



March 28, 2022

Mr. Oakley Hayes  
Environmental Specialist  
Harvest Four Corners  
1755 Arroyo Drive  
Bloomfield, New Mexico 87413

**Subject: 2021 Annual Groundwater Report  
Pritchard #2A  
Remediation Permit Number 3RP-339-0  
Incident # nAUTOfAB000453  
San Juan County, New Mexico**

Dear Mr. Hayes:

WSP USA Inc. (WSP) is pleased to present Harvest Four Corners, LLC (Harvest) with this detailed report for activities conducted at the Pritchard #2A (Site), Remediation Permit Number 3RP-339-0, Incident # nAUTOfAB000453, between January and December 2021. The scope of work for this project was continued monitoring of petroleum hydrocarbon impacts to groundwater as a result of a release involving two former pits: a former dehydrator pit and a former abandoned 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, which drains into Pump Canyon, in the San Juan Basin in San Juan County, New Mexico.

## 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 east pit 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, WSP (previously LT Environmental) 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, WSP 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.

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### Review of 2021 Annual Groundwater Report: Content satisfactory

1. Continue with future work as stated within 2021 Annual Groundwater Report.
2. Groundwater samples will be collected annually and analyzed for BTEX from monitoring wells if there is sufficient water and/or no PSH present.
3. Continue to use product recovery socks and manual bailing of PSH when it is observed.
4. If consistent and measurable PSH return, Harvest will re-install the solar sipper(s).
5. Once the PSH plume has been remediated, assess options to address dissolve phase groundwater impacts.
6. Submit next annual report no later than March 31, 2023.



During 2018, Williams installed a solar powered pneumatic PSH recovery system in MW-6 at the Site. Harvest purchased the facility from Williams on October 1, 2018 and retained WSP to continue operation and maintenance (O&M) of the PSH recovery system until its removal in November 2019. The PSH recovery system is rotated quarterly between Harvest sites and can be reinstalled if a rebound in PSH thickness is 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.

Delineation and groundwater monitoring activities were conducted at the Site from October through November 2019. WSP 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). WSP monitored groundwater elevations in all monitoring wells and collected groundwater samples in monitoring wells MW-1, MW-2R, MW-5, MW-7, MW-8, and MW-9.

## METHODOLOGY

Groundwater monitoring activities in 2021 consisted of collecting quarterly groundwater elevations and an annual groundwater sample in monitoring wells MW-1, MW-2R, MW-5, MW-7, MW-8, and MW-9. PSH recovery and monitoring was performed in monitoring wells MW-4 and MW-6 throughout 2021. Bi-weekly to monthly site visits were conducted for O&M of the pneumatic pumping system from January through April in 2021.

## GROUNDWATER AND PSH LEVEL MEASUREMENTS

Depth to groundwater in each well was measured using an oil/water interface probe. Quarterly groundwater elevations are detailed in Table 1. Presence of any PSH was investigated using the interface probe. The interface probe was decontaminated with Alconox™ soap and rinsed with distilled water prior to each measurement to prevent cross-contamination. Top-of-casing elevations from the survey were used to calculate groundwater potentiometric elevations, draft groundwater elevation contours, and determine groundwater flow direction.

## GROUNDWATER SAMPLING

On September 30, 2021, WSP collected groundwater samples utilizing polyvinyl chloride (PVC) bailers. Monitoring wells were purged a minimum of three casing volumes, or until the wells were bailed dry, prior to collecting groundwater samples. WSP used an Oakton® multi-probe water quality field meter to record pH, electrical conductance (EC), and temperature of the groundwater during the purging process to monitor for stabilization of the parameters to indicate groundwater within each monitoring well was indicative of groundwater conditions surrounding the wells. Purged water was containerized and disposed of at the Horse Canyon Compression facility.

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 Hall Environmental Analyses Laboratory (HEAL) in Albuquerque, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B. Proper chain-of-custody (COC) 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. Laboratory reports from September 2021 are included in Enclosure A and the 2021 groundwater sample collection forms are included in Enclosure B.

The following New Mexico Water Quality Control Commission (NMWQCC) standards apply to groundwater: 5 micrograms per liter (µg/L) benzene, 1,000 µg/L toluene, 700 µg/L ethylbenzene, and 620 µg/L total xylenes.

## PSH RECOVERY

In February 2018, WSP installed a solar powered pneumatic pumping system (solar sipper) 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. A delay between pumping cycles allows for recharge of fluids in the monitoring well and prevents over-pumping to efficiently use the power generated from the solar panels. Bi-weekly to monthly site visits were conducted



in 2021 to monitor system performance, PSH recovery, and conduct system maintenance. Operational data and system maintenance data are summarized on Table 2. The solar sipper was moved on April 30, 2021, to a different Harvest site. Product recovery socks were used in monitoring well MW-4 and MW-6 when PSH was present, and the solar sipper was not at the site.

## RESULTS

### GROUNDWATER ELEVATIONS

Depth to groundwater at the Site was measured on March 31, 2021, May 24, 2021, September 30, 2021, and November 23, 2021. Groundwater elevations measured during the 2021 monitoring events indicated the groundwater gradient is to the southeast with minor inflections around the hydrological feature to the south, which is consistent with observations from previous monitoring events (Figures 2 through 5).

PSH was observed in monitoring well MW-6 in March, May, September, and November 2021, and in MW-4 during the September and November 2021 monitoring events. PSH thickness in monitoring well MW-6 ranged from 0.03 feet (May 2021) to 0.18 feet (September 2021), in MW-4 PSH thickness was 0.10 feet and 0.05 in September and November 2021, respectively.

### GROUNDWATER ANALYTICAL RESULTS

Laboratory analytical results from the September 2021 groundwater samples indicated monitoring wells MW-2R and MW-5 exhibited benzene concentrations exceeding the NMWQCC standard for groundwater, with concentrations of 89 µg/L and 43 µg/L, respectively. Monitoring wells MW-4 and MW-6 were not sampled during this event due to the presences of PSH. POC monitoring wells MW-7 and MW-9 and cross gradient monitoring well MW-8 remain compliant with NMWQCC standards. Monitoring well MW-3 was not sampled in 2021 due to insufficient water in the well. Table 3 summarizes the historical groundwater analytical results. Figure 4 displays the analytical results and groundwater elevations for the September 2021 monitoring event. Laboratory analytical results are included in Enclosure A.

### PSH RECOVERY

PSH was observed in monitoring well MW-4 in 2021 and approximately 0.50 gallons of PSH were recovered via a product recovery sock from MW-4 since October 19, 2020. Approximately 1.13 gallons of PSH were recovered from monitoring well MW-6 through a solar sipper in 2021. On April 30, 2021, WSP disassembled the solar sipper to move to another Harvest site. Based on decreasing levels of PSH, the solar sipper system will be used on other Harvest locations and only return to this Site if measurable and consistent PSH levels are encountered. Harvest will continue to use PSH absorbent socks and manual PSH removal when PSH is detected on site.

## CONCLUSION

Trace amounts of PSH was detected in monitoring well MW-4 and PSH continues to accumulate in monitoring well MW-6, located downgradient of the original source area. After removal of the PSH recovery system, product recovery socks were installed in monitoring wells MW-4 and MW-6 for PSH recovery. Approximately 44.16 gallons of PSH have been recovered from monitoring well MW-6 through the solar sipper since it was first installed, and 1.13 gallons were recovered in 2021. Approximately 0.50 gallons of PSH was recovered from monitoring well MW-4 through product sock recovery in 2021.

Groundwater samples MW-2R and MW-5 exhibited benzene concentrations exceeding the NMWQCC standard for groundwater. Groundwater samples MW-1, MW-7, MW-8, and MW-9 did not exceed NMWQCC standards for groundwater.



## FUTURE WORK

Harvest will continue to measure depth to groundwater and depth to PSH quarterly in monitoring wells MW-1, MW-2R, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, and MW-9. Groundwater samples will be collected annually and analyzed for BTEX from the monitoring wells listed above if there is sufficient water and/or no PSH present. Harvest will continue to use product recovery socks and manual bailing of PSH when it is observed. If consistent and measurable PSH return to the Site, Harvest will re-install the solar sipper. Once the PSH plume has been remediated, Harvest will assess options to address dissolve phase groundwater impacts.

Kind regards,

A handwritten signature in black ink, reading 'Eric Carroll'.

Eric Carroll  
Consultant, Geologist

A handwritten signature in black ink, reading 'Brooke Herb'.

Brooke Herb  
Senior Consultant, Geologist

Encl.

Figure 1: Site Location Map

Figure 2: Groundwater Elevation Contour Map (March 2021)

Figure 3: Groundwater Elevation Contour Map (May 2021)

Figure 4: Groundwater Elevations and Analytical Results (September 2021)

Figure 5: Groundwater Elevation Contour Map (November 2021)

