60
BH12-90-91	9/21/2022	90 -91	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<15	<49	<49	<49	<61
BH11-74-76	9/22/2022	74 - 76	0.040	<0.049	0.089	0.48	0.609	28	<14	<47	28	28	<60
BH11-89-91	9/22/2022	89 - 91	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<45	<45	<45	<60

Notes:

bgs: below ground surface

mg/Kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil Range Organics

TPH: Total Petroleum Hydrocarbon

ENSOLUM

APPENDIX A

Soil Boring Logs

ENSOLUM

Client: Harvest
Project Name: Pritchard 2A
Project Location:
Project Manager:

BORING LOG NUMBER
BH 10/MW10
Project No.

Date Sampled: 9/19
Drilled by: Enviro-Drill
Driller: Sam
Logged by: ZH/EC
Sampler: ZH/EC

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
▽ At Completion
▽ At Well Stabilization

Borehole Diameter: 8"
Casing Diameter:
Well Materials: PVC
Surface Completion:
Boring Method: Hollow Stem

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
0								~3' PVC Will install steel casing
5	4-6	2A5	75	1.3	Dry		silt w/ v. fine to fine sand. No S/O	
10	9-11	100	100	0.8	Dry		silt w/ v. fine to fine sand, No S/O	
15	14-16		100	0.5	Dry		Coarser sand (fine-coarse) poorly sorted, some silt	
20	19-21			1.1	Dry		SAA	
25	24-26			0.7	Dry		fm v. fine to fine sand, occasional md. ~30% silt No SO	

ENSOLUM

Client: Harvest
Project Name: Pritchard 2A
Project Location:
Project Manager:

BORING LOG NUMBER
BH10/MW10
Project No.

Date Sampled: 9/19
Drilled by: Enviro-Drill
Driller: Jimmy
Logged by: RH/BC
Sampler: RH/BC

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
At Completion
At Well Stabilization

Borehole Diameter: 8"
Casing Diameter:
Well Materials: PVC
Surface Completion:
Boring Method: Hollow Stem

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
	29-31		100	0.5	Dry		fine to course poorly sorted sand w/ silt, rare pebble orange-tan color, No S/O	
30								
35	34-36		90	0.3	Dry		fine - course sand, poorly sorted No S/O	
							SAA	
40	39-41		80	0.7	Dry			
							v. fine to fine sand w/ silt + rare clay (<10%) No S/O	
45	44-46		100	1.0	Dry			
							50/50 % sand + silt sand fine - med grained	
50	49-51		90	0.8	Dry Silt moist			
							SAA w/ bands of low clay	
55	54-55		100	0.3	Silt moist			

ENSOLUM

Client: Harvest
Project Name: Pritchard 2A
Project Location:
Project Manager:

BORING LOG NUMBER
BH10/MW10
Project No.

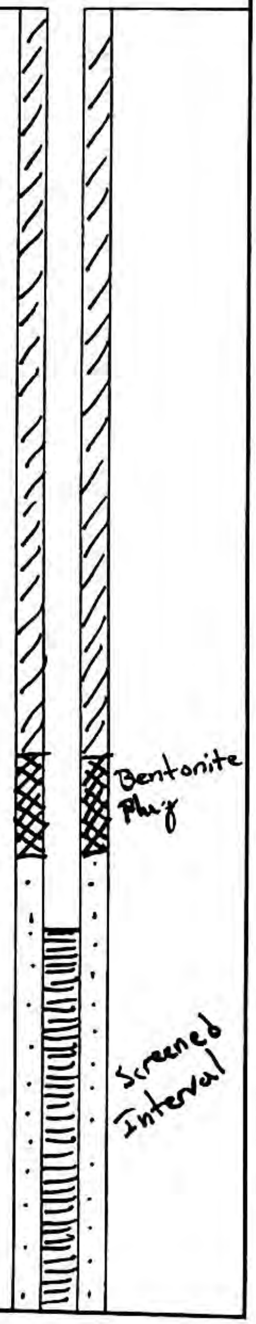
Date Sampled: 9/9
Drilled by: Enviro-Drill
Driller: Juan
Logged by: RH/EC
Sampler: RH/EC

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
At Completion
At Well Stabilization

Borehole Diameter: 8"
Casing Diameter:
Well Materials: PVC
Surface Completion:
Boring Method: Hollow stem

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO-METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
60	59-61		100	0.7	silt moist		SAA w ~10% clay
65	64-66		90	0.5	silt moist		silt blonde w/ lean clay, no S/O
70	69-71		100	1.1	moist		sand (fine - md.) interbedded w/ silt + clay
75	74-76		100	1.7	moist		SAA
80	79-81		NA	NA			drill w/ air rotary from ~80' very poor recovery in bed rock sandstone
85	84-86		NA	NA			Fine - md sand poor recovery

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



ENSOLUM

Client: Harvest
Project Name: Pritchard 2A
Project Location:
Project Manager:

BORING LOG NUMBER
BH10/BH11
Project No.

Date Sampled: 9/19
Drilled by: Enviro-Drill
Driller: Jim
Logged by: BH/EC
Sampler: BH/EC

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
At Completion
At Well Stabilization

Borehole Diameter: 3.5"
Casing Diameter:
Well Materials: PVC
Surface Completion:
Boring Method: Air Rotary

DEPTH (ft)	SAMPLE: INTERVAL	SAMPLE: ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
90	90		NA	NA			SAA	
95	95		NA	NA			SAA	Screened Interval
100	100		NA	NA			SAA	TD: 99'
							TD @ ~100' BGS in bed rock set bottom of well @ 99' BGS - 20' screened to 79', Backfilled w/ sand due to inability to get down around well casing in small air rotary hole	

ENSOLUM

Client: Harvest
Project Name: Pritchard 2A
Project Location:
Project Manager:

BORING LOG NUMBER
BH/MW 11
Project No.

