REVIEWED
By Mike Buchanan at 2:53 pm, May 10, 2024

Review of the 2021 Annual Groundwater Report: Content Satisfactory
1. Continue to remove PSH in MW-3 with skimmer pump to reduce LNAPL plume
2. Continue to conduct quarterly groundwater sampling events
3. Conduct O&M as prescribed in report.
4. Submit the 2022 & 2023 Annual Report (if they haven't already been submitted).
5. Submit the 2024 Annual Groundwater Monitoring Report for the site by April 1, 2025.

March 31, 2022

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

**Subject:** **2021 Annual Groundwater Report**
**Florance 47X**
**RP Number 3RP-317-0**
**Incident Number nAUTOfAB000185**
**San Juan County, New Mexico**

Dear Mr. Hayes,

WSP USA Inc. (WSP), on behalf of Harvest Four Corners, LLC (Harvest) has prepared this report detailing annual groundwater monitoring activities completed between January 2021 and December 2021 at the Florance #47X (Site), Remediation Permit (RP) Number 3RP-317-0 and Incident Number nAUTOfAB000185. 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 36.843195 and longitude -107.800839 in Unit G, Section 5, Township 30 North, Range 9 West (Figure 1). The Site is located in Crow Canyon, a tributary to Pump Canyon, in the San Juan Basin in San Juan County, New Mexico.

## SITE HISTORY

Groundwater at the Site is impacted by petroleum hydrocarbons due to a release from a former earthen dehydrator pit. In June 1996, source material was excavated to approximately 19 feet below ground surface (bgs). A subsequent borehole drilled in the excavation to approximately 115 feet bgs identified groundwater at approximately 97 feet bgs. Laboratory analytical results of groundwater collected from the borehole identified concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX) exceeding New Mexico Water Quality Control Commission (NMWQCC) standards. As a result, five groundwater monitoring wells (MW-1 through MW-5) were installed.

Since installation of the five monitoring wells, groundwater elevations and groundwater quality have been monitored at the Site, with monitoring wells MW-2, MW-3, and MW-5 containing PSH during at least one sampling event. Historical records documenting monitoring activities and results can be found in previous annual reports submitted to the New Mexico Oil Conservation Division (NMOCD).

In October 2019, WSP conducted drilling activities which included the installation of two new monitoring wells, MW-6 and MW-7, located downgradient of monitoring wells MW-3 and MW-5, for use as point of compliance (POC) monitoring wells. On December 17, 2019, United Field Services in Farmington, New Mexico was contracted to survey top-of-casing elevations to accurately determine groundwater elevations above mean sea level (amsl).

WSP USA
848 EAST 2ND AVENUE
DURANGO CO 81301

Tel.: 970-385-1096
wsp.com

# METHODOLOGY

Groundwater monitoring activities were conducted at the Site from January through December 2021. WSP conducted quarterly site visits to monitor groundwater elevations in all monitoring wells and collected groundwater samples from monitoring wells MW-2, MW-5, MW-6, and MW-7 in May 2021.

## 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.

## GROUNDWATER SAMPLING

On May 24, 2021, monitoring wells MW-2, MW-5, MW-6, and MW-7 were purged using disposable polyvinyl chloride (PVC) 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 Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021. 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.

Monitoring wells MW-1 and MW-4 were not sampled in 2021. Monitoring well MW-3 was also not sampled due to the presence of PSH. The following 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 November 2019, WSP installed a solar powered pneumatic pumping PSH recovery system in monitoring MW-3. 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 operations and maintenance (O&M). Between May 24, 2021, and October 27, 2021, the liquid recovery intake switch alarm and compressor solenoids required troubleshooting and service. Replacement parts were installed, but delivery delays due supply chain issues resulted in a longer than anticipated system downtime. The system was running efficiently after the cable was replaced.

WSP USA
848 EAST 2ND AVENUE
DURANGO CO 81301

Tel.: 970-385-1096
wsp.com



Released to Imaging: 5/10/2024 3:00:36 PM

## RESULTS

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

Depth to groundwater was collected on March 31, 2021, May 24, 2021, August 23, 2021, and November 23, 2021. Depth to groundwater data collected on May 23, 2021, during the annual groundwater sampling event, indicated groundwater was present at elevations between 6,146.15 feet (MW-7) and 6,150.74 feet (MW-1) amsl. Based on data collected during the four quarterly events, the interpreted groundwater-flow direction is to the southeast (contours shown on Figures 2 through 5). Contours were inferred based on groundwater elevations and physical characteristics at the Site (topography, proximity to irrigation ditches, etc.). PSH levels in MW-3 ranged in thickness from 0.52 feet in March 2021 to 2.03 feet in August 2021. PSH thickness and approximate plume extent are depicted on Figures 2 through 5.

The on-site wells, except for MW-1, MW-3, and MW-4, were sampled on May 24, 2021. BTEX constituents in groundwater were detected in monitoring wells MW-2 and MW-5. Groundwater from wells MW-2 and MW-5 contained benzene concentrations of 28 µg/L and 58 µg/L, respectively, which exceed the NMWQCC standard. Monitoring wells MW-6 and MW-7 did not contain detectable concentrations of BTEX compounds in groundwater and were all compliant with the NMWQCC standards. BTEX results and approximate plume extent are presented on Figure 4 and summarized in Table 2.

Approximately 34.3 gallons of PSH have been recovered from monitoring well MW-3 through pneumatic pumping since PSH recovery installation on November 18, 2019, through December 17, 2021. A total of 12.0 gallons of PSH were recovered in 2021. At the time of the installation of the PSH recovery system in November 2019, the PSH thickness was 1.93 feet; in 2021, PSH ranged in thickness from 0.52 feet in March 2021 to 2.03 feet in August 2021. Operation data and system maintenance data are summarized in Table 3.

## CONCLUSION

Impacted groundwater at the Site has been successfully delineated with downgradient monitoring wells MW-6 and MW-7 in compliance with NMWQCC standards for BTEX in groundwater and the absence of PSH in each well. Additionally, groundwater data collected during this year, as well as historical groundwater data, indicate contaminant concentrations have declined over time. Despite the decline in contaminant concentrations in most wells, PSH remains in well MW-3.

To address residual PSH at the Site, WSP installed a mechanical PSH pumping system in monitoring well MW-3 in November 2019. Approximately 34.3 gallons of PSH have been recovered from monitoring well MW-3 through pneumatic pumping since PSH recovery installation on November 18, 2019.