Table 1: Groundwater Elevation Summary

Table 2: Pneumatic Product System Recovery

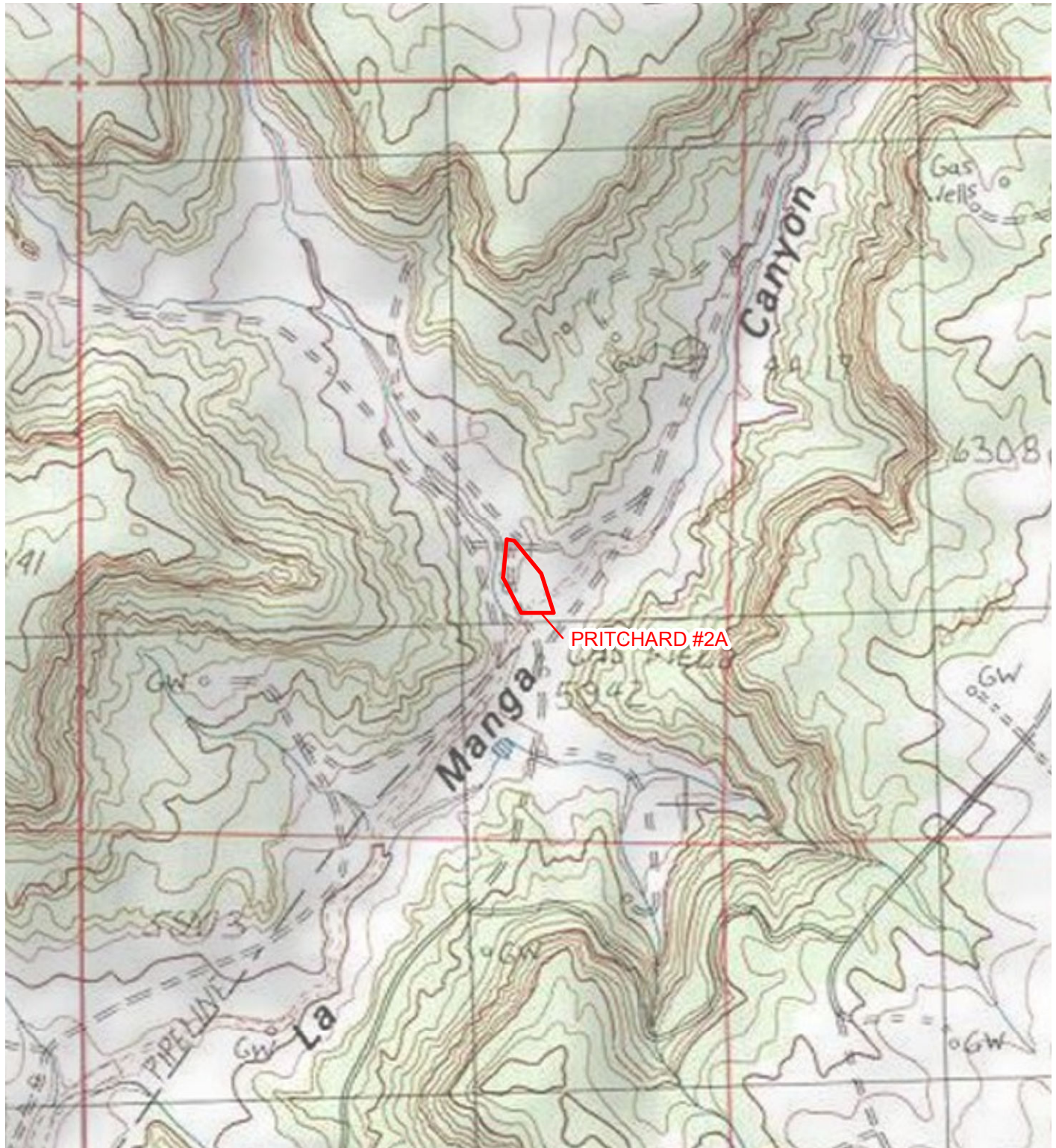
Table 3: Groundwater Analytical Results

Enclosure A: Laboratory Analytical Reports

Enclosure B: Groundwater Sample Collection Forms



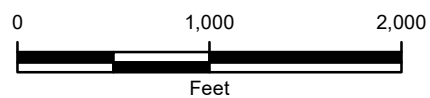
## FIGURES



**LEGEND**

IMAGE COURTESY OF ESRI/USGS

 SITE LOCATION

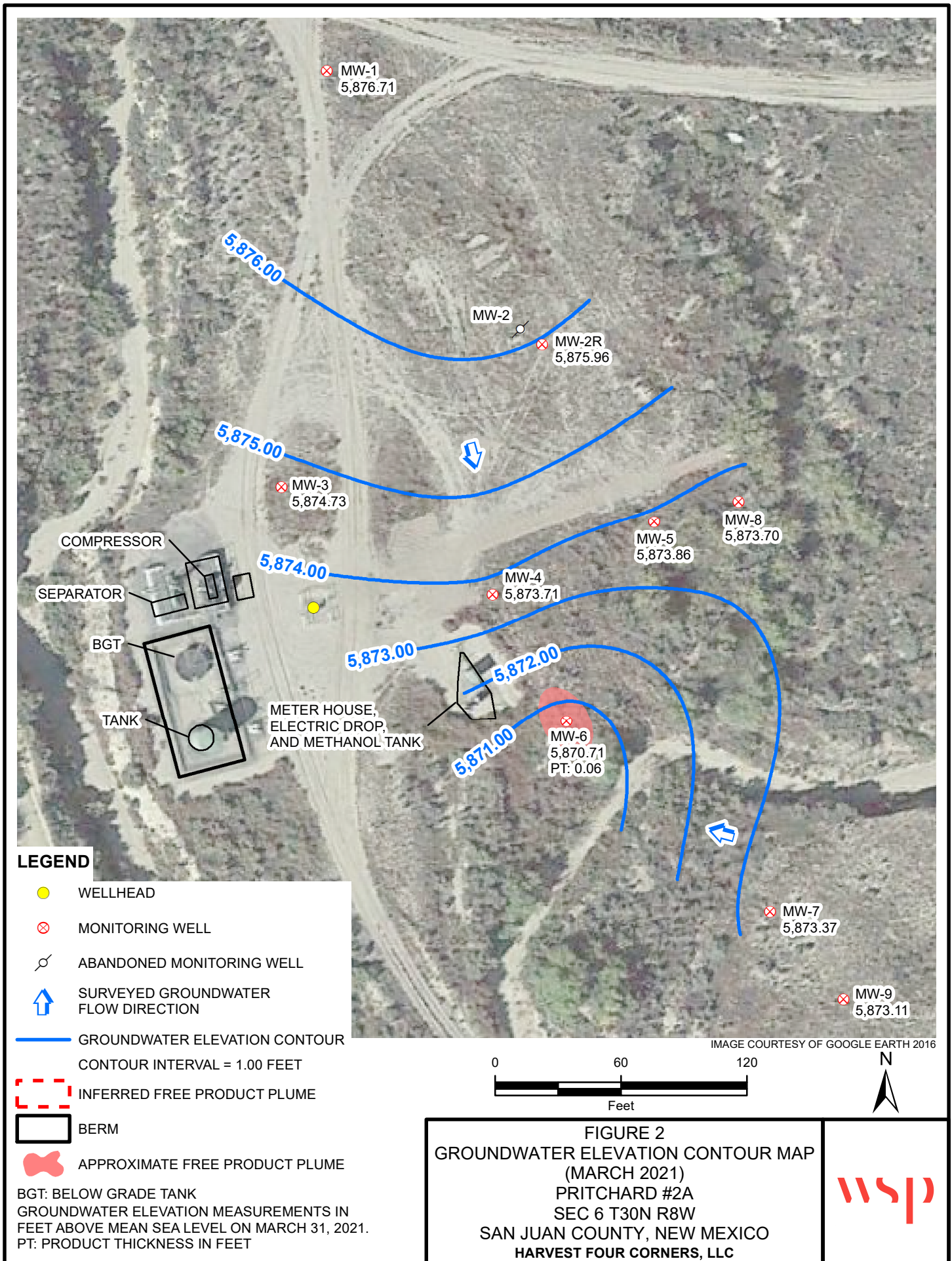


**FIGURE 1**  
**SITE LOCATION MAP**  
**PRITCHARD #2A**  
**SEC 6 T30N R8W**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