Date Sampled: 9/22/22
Drilled by: Enviro-Drill
Driller: Sean
Logged by: RH
Sampler: RH

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
* At Completion
* At Well Stabilization

Borehole Diameter: 8"
Casing Diameter:
Well Materials: PVC
Surface Completion:
Boring Method: Hollow stem

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
0								3' stickup
5	4-6		100	0.3	Dry		tan, silt (~75%) + v. fine to fine sand. No S/O	
10	9-11		75	0	Dry		SAA transitioning to fine-coarse sand w/ little to no silt - light tan No S/O	
15	14-16		50	0.2	Dry		SAA, No S/O	
20	19-21		50	0	Dry		tan - silt + v. fine to fine sand, No S/O	
25	24-26		50	0.1	Dry		SAA tan - lt. brown	

ENSOLUM

Client: Harvest
Project Name: Pritchard 2A
Project Location:
Project Manager:

BORING LOG NUMBER
BH/MW 11
Project No.

Date Sampled:
Drilled by:
Driller:
Logged by:
Sampler:

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
At Completion
At Well Stabilization

Borehole Diameter:
Casing Diameter:
Well Materials:
Surface Completion:
Boring Method:

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
30	29-31		75	0	Dry		light tan, poorly sorted, fine to coarse sand, minor silt No S/O	
35	34-36		75	0.1	Dry		SAA w/ rare pebble No S/O	
40	39-41		100	0.1	Dry		mostly v. fine to md. sand w/ some coarse tan No S/O + pebble	
45	44-46		100	0	Dry		v. fine - md sand, tan, w/ a 4" band of dry silt + clay. No S/O	
50	49-51		80	0.1	Dry		lt. brown v. fine to md. sand w/ silt interbedded w/ silt + minor clay w/ black carbonaceous inclusions, No S/O	
55	54-56		100	0.1	silt moist		light brown silt w/ fine sand transitioning to fine to coarse sand, No S/O	

ENSOLUM

Client: Harvest
Project Name: Pritchard 2A
Project Location:
Project Manager:

BORING LOG NUMBER
BH / MW 11
Project No.

Date Sampled:
Drilled by:
Driller:
Logged by:
Sampler:

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
At Completion
At Well Stabilization

Borehole Diameter:
Casing Diameter:
Well Materials:
Surface Completion:
Boring Method:

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
60	59-		100	0.2	silt moist		light brown sandy silt. sand v. fine to fine w/ rare mod. No S/O	
65	61						brown sandy silt, v. fine to fine interbedded w/ silty, lean clay w/ rust inclusions, No S/O	
	64-66		100	0.2	moist			
70	69-71		100	575	moist		mod. gray sandy silt & silty lean clay & slightly silty mod. plasticity clay mod. odor @ Drum cuttings from 70'	Bentonite plug
75	74-76	BH11 74-76	80	2670	moist		v. fine to fine sand w/ silt, & lean silty lean clay, mod. to dark gray, strong odor	Sand
					APPX GW		gray & brown silt w/ minor v. fine sand & lean clay, & silty lean clay. In GW mod. odor	
80	79-81		100	755	wet			
85	84-86		100	1524	wet		mostly gray fat clay, w/ silty, fine-med sand @ bottom, mod odor	

TD of well @ 87'

ENSOLUM

Client: Harvest
Project Name: Pritchard 24
Project Location:
Project Manager:

BORING LOG NUMBER
BH/MW 11
Project No.

Date Sampled:
Drilled by:
Driller:
Logged by:
Sampler:

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
At Completion
At Well Stabilization

Borehole Diameter:
Casing Diameter:
Well Materials:
Surface Completion:
Boring Method:

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
90	89-91	BH11	100	25	wet		silty sand w/ clay, bottom 0.5' = fat clay - gray mod. odor	
95	89-91	89-91					TD = 90' on 9/22/22 Backfill w/ sand to 87' screened from 87 to 72' Sand to 70' plug 70-68'	
100								
15								
20								
25								

ENSOLUM

Client: Harvest
Project Name: Pritchard 2A
Project Location:
Project Manager:

BORING LOG NUMBER
BH12 / MW12
Project No.

Date Sampled: 9/20/22, 9/21
Drilled by: Eagle - Drill
Driller: Sean
Logged by: RH
Sampler: RH

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
At Completion
At Well Stabilization

Borehole Diameter:
Casing Diameter:
Well Materials:
Surface Completion:
Boring Method:

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
0								
5	4-6		80	1.0	Dry		~50% silt, tan - brown w/ v. fine - fine sand & occasional sand. No S/O	
10	9-11		100	0.5	Dry		tan, silt & v. fine to fine sand. ~50/50% No S/O	
15	14-16		100	0.4	Dry		tan - lt. brown silt & v. fine to sand. Sand, No. S/O	
20	19-21		100	0.6	Dry		tan, to lt brown, fine to coarse sand w/ ~25% silt. No S/O	
25	24-26		100	0.5	Dry		tan to lt. brown, v. fine to fine sand w/ some sand. <25% silt. No S/O	

ENSOLUM

Client: Harvest
Project Name: Pritchard 2A
Project Location:
Project Manager:

BORING LOG NUMBER
BH12 / MW12
Project No.

Date Sampled:
Drilled by:
Driller:
Logged by:
Sampler:

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
At Completion
At Well Stabilization

Borehole Diameter:
Casing Diameter:
Well Materials:
Surface Completion:
Boring Method:

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
	29-31		100	0.8	Dry		tan-orangish sand, fine to coarse, rare pebble, silt @ top of interval. No S/O	
30								
	34-36		100	0.9	Dry		fine - ~~med.~~ coarse sand, transitions down to v. fine-fine w/ silt, No S/O	
35								
	39-41		100	0.8	Dry		fine - coarse sand, rare pebble. No S/O	
40								
	44-46		90	0.8	slt moist		brown v fine to fine sand, silt + minor clay (~10%) w/ dark purple clayey inclusions No S/O	
45								
	49-51		100	1.7	slt moist		tan to brownish fine-med. sand w/ some coarse. More silt @ top of interval No S/O	
50	20							
	54-56		100	0.7	slt moist		fine-med. sand banded w/ silt + lean clay. No S/O silt + clay med. brown, sand tan.	
55	25							

ENSOLUM

Client: Harvest
Project Name:
Project Location:
Project Manager:

BORING LOG NUMBER
BH12 / MW12
Project No.