With the installation of the PSH recovery system, WSP recommends monthly site visits for O&M purposes. Additional O&M visits may be necessary depending on product recovery rates and system maintenance requirements. In addition, WSP recommends groundwater monitoring through quarterly well gauging (depth-to-groundwater and depth-to-PSH measurements) and annual groundwater sampling for laboratory analysis of BTEX compounds.

Kind regards,

Eric Carroll
Associate Geologist
WSP USA
848 EAST 2ND AVENUE
DURANGO CO 81301

Tel.: 970-385-1096
wsp.com

Brooke Herb
Sr. Consultant, Geologist

Encl.

Figure 1: Site Location Map
Figure 2: Groundwater Elevations and Analytical Results (March 2021)
Figure 3: Groundwater Elevations and Analytical Results (June 2021)
Figure 4: Groundwater Elevations and Analytical Results (September 2021)
Figure 5: Groundwater Elevations and Analytical Results (December 2021)

Table 1: Groundwater Elevation Summary
Table 2: Groundwater Laboratory Analytical Results
Table 3: Pneumatic Product Recovery System Data

Enclosure A: Groundwater Collection Forms
Enclosure B: Laboratory Analytical Results

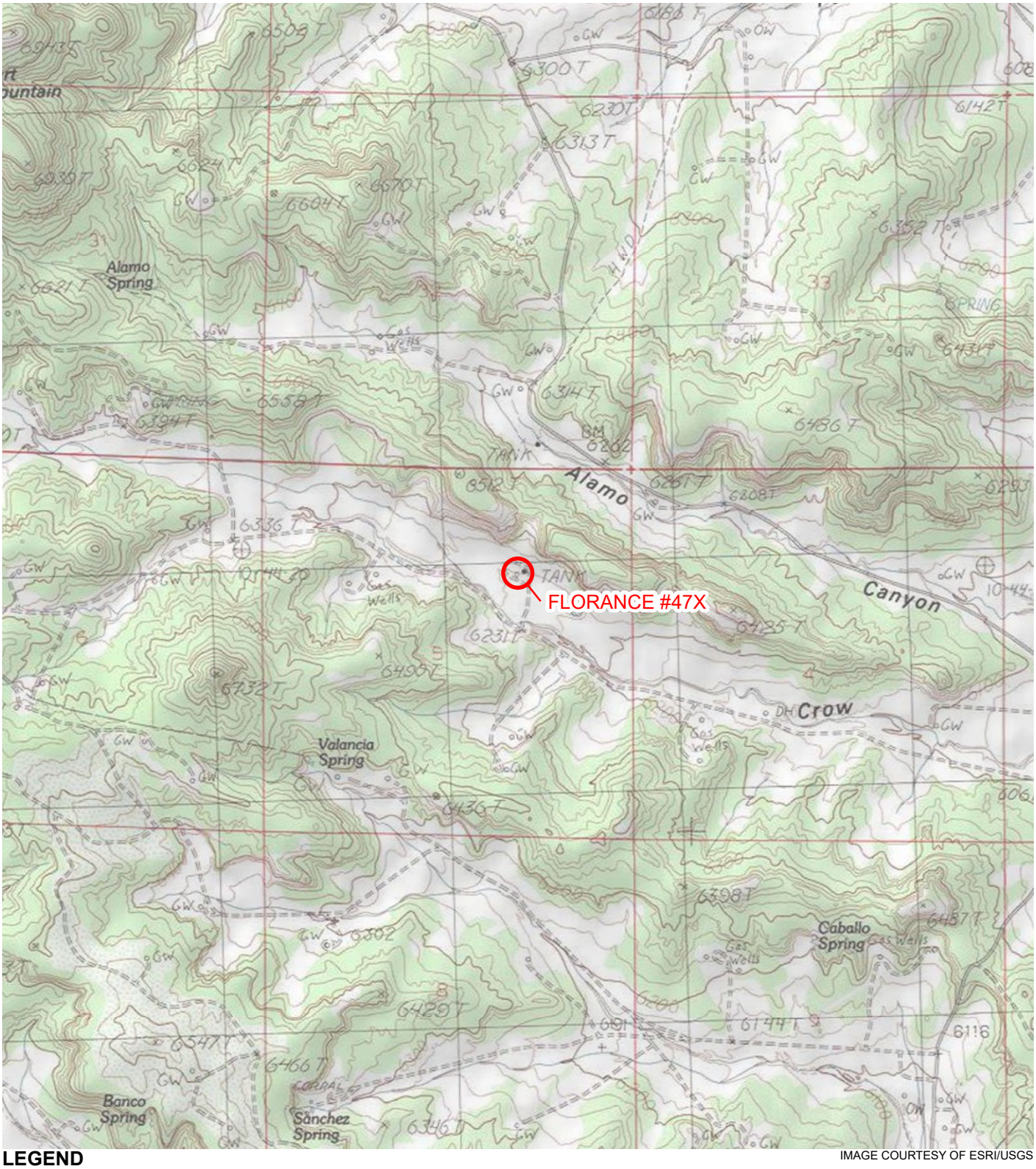
WSP USA
848 EAST 2ND AVENUE
DURANGO CO 81301