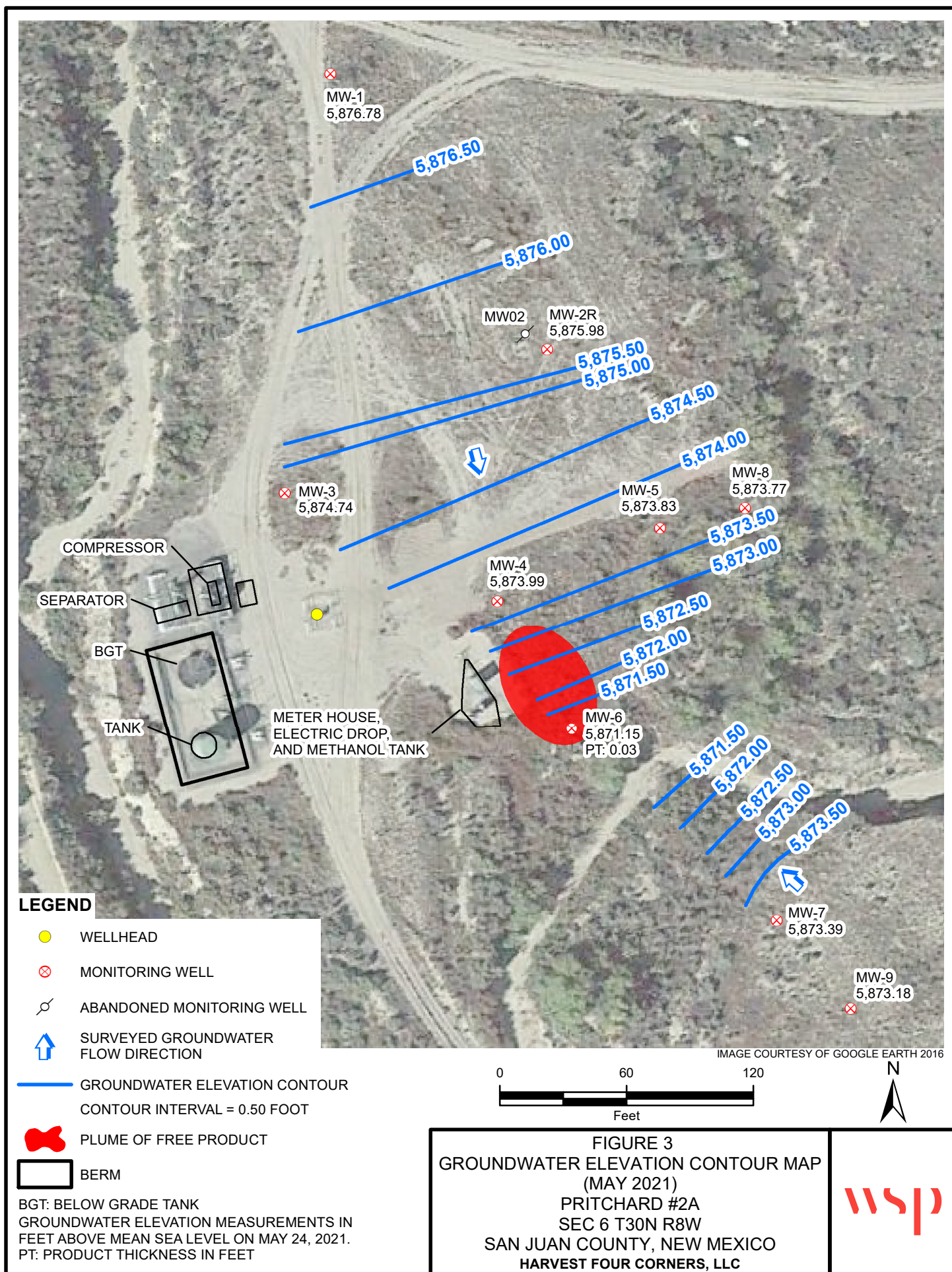


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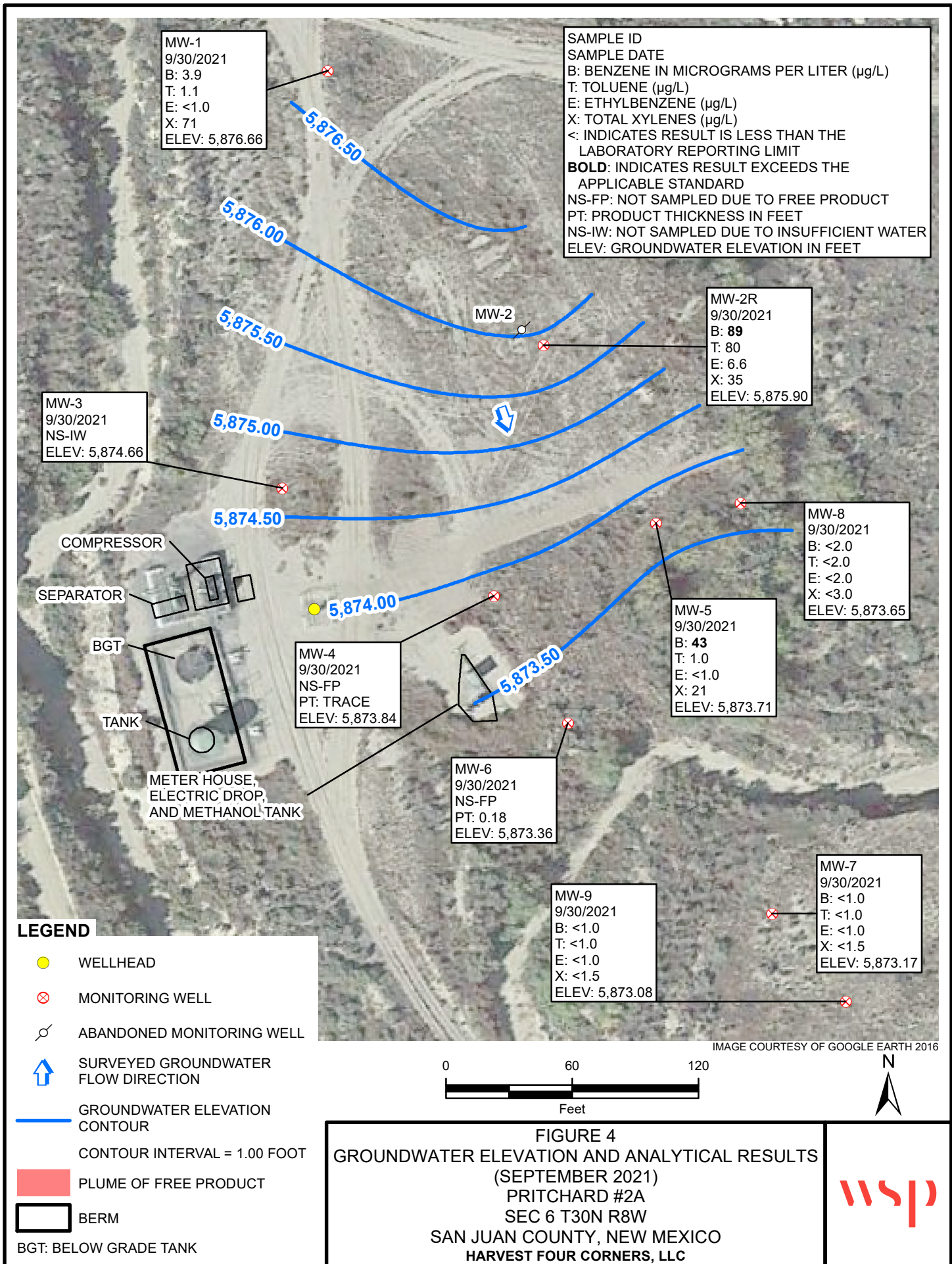


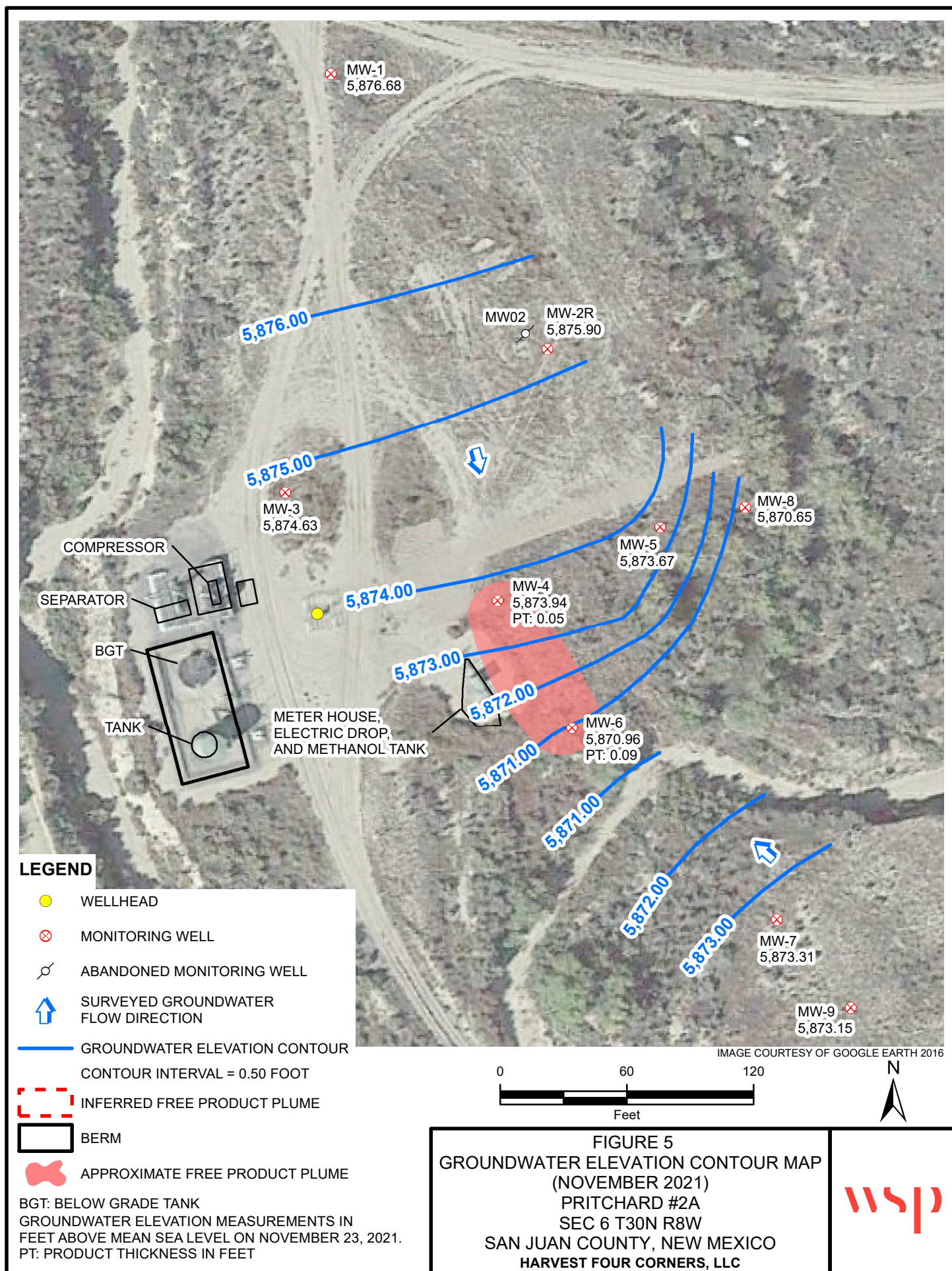


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## TABLES

TABLE 1

**GROUNDWATER ELEVATION SUMMARY  
PRITCHARD #2A  
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
MW-1*	6/24/2013	5,961.21	82.24	NP	NP	5,878.97
MW-1	9/12/2013	5,961.21	82.35	NP	NP	5,878.86
MW-1	12/6/2013	5,961.21	82.51	NP	NP	5,878.70
MW-1	3/19/2014	5,961.21	82.68	NP	NP	5,878.53
MW-1	6/12/2014	5,961.21	82.75	NP	NP	5,878.46
MW-1	9/11/2014	5,961.21	82.90	NP	NP	5,878.31
MW-1	12/8/2014	5,961.21	83.02	NP	NP	5,878.19
MW-1	3/10/2015	5,961.21	83.12	NP	NP	5,878.09
MW-1	6/15/2015	5,961.21	83.15	NP	NP	5,878.06
MW-1	9/24/2015	5,961.21	83.31	NP	NP	5,877.90
MW-1	12/19/2015	5,961.21	83.39	NP	NP	5,877.82
MW-1	9/8/2016	5,961.21	83.51	NP	NP	5,877.70
MW-1	3/28/2017	5,961.21	83.62	NP	NP	5,877.59
MW-1	6/27/2017	5,961.21	83.70	NP	NP	5,877.51
MW-1***	11/5/2019	5,961.39	84.03	NP	NP	5,877.36
MW-1	3/10/2020	5,961.39	84.35	NP	NP	5,877.04
MW-1	6/26/2020	5,961.39	84.40	NP	NP	5,876.99
MW-1	9/11/2020	5,961.39	84.44	NP	NP	5,876.95
MW-1	12/11/2020	5,961.39	84.43	NP	NP	5,876.96
MW-1	3/31/2021	5,961.39	84.68	NP	NP	5,876.71
MW-1	5/24/2021	5,961.39	84.61	NP	NP	5,876.78
MW-1	9/30/2021	5,961.39	84.73	NP	NP	5,876.66
MW-1	11/23/2021	5,961.39	84.71	NP	NP	5,876.68
MW-2 **	2/28/2013	5,963.03	79.97	79.63	0.34	5,883.33
MW-2 *	6/24/2013	5,957.53	79.90	79.62	0.28	5,877.85
MW-2	9/12/2013	5,957.53	80.06	79.78	0.28	5,877.69
MW-2	12/6/2013	5,957.53	DRY	DRY	DRY	DRY
MW-2	3/19/2014	5,957.53	DRY	DRY	DRY	DRY
MW-2	6/12/2014	5,957.53	DRY	DRY	DRY	DRY
MW-2	9/11/2014	5,957.53	DRY	DRY	DRY	DRY
MW-2	12/8/2014	5,957.53	DRY	DRY	DRY	DRY
MW-2	3/10/2015	5,957.53	DRY	DRY	DRY	DRY
MW-2	6/15/2015	5,957.53	DRY	DRY	DRY	DRY
MW-2	9/24/2015	5,957.53	DRY	DRY	DRY	DRY
MW-2	12/19/2015	5,957.53	DRY	DRY	DRY	DRY
MW-2	9/8/2016	5,957.53	DRY	DRY	DRY	DRY
MW-2	3/28/2017	5,957.53	DRY	DRY	DRY	DRY