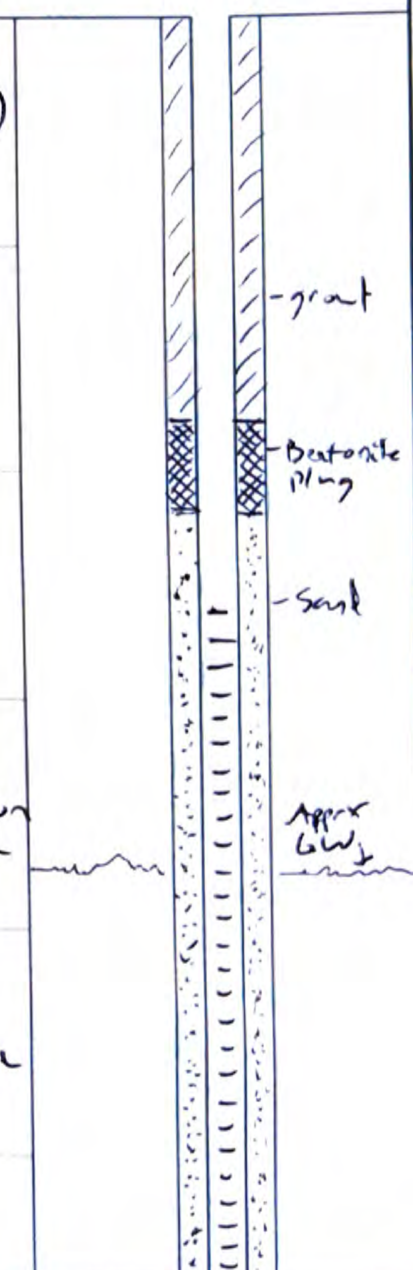
Date Sampled:
Drilled by:
Driller:
Logged by:
Sampler:

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
At Completion
At Well Stabilization

Borehole Diameter:
Casing Diameter:
Well Materials:
Surface Completion:
Boring Method:

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
60	59-61		100	0.8	slt. moist		top 6" SAA (silt + clay) transitions to v. fine to md. sand w/ occasional coarse. tan. 1" band of sand is dark maroon, No S/O
65	64-66		100	0.8	moist		md. brown silt + lean clay (~10%) banded w/ fine-md. sand w/ silt, No S/O
70 (9/20 / 9/21)	69-71	BH12 69-71	100	63.9	moist		gray, fine-md. sand inter-bedded w/ darker gray silt + clay (lean)
75	74-76		100	63	moist		SAA, slt odor
80	79-81		100	14	wet		GW @ ~79' top of interval is fine-coarse sand - gray, transitions to brown sand, then gray/brown fat clay @ 80.5-81' in GW
85	84-86		100	7.6	wet		dark gray fat clay w/ some md. sand grains, no odor

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



0.43 = 2" well volume
0.5 ft³ per 50 lb bag

[redacted]

Client: Harvest
Project Name: Pritchard
Project Location:
Project Manager:

BORING LOG NUMBER
BH/MW/12
Project No.

Date Sampled:
Drilled by:
Driller:
Logged by:
Sampler:

Ground Surface Elevation:
Top of Casing Elevation:
North Coordinate:
West Coordinate:
Bench Mark Elevation:
- At Completion
- At Well Stabilization

Borehole Diameter:
Casing Diameter:
Well Materials:
Surface Completion:
Boring Method:

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
90	90-91	BH12 -90-91	100	0.6	wet		dark gray w/ some brown fat clay, interbedded w/ some gray sandy clay, No S/O TD @ 90' GW from ~ 79' Set bottom of well @ 88', 15' of screen from 88'-73'. Sand from 88-71', Plug from 71-69' well drilled on 9/20-21 Set on 9/22	

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APPENDIX B

Groundwater Collection Forms

Groundwater Sample Collection Form

Pritchard

Project Name: Quarterly Groundwater Monitoring
Project Number:
Project Location: ~~Salty Dog~~
Sampler: Greg Palese

Sample ID: MW-2R
Sample Date: ~~9/23/2022~~ 9/30
Laboratory: Hall Environmental
Analyses:
Matrix: Groundwater
Sample Time: 1208
Shipping Method: Hand Delivery

Depth to Water: 78.04
Time:
Total Depth of Well: 88.15
Depth to Product:

Vol. of Water to Purge: 5 gal (height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols
Method of Purging:
Method of Sampling:

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. ~~(F)~~ C	Conductivity (us or ms)	Comments
1150	1	1	6.99	19.4	1886	grey, turbid, no odor
1157	2	3	7.14	19.1	1886	SAA
1203	2	5	7.21	19.0	1903	SAA

Comments: Grey, turbid throughout

Describe Deviations from SOP: None

Signature: Greg Palese **Date:** 9/30/22

Groundwater Sample Collection Form

Project Name: Quarterly Groundwater Monitoring
Project Number:

Project Location: ~~Dogie Compressor Station~~ Pritchard
Sampler: Greg P

Sample ID: MW-1
Sample Date: 9/30
Laboratory: Hall Environmental
Analyses: BTEX 8021

Matrix: Groundwater
Sample Time: 12:35
Shipping Method: Hand Delivery

Depth to Water: 84.95
Time:

Total Depth of Well: 88.23
Depth to Product:

Vol. of Water to Purge: 2 gal (height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols
Method of Purging:
Method of Sampling:

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. ~~(F)~~ C	Conductivity (us or ms)	Comments
1232	0.5	0.5	6.59	18.7	1858	bailers half full, mostly clear, no odor

Comments: bailing dry after 0.5 gal bailed

Describe Deviations from SOP: Sampled after 0.5 gal bailed

Signature: Greg Pelkey Date: 9/30/22

Groundwater Sample Collection Form

Project Name: Quarterly Groundwater Monitoring
Project Number:

Project Location: ~~Dogie Compressor Station~~ Pritchard
Sampler: Grey P

Sample ID: MW-8
Sample Date: 9/30/22
Laboratory: Hall Environmental
Analyses: BTEX 8021

Matrix: Groundwater
Sample Time: 1308
Shipping Method: Hand Delivery

Depth to Water: 81.91
Time:

Total Depth of Well: 93.12
Depth to Product:

Vol. of Water to Purge: 5 gal (height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols
Method of Purging:
Method of Sampling:

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. ~~(F)~~ C	Conductivity (us or ms)	Comments
1251	1	1	6.80	18.0	2.16	light grey, no odor
1257	2	3	6.93	17.6	2.17	SAA
1305	2	5	7.12	17.4	2.16	SAA

Comments: light grey throughout

Describe Deviations from SOP: None

Signature: Gregory Pelaw Date: 9/30/22

Groundwater Sample Collection Form

Project Name: Quarterly Groundwater Monitoring
Project Number:

Project Location: ~~Dogie Compressor Station~~ Pritchard
Sampler: Greg ?