Tel.: 970-385-1096
wsp.com



Released to Imaging: 5/10/2024 3:00:36 PM

# FIGURES




**LEGEND**

SITE LOCATION

IMAGE COURTESY OF ESRI/USGS

0 2,000 4,000

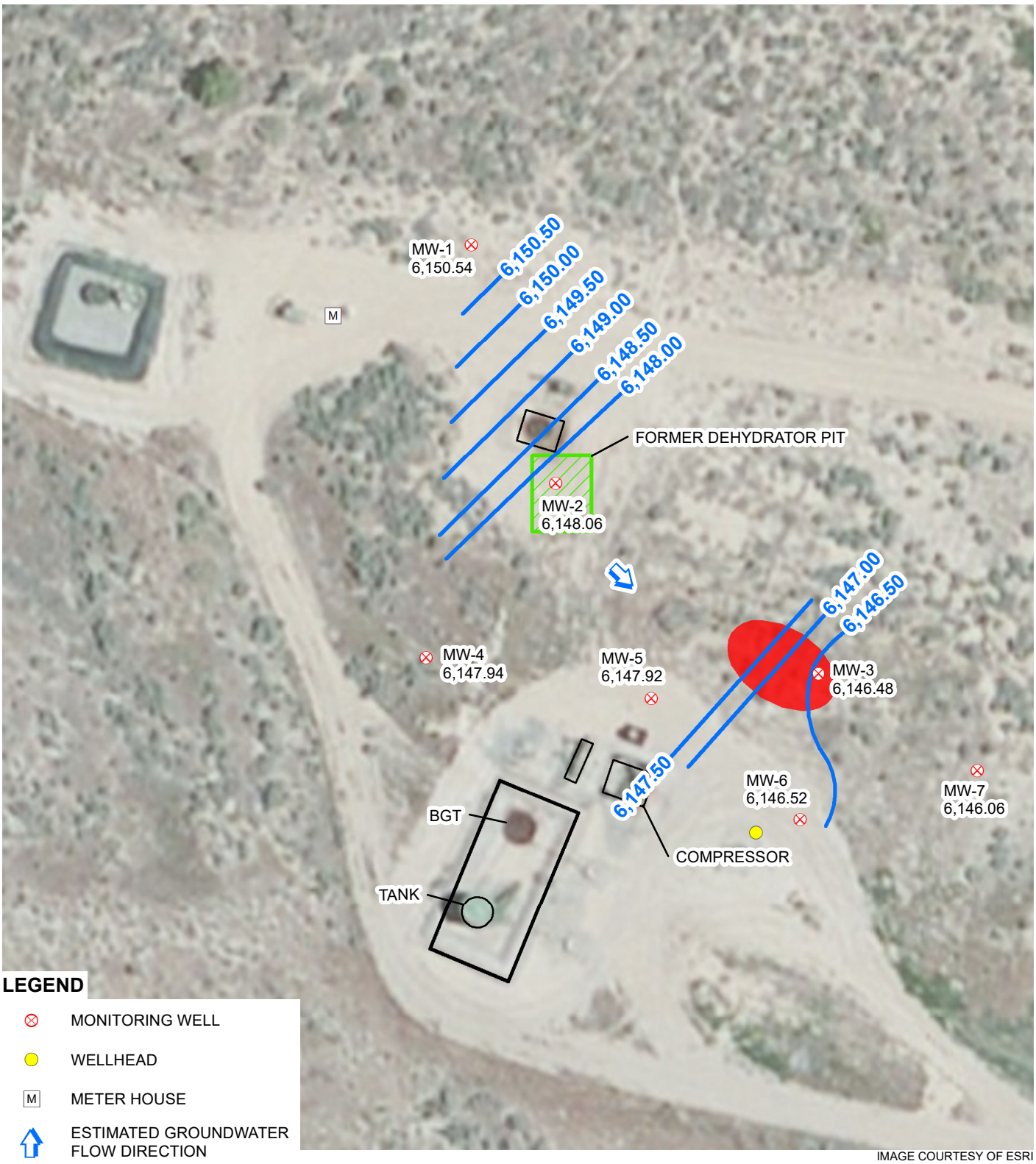
Feet

N

NEW MEXICO

FIGURE 1
SITE LOCATION MAP
FLORANCE #47X
SWNE SEC 5 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
**HARVEST FOUR CORNERS, LLC.**

P:\Harvest Four Corners\GIS\MXD\090319017_FLORANCE 47X\090319017_FIG01_SL.mxd




**LEGEND**

- MONITORING WELL
- WELLHEAD
- METER HOUSE
- ESTIMATED GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR
- CONTOUR INTERVAL = 0.50 FEET
- PLUME OF FREE PRODUCT
- BERM

BGT: BELOW GRADE TANK

GROUNDWATER ELEVATION MEASUREMENTS IN FEET ABOVE MEAN SEA LEVEL ON MARCH 31, 2021.
PT: PRODUCT THICKNESS IN FEET

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP
(MARCH 2021)
FLORANCE #47X
SWNE SEC 5 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
**HARVEST FOUR CORNERS, LLC.**

P:\Harvest Four Corners\GIS\TE090321003_FLORANCE 47X\MXD\090319017_FIG03_GWE_MARCH_2021.mxd