TABLE 1

**GROUNDWATER ELEVATION SUMMARY  
PRITCHARD #2A  
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-2	6/27/2017	5,958.53	DRY	DRY	DRY	DRY
MW-2R***	11/5/2019	5,953.78	77.51	NP	NP	5,876.27
MW-2R	3/10/2020	5,953.78	77.56	NP	NP	5,876.22
MW-2R	6/26/2020	5,953.78	77.64	NP	NP	5,876.14
MW-2R	9/11/2020	5,953.78	77.70	NP	NP	5,876.08
MW-2R	12/11/2020	5,953.78	77.67	NP	NP	5,876.11
MW-2R	3/31/2021	5,953.78	77.82	NP	NP	5,875.96
MW-2R	5/24/2021	5,953.78	77.80	NP	NP	5,875.98
MW-2R	9/30/2021	5,953.78	77.88	NP	NP	5,875.90
MW-2R	11/23/2021	5,953.78	77.88	NP	NP	5,875.90
MW-3	2/28/2013	5,961.27	78.02	NP	NP	5,883.25
MW-3*	6/24/2013	5,955.95	78.22	NP	NP	5,877.73
MW-3	9/12/2013	5,955.95	78.37	NP	NP	5,877.58
MW-3	12/6/2013	5,955.95	78.51	NP	NP	5,877.44
MW-3	3/19/2014	5,955.95	78.71	NP	NP	5,877.24
MW-3	6/12/2014	5,955.95	78.84	NP	NP	5,877.11
MW-3	9/11/2014	5,955.95	79.01	NP	NP	5,876.94
MW-3	12/8/2014	5,955.95	79.18	NP	NP	5,876.77
MW-3	3/10/2015	5,955.95	79.29	NP	NP	5,876.66
MW-3	6/15/2015	5,955.95	79.40	NP	NP	5,876.55
MW-3	9/24/2015	5,955.95	79.55	NP	NP	5,876.40
MW-3	12/19/2015	5,955.95	79.63	NP	NP	5,876.32
MW-3	9/8/2016	5,955.95	79.90	NP	NP	5,876.05
MW-3	3/28/2017	5,955.95	80.17	NP	NP	5,875.78
MW-3	6/27/2017	5,955.95	80.20	NP	NP	5,875.75
MW-3***	11/5/2019	5,956.12	80.99	NP	NP	5,875.13
MW-3	3/10/2020	5,956.12	81.13	NP	NP	5,874.99
MW-3	6/26/2020	5,956.12	81.21	NP	NP	5,874.91
MW-3	9/11/2020	5,956.12	81.26	NP	NP	5,874.86
MW-3	12/11/2020	5,956.12	81.34	NP	NP	5,874.78
MW-3	3/31/2021	5,956.12	81.39	NP	NP	5,874.73
MW-3	5/24/2021	5,956.12	81.38	NP	NP	5,874.74
MW-3	9/30/2021	5,956.12	81.46	NP	NP	5,874.66
MW-3	11/23/2021	5,956.12	81.49	NP	NP	5,874.63
MW-4	2/28/2013	5,960.42	79.55	77.97	1.58	5,882.13
MW-4*	6/24/2013	5,955.12	79.72	78.18	1.54	5,876.63
MW-4	9/12/2013	5,955.12	79.73	78.43	1.30	5,876.43

TABLE 1

**GROUNDWATER ELEVATION SUMMARY  
PRITCHARD #2A  
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	12/6/2013	5,955.12	79.03	78.82	0.21	5,876.26
MW-4	3/19/2014	5,955.12	79.29	78.97	0.32	5,876.09
MW-4	6/12/2014	5,955.12	79.25	79.20	0.05	5,875.91
MW-4	9/11/2014	5,955.12	79.45	79.40	0.05	5,875.71
MW-4	12/8/2014	5,955.12	79.49	79.46	0.03	5,875.65
MW-4	3/10/2015	5,955.12	79.59	79.58	0.01	5,875.54
MW-4	6/15/2015	5,955.12	79.73	79.70	0.03	5,875.41
MW-4	9/24/2015	5,955.12	79.87	79.83	0.04	5,875.28
MW-4	12/19/2015	5,955.12	79.88	79.86	0.02	5,875.26
MW-4	9/8/2016	5,955.12	80.23	80.10	0.13	5,874.99
MW-4	3/28/2017	5,955.12	80.27	0.00	0.00	5,874.85
MW-4	6/27/2017	5,955.12	80.33	0.00	0.00	5,874.79
MW-4	9/6/2017	5,955.12	80.35	0.00	0.00	5,874.77
MW-4***	11/5/2019	5,955.32	81.13	81.10	0.03	5,874.21
MW-4	3/10/2020	5,955.12	81.07	81.00	0.07	5,874.11
MW-4	6/26/2020	5,955.12	81.27	81.23	0.04	5,873.88
MW-4	9/11/2020	5,955.12	81.10	Trace	Trace	5,874.02
MW-4	12/11/2020	5,955.12	81.19	NP	NP	5,873.93
MW-4	3/31/2021	5,955.12	81.41	NP	NP	5,873.71
MW-4	5/24/2021	5,955.12	81.13	NP	NP	5,873.99
MW-4	9/30/2021	5,955.12	81.28	81.18	0.10	5,873.92
MW-4	11/23/2021	5,955.12	81.22	81.17	0.05	5,873.94
MW-5	2/28/2013	5,960.41	78.20	NP	NP	5,882.21
MW-5*	6/24/2013	5,955.09	78.39	NP	NP	5,876.70
MW-5	9/12/2013	5,955.09	78.55	NP	NP	5,876.54
MW-5	12/6/2013	5,955.09	78.72	NP	NP	5,876.37
MW-5	3/19/2014	5,955.09	78.91	NP	NP	5,876.18
MW-5	6/12/2014	5,955.09	79.04	NP	NP	5,876.05
MW-5	9/11/2014	5,955.09	79.20	NP	NP	5,875.89
MW-5	12/8/2014	5,955.09	79.03	NP	NP	5,876.06
MW-5	3/10/2015	5,955.09	79.41	NP	NP	5,875.68
MW-5	6/15/2015	5,955.09	79.53	NP	NP	5,875.56
MW-5	9/24/2015	5,955.09	79.63	NP	NP	5,875.46
MW-5	12/19/2015	5,955.09	79.70	NP	NP	5,875.39
MW-5	9/8/2016	5,955.09	79.91	NP	NP	5,875.18
MW-5	3/28/2017	5,955.09	80.14	NP	NP	5,874.95
MW-5	6/26/2017	5,955.09	80.15	NP	NP	5,874.94
MW-5***	11/5/2019	5,955.27	80.96	NP	NP	5,874.31

TABLE 1

**GROUNDWATER ELEVATION SUMMARY  
PRITCHARD #2A  
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-5	3/10/2020	5,955.27	81.09	NP	NP	5,874.18
MW-5	6/26/2020	5,955.27	81.17	NP	NP	5,874.10
MW-5	9/11/2020	5,955.27	81.25	NP	NP	5,874.02
MW-5	12/11/2020	5,955.27	81.27	NP	NP	5,874.00
MW-5	3/31/2021	5,955.27	81.41	NP	NP	5,873.86
MW-5	5/24/2021	5,955.27	81.44	NP	NP	5,873.83
MW-5	9/30/2021	5,955.27	81.56	NP	NP	5,873.71
MW-5	11/23/2021	5,955.27	81.60	NP	NP	5,873.67
MW-6	2/28/2013	5,958.24	67.56	NP	NP	5,890.68
MW-6*	6/24/2013	5,952.97	76.74	NP	NP	5,876.23
MW-6	9/12/2013	5,952.97	76.93	NP	NP	5,876.04
MW-6	12/6/2013	5,952.97	77.09	NP	NP	5,875.88
MW-6	3/19/2014	5,952.97	77.30	NP	NP	5,875.67
MW-6	6/12/2014	5,952.97	77.44	NP	NP	5,875.53
MW-6	9/11/2014	5,952.97	77.62	NP	NP	5,875.35
MW-6	12/8/2014	5,952.97	77.72	NP	NP	5,875.25
MW-6	3/10/2015	5,952.97	77.84	NP	NP	5,875.13
MW-6	6/15/2015	5,952.97	77.94	NP	NP	5,875.03
MW-6	9/24/2015	5,952.97	78.09	78.09†	<0.01	5,874.88
MW-6	12/19/2015	5,952.97	78.26	78.08	0.18	5,874.85
MW-6	9/8/2016	5,952.97	79.10	78.18	0.92	5,874.61
MW-6	3/28/2017	5,952.97	79.80	78.45	1.35	5,874.25
MW-6	6/27/2017	5,952.97	79.85	78.29	1.56	5,874.37
MW-6	9/6/2017	5,952.97	79.84	78.32	1.52	5,874.35
MW-6***	11/5/2019	5,950.99	80.14	79.49	0.65	5,871.37
MW-6	3/10/2020	5,950.99	79.83	79.72	0.11	5,871.25
MW-6	6/26/2020	5,950.99	79.78	79.49	0.29	5,871.44
MW-6	9/11/2020	5,950.99	79.55	79.48	0.07	5,871.50
MW-6	12/11/2020	5,950.99	79.78	79.76	0.02	5,871.23
MW-6	3/31/2021	5,950.99	80.28	80.22	0.06	5,870.76
MW-6	5/24/2021	5,950.99	79.84	79.81	0.03	5,871.17
MW-6	9/30/2021	5,950.99	77.64	77.46	0.18	5,873.49
MW-6	11/23/2021	5,950.99	80.10	80.01	0.09	5,870.96
MW-7***	11/5/2019	5,952.61	79.13	NP	NP	5,873.48
MW-7	3/10/2020	5,952.61	78.87	NP	NP	5,873.74
MW-7	6/26/2020	5,952.61	78.90	NP	NP	5,873.71
MW-7	9/11/2020	5,952.61	79.06	NP	NP	5,873.55