Sample ID: MW-5
Sample Date: 9/30/22
Laboratory: Hall Environmental
Analyses: BTEX 8021

Matrix: Groundwater
Sample Time: 1350
Shipping Method: Hand Delivery

Depth to Water: 81.73
Time:

Total Depth of Well: 82.95
Depth to Product:

Vol. of Water to Purge: 1 gal (height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols
Method of Purging:
Method of Sampling:

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. (F)	Conductivity (us or ms)	Comments

Comments: grab sample

Describe Deviations from SOP: first bailer mostly empty, sampled from 2nd bailer load

Signature: Greg Pelkin
Date: 9/30/22

Groundwater Sample Collection Form

Project Name: Quarterly Groundwater Monitoring
Project Number:
Project Location: ~~Dogie Compressor Station~~ Pritchard
Sampler: Greg P

Sample ID: MW-12
Sample Date:
Laboratory: Hall Environmental
Analyses: BTEX 8021
Matrix: Groundwater
Sample Time: 1435
Shipping Method: Hand Delivery

Depth to Water: ~~81.45~~
Time:
Total Depth of Well: 91.27
Depth to Product:

Vol. of Water to Purge: 5 gal (height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols
Method of Purging:
Method of Sampling:

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. (~~F~~) C	Conductivity (us or ms)	Comments
1414	1	1	6.68	17.9	1849	brown, turbid, no odor
1423	2	3	6.89	17.9	1812	SAA
1431	2	5	6.69	17.6	1812	SAA

Comments: brown, turbid throughout

Describe Deviations from SOP: None

Signature: Gregory Pelkey Date: 9/30/22

Groundwater Sample Collection Form

Project Name: Quarterly Groundwater Monitoring
Project Number:
Sample ID: MW-11
Sample Date: 9/30/22
Laboratory: Hall Environmental
Analyses: BTEX 8021
Depth to Water: 81.29
Time:

Project Location: ~~Dogie Compressor Station~~ Pritchard
Sampler: Greg P
Matrix: Groundwater
Sample Time: 1510
Shipping Method: Hand Delivery
Total Depth of Well: 89.73
Depth to Product:

Vol. of Water to Purge: 4 gal (height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols
Method of Purging:
Method of Sampling:

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. (F)C	Conductivity (us or ms)	Comments
1454	1	1	7.03	18.1	1855	brown, turbid, no odor
1500	1	2	6.99	18.5	1794	SAA
1507	2	4	7.15	17.8	1764	SAA

Comments: brown, turbid throughout

Describe Deviations from SOP: None

Signature: Gregory Pelz Date: 9/30/22

Groundwater Sample Collection Form

Project Name: Quarterly Groundwater Monitoring
Project Number:
Project Location: Pritchard CA
Sampler: ~~Greg Pelese~~ D Burns

Sample ID: MW-9
Sample Date: ~~9/27/2022~~ 9-30-22
Laboratory: Hall Environmental
Analyses:
Matrix: Groundwater
Sample Time: 14:35
Shipping Method: Hand Delivery

Depth to Water: 79.91
Time: 14:10
Total Depth of Well: 88.41
Depth to Product: —

Vol. of Water to Purge: 4.2 gal (height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols
Method of Purging: Bailer
Method of Sampling: "

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. (F)	Conductivity (us or ms)	Comments
1412		0.25	—	—	—	probe not working - going dry
		1.0				

Comments: Light brown, v. silty, no sheen / odor

Describe Deviations from SOP: 1.0 gal purged before Probe not functioning correctly, only recovery volume was minimal

Signature: D B
Date: 9-30-22

Groundwater Sample Collection Form

Project Name: Quarterly Groundwater Monitoring
Project Number:
Project Location: Pritchard 24
Sampler: ~~Greg Pelese~~ D Burns

Sample ID: MW-7
Sample Date: ~~9/23/2022~~ 9-30-22
Laboratory: Hall Environmental
Analyses: BTEX
Matrix: Groundwater
Sample Time: 1500
Shipping Method: Hand Delivery

Depth to Water: 74.60
Time: 1445
Total Depth of Well: 87.71
Depth to Product: —

Vol. of Water to Purge: 4.0 gal (height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols
Method of Purging: Bailer
Method of Sampling: " "

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. (F)	Conductivity (us or ms)	Comments
1445	a25					probe not functioning
1500		3.5				drying up

Comments: light brown, very silty, no sheen or odor

Describe Deviations from SOP: Probe not functioning - no parameters. Only 3.5 gal purged before limited recovery.

Signature: D. Burns
Date: 9-30-22

Groundwater Sample Collection Form

Project Name: Quarterly Groundwater Monitoring
Project Number:
Project Location: Pritchard 21
Sampler: ~~Greg Patone~~ D Burns

Sample ID: MW-10
Sample Date: ~~9/23/2022~~ 9-30-22
Laboratory: Hall Environmental
Analyses: BTEX
Matrix: Groundwater
Sample Time: 1530
Shipping Method: Hand Delivery

Depth to Water: 81.21
Time: 1520
Total Depth of Well: 99.10
Depth to Product: —

Vol. of Water to Purge: 8.75 (height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols
Method of Purging: Bailer
Method of Sampling: Bailer

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. (F)	Conductivity (us or ms)	Comments
1528						probe not functioning - drying up
1530		4.5				

Comments: light gray, v. silty, no sheen/odor

Describe Deviations from SOP: No parameters, only 4.5 gal purged before limited recovery

Signature: D Burns
Date: 9-30-22

ENSOLUM

APPENDIX C

Laboratory Analytical Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 11, 2022

Oakley Hayes
Harvest
1755 Arroyo Dr.
Bloomfield, NM 87413
TEL: (505) 632-4475
FAX