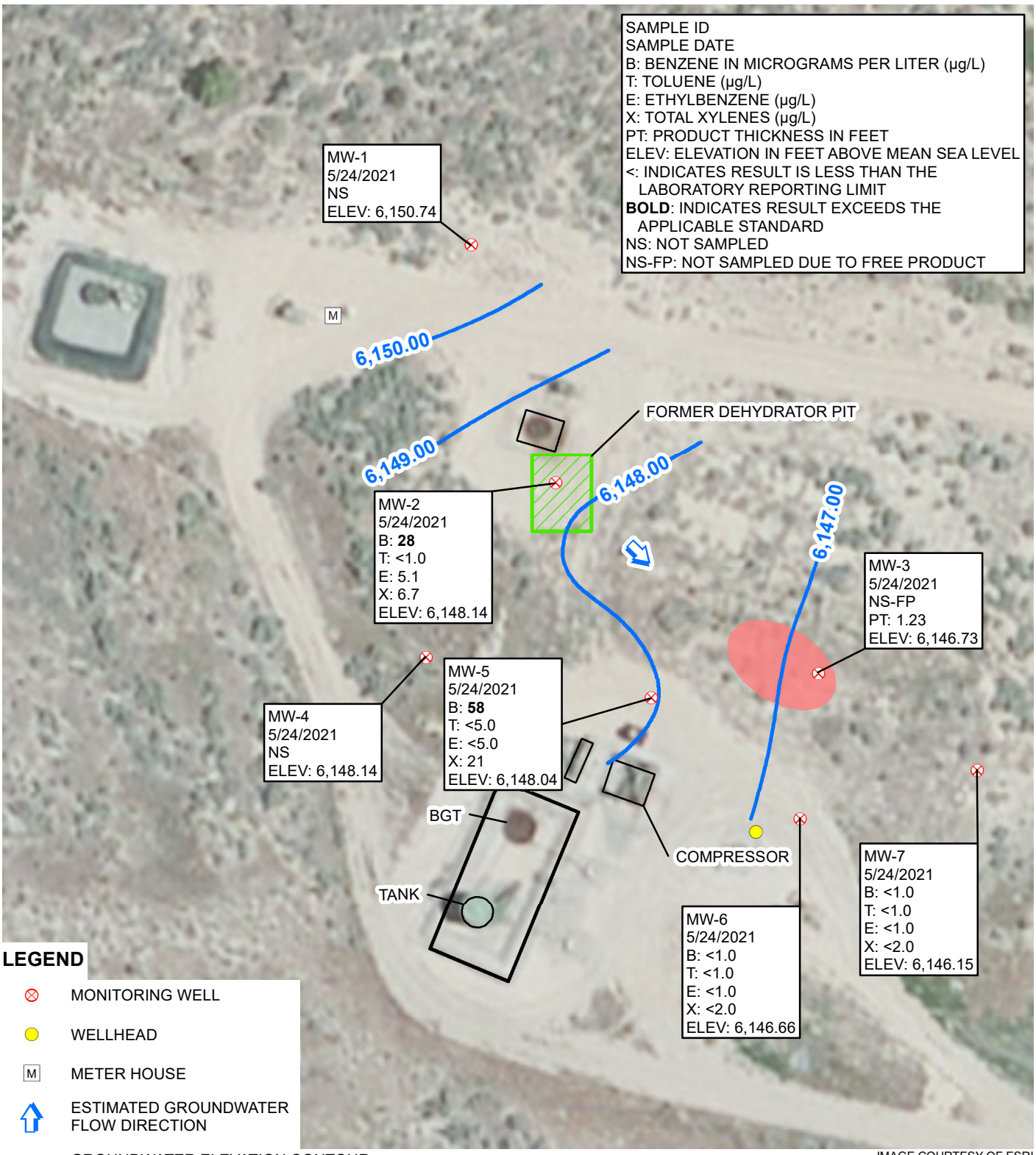



FIGURE 3
GROUNDWATER ELEVATION AND ANALYTICAL RESULTS
(MAY 2021)
FLORANCE #47X
SWNE SEC 5 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
**HARVEST FOUR CORNERS, LLC.**

P:\Harvest Four Corners\GIS\TE090321003_FLORANCE 47X\MXD\TE090321003_FIG03_GWE_GWA_MAY_2021.mxd


FIGURE 4
GROUNDWATER ELEVATION CONTOUR MAP
(AUGUST 2021)
FLORANCE #47X
SWNE SEC 5 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
**HARVEST FOUR CORNERS, LLC.**

P:\Harvest Four Corners\GIS\TE090321003_FLORANCE 47X\MXD\TE090321003_FIG04_GWE_AUG_2021.mxd


**LEGEND**

- MONITORING WELL
- WELLHEAD
- METER HOUSE
- ESTIMATED GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR
- CONTOUR INTERVAL = 1.00 FEET
- APPROXIMATE PLUME OF FREE PRODUCT
- BERM

BGT: BELOW GRADE TANK

GROUNDWATER ELEVATION MEASUREMENTS
IN FEET ABOVE MEAN SEA LEVEL ON NOVEMBER 23, 2021.
PT: PRODUCT THICKNESS IN FEET

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 5
GROUNDWATER ELEVATION CONTOUR MAP
(NOVEMBER 2021)
FLORANCE #47X
SWNE SEC 5 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
**HARVEST FOUR CORNERS, LLC.**

P:\Harvest Four Corners\GIS\TE090321003_FLORANCE 47X\MXD\TE090321003_FIG03_GWE_NOV_2021.mxd

# TABLES

**TABLE 1**

**GROUNDWATER ELEVATIONS SUMMARY**
**FLORANCE #47X**
**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** | 4/2/2012 | 6,229.61 | UNK | UNK | UNK | UNK |
| **MW-1** | 6/13/2012 | 6,229.61 | UNK | UNK | UNK | UNK |
| **MW-1** | 10/2/2012 | 6,229.61 | UNK | UNK | UNK | UNK |
| **MW-1** | 12/6/2012 | 6,229.61 | UNK | UNK | UNK | UNK |
| **MW-1** | 3/1/2013 | 6,229.61 | 99.52 | NP | NP | 6,130.09 |
| **MW-1*** | 6/24/2013 | 6,250.21 | 99.41 | NP | NP | 6,150.80 |
| **MW-1** | 9/12/2013 | 6,250.21 | 98.90 | NP | NP | 6,151.31 |
| **MW-1** | 12/4/2013 | 6,250.21 | 98.79 | NP | NP | 6,151.42 |
| **MW-1** | 3/19/2014 | 6,250.21 | 99.08 | NP | NP | 6,151.13 |
| **MW-1** | 6/13/2014 | 6,250.21 | 99.02 | NP | NP | 6,151.19 |
| **MW-1** | 9/11/2014 | 6,250.21 | 99.01 | NP | NP | 6,151.20 |
| **MW-1** | 12/4/2014 | 6,250.21 | 99.18 | NP | NP | 6,151.03 |
| **MW-1** | 3/17/2015 | 6,250.21 | 99.14 | NP | NP | 6,151.07 |
| **MW-1** | 4/28/2016 | 6,250.21 | 99.17 | NP | NP | 6,151.04 |
| **MW-1** | 8/11/2016 | 6,250.21 | 99.28 | NP | NP | 6,150.93 |
| **MW-1** | 10/17/2016 | 6,250.21 | 99.20 | NP | NP | 6,151.01 |
| **MW-1** | 1/31/2017 | 6,250.21 | 99.24 | NP | NP | 6,150.97 |
| **MW-1** | 4/28/2017 | 6,250.21 | 99.24 | NP | NP | 6,150.97 |
| **MW-1** | 7/28/2017 | 6,250.21 | 99.31 | NP | NP | 6,150.90 |
| **MW-1**** | 10/7/2019 | 6,250.35 | 99.54 | NP | NP | 6,150.81 |
| **MW-1** | 3/19/2020 | 6,250.35 | 99.52 | NP | NP | 6,150.83 |
| **MW-1** | 6/23/2020 | 6,250.35 | 99.57 | NP | NP | 6,150.78 |
| **MW-1** | 9/8/2020 | 6,250.35 | 99.31 | NP | NP | 6,151.04 |
| **MW-1** | 12/4/2020 | 6,250.35 | 99.59 | NP | NP | 6,150.76 |
| **MW-1** | 3/31/2021 | 6,250.35 | 99.81 | NP | NP | 6,150.54 |
| **MW-1** | 5/24/2021 | 6,250.35 | 99.61 | NP | NP | 6,150.74 |
| **MW-1** | 8/23/2021 | 6,250.35 | 100.09 | NP | NP | 6,150.26 |
| **MW-1** | 11/23/2021 | 6,250.35 | 100.02 | NP | NP | 6,150.33 |
| | | | | | | |
| **MW-2** | 4/2/2012 | 6,226.30 | UNK | UNK | UNK | UNK |
| **MW-2** | 6/13/2012 | 6,226.30 | UNK | UNK | UNK | UNK |
| **MW-2** | 10/2/2012 | 6,226.30 | UNK | UNK | UNK | UNK |
| **MW-2** | 12/6/2012 | 6,226.30 | UNK | UNK | UNK | UNK |
| **MW-2** | 3/1/2013 | 6,226.30 | 98.47 | NP | NP | 6,127.83 |
| **MW-2*** | 6/24/2013 | 6,247.15 | 98.45 | NP | NP | 6,148.70 |
| **MW-2** | 9/12/2013 | 6,247.15 | 98.60 | NP | NP | 6,148.55 |
| **MW-2** | 12/4/2013 | 6,247.15 | 98.41 | NP | NP | 6,148.74 |