TABLE 1

**GROUNDWATER ELEVATION SUMMARY  
PRITCHARD #2A  
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-7	12/11/2020	5,952.61	79.02	NP	NP	5,873.59
MW-7	3/31/2021	5,952.61	79.24	NP	NP	5,873.37
MW-7	5/24/2021	5,952.61	79.22	NP	NP	5,873.39
MW-7	9/30/2021	5,952.61	79.44	NP	NP	5,873.17
MW-7	11/23/2021	5,952.61	79.30	NP	NP	5,873.31
MW-8***	11/5/2019	5,955.36	81.13	NP	NP	5,874.23
MW-8	3/10/2020	5,955.36	81.26	NP	NP	5,874.10
MW-8	6/26/2020	5,955.36	81.34	NP	NP	5,874.02
MW-8	9/11/2020	5,955.36	81.47	NP	NP	5,873.89
MW-8	12/11/2020	5,955.36	81.44	NP	NP	5,873.92
MW-8	3/31/2021	5,955.36	81.66	NP	NP	5,873.70
MW-8	5/24/2021	5,955.36	81.59	NP	NP	5,873.77
MW-8	9/30/2021	5,955.36	81.71	NP	NP	5,873.65
MW-8	11/23/2021	5,955.36	84.71	NP	NP	5,870.65
MW-9***	11/5/2019	5,953.01	79.67	NP	NP	5,873.34
MW-9	3/10/2020	5,953.01	79.78	NP	NP	5,873.23
MW-9	6/26/2020	5,953.01	79.71	NP	NP	5,873.30
MW-9	9/11/2020	5,953.01	79.71	NP	NP	5,873.30
MW-9	12/11/2020	5,953.01	79.68	NP	NP	5,873.33
MW-9	3/31/2021	5,953.01	79.90	NP	NP	5,873.11
MW-9	5/24/2021	5,953.01	79.83	NP	NP	5,873.18
MW-9	9/30/2021	5,953.01	79.93	NP	NP	5,873.08
MW-9	11/23/2021	5,953.01	79.86	NP	NP	5,873.15

**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

† Oil-water interface probe did not detect phase separated hydrocarbons. LTE visually observed phase separated hydrocarbons using a bailer.

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



TABLE 2

**PNEUMATIC PRODUCT SYSTEM RECOVERY  
PRITCHARD #2A  
SAN JUAN COUNTY, NEW MEXICO**

Date	Well ID	Cycles	Run Time (hours)	Cycles (Lifetime)	Lifetime (hours)	Inches of Product in Barrel	Estimated Cumulative Product Recovered (gallons)	Depth to Product (feet)	Depth to Water (feet)	PSH Thickness (feet)	Battery Voltage	System ON/OFF	Any Faults	Notes/Maintenance Completed
2/23/2018	MW-6	0	0	193	4:03:49	0.0	0.00	78.51	79.3	0.79	13.3	ON	NO	Installed system in MW-6.
2/26/2018	MW-6	9	3:02:07	202	7:09:55	1.0	1.72	NM	NM	NM	12.4	ON	NO	Set delay to 4 hours. Runtime Reset when delay was changed.
3/14/2018	MW-6	105	15:22:43	298	19:04:52	1.5	2.58	78.93	79.2	0.27	12.5	ON	NO	Well was vandalized/tampered with sometime between today and last visit.
3/20/2018	MW-6	174	21:22:24	367	25:04:34	3.0	5.16	NM	NM	NM	12.5	ON	NO	
4/13/2018	MW-6	460	45:22:46	653	49:04:56	3.5	6.02	NM	NM	NM	12.5	ON	NO	Unit was tipped over on arrival leaning against collection drum
4/30/2018	MW-6	651	62:19:23	853	66:01:33	4.5	7.75	NM	NM	NM	12.6	ON	NO	Ran to 660 cycles, no recovery observed, may need to extend delay. Product evaporating from collection drum.
5/31/2018	MW-6	1029	93:21:01	1231	97:03:11	0.25	11.26	78.79	79.25	0.46	12.6	ON	YES	Intake override fault. Cleared intake float restarted system with vac at 00:15 pressure at 00:45 and delay at 1:15.
6/29/2018	MW-6	1448	122:22:52	1650	126:05:02	0.5	15.16	NM	NM	NM	12.6	ON	NO	Delay set to 2:00 hours.
7/17/2018	MW-6	1663	140:22:11	1865	144:04:21	1.25	17.16	NM	NM	NM	12.5	ON	NO	Ran one cycle about an ounce of product recovered. Delay left at 2:00 hours.
8/2/2018	MW-6	1854	157:00:07	2056	160:06:17	3.25	18.93	79.06	79.10	0.04	12.6	ON	NO	Pulled pump and cleaned debris off screen and pump assembly.
8/29/2018	MW-6	2188	185:00:36	2391	188:06:46	4	22.04	79.14	79.16	0.02	12.5	ON	NO	Clean pump and skimmer, changed solar panel angle to 54°, change delay to 4 hours.
9/27/2018	MW-6	2356	216:01:06	2558	216:07:16	3	22.71	79.18	79.22	0.04	12.5	ON	NO	Cleaned pump and skimmer. Left skimmer depth and control settings.
10/12/2018	MW-6	2445	227:23:47	2647	231:05:57	2	23.78	79.18	79.49	0.31	12.6	ON	NO	Cleaned pump and skimmer. Skimmer left at same depth moved delay down to three hours.
11/6/2018	MW-6	2661	255:01:28	2863	002:07:38	1.5	27.02	NM	NM	NM	12.4	ON	NO	Cleaned pump and skimmer. Desiccant changed in dryers.
12/3/2018	MW-6	2859	23:22:02	3061	27:04:12	6	29.99	79.03	79.55	0.52	12.7	ON	NO	6" of product with approximately 1" of ice.
1/5/2019	MW-6	3039	57:00:06	3241	60:06:16	2.125	32.69	NM	NM	NM	12.4	ON	NO	Move to 12 hr. delay 20 sec. vac 35 sec pressure
1/21/2019	MW-6	3071	73:02:44	3273	76:08:55	3.25	33.17	NP	79.14	0	12.4	ON	NO	Changed delay to 24 hours, pump was at 78.5 moved to 79' mid pump stroke.
2/26/2019	MW-6	3121	109:01:10	3323	112:07:20	5	33.92	NP	79.4	0	12.4	ON	NO	No PSH detected. Cycle returned water. 3" of product in barrel with some ice at bottom of barrel
4/16/2019	MW-6	3176	158:00:48	3378	161:06:58	3	34.74	NP	79.39	0	12.5	ON	NO	No PSH detected in well. Change air lines and clean solar panel. Adjust delay to 32 hours.
5/23/2019	MW-6	3204	195:02:55	3406	198:09:05	3	35.16	79.34	79.75	0.41	12.4	ON	NO	PSH detected. Cleaned screen and applied PSH to screen. Delay left at 32 hours.
7/29/2019	MW-6	3258	6:00:58	3460	9:07:08	3	35.97	79.37	79.45	0.08	12.5	ON	NO	Replace air lines due to weathering/cracking.
8/30/2019	MW-6	3290	38:00:33:29	3492	41:06:43:23	2	36.22	79.38	79.52	0.14	12.5	ON	NO	Delay at 30 hours. 2 inches of product in barrel 1/2 ounce recovered per cycle.
9/20/2019	MW-6	3306	59:04:10	3508	62:10:20	2	36.35	79.23	79.55	0.32	12.4	ON	NO	Clean pump and skimmer, adjust depth of skimmer. 1.5 oz. recovered after cleaning
11/6/2019	MW-6	3343	106:04:01	3545	109:10:11	3	41.68	79.49	80.14	0.65	12.4	ON	NO	Left delay at 30 hours. 1 oz of product recovered per cycle.
11/19/2019	MW-6	3353	119:02:38	3555	122:08:48	3	41.76	79.37	79.89	0.52	12.4	ON	NO	Disassembled sipper to move to Davis #1A
2020 Data														
1/30/2020	MW-6	NA	NA	NA	NA	NA	41.89	NP	81.12	0	NA	NA	NA	Removed product recovery sock from well 100% saturated (17 oz per sock)
2/26/2020	MW-6	4	0:00:02	694	1:03:08	0	42.02	79.51	79.63	0.12	12.5	ON	NO	Removed product sock from well 100% saturated (17 oz). Installed solar sipper and pump in well MW-6.
3/10/2020	MW-6	52	12:17:56	742	13:21:02 PM	NM	42.07	79.72	79.83	0.11	12.3	ON	NO	Wiped down solar panel and cleaned pump
3/20/2020	MW-6	92	22:18:00	782	11:20:06 PM	1	42.10	79.7	79.85	0.15	12.1	ON	NO	Wiped down solar panel and cleaned pump. No product observed in MW-4 left product recovery sock.