RE: Pritchard 2A OrderNo.: 2209D40

Dear Oakley Hayes:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/24/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 07, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2209D40**
Date Reported: **10/11/2022**

CLIENT: Harvest
Client Sample ID: MW10 @ 68-70
Project: Pritchard 2A
Collection Date: 9/19/2022 12:15:00 PM
Lab ID: 2209D40-001 **Matrix:** SOIL **Received Date:** 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	9/29/2022 3:06:54 PM	70488
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 3:17:52 PM	70431
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 3:17:52 PM	70431
Surr: DNOP	92.6	21-129		%Rec	1	9/30/2022 3:17:52 PM	70431
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 6:26:00 PM	70417
Surr: BFB	100	37.7-212		%Rec	1	9/28/2022 6:26:00 PM	70417
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	9/27/2022 8:37:00 PM	70417
Toluene	ND	0.049		mg/Kg	1	9/27/2022 8:37:00 PM	70417
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 8:37:00 PM	70417
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 8:37:00 PM	70417
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	9/27/2022 8:37:00 PM	70417

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

Analytical Report
Lab Order **2209D40**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW10 @ 100
Project: Pritchard 2A
Collection Date: 9/19/2022 1:06:00 PM
Lab ID: 2209D40-002 **Matrix:** SOIL **Received Date:** 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	9/29/2022 3:19:15 PM	70488
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 3:28:38 PM	70431
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/30/2022 3:28:38 PM	70431
Surr: DNOP	93.9	21-129		%Rec	1	9/30/2022 3:28:38 PM	70431
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 6:46:00 PM	70417
Surr: BFB	104	37.7-212		%Rec	1	9/28/2022 6:46:00 PM	70417
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	9/27/2022 8:56:00 PM	70417
Toluene	ND	0.049		mg/Kg	1	9/27/2022 8:56:00 PM	70417
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 8:56:00 PM	70417
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2022 8:56:00 PM	70417
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	9/27/2022 8:56:00 PM	70417

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

Qualifiers:

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

Analytical Report
Lab Order **2209D40**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: BH12-69-71
Project: Pritchard 2A
Collection Date: 9/20/2022 1:55:00 PM
Lab ID: 2209D40-003 **Matrix:** SOIL **Received Date:** 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	9/29/2022 4:20:59 PM	70488
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 3:39:24 PM	70431
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 3:39:24 PM	70431
Surr: DNOP	98.6	21-129		%Rec	1	9/30/2022 3:39:24 PM	70431
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 7:05:00 PM	70417
Surr: BFB	107	37.7-212		%Rec	1	9/28/2022 7:05:00 PM	70417
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	9/27/2022 9:16:00 PM	70417
Toluene	ND	0.049		mg/Kg	1	9/27/2022 9:16:00 PM	70417
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 9:16:00 PM	70417
Xylenes, Total	ND	0.098		mg/Kg	1	9/27/2022 9:16:00 PM	70417
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	9/27/2022 9:16:00 PM	70417

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

Qualifiers:

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

Analytical Report
Lab Order **2209D40**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: BH12-90-91
Project: Pritchard 2A
Collection Date: 9/21/2022 3:55:00 PM
Lab ID: 2209D40-004 **Matrix:** SOIL **Received Date:** 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	ND	61		mg/Kg	20	9/29/2022 4:33:20 PM	70488
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 4:46:28 AM	70432
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 4:46:28 AM	70432
Surr: DNOP	85.2	21-129		%Rec	1	9/30/2022 4:46:28 AM	70432
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/28/2022 7:25:00 PM	70417
Surr: BFB	101	37.7-212		%Rec	1	9/28/2022 7:25:00 PM	70417
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	9/27/2022 9:36:00 PM	70417
Toluene	ND	0.049		mg/Kg	1	9/27/2022 9:36:00 PM	70417
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2022 9:36:00 PM	70417
Xylenes, Total	ND	0.097		mg/Kg	1	9/27/2022 9:36:00 PM	70417
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	9/27/2022 9:36:00 PM	70417

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

Qualifiers:

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

Analytical Report
Lab Order **2209D40**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: BH11-74-76
Project: Pritchard 2A
Collection Date: 9/22/2022 4:15:00 PM
Lab ID: 2209D40-005 **Matrix:** SOIL **Received Date:** 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	ND	60		mg/Kg	20	9/29/2022 4:45:40 PM	70488
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 5:18:56 AM	70432
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 5:18:56 AM	70432
Surr: DNOP	83.2	21-129		%Rec	1	9/30/2022 5:18:56 AM	70432
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	28	4.9		mg/Kg	1	9/28/2022 7:44:00 PM	70417
Surr: BFB	219	37.7-212	S	%Rec	1	9/28/2022 7:44:00 PM	70417
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	0.040	0.024		mg/Kg	1	9/27/2022 9:55:00 PM	70417
Toluene	ND	0.049		mg/Kg	1	9/27/2022 9:55:00 PM	70417
Ethylbenzene	0.089	0.049		mg/Kg	1	9/27/2022 9:55:00 PM	70417
Xylenes, Total	0.48	0.098		mg/Kg	1	9/27/2022 9:55:00 PM	70417
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	9/27/2022 9:55:00 PM	70417

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

Qualifiers:

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

Analytical Report
Lab Order **2209D40**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: BH11-89-91
Project: Pritchard 2A
Collection Date: 9/22/2022 4:20:00 PM
Lab ID: 2209D40-006 **Matrix:** SOIL **Received Date:** 9/24/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	9/29/2022 4:58:01 PM	70488
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 5:29:41 AM	70432
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/30/2022 5:29:41 AM	70432
Surr: DNOP	84.3	21-129		%Rec	1	9/30/2022 5:29:41 AM	70432
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/28/2022 8:04:00 PM	70417
Surr: BFB	108	37.7-212		%Rec	1	9/28/2022 8:04:00 PM	70417
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	9/27/2022 10:15:00 PM	70417
Toluene	ND	0.050		mg/Kg	1	9/27/2022 10:15:00 PM	70417
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2022 10:15:00 PM	70417
Xylenes, Total	ND	0.10		mg/Kg	1	9/27/2022 10:15:00 PM	70417
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	9/27/2022 10:15:00 PM	70417