**TABLE 1**

**GROUNDWATER ELEVATIONS SUMMARY**
**FLORANCE #47X**
**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** | 3/19/2014 | 6,247.15 | 98.54 | NP | NP | 6,148.61 |
| **MW-2** | 6/13/2014 | 6,247.15 | 98.53 | NP | NP | 6,148.62 |
| **MW-2** | 9/11/2014 | 6,247.15 | 98.60 | NP | NP | 6,148.55 |
| **MW-2** | 12/4/2014 | 6,247.15 | 98.56 | NP | NP | 6,148.59 |
| **MW-2** | 3/17/2015 | 6,247.15 | 98.63 | NP | NP | 6,148.52 |
| **MW-2** | 4/28/2016 | 6,247.15 | 98.73 | NP | NP | 6,148.42 |
| **MW-2** | 8/11/2016 | 6,247.15 | 98.76 | NP | NP | 6,148.39 |
| **MW-2** | 10/17/2016 | 6,247.15 | 98.73 | NP | NP | 6,148.42 |
| **MW-2** | 1/31/2017 | 6,247.15 | 98.77 | NP | NP | 6,148.38 |
| **MW-2** | 4/28/2017 | 6,247.15 | 98.76 | NP | NP | 6,148.39 |
| **MW-2** | 7/28/2017 | 6,247.15 | 98.82 | NP | NP | 6,148.33 |
| **MW-2**** | 10/7/2019 | 6,247.28 | 99.03 | NP | NP | 6,148.25 |
| **MW-2** | 3/19/2020 | 6,247.28 | 99.03 | NP | NP | 6,148.25 |
| **MW-2** | 6/23/2020 | 6,247.28 | 99.07 | NP | NP | 6,148.21 |
| **MW-2** | 9/8/2020 | 6,247.28 | 98.96 | NP | NP | 6,148.32 |
| **MW-2** | 12/4/2020 | 6,247.28 | 99.10 | NP | NP | 6,148.18 |
| **MW-2** | 3/31/2021 | 6,247.28 | 99.22 | NP | NP | 6,148.06 |
| **MW-2** | 5/24/2021 | 6,247.28 | 99.14 | NP | NP | 6,148.14 |
| **MW-2** | 8/23/2021 | 6,247.28 | 99.11 | NP | NP | 6,148.17 |
| **MW-2** | 11/23/2021 | 6,247.28 | 99.15 | NP | NP | 6,148.13 |
| | | | | | | |
| **MW-3** | 4/2/2012 | 6,217.53 | UNK | UNK | UNK | UNK |
| **MW-3** | 6/13/2012 | 6,217.53 | UNK | UNK | UNK | UNK |
| **MW-3** | 10/2/2012 | 6,217.53 | UNK | UNK | UNK | UNK |
| **MW-3** | 12/6/2012 | 6,217.53 | UNK | UNK | UNK | UNK |
| **MW-3** | 3/1/2013 | 6,217.53 | 92.48 | 91.51 | 0.97 | 6,125.83 |
| **MW-3*** | 6/24/2013 | 6,238.51 | 91.71 | 90.86 | 0.85 | 6,147.48 |
| **MW-3** | 9/12/2013 | 6,238.51 | 91.69 | 90.89 | 0.80 | 6,147.46 |
| **MW-3** | 12/4/2013 | 6,238.51 | 91.23 | 90.83 | 0.40 | 6,147.60 |
| **MW-3** | 3/19/2014 | 6,238.51 | 91.59 | 91.03 | 0.56 | 6,147.37 |
| **MW-3** | 6/13/2014 | 6,238.51 | 91.38 | 91.08 | 0.30 | 6,147.37 |
| **MW-3** | 9/11/2014 | 6,238.51 | 91.47 | 91.20 | 0.27 | 6,147.26 |
| **MW-3** | 12/4/2014 | 6,238.51 | 91.15 | 91.15† | <0.01 | 6,147.36 |
| **MW-3** | 3/17/2015 | 6,238.51 | 91.53 | 91.22 | 0.31 | 6,147.23 |
| **MW-3** | 4/28/2016 | 6,238.51 | 92.00 | 91.20 | 0.80 | 6,147.15 |
| **MW-3** | 8/11/2016 | 6,238.51 | 92.54 | 91.18 | 1.36 | 6,147.06 |