TABLE 2

**PNEUMATIC PRODUCT SYSTEM RECOVERY  
PRITCHARD #2A  
SAN JUAN COUNTY, NEW MEXICO**

Date	Well ID	Cycles	Run Time (hours)	Cycles (Lifetime)	Lifetime (hours)	Inches of Product in Barrel	Estimated Cumulative Product Recovered (gallons)	Depth to Product (feet)	Depth to Water (feet)	PSH Thickness (feet)	Battery Voltage	System ON/OFF	Any Faults	Notes/Maintenance Completed
3/26/2020	MW-6	116	28:11:52	806	5:15:02 AM	1.5	42.13	79.58	79.69	0.11	12	ON	NO	Move sipper to Dogie CS. Install sock in MW-6
6/26/2020	MW-6	NA	NA	NA	NA	NA	42.28	79.49	79.78	0.29	NA	NA	NA	Sock 100% saturated, 3 oz of product bailed.
6/30/2020	MW-6	1	0:02:00	3791	9:05:23 PM	1	42.35	NP	79.74	0	12.5	ON	NO	Sipper installed at MW-6 from Davis. Sock 50% saturated. Sock removed from well.
7/24/2020	MW-6	24	23:23:55	3814	93:05:15	1	42.44	77.32	77.34	0.02	12.5	ON	NO	Clean pump/solar panel, 1" of product in barrel, bailed 1 oz of product from well
8/6/2020	MW-6	37	37:00:56	3827	106:06:17	1	42.49	79.65	79.66	0.01	12.4	ON	NO	Clean pump/solar panel, 1" of product in barrel
9/8/2020	MW-6	33	32:23:22	3860	139:05:39	1	42.62	79.65	79.66	0.01	12.4	ON	NO	Clean solar panel. Pressure gauge not working at the sipper. Pressure and Vacuum observed at pump.
9/23/2020	MW-6	19	16:22:42	3879	156:04:42	1	42.69	79.87	79.98	0.11	12.4	ON	NO	Clean solar panel. Adjusted pump depth.
10/14/2020	MW-6	38	36:00:17	3898	175:06:07	<1	42.77	79.85	80.00	0.15	12.4	ON	NO	Clean solar panel. Adjusted pump depth to 76.85, ran 10 cycles and no PSH discharged.
10/26/2020	MW-6	59	48:01:04	3919	187:06:54	1	42.81	79.95	81.19	1.24	12.3	ON	NO	0.25 oz of product per cycle. Clear snow off solar Panel.
11/9/2020	MW-6	73	62:03:07	3933	201:08:57	1	42.84	79.98	81.17	1.19	12.7	ON	NO	0.25 oz of product per cycle. System operating
11/24/2020	MW-6	89	77:03:11	3949	187:06:54	2.5	42.87	79.92	80.1	0.18	12.5	ON	NO	2 oz of product per cycle. Clean solar panel.
12/11/2020	MW-6	105	94:03:15	3965	233:09:05	3	42.90	79.76	79.78	0.02	12.4	ON	NO	0.25 oz of product per cycle. Vacuum gauge broken, system still operating.
12/18/2020	MW-6	111	101:01:35	3971	240:07:26	3	42.91	79.88	80.05	0.17	12.4	ON	NO	0.25 oz of product per cycle. Vacuum gauge broken, system still operating.
12/30/2020	MW-6	121	113:02:38	3981	252:08:28	2	42.99	80.02	80.07	0.05	12.4	ON	NO	1 oz PSH recovered in cycle. Changed solar panel angle to 51 degrees for winter.
<b>2021 Data</b>														
1/13/2021	MW-6	133	127:01:21	3993	10:07:11	1	43.17	80.05	80.09	0.04	12.4	ON	NO	1.5 oz recovered in cycle. Cleaned solar panel.
2/1/2021	MW-6	149	146:01:50	4009	29:07:40	2	43.36	80.1	80.2	0.1	12.5	ON	NO	0 oz recovered in cycle. Black discharge tubing audibly leaking needs at splice point, needs repair. Cleaned solar panel.
3/12/2021	MW-6	181	185:04:09	4041	68:09:59	2	43.73	80.02	80.13	0.11	12.4	ON	NO	2" product in BBL. 2-3 ounces per cycle.
3/31/2021	MW-6	199	204:03:21	4059	87:09:11	5	43.94	80.22	80.28	0.06	12.5	ON	NO	Moved recovery bbl to split in discharge line. 5" product in bbl.
4/15/2021	MW-6	211	219:06:08	4071	102:11:58	14	44.08	NP	80.12	0	12.4	ON	NO	Clean pump and solar panel. Change delay to 36 hours.
4/30/2021	MW-6	221	234:01:49	4081	117:07:40	14	44.20	80.15	80.18	0.03	12.5	ON	NO	Remove sipper and move to Florance GCJ #16A. Product dumped at Horse Canyon CS.

**Notes:**

PSH - phase-separated hydrocarbons

O&amp;M - operations and maintenance

BTOC - below top of casing

NA - not applicable

NM - not measured

NP - no product observed

TABLE 3

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**  
**PRITCHARD #2A**  
**SAN JUAN COUNTY, NEW MEXICO**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>NMWQCC Standard (µg/L)</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>620</b>
MW-1	5/26/1999	260	880	86	890
MW-1	8/17/1999	180	270	25	370
MW-1	10/20/1999	260	720	36	420
MW-1	1/26/2000	260	620	26	460
MW-1	4/17/2000	250	580	23	340
MW-1	11/16/2000	89.1	69.5	11.1	39.7
MW-1	1/17/2001	316	418	15.1	178
MW-1	4/27/2001	363	316	5.75	283
MW-1	10/16/2001	140	7.3	<2.0	110
MW-1	3/30/2002	120	150	ND	270
MW-1	6/16/2002	79	20	ND	110
MW-1	9/20/2004	<2.0	<2.0	<2.0	12
MW-1	12/6/2004	2.6	8.6	<2.0	53
MW-1	3/7/2005	13	2.3	ND	53
MW-1	6/18/2005	ND	ND	ND	7.9
MW-1	9/16/2005	<2.0	<2.0	<2.0	15
MW-1	11/28/2005	ND	4.5	ND	65.7
MW-1	7/13/2006	17.5	6	>1.0	57.2
MW-1	3/29/2010	18.3	2.7	<1.0	71.1
MW-1	6/18/2010	26.5	19	<1.0	36.3
MW-1	9/10/2010	20	<1.0	<1.0	30.2
MW-1	12/4/2010	17.9	8.7	<1.0	91.6
MW-1	3/11/2011	5.5	2.8	<1.0	65.1
MW-1	6/14/2011	2.2	<1.0	<1.0	16.9
MW-1	9/12/2011	1.9	<1.0	<1.0	23.3
MW-1	1/3/2012	6.2	8	<1.0	78.1
MW-1	4/2/2012	23.5	<1.0	7.7	45.9
MW-1	6/13/2012	19.0	<1.0	4.4	33.6
MW-1	10/2/2012	8.0	<1.0	5.6	40.7
MW-1	12/6/2012	22.0	<1.0	6.4	52.2
MW-1	2/28/2013	2.3	<1.0	<1.0	93
MW-1	6/24/2013	65	53	<2.0	370
MW-1*	9/12/2013	19	25	1.5	210

TABLE 3

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**  
**PRITCHARD #2A**  
**SAN JUAN COUNTY, NEW MEXICO**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>NMWQCC Standard (µg/L)</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>620</b>
MW-1	12/11/2013	5.6	3.3	<2.0	51
MW-1	3/19/2014	<2.0	<2.0	<2.0	<4.0
MW-1	6/12/2014	7.1	3.3	<1.0	130
MW-1	9/11/2014	12	12	<1.0	100
MW-1	12/8/2014	31	42	<2.0	270
MW-1	3/10/2015	17	15	<2.0	230
MW-1	9/24/2015	11	5.7	<1.0	110
MW-1	9/8/2016	9.2	11	<1.0	100
MW-1	11/5/2019	5.2	1.2	<1.0	35
MW-1	9/11/2020	6.6	<1.0	<1.0	11
MW-1	9/30/2021	3.9	1.1	<1.0	71
MW-2	5/26/1999	98	85	18	120
MW-2	3/7/2005	6,100	8,200	650	8,100
MW-2	11/29/2005	115	144	41	139
MW-2	7/13/2006	6,300	28,500	2,740	49,500
MW-2	9/10/2010	4,490	10,600	277	7,700
MW-2	3/11/2011	3,690	6,380	243	5,440
MW-2	1/3/2012	721	1,280	73.6	1,060
MW-2	4/2/2012	NS	NS	NS	NS
MW-2	6/13/2012	NS	NS	NS	NS
MW-2	10/2/2012	NS	NS	NS	NS
MW-2	12/6/2012	NS	NS	NS	NS
MW-2	2/28/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-2	6/24/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-2	9/12/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-2	12/6/2013	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	3/19/2014	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	6/12/2014	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	9/11/2014	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	12/8/2014	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	3/10/2015	NS-IW	NS-IW	NS-IW	NS-IW
MW-2	9/8/2016	NS-IW	NS-IW	NS-IW	NS-IW

TABLE 3

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**  
**PRITCHARD #2A**  
**SAN JUAN COUNTY, NEW MEXICO**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>NMWQCC Standard (µg/L)</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>620</b>
<b>MW-2R</b>	11/5/2019	<b>150</b>	<b>1,100</b>	77	<b>1,100</b>
<b>MW-2R</b>	9/11/2020	<b>580</b>	17	17	7.2
<b>MW-2R</b>	9/30/2021	<b>89</b>	80	6.6	35
<b>MW-3</b>	8/17/1999	<b>170</b>	100	23	150
<b>MW-3</b>	10/20/1999	<b>320</b>	250	50	360
<b>MW-3</b>	1/26/2000	<b>460</b>	380	180	<b>1,300</b>
<b>MW-3</b>	4/17/2000	<b>310</b>	150	180	<b>1,100</b>
<b>MW-3</b>	11/16/2000	<b>100</b>	43.6	21.3	99
<b>MW-3</b>	1/17/2001	<b>64.8</b>	81.4	8.7	54.9
<b>MW-3</b>	4/27/2001	1.98	<1	<1	<1
<b>MW-3</b>	10/16/2001	<1.0	<2.0	<2.0	<2.0
<b>MW-3</b>	3/30/2002	3.6	ND	ND	9
<b>MW-3</b>	6/16/2002	<b>15</b>	2.6	ND	10
<b>MW-3</b>	12/6/2004	4.3	5.2	>2.0	5.6
<b>MW-3</b>	9/20/2004	>2.0	>2.0	>2.0	>5.0
<b>MW-3</b>	3/7/2005	<b>5.8</b>	6	ND	8.2
<b>MW-3</b>	6/18/2005	ND	ND	ND	ND
<b>MW-3</b>	9/16/2005	2.5	<2.0	<2.0	<5.0
<b>MW-3</b>	11/29/2005	4.8	4.9	ND	ND
<b>MW-3</b>	7/18/2006	<b>56.7</b>	6.3	>1.0	7.8
<b>MW-3</b>	3/29/2010	<b>6.0</b>	<1.0	<1.0	4.32
<b>MW-3</b>	6/18/2010	4.4	<1.0	<1.0	5.8
<b>MW-3</b>	9/10/2010	<b>17.6</b>	4.3	1.9	20.2
<b>MW-3</b>	12/4/2010	<b>26.5</b>	<1.0	1.9	16.4
<b>MW-3</b>	3/11/2011	<b>10.6</b>	<1.0	<1.0	4.4
<b>MW-3</b>	6/14/2011	<b>10.1</b>	<1.0	1.3	12.0
<b>MW-3</b>	9/12/2011	<b>21.2</b>	<1.0	3.0	22.8
<b>MW-3</b>	1/3/2012	<b>8.3</b>	<1.0	<1.0	7.6
<b>MW-3</b>	4/2/2012	<b>18.2</b>	1.8	<1.0	7.5
<b>MW-3</b>	6/13/2012	<b>35.5</b>	4.5	<1.0	20.7
<b>MW-3</b>	10/2/2012	NS	NS	NS	NS
<b>MW-3</b>	12/6/2012	NS	NS	NS	NS