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209D40**
11-Oct-22

Client: Harvest
Project: Pritchard 2A

Sample ID: **MB-70488**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **70488**	RunNo: **91427**
Prep Date: **9/29/2022**	Analysis Date: **9/29/2022**	SeqNo: **3273639** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-70488**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **70488**	RunNo: **91427**
Prep Date: **9/29/2022**	Analysis Date: **9/29/2022**	SeqNo: **3273640** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209D40**
11-Oct-22

Client: Harvest
Project: Pritchard 2A

Sample ID: **LCS-70432** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **70432** RunNo: **91371**
Prep Date: **9/27/2022** Analysis Date: **9/28/2022** SeqNo: **3271147** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	15	50.00	0	72.8	64.4	127			
Surr: DNOP	3.6		5.000		71.0	21	129			

Sample ID: **MB-70432** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **70432** RunNo: **91371**
Prep Date: **9/27/2022** Analysis Date: **9/28/2022** SeqNo: **3271155** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.6		10.00		75.6	21	129			

Sample ID: **2209D40-004AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BH12-90-91** Batch ID: **70432** RunNo: **91439**
Prep Date: **9/27/2022** Analysis Date: **9/30/2022** SeqNo: **3274396** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	29	14	45.29	0	63.0	36.1	154			
Surr: DNOP	3.5		4.529		76.3	21	129			

Sample ID: **2209D40-004AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BH12-90-91** Batch ID: **70432** RunNo: **91439**
Prep Date: **9/27/2022** Analysis Date: **9/30/2022** SeqNo: **3274397** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	14	47.71	0	69.3	36.1	154	14.7	33.9	
Surr: DNOP	3.8		4.771		79.5	21	129	0	0	

Sample ID: **LCS-70431** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **70431** RunNo: **91439**
Prep Date: **9/27/2022** Analysis Date: **9/30/2022** SeqNo: **3274442** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	28	15	50.00	0	56.5	64.4	127			S
Surr: DNOP	3.0		5.000		60.8	21	129			

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209D40**
11-Oct-22

Client: Harvest
Project: Pritchard 2A

Sample ID: **MB-70431**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70431**	RunNo: **91439**
Prep Date: **9/27/2022**	Analysis Date: **9/30/2022**	SeqNo: **3274445** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.3		10.00		73.3	21	129			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209D40**

11-Oct-22

Client: Harvest

Project: Pritchard 2A

Sample ID: **lcs-70417** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **70417** RunNo: **91349**

Prep Date: **9/26/2022** Analysis Date: **9/28/2022** SeqNo: **3271445** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2200		1000		220	37.7	212			S

Sample ID: **mb-70417** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **70417** RunNo: **91349**

Prep Date: **9/26/2022** Analysis Date: **9/28/2022** SeqNo: **3271446** 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	1100		1000		110	37.7	212			

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2209D40**
11-Oct-22

Client: Harvest
Project: Pritchard 2A

Sample ID: **lcs-70417**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70417**	RunNo: **91342**
Prep Date: **9/26/2022**	Analysis Date: **9/27/2022**	SeqNo: **3269588** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.95	0.050	1.000	0	95.3	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.6	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	70	130			

Sample ID: **mb-70417**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70417**	RunNo: **91342**
Prep Date: **9/26/2022**	Analysis Date: **9/27/2022**	SeqNo: **3269589** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	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 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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Harvest** Work Order Number: **2209D40** RcptNo: **1**

Received By: **Cheyenne Cason** **9/24/2022 7:00:00 AM** CM

Completed By: **Cheyenne Cason** **9/24/2022 7:54:17 AM** CM

Reviewed By: JN 9/26/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: CMC 9/24/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes			

Received by OCD: 3/30/2023 9:23:48 AM

Chain-of-Custody Record

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

Client: Harvest
Attn: Oakley Hayes
Mailing Address:

Phone #:
email or Fax#:
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 5 day
☒ Standard ☐ Rush
Project Name: Pritchard 24
Project #:
Project Manager: Danny Burns: dburns@ensolum.com
Brooke Herb: bherb@ensolum.com
Sampler: Reece Hanson/Eric Caroll
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 3.6-0=3.6 (°C)

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2209D40	BTEX / ~~MTBE / TMB's (8021)~~	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, ~~F, Br, NO3, NO2, PO4, SO4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
9/19/22	1215	Soil	MW10 @ 68-70	1, 4oz		001	X	X					X								
↓	1306	↓	MW10 @ 100	↓		002	X	X					X								
9/20/22	1355	↓	BH12-69-71	↓		003	X	X					X								
9/21/22	1555	↓	BH12-90-91	↓		004	X	X					X								
9/22/22	1615	↓	BH11-74-76	↓		005	X	X					X								
↓	1820	↓	BH11-89-91	↓		006	X	X					X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/23/22	1514	[signature]	[signature]		9/23/22	1514
9/23/22	1810	[signature] Christine Waele	Courier		9/24/22	0700

Remarks: cc: rhanson@ensolum.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 7/3/2023 11:44:09 AM

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 11, 2022

Brooke Herb

Harvest
1755 Arroyo Dr.
Bloomfield, NM 87413
TEL: (505) 632-4475
FAX

RE: Pritchard 2A OrderNo.: 2210058

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/4/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2210058**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-1
Project: Pritchard 2A
Collection Date: 9/30/2022 12:35:00 PM
Lab ID: 2210058-001 **Matrix:** AQUEOUS **Received Date:** 10/4/2022 7:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	34	1.0		µg/L	1	10/8/2022 1:09:43 AM	B91645
Toluene	100	1.0		µg/L	1	10/8/2022 1:09:43 AM	B91645
Ethylbenzene	ND	1.0		µg/L	1	10/8/2022 1:09:43 AM	B91645
Xylenes, Total	320	7.5		µg/L	5	10/10/2022 1:20:04 PM	R91680
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	10/8/2022 1:09:43 AM	B91645
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/8/2022 1:09:43 AM	B91645
Surr: Dibromofluoromethane	92.9	70-130		%Rec	1	10/8/2022 1:09:43 AM	B91645
Surr: Toluene-d8	114	70-130		%Rec	1	10/8/2022 1:09:43 AM	B91645

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

Qualifiers:

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

Analytical Report
Lab Order **2210058**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-2R
Project: Pritchard 2A
Collection Date: 9/30/2022 12:08:00 PM
Lab ID: 2210058-002 **Matrix:** AQUEOUS **Received Date:** 10/4/2022 7:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	29	1.0		µg/L	1	10/8/2022 1:36:42 AM	B91645
Toluene	11	1.0		µg/L	1	10/8/2022 1:36:42 AM	B91645
Ethylbenzene	ND	1.0		µg/L	1	10/8/2022 1:36:42 AM	B91645
Xylenes, Total	5.6	1.5		µg/L	1	10/8/2022 1:36:42 AM	B91645
Surr: 1,2-Dichloroethane-d4	133	70-130	S	%Rec	1	10/8/2022 1:36:42 AM	B91645
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	10/8/2022 1:36:42 AM	B91645
Surr: Dibromofluoromethane	107	70-130		%Rec	1	10/8/2022 1:36:42 AM	B91645
Surr: Toluene-d8	109	70-130		%Rec	1	10/8/2022 1:36:42 AM	B91645

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

Qualifiers:

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

Analytical Report
Lab Order **2210058**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-5
Project: Pritchard 2A
Collection Date: 9/30/2022 1:50:00 PM
Lab ID: 2210058-003 **Matrix:** AQUEOUS **Received Date:** 10/4/2022 7:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	81	1.0		µg/L	1	10/8/2022 2:03:40 AM	B91645
Toluene	1.7	1.0		µg/L	1	10/8/2022 2:03:40 AM	B91645
Ethylbenzene	1.1	1.0		µg/L	1	10/8/2022 2:03:40 AM	B91645
Xylenes, Total	58	1.5		µg/L	1	10/8/2022 2:03:40 AM	B91645
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	10/8/2022 2:03:40 AM	B91645
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/8/2022 2:03:40 AM	B91645
Surr: Dibromofluoromethane	90.6	70-130		%Rec	1	10/8/2022 2:03:40 AM	B91645
Surr: Toluene-d8	100	70-130		%Rec	1	10/8/2022 2:03:40 AM	B91645

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

Qualifiers:

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

Analytical Report
Lab Order **2210058**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-7
Project: Pritchard 2A
Collection Date: 9/30/2022 3:00:00 PM
Lab ID: 2210058-004 **Matrix:** AQUEOUS **Received Date:** 10/4/2022 7:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	10/8/2022 2:30:37 AM	B91645
Toluene	ND	1.0		µg/L	1	10/8/2022 2:30:37 AM	B91645
Ethylbenzene	ND	1.0		µg/L	1	10/8/2022 2:30:37 AM	B91645
Xylenes, Total	ND	1.5		µg/L	1	10/8/2022 2:30:37 AM	B91645
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	10/8/2022 2:30:37 AM	B91645
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/8/2022 2:30:37 AM	B91645
Surr: Dibromofluoromethane	85.0	70-130		%Rec	1	10/8/2022 2:30:37 AM	B91645
Surr: Toluene-d8	109	70-130		%Rec	1	10/8/2022 2:30:37 AM	B91645

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

Qualifiers:

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

Analytical Report
Lab Order **2210058**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-8
Project: Pritchard 2A
Collection Date: 9/30/2022 1:08:00 PM
Lab ID: 2210058-005 **Matrix:** AQUEOUS **Received Date:** 10/4/2022 7:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	10/8/2022 2:57:34 AM	B91645
Toluene	ND	1.0		µg/L	1	10/8/2022 2:57:34 AM	B91645
Ethylbenzene	ND	1.0		µg/L	1	10/8/2022 2:57:34 AM	B91645
Xylenes, Total	ND	1.5		µg/L	1	10/8/2022 2:57:34 AM	B91645
Surr: 1,2-Dichloroethane-d4	130	70-130		%Rec	1	10/8/2022 2:57:34 AM	B91645
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	10/8/2022 2:57:34 AM	B91645
Surr: Dibromofluoromethane	105	70-130		%Rec	1	10/8/2022 2:57:34 AM	B91645
Surr: Toluene-d8	108	70-130		%Rec	1	10/8/2022 2:57:34 AM	B91645

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

Qualifiers:

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

Analytical Report
Lab Order **2210058**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-9
Project: Pritchard 2A
Collection Date: 9/30/2022 2:35:00 PM
Lab ID: 2210058-006 **Matrix:** AQUEOUS **Received Date:** 10/4/2022 7:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	1.0		µg/L	1	10/8/2022 3:24:27 AM	B91645
Toluene	ND	1.0		µg/L	1	10/8/2022 3:24:27 AM	B91645
Ethylbenzene	ND	1.0		µg/L	1	10/8/2022 3:24:27 AM	B91645
Xylenes, Total	ND	1.5		µg/L	1	10/8/2022 3:24:27 AM	B91645
Surr: 1,2-Dichloroethane-d4	119	70-130		%Rec	1	10/8/2022 3:24:27 AM	B91645
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	10/8/2022 3:24:27 AM	B91645
Surr: Dibromofluoromethane	102	70-130		%Rec	1	10/8/2022 3:24:27 AM	B91645
Surr: Toluene-d8	107	70-130		%Rec	1	10/8/2022 3:24:27 AM	B91645

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

Qualifiers:

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

Analytical Report
Lab Order **2210058**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-10
Project: Pritchard 2A
Collection Date: 9/30/2022 3:30:00 PM
Lab ID: 2210058-007 **Matrix:** AQUEOUS **Received Date:** 10/4/2022 7:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	2.0	D	µg/L	2	10/8/2022 3:51:21 AM	B91645
Toluene	ND	2.0	D	µg/L	2	10/8/2022 3:51:21 AM	B91645
Ethylbenzene	ND	2.0	D	µg/L	2	10/8/2022 3:51:21 AM	B91645
Xylenes, Total	ND	3.0	D	µg/L	2	10/8/2022 3:51:21 AM	B91645
Surr: 1,2-Dichloroethane-d4	114	70-130	D	%Rec	2	10/8/2022 3:51:21 AM	B91645
Surr: 4-Bromofluorobenzene	105	70-130	D	%Rec	2	10/8/2022 3:51:21 AM	B91645
Surr: Dibromofluoromethane	95.3	70-130	D	%Rec	2	10/8/2022 3:51:21 AM	B91645
Surr: Toluene-d8	106	70-130	D	%Rec	2	10/8/2022 3:51:21 AM	B91645