**TABLE 1**

**GROUNDWATER ELEVATIONS SUMMARY**
**FLORANCE #47X**
**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-3** | 10/17/2016 | 6,238.51 | 92.54 | 91.56 | 0.98 | 6,146.75 |
| **MW-3** | 1/31/2017 | 6,238.51 | 92.59 | 91.09 | 1.50 | 6,147.12 |
| **MW-3** | 4/28/2017 | 6,238.51 | 92.10 | 91.21 | 0.89 | 6,147.12 |
| **MW-3** | 7/28/2017 | 6,238.51 | 92.28 | 91.26 | 1.02 | 6,147.05 |
| **MW-3**** | 10/7/2019 | 6,238.66 | 93.46 | 91.31 | 2.15 | 6,146.92 |
| **MW-3** | 3/19/2020 | 6,238.66 | 92.85 | 91.62 | 1.23 | 6,146.79 |
| **MW-3** | 6/23/2020 | 6,238.66 | 92.41 | 91.83 | 0.58 | 6,146.71 |
| **MW-3** | 9/8/2020 | 6,238.66 | 91.71 | 91.66 | 0.05 | 6,146.99 |
| **MW-3** | 12/4/2020 | 6,238.66 | 92.90 | 91.72 | 1.18 | 6,146.70 |
| **MW-3** | 3/31/2021 | 6,238.66 | 92.60 | 92.08 | 0.52 | 6,146.48 |
| **MW-3** | 5/24/2021 | 6,238.66 | 92.91 | 91.68 | 1.23 | 6,146.73 |
| **MW-3** | 8/23/2021 | 6,238.66 | 93.62 | 91.59 | 2.03 | 6,146.66 |
| **MW-3** | 11/23/2021 | 6,238.66 | 92.94 | 91.81 | 1.13 | 6,146.62 |
| | | | | | | |
| **MW-4** | 4/2/2012 | 6,219.93 | UNK | UNK | UNK | UNK |
| **MW-4** | 6/13/2012 | 6,219.93 | UNK | UNK | UNK | UNK |
| **MW-4** | 10/2/2012 | 6,219.93 | UNK | UNK | UNK | UNK |
| **MW-4** | 12/6/2012 | 6,219.93 | UNK | UNK | UNK | UNK |
| **MW-4** | 3/1/2013 | 6,219.93 | 92.02 | NP | NP | 6,127.91 |
| **MW-4*** | 6/24/2013 | 6,240.67 | 91.98 | NP | NP | 6,148.69 |
| **MW-4** | 9/12/2013 | 6,240.67 | 92.00 | NP | NP | 6,148.67 |
| **MW-4** | 12/4/2013 | 6,240.67 | 91.96 | NP | NP | 6,148.71 |
| **MW-4** | 3/19/2014 | 6,240.67 | 92.09 | NP | NP | 6,148.58 |
| **MW-4** | 6/13/2014 | 6,240.67 | 92.06 | NP | NP | 6,148.61 |
| **MW-4** | 9/11/2014 | 6,240.67 | 92.13 | NP | NP | 6,148.54 |
| **MW-4** | 12/4/2014 | 6,240.67 | 92.10 | NP | NP | 6,148.57 |
| **MW-4** | 3/17/2015 | 6,240.67 | 92.17 | NP | NP | 6,148.50 |
| **MW-4** | 4/28/2016 | 6,240.67 | 92.25 | NP | NP | 6,148.42 |
| **MW-4** | 8/11/2016 | 6,240.67 | 92.32 | NP | NP | 6,148.35 |
| **MW-4** | 10/17/2016 | 6,240.67 | 92.29 | NP | NP | 6,148.38 |
| **MW-4** | 1/31/2017 | 6,240.67 | 92.31 | NP | NP | 6,148.36 |
| **MW-4** | 4/28/2017 | 6,240.67 | 92.31 | NP | NP | 6,148.36 |
| **MW-4** | 7/28/2017 | 6,240.67 | 92.36 | NP | NP | 6,148.31 |
| **MW-4**** | 10/7/2019 | 6,240.80 | 92.60 | NP | NP | 6148.20 |
| **MW-4** | 3/19/2020 | 6,240.80 | 92.58 | NP | NP | 6148.22 |
| **MW-4** | 6/23/2020 | 6,240.80 | 92.63 | NP | NP | 6148.17 |

**TABLE 1**

**GROUNDWATER ELEVATIONS SUMMARY**
**FLORANCE #47X**
**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** | 9/8/2020 | 6,240.80 | 92.53 | NP | NP | 6148.27 |
| **MW-4** | 12/4/2020 | 6,240.80 | 92.65 | NP | NP | 6148.15 |
| **MW-4** | 3/31/2021 | 6,240.80 | 92.86 | NP | NP | 6147.94 |
| **MW-4** | 5/24/2021 | 6,240.80 | 92.66 | NP | NP | 6148.14 |
| **MW-4** | 8/23/2021 | 6,240.80 | 92.67 | NP | NP | 6148.13 |
| **MW-4** | 11/23/2021 | 6,240.80 | 92.70 | NP | NP | 6148.10 |
| | | | | | | |
| **MW-5** | 4/2/2012 | 6,216.97 | UNK | UNK | UNK | UNK |
| **MW-5** | 6/13/2012 | 6,216.97 | UNK | UNK | UNK | UNK |
| **MW-5** | 10/2/2012 | 6,216.97 | UNK | UNK | UNK | UNK |
| **MW-5** | 12/6/2012 | 6,216.97 | UNK | UNK | UNK | UNK |
| **MW-5** | 3/1/2013 | 6,216.97 | 90.48 | 90.46 | 0.02 | 6,126.51 |
| **MW-5*** | 6/24/2013 | 6,238.33 | 89.78 | NP | NP | 6,148.55 |
| **MW-5** | 9/12/2013 | 6,238.33 | 89.98 | NP | NP | 6,148.35 |
| **MW-5** | 12/4/2013 | 6,238.33 | 89.86 | NP | NP | 6,148.47 |
| **MW-5** | 3/19/2014 | 6,238.33 | 89.91 | NP | NP | 6,148.42 |
| **MW-5** | 6/13/2014 | 6,238.33 | 89.95 | NP | NP | 6,148.38 |
| **MW-5** | 9/11/2014 | 6,238.33 | 90.02 | NP | NP | 6,148.31 |
| **MW-5** | 12/4/2014 | 6,238.33 | 90.02 | NP | NP | 6,148.31 |
| **MW-5** | 3/17/2015 | 6,238.33 | 89.98 | NP | NP | 6,148.35 |
| **MW-5** | 4/28/2016 | 6,238.33 | 90.11 | NP | NP | 6,148.22 |
| **MW-5** | 8/11/2016 | 6,238.33 | 90.20 | NP | NP | 6,148.13 |
| **MW-5** | 10/17/2016 | 6,238.33 | 90.18 | NP | NP | 6,148.15 |
| **MW-5** | 1/31/2017 | 6,238.33 | 90.11 | NP | NP | 6,148.22 |
| **MW-5** | 4/28/2017 | 6,238.33 | 90.13 | NP | NP | 6,148.20 |
| **MW-5** | 7/28/2017 | 6,238.33 | 90.17 | 90.16 | 0.01 | 6,148.16 |
| **MW-5**** | 10/14/2019 | 6,236.47 | 88.3 | NP | NP | 6,148.17 |
| **MW-5** | 3/19/2020 | 6,236.47 | 88.37 | NP | NP | 6,148.10 |
| **MW-5** | 6/23/2020 | 6,236.47 | 88.41 | NP | NP | 6,148.06 |
| **MW-5** | 9/8/2020 | 6,236.47 | 88.35 | NP | NP | 6,148.12 |
| **MW-5** | 12/4/2020 | 6,236.47 | 88.42 | NP | NP | 6,148.05 |
| **MW-5** | 3/31/2021 | 6,236.47 | 88.55 | NP | NP | 6,147.92 |
| **MW-5** | 5/24/2021 | 6,236.47 | 88.43 | NP | NP | 6,148.04 |
| **MW-5** | 8/23/2021 | 6,236.47 | 88.46 | NP | NP | 6,148.01 |
| **MW-5** | 11/23/2021 | 6,236.47 | 88.51 | NP | NP | 6,147.96 |
| | | | | | | |