TABLE 3

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**  
**PRITCHARD #2A**  
**SAN JUAN COUNTY, NEW MEXICO**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>NMWQCC Standard (µg/L)</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>620</b>
MW-3	2/28/2013	18	<1.0	<1.0	3.5
MW-3	6/24/2013	130	<1.0	2.1	18
MW-3	9/12/2013	21	3.4	<1.0	6.9
MW-3	12/11/2013	18	<1.0	<1.0	2.7
MW-3	3/19/2014	9.2	<1.0	<1.0	<2.0
MW-3	6/12/2014	69	<1.0	1.0	8.4
MW-3	9/11/2014	28	<1.0	<1.0	7.6
MW-3	12/8/2014	38	1.0	<1.0	5.9
MW-3	3/10/2015	33	<1.0	<1.0	8.00
MW-3	9/24/2015	31	<1.0	1.1	6.90
MW-3	9/8/2016	37	3.3	1.6	18
MW-3	11/6/2019	230	8.6	6.6	35
MW-3	9/11/2020	15	<1.0	<1.0	1.5
MW-3	9/30/2021	NS-IW	NS-IW	NS-IW	NS-IW
MW-4	12/6/2004	750	2,100	250	2,400
MW-4	4/2/2012	NS	NS	NS	NS
MW-4	6/13/2012	NS	NS	NS	NS
MW-4	10/2/2012	NS	NS	NS	NS
MW-4	12/6/2012	NS	NS	NS	NS
MW-4	2/28/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	6/24/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	9/12/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	12/6/2013	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	3/19/2014	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	6/12/2014	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	9/11/2014	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	12/8/2014	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	3/10/2015	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	9/8/2015	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	11/5/2019	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	9/11/2020	NS-FP	NS-FP	NS-FP	NS-FP
MW-4	9/30/2021	NS-FP	NS-FP	NS-FP	NS-FP



TABLE 3

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**  
**PRITCHARD #2A**  
**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	1000	700	620
MW-5	5/26/1999	97	82	18	110
MW-5	1/26/2000	370	290	160	940
MW-5	4/17/2000	220	1,200	220	1,900
MW-5	11/16/2000	90.9	146	23.9	153
MW-5	1/17/2001	199	260	46.7	326
MW-5	4/27/2001	3.1	8.34	<1	9.27
MW-5	10/16/2001	1.8	2.3	<2.0	<2.0
MW-5	3/30/2002	15	19	ND	71
MW-5	6/16/2002	23	30	4.4	56
MW-5	9/20/2004	>2.0	>2.0	2.2	>5.0
MW-5	12/6/2004	2.4	2.2	2.2	8.5
MW-5	3/7/2005	ND	ND	2.2	ND
MW-5	6/18/2005	ND	ND	ND	6.3
MW-5	9/16/2005	<2.0	<2.0	<2.0	5.5
MW-5	11/29/2005	2.9	ND	ND	8.8
MW-5	7/18/2006	21.7	7.6	>1.0	44.7
MW-5	3/29/2010	98.7	1.4	1.3	48.4
MW-5	6/18/2010	58.2	1.0	<1.0	28.5
MW-5	9/10/2010	108	3.9	<1.0	90.1
MW-5	12/4/2010	4.6	<1.0	<1.0	8.2
MW-5	6/14/2011	22.1	1.4	1.0	24.0
MW-5	9/12/2011	12.4	<1.0	<1.0	12.6
MW-5	1/3/2012	36.3	5.5	<1.0	31.6
MW-5	6/13/2012	3.3	<1.0	<1.0	<3.0
MW-5	10/2/2012	18.2	<1.0	3.7	21.2
MW-5	12/6/2012	35.4	<1.0	2.7	30.6
MW-5	2/28/2013	17	2.4	<1.0	14
MW-5	6/24/2013	110	30	4.3	220
MW-5	9/12/2013	32	6.9	1.7	78
MW-5	12/6/2013	49	4.7	<1.0	140
MW-5	3/19/2014	10	<2.0	<2.0	<4.0
MW-5	6/12/2014	170	18	1.8	180

TABLE 3

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**  
**PRITCHARD #2A**  
**SAN JUAN COUNTY, NEW MEXICO**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>NMWQCC Standard (µg/L)</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>620</b>
MW-5	9/11/2014	40	3.4	<1.0	55
MW-5	12/8/2014	73	11	1.0	100
MW-5	3/10/2015	100	2.2	<2.0	110
MW-5	9/24/2015	19	1.4	<1.0	41
MW-5	9/8/2016	20	<1.0	<1.0	17
MW-5	11/5/2019	89	1.9	1.1	59
MW-5	9/11/2020	52	1.9	<1.0	33
MW-5	9/30/2021	43	1.0	<1.0	21
MW-6	9/20/2004	11	40	20	110
MW-6	3/7/2005	110	330	48	460
MW-6	6/18/2005	1,100	2,100	280	2,200
MW-6	9/16/2005	100	140	68	420
MW-6	11/29/2005	49.1	100	62.6	261
MW-6	7/18/2006	795	1,480	285	2,450
MW-6	3/29/2010	777	12.2	187	1,010
MW-6	6/18/2010	2,300	<10.0	510	2,650
MW-6	9/10/2010	829	<10.0	166	804
MW-6	12/4/2010	1,700	6.6	481	1,530
MW-6	3/11/2011	1,650	<5.0	268	926
MW-6	6/14/2011	1,940	<10.0	450	1,340
MW-6	9/12/2011	811	2.0	185	452
MW-6	1/3/2012	1,280	<20.0	357	695
MW-6	4/2/2012	1,210	259	36.2	423
MW-6	6/13/2012	1,360	501	103	981
MW-6	10/2/2012	882	375	40.8	767
MW-6	12/6/2012	768	299	8.4	427
MW-6	2/28/2013	430	590	210	870
MW-6	6/24/2013	280	34	110	280
MW-6	9/12/2013	970	67	460	1,000
MW-6	12/6/2013	540	76	520	1,100
MW-6	9/11/2014	530	27	94	240
MW-6	9/24/2015	NS-FP	NS-FP	NS-FP	NS-FP

TABLE 3

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**  
**PRITCHARD #2A**  
**SAN JUAN COUNTY, NEW MEXICO**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>NMWQCC Standard (µg/L)</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>620</b>
<b>MW-6</b>	11/5/2019	NS-FP	NS-FP	NS-FP	NS-FP
<b>MW-6</b>	9/11/2020	NS-FP	NS-FP	NS-FP	NS-FP
<b>MW-6</b>	9/30/2021	NS-FP	NS-FP	NS-FP	NS-FP
<b>MW-7</b>	11/5/2019	<b>13</b>	32	22	250
<b>MW-7</b>	9/11/2020	<1.0	<1.0	<1.0	6.8
<b>MW-7</b>	9/30/2021	<1.0	<1.0	<1.0	<1.5
<b>MW-8</b>	11/5/2019	<1.0	<1.0	<1.0	<2.0
<b>MW-8</b>	9/11/2020	<1.0	<1.0	<1.0	<1.5
<b>MW-8</b>	9/30/2021	<2.0	<2.0	<2.0	<3.0
<b>MW-9</b>	11/5/2019	2.0	26	16	250
<b>MW-9</b>	9/11/2020	<1.0	<1.0	<1.0	1.6
<b>MW-9</b>	9/30/2021	<1.0	<1.0	<1.0	<1.5

**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 free-phase hydrocarbons in the well

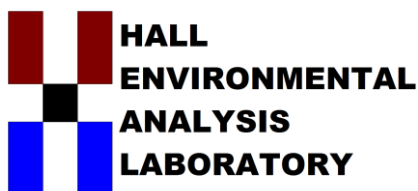
NS-IW - not sampled due to insufficient water volume in the well

&lt; - indicates result is less than laboratory reporting detection limit

\* Please note when comparing to laboratory report MW-1 was mislabeled as MW-7

**Bold** - indicates sample exceeds NMWQCC standard

## ENCLOSURE A – LABORATORY ANALYTICAL RESULTS



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

October 15, 2021

Danny Burns

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Pritchard 2a 2021

OrderNo.: 2110100

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/2/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2110100

Date Reported: 10/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: MW-9

Project: Pritchard 2a 2021

Collection Date: 9/30/2021 1:20:00 PM

Lab ID: 2110100-001

Matrix: GROUNDWA

Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/8/2021 5:56:11 PM	R81984
Toluene	ND	1.0		µg/L	1	10/8/2021 5:56:11 PM	R81984
Ethylbenzene	ND	1.0		µg/L	1	10/8/2021 5:56:11 PM	R81984
Xylenes, Total	ND	1.5		µg/L	1	10/8/2021 5:56:11 PM	R81984
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	10/8/2021 5:56:11 PM	R81984
Surr: Dibromofluoromethane	102	70-130		%Rec	1	10/8/2021 5:56:11 PM	R81984
Surr: Toluene-d8	98.8	70-130		%Rec	1	10/8/2021 5:56:11 PM	R81984

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

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

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## Analytical Report

Lab Order 2110100

Date Reported: 10/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: MW-1

Project: Pritchard 2a 2021

Collection Date: 9/30/2021 1:25:00 PM

Lab ID: 2110100-002

Matrix: GROUNDWA

Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	3.9	1.0		µg/L	1	10/8/2021 7:21:47 PM	R81984
Toluene	1.1	1.0		µg/L	1	10/8/2021 7:21:47 PM	R81984
Ethylbenzene	ND	1.0		µg/L	1	10/8/2021 7:21:47 PM	R81984
Xylenes, Total	71	1.5		µg/L	1	10/8/2021 7:21:47 PM	R81984
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%Rec	1	10/8/2021 7:21:47 PM	R81984
Surr: Dibromofluoromethane	99.7	70-130		%Rec	1	10/8/2021 7:21:47 PM	R81984
Surr: Toluene-d8	102	70-130		%Rec	1	10/8/2021 7:21:47 PM	R81984

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

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

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## Analytical Report

Lab Order 2110100

Date Reported: 10/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: MW-7

Project: Pritchard 2a 2021

Collection Date: 9/30/2021 2:10:00 PM

Lab ID: 2110100-003

Matrix: GROUNDWA

Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	1.0		µg/L	1	10/8/2021 7:50:31 PM	R81984
Toluene	ND	1.0		µg/L	1	10/8/2021 7:50:31 PM	R81984
Ethylbenzene	ND	1.0		µg/L	1	10/8/2021 7:50:31 PM	R81984
Xylenes, Total	ND	1.5		µg/L	1	10/8/2021 7:50:31 PM	R81984
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	10/8/2021 7:50:31 PM	R81984
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	10/8/2021 7:50:31 PM	R81984
Surr: Toluene-d8	98.5	70-130		%Rec	1	10/8/2021 7:50:31 PM	R81984