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

Qualifiers:

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

Analytical Report
Lab Order **2210058**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-11
Project: Pritchard 2A
Collection Date: 9/30/2022 3:10:00 PM
Lab ID: 2210058-008 **Matrix:** AQUEOUS **Received Date:** 10/4/2022 7:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	26	1.0		µg/L	1	10/8/2022 4:18:13 AM	B91645
Toluene	1.0	1.0		µg/L	1	10/8/2022 4:18:13 AM	B91645
Ethylbenzene	15	1.0		µg/L	1	10/8/2022 4:18:13 AM	B91645
Xylenes, Total	96	1.5		µg/L	1	10/8/2022 4:18:13 AM	B91645
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	10/8/2022 4:18:13 AM	B91645
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	10/8/2022 4:18:13 AM	B91645
Surr: Dibromofluoromethane	89.3	70-130		%Rec	1	10/8/2022 4:18:13 AM	B91645
Surr: Toluene-d8	107	70-130		%Rec	1	10/8/2022 4:18:13 AM	B91645

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

Qualifiers:

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

Analytical Report
Lab Order **2210058**
Date Reported: **10/11/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-12
Project: Pritchard 2A
Collection Date: 9/30/2022 2:35:00 PM
Lab ID: 2210058-009
Matrix: AQUEOUS
Received Date: 10/4/2022 7:07:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	9.8	1.0		µg/L	1	10/8/2022 4:45:04 AM	B91645
Toluene	1.6	1.0		µg/L	1	10/8/2022 4:45:04 AM	B91645
Ethylbenzene	1.0	1.0		µg/L	1	10/8/2022 4:45:04 AM	B91645
Xylenes, Total	71	1.5		µg/L	1	10/8/2022 4:45:04 AM	B91645
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	10/8/2022 4:45:04 AM	B91645
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/8/2022 4:45:04 AM	B91645
Surr: Dibromofluoromethane	89.8	70-130		%Rec	1	10/8/2022 4:45:04 AM	B91645
Surr: Toluene-d8	104	70-130		%Rec	1	10/8/2022 4:45:04 AM	B91645

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210058**

11-Oct-22

Client: Harvest

Project: Pritchard 2A

Sample ID: **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **B91645**	RunNo: **91645**
Prep Date:	Analysis Date: **10/8/2022**	SeqNo: **3283623** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.8	70	130			
Toluene	20	1.0	20.00	0	99.4	70	130			
Surr: 1,2-Dichloroethane-d4	12		10.00		121	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID: **2210058-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-1**	Batch ID: **B91645**	RunNo: **91645**
Prep Date:	Analysis Date: **10/8/2022**	SeqNo: **3283645** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	45	1.0	20.00	33.59	59.1	70	130			S
Toluene	99	1.0	20.00	99.76	-2.23	70	130			S
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	9.1		10.00		91.1	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **2210058-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-1**	Batch ID: **B91645**	RunNo: **91645**
Prep Date:	Analysis Date: **10/8/2022**	SeqNo: **3283646** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	49	1.0	20.00	33.59	76.2	70	130	7.24	20	
Toluene	93	1.0	20.00	99.76	-35.7	70	130	6.97	20	S
Surr: 1,2-Dichloroethane-d4	11		10.00		110	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		111	70	130	0	0	
Surr: Dibromofluoromethane	9.5		10.00		95.1	70	130	0	0	
Surr: Toluene-d8	9.5		10.00		95.5	70	130	0	0	

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **B91645**	RunNo: **91645**
Prep Date:	Analysis Date: **10/8/2022**	SeqNo: **3283669** 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.
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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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210058**

11-Oct-22

Client: Harvest

Project: Pritchard 2A

Sample ID: **mb2**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **B91645**	RunNo: **91645**
Prep Date:	Analysis Date: **10/8/2022**	SeqNo: **3283669** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	12		10.00		118	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.5	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **R91680**	RunNo: **91680**
Prep Date:	Analysis Date: **10/10/2022**	SeqNo: **3285301** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	12		10.00		118	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **R91680**	RunNo: **91680**
Prep Date:	Analysis Date: **10/10/2022**	SeqNo: **3285314** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	12		10.00		123	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		105	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Harvest | Work Order Number: 2210058 | RcptNo: 1

Received By: Juan Rojas 10/4/2022 7:07:00 AM

Completed By: Sean Livingston 10/4/2022 10:09:10 AM

Reviewed By: CMC 10/4/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JR 10/4/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good				

Released to Imaging: 7/3/2023 11:44:09 AM
Received by OCD: 3/30/2023 9:23:48 AM

Chain-of-Custody Record

Client: Harvest Midstream
Attn: Monica Smith
Mailing Address:
Phone #:
email or Fax#:
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
5 Day
☒ Standard ☐ Rush
Project Name: Pritchard 2A
Project #:
Project Manager: Brooke Herb
Sampler: Danny Burns/Greg Pekse
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 0.9-0.2=0.9 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2210058	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/30/22	1235	AQ	MW-1	3-VOAs	HCl	001	X									
	1208		MW-2R			002	X									
	1350		MW-5			003	X									
	1500		MW-7			004	X									
	1308		MW-8			005	X									
	1435		MW-9			006	X									
	1530		MW-10			007	X									
	1510		MW-11			008	X									
	1435		MW-12			009	X									

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/3/22	1505	Danny Burns	Chris Walls		10/3/22	1585
10/3/22	1800	Christian Walters		courier	10/4/22	7:07

Remarks: bherb
cc: ecarroll@ensolum.com
dburns

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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 202240

CONDITIONS

Operator:	OGRID:
Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	373888
	Action Number: 202240
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2022 Annual Groundwater Monitoring Report, Pritchard #2A: Content Satisfactory. 1.Continue to gauge depth to water and conduct all sampling activities for monitoring wells. 2. Continue to use product recovery socks and manual bailing of PSH. Re-install pneumatic PSH recovery system. 3. Submit annual GW monitoring report by March 31, 2024.	7/3/2023