**TABLE 1**

**GROUNDWATER ELEVATIONS SUMMARY**
**FLORANCE #47X**
**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**** | 10/14/2019 | 6,235.26 | 88.42 | NP | NP | 6,146.84 |
| **MW-6** | 3/19/2020 | 6,235.26 | 88.51 | NP | NP | 6,146.75 |
| **MW-6** | 6/23/2020 | 6,235.26 | 88.52 | NP | NP | 6,146.74 |
| **MW-6** | 9/8/2020 | 6,235.26 | 88.30 | NP | NP | 6,146.96 |
| **MW-6** | 12/4/2020 | 6,235.26 | 88.53 | NP | NP | 6,146.73 |
| **MW-6** | 3/31/2021 | 6,235.26 | 88.74 | NP | NP | 6,146.52 |
| **MW-6** | 5/24/2021 | 6,235.26 | 88.60 | NP | NP | 6,146.66 |
| **MW-6** | 8/23/2021 | 6,235.26 | 88.58 | NP | NP | 6,146.68 |
| **MW-6** | 11/23/2021 | 6,235.26 | 88.49 | NP | NP | 6,146.77 |
| | | | | | | |
| **MW-7**** | 10/14/2019 | 6,237.28 | 90.94 | NP | NP | 6,146.34 |
| **MW-7** | 3/19/2020 | 6,237.28 | 90.98 | NP | NP | 6,146.30 |
| **MW-7** | 6/23/2020 | 6,237.28 | 91.06 | NP | NP | 6,146.22 |
| **MW-7** | 9/8/2020 | 6,237.28 | 90.91 | NP | NP | 6,146.37 |
| **MW-7** | 12/4/2020 | 6,237.28 | 91.08 | NP | NP | 6,146.20 |
| **MW-7** | 3/31/2021 | 6,237.28 | 91.22 | NP | NP | 6,146.06 |
| **MW-7** | 5/24/2021 | 6,237.28 | 91.13 | NP | NP | 6,146.15 |
| **MW-7** | 8/23/2021 | 6,237.28 | 91.1 | NP | NP | 6,146.18 |
| **MW-7** | 11/23/2021 | 6,237.28 | 91.07 | NP | NP | 6,146.21 |

< - less than
* - Top of casing elevation was resurveyed on 6/20/13
** - Top of casing elevation was resurveyed on 12/17/2019
† - Oil-water interface probe did not detect phase separated hydrocarbons. PSH observed visually using a bailer.
Groundwater elevation calculation in wells with product: (Top of Casing Elevation - Depth to Water) + (Product Thickness * 0.8)
AMSL - above mean sea level
BTOC - below top of casing
NP - no free phase hydrocarbons are present the well
UNK - data is not known

**TABLE 2**

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**
**FLORACE #47X**
**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** | 1/8/1997 | **3,380** | **7,150** | **917** | **7,200** |
| **MW-1** | 7/13/1997 | **367** | 241 | 35 | 191 |
| **MW-1** | 10/1/1997 | **171** | 54 | 27 | 65 |
| **MW-1** | 1/6/1998 | **147** | 70 | 20 | 73.6 |
| **MW-1** | 3/9/1998 | **140** | 1.4 | 17 | 36 |
| **MW-1** | 6/11/1998 | **94** | 19 | 11 | 16.3 |
| **MW-1** | 8/12/1998 | **49** | 4.7 | 8.8 | 5.7 |
| **MW-1** | 12/15/1998 | **46** | 11 | 5.8 | 4.7 |
| **MW-1** | 2/9/1999 | **33** | 6.6 | 5.6 | 4.7 |
| **MW-1** | 4/21/1999 | **40** | 15 | 6.4 | 10.4 |
| **MW-1** | 7/28/1999 | **34** | 7.8 | 3 | 3.0 |
| **MW-1** | 11/3/1933 | 2.9 | <0.5 | <0.5 | <1.5 |
| **MW-1** | 3/23/2000 | **10** | 1.1 | <0.5 | <1.5 |
| **MW-1** | 6/14/2000 | 4.1 | 1.4 | 0.6 | <1.5 |
| **MW-1** | 11/17/2000 | 4.64 | <1.0 | <1.0 | <1.0 |
| **MW-1** | 1/31/2001 | 3.67 | 1.44 | <1.0 | <1.0 |
| **MW-1** | 4/30/2001 | 5.44 | 1.90 | <1.0 | 1.78 |
| **MW-1** | 10/10/2001 | 1.1 | <2.0 | <2.0 | <2.0 |
| **MW-1** | 12/2/2003 | <2.0 | <2.0 | <2.0 | <5.0 |
| **MW-1** | 9/20/2004 | 3.4 | <2.0 | <2.0 | <5.0 |
| **MW-1** | 12/3/2004 | <2.0 | <2.0 | <2.0 | <5.0 |
| **MW-1** | 3/10/2005 | <2.0 | <2.0 | <2.0 | <5.0 |
| **MW-1** | 6/18/2005 | <2.0 | <2.0 | <2.0 | <5.0 |
| **MW-1** | 7/13/2006 | 2.2 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 9/21/2006 | 4.9 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 3/29/2010 | <1.0 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 6/18/2010 | <1.0 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 9/10/2010 | 1.2 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 12/4/2010 | <1.0 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 3/2/2011 | <1.0 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 6/14/2011 | 3.6 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 9/12/2011 | <1.0 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 1/3/2012 | <1.0 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 4/2/2012 | <1.0 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 6/13/2012 | <1.0 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 10/2/2012 | 1.1 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 12/6/2012 | <1.0 | <1.0 | <1.0 | <3.0 |
| **MW-1** | 3/1/2013 | <1.0 | <1.0 | <1.0 | <2.0 |
| **MW-1** | 11/1/2019 | 1.4 | <1.0 | <1.0 | <1.5 |
| **MW-1** | 6/23/2020 | NS | NS | NS | NS |
| **MW-1** | 5/24/2021 | NS | NS | NS | NS |
| | | | | | |
| **MW-2** | 8/12/1998 | **9,800** | **14,000** | **920** | **9,200** |
| **MW-2** | 12/15/1998 | **12,000** | **17,000** | **870** | **8,700** |