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

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

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## Analytical Report

Lab Order 2110100

Date Reported: 10/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: MW-2R

Project: Pritchard 2a 2021

Collection Date: 9/30/2021 2:30:00 PM

Lab ID: 2110100-004

Matrix: GROUNDWA

Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	89	5.0		µg/L	5	10/8/2021 8:19:02 PM	R81984
Toluene	80	5.0		µg/L	5	10/8/2021 8:19:02 PM	R81984
Ethylbenzene	6.6	5.0		µg/L	5	10/8/2021 8:19:02 PM	R81984
Xylenes, Total	35	7.5		µg/L	5	10/8/2021 8:19:02 PM	R81984
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%Rec	5	10/8/2021 8:19:02 PM	R81984
Surr: Dibromofluoromethane	101	70-130		%Rec	5	10/8/2021 8:19:02 PM	R81984
Surr: Toluene-d8	100	70-130		%Rec	5	10/8/2021 8:19:02 PM	R81984

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

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

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## Analytical Report

Lab Order 2110100

Date Reported: 10/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: MW-8

Project: Pritchard 2a 2021

Collection Date: 9/30/2021 4:00:00 PM

Lab ID: 2110100-005

Matrix: GROUNDWA

Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	ND	2.0		µg/L	2	10/8/2021 8:47:43 PM	R81984
Toluene	ND	2.0		µg/L	2	10/8/2021 8:47:43 PM	R81984
Ethylbenzene	ND	2.0		µg/L	2	10/8/2021 8:47:43 PM	R81984
Xylenes, Total	ND	3.0		µg/L	2	10/8/2021 8:47:43 PM	R81984
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	2	10/8/2021 8:47:43 PM	R81984
Surr: Dibromofluoromethane	103	70-130		%Rec	2	10/8/2021 8:47:43 PM	R81984
Surr: Toluene-d8	96.2	70-130		%Rec	2	10/8/2021 8:47:43 PM	R81984

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

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

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## Analytical Report

Lab Order 2110100

Date Reported: 10/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: MW-5

Project: Pritchard 2a 2021

Collection Date: 9/30/2021 4:30:00 PM

Lab ID: 2110100-006

Matrix: GROUNDWA

Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: RAA
Benzene	43	1.0		µg/L	1	10/8/2021 9:16:28 PM	R81984
Toluene	1.0	1.0		µg/L	1	10/8/2021 9:16:28 PM	R81984
Ethylbenzene	ND	1.0		µg/L	1	10/8/2021 9:16:28 PM	R81984
Xylenes, Total	21	1.5		µg/L	1	10/8/2021 9:16:28 PM	R81984
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%Rec	1	10/8/2021 9:16:28 PM	R81984
Surr: Dibromofluoromethane	95.2	70-130		%Rec	1	10/8/2021 9:16:28 PM	R81984
Surr: Toluene-d8	93.6	70-130		%Rec	1	10/8/2021 9:16:28 PM	R81984

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

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

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2110100

15-Oct-21

**Client:** Harvest**Project:** Pritchard 2a 2021

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R81984</b>		RunNo: <b>81984</b>							
Prep Date:	Analysis Date: <b>10/8/2021</b>		SeqNo: <b>2902662</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.6	70	130			
Toluene	19	1.0	20.00	0	92.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.6	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	9.3		10.00		92.9	70	130			
Surr: Toluene-d8	9.4		10.00		94.1	70	130			

Sample ID: <b>2110100-001a ms</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>							
Client ID: <b>MW-9</b>	Batch ID: <b>R81984</b>		RunNo: <b>81984</b>							
Prep Date:	Analysis Date: <b>10/8/2021</b>		SeqNo: <b>2902674</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	21	1.0	20.00	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: <b>2110100-001a msd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>							
Client ID: <b>MW-9</b>	Batch ID: <b>R81984</b>		RunNo: <b>81984</b>							
Prep Date:	Analysis Date: <b>10/8/2021</b>		SeqNo: <b>2902675</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.7	70	130	4.31	20	
Toluene	19	1.0	20.00	0	94.1	70	130	8.65	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130	0	0	
Surr: Dibromofluoromethane	9.7		10.00		96.7	70	130	0	0	
Surr: Toluene-d8	10		10.00		101	70	130	0	0	

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>							
Client ID: <b>PBW</b>	Batch ID: <b>R81984</b>		RunNo: <b>81984</b>							
Prep Date:	Analysis Date: <b>10/8/2021</b>		SeqNo: <b>2903892</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								

**Qualifiers:**

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110100

15-Oct-21

Client: Harvest

Project: Pritchard 2a 2021

Sample ID: <b>mb</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260: Volatiles Short List</b>						
Client ID: <b>PBW</b>		Batch ID: <b>R81984</b>		RunNo: <b>81984</b>						
Prep Date:		Analysis Date: <b>10/8/2021</b>		SeqNo: <b>2903892</b>			Units: <b>µg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		105	70	130			
Surr: Dibromofluoromethane	10		10.00		99.7	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

## Sample Log-In Check List

Client Name: Harvest

Work Order Number: 2110100

RcptNo: 1

Received By: Sean Livingston

10/2/2021 9:15:00 AM

*Sean Livingston*  
*I-OK*

Completed By: Isaiah Ortiz

10/4/2021 9:50:18 AM

Reviewed By:

*WRC* *10/04/21*

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

(&lt;2 or &gt;12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

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: \_\_\_\_\_

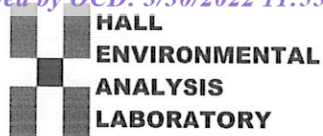
Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Not Present			
2	2.2	Good	Not Present			
3	2.9	Good	Not Present			
4	0.4	Good	Not Present			
5	1.7	Good	Not Present			





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

## Sample Log-In Check List

Client Name: Harvest

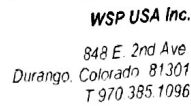
Work Order Number: 2110100

RcptNo: 1

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
5	1.7	Good	Not Present			



## ENCLOSURE B – GROUNDWATER SAMPLE COLLECTION FORMS



Pritchard #2A

Project Location: Sullivan GCD #1E  
 Sampler: GP

Matrix: Groundwater  
Sample Time: 1325  
Shipping Method: Hand Delivery

Total Depth of Well: 89.5  
Depth to Product: —

Method of Purging: Bailer  
Method of Sampling: Bailer

Comments: Sampled after 1.0 gallons as bailer was coming back near empty.

Signature: Gregory Palase Date: 09/30/21



1157

848 E. 2nd Ave.  
Durango, Colorado 81301  
T 970.385.1096

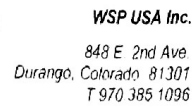
Prichard

Total Depth of Well: 88.49  
Depth to Product:       

Method of Purging: Bailer  
Method of Sampling: Bailer

14:18

Date: 09/30/21



Project Name: Quarterly Groundwater Monitoring  
Project Number: TE0178121005  
Sample ID: MW-3  
Sample Date: \_\_\_\_\_  
Laboratory: Hall Environmental  
Analyses: BTEX 8021  
Depth to Water: 81.46  
Time: 15:50

Project Location: Pritchard.  
~~Sullivan GC D #1E~~  
Sampler: GP

Matrix: Groundwater  
Sample Time: \_\_\_\_\_  
Shipping Method: Hand Delivery

Total Depth of Well: 83.72  
Depth to Product: 1

Time: 1:30

Vol. of Water to Purge:  $(83.22 - 81.46) \cdot 0.1631 \cdot 3 = 0.85$   
(height of water column \* 0.1631 for 2" well or 0.6524 for 4" well) \* 3 well vols

Method of Purging: \_\_\_\_\_

Method of Sampling: \_\_\_\_\_

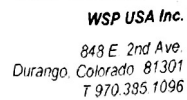
[illegible]

Comments: Did not sample insufficient water.

**Describe Deviations from SOP:**

Signature: Gregory Palese

Date: 09/30/21



Date: 09/30/21





848 E 2nd Ave.  
Durango, Colorado 81301  
T 970.385.1096

Pritchard #20

Total Depth of Well: 82.31  
Depth to Product: 77.46

Method of Purging: \_\_\_\_\_  
Method of Sampling: \_\_\_\_\_

Time	Vol. Removed	Total Vol. Removed (gallons)	pH (std. units)	Temp. (F)	Conductivity (us or ms)	Comments
<div>BM</div> <div>9-30-71</div>						

**Comments:** \_\_\_\_\_

Describe Deviations from SOP: No sample taken  
due to presence of product.

Signature: [Signature] Date: 9-30-21





848 E. 2nd Ave.  
Durango, Colorado 81301  
T 970 385 1096

## Date:



848 E. 2nd Ave  
Durango, Colorado 81301  
T 970.385.1036

Pritchard #2a

Sampler: Boyd Hathorn

Matrix: Groundwater  
Sample Time: 16:00  
Shipping Method: Hand Delivery

Total Depth of Well: 94.11  
Depth to Product: —

Method of Purging: \_\_\_\_\_  
Method of Sampling: \_\_\_\_\_

[illegible]

Comments: Turbid light brown - no smell no shear

**Describe Deviations from SOP:**

Signature: 

Date: 9-30-21



848 E. 2nd Ave.  
Durango, Colorado 81301  
T 970.385.1096

Pritchard # 2a

Project Location: Sullivan GC D #1E  
 Sampler: \_\_\_\_\_

Matrix: Groundwater  
Sample Time: 13:20  
Shipping Method: Hand Delivery

Total Depth of Well: 89.34  
Depth to Product:           

Method of Purging: Boiler  
Method of Sampling: Boiler

[illegible]

Comments: Turbid and light brown after 0.25 gallons  
no odor no sheen

Describe Deviations from SOP: In well dry after 2 gulping

Signature: B. J. Cook Date: 9-30-21

**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 94286

**CONDITIONS**

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID:
	373888
	Action Number:
	94286
Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

**CONDITIONS**

Created By	Condition	Condition Date
nvelez	Review of 2021 Annual Groundwater Report: Content satisfactory 1. Continue with future work as stated within 2021 Annual Groundwater Report. 2. Groundwater samples will be collected annually and analyzed for BTEX from monitoring wells if there is sufficient water and/or no PSH present. 3. Continue to use product recovery socks and manual bailing of PSH when it is observed. 4. If consistent and measurable PSH return, Harvest will re-install the solar sipper(s). 5. Once the PSH plume has been remediated, assess options to address dissolve phase groundwater impacts. 6. Submit next annual report no later than March 31, 2023.	11/28/2022