**TABLE 2**

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**
**FLORACE #47X**
**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-2** | 2/9/1999 | **11,000** | **16,000** | 720 | **7,300** |
| **MW-2** | 4/21/1999 | **14,000** | **20,000** | **850** | **8,500** |
| **MW-2** | 7/28/1999 | **11,000** | **15,000** | 740 | **6,800** |
| **MW-2** | 11/3/1999 | **11,000** | **14,000** | **770** | **8,100** |
| **MW-2** | 3/23/2000 | **12,000** | **15,000** | **810** | **8,200** |
| **MW-2** | 6/14/2000 | **6,400** | **7,000** | 570 | **5,800** |
| **MW-2** | 11/17/2000 | **5,980** | **3,240** | 600 | **4,780** |
| **MW-2** | 1/31/2001 | **6,300** | **2,790** | 458 | **5,490** |
| **MW-2** | 4/30/2001 | **7,160** | **2,200** | 404 | **7,060** |
| **MW-2** | 10/10/2001 | **4,500** | **1,000** | 390 | **3,800** |
| **MW-2** | 12/2/2003 | **11,000** | <100 | 540 | **6,400** |
| **MW-2** | 9/20/2004 | **11,000** | <200 | 600 | **5,800** |
| **MW-2** | 12/3/2004 | **11,000** | <200 | 630 | **6,300** |
| **MW-2** | 3/10/2005 | **10,000** | 38 | 490 | **5,700** |
| **MW-2** | 6/18/2005 | **9,700** | <100 | 640 | **6,000** |
| **MW-2** | 9/16/2005 | **8,900** | 31 | 370 | **4,800** |
| **MW-2** | 11/30/2005 | <2.0 | 2.9 | <2.0 | 12.2 |
| **MW-2** | 7/18/2006 | **16,900** | <10.0 | **753** | **4,370** |
| **MW-2** | 3/29/2010 | **9,460** | 67 | 521 | **6,210** |
| **MW-2** | 6/18/2010 | **3,270** | <1.0 | 260 | **3,530** |
| **MW-2** | 12/4/2010 | **1,470** | 26.3 | 599 | **2,720** |
| **MW-2** | 3/2/2011 | **2,530** | 1.4 | **764** | **3,700** |
| **MW-2** | 6/14/2011 | **8,500** | <20.0 | 537 | **4,490** |
| **MW-2** | 1/3/2012 | **9,400** | <50.0 | 710 | **6,340** |
| **MW-2** | 4/2/2012 | **10,000** | 710 | <100 | **6,390** |
| **MW-2** | 6/13/2012 | **11,200** | 716 | <50.0 | **6,790** |
| **MW-2** | 10/2/2012 | **10,200** | **765** | <100 | **7,260** |
| **MW-2** | 12/6/2012 | **8,280** | 722 | <50.0 | **5,610** |
| **MW-2** | 3/4/2013 | **8,600** | <10 | <10 | **6,500** |
| **MW-2** | 6/24/2013 | **6,300** | <10 | 600 | **5,800** |
| **MW-2** | 9/12/2013 | NSO | NSO | NSO | NSO |
| **MW-2** | 12/4/2013 | **39** | 72 | <5.0 | 150 |
| **MW-2** | 3/19/2014 | **9,700** | <10 | **760** | **7,000** |
| **MW-2** | 6/13/2014 | **8,600** | <10 | 290 | **5,800** |
| **MW-2** | 9/11/2014 | **9,700** | <10 | 490 | **7,200** |
| **MW-2** | 12/8/2014 | **9,400** | <10 | 360 | **6,900** |
| **MW-2** | 3/17/2015 | **5,000** | <20 | 340 | **3,000** |
| **MW-2** | 4/28/2017 | **5,100** | <5 | 410 | **3,600** |
| **MW-2** | 11/1/2019 | **4,600** | <1.0 | 270 | 190 |
| **MW-2** | 6/23/2020 | **8,200** | <20 | 410 | 150 |
| **MW-2** | 5/24/2021 | **28** | <1.0 | 5.1 | 6.7 |
| | | | | | |
| **MW-3** | 4/2/2012 | NS | NS | NS | NS |
| **MW-3** | 6/13/2012 | NS | NS | NS | NS |

**TABLE 2**

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**
**FLORACE #47X**
**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** | 10/2/2012 | NS | NS | NS | NS |
| **MW-3** | 12/6/2012 | NS | NS | NS | NS |
| **MW-3** | 3/1/2013 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 6/24/2013 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 9/12/2013 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 12/4/2013 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 3/19/2014 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 6/13/2014 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 9/11/2014 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 12/4/2014 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 3/17/2015 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 11/1/2019 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 6/23/2020 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-3** | 5/24/2021 | NS-FP | NS-FP | NS-FP | NS-FP |
| | | | | | |
| **MW-4** | 12/15/1998 | **44** | 11 | 5.8 | 4.8 |
| **MW-4** | 2/9/1999 | **11,000** | **16,000** | 730 | **7,300** |
| **MW-4** | 4/21/1999 | **68** | 25 | 9.3 | 13 |
| **MW-4** | 7/2/1999 | **11,000** | **14,000** | 700 | **6,700** |
| **MW-4** | 3/23/2000 | **11,000** | **13,000** | **770** | **7,800** |
| **MW-4** | 6/14/2000 | **28** | 42 | 7 | 135 |
| **MW-4** | 11/17/2000 | **59.9** | 104 | 2.94 | 98.3 |
| **MW-4** | 1/31/2001 | **30.3** | 81.0 | 5.20 | 156 |
| **MW-4** | 4/30/2001 | **36.1** | 56.1 | 1.32 | 73 |
| **MW-4** | 10/10/2001 | **24** | 28 | <2.0 | 47 |
| **MW-4** | 12/2/2003 | 2.3 | 2.7 | <2.0 | 6.5 |
| **MW-4** | 9/20/2004 | 3.6 | 3.2 | <2.0 | 9.8 |
| **MW-4** | 12/3/2004 | 2.5 | 2.3 | <2.0 | 8 |
| **MW-4** | 3/10/2005 | 3.0 | 3.5 | <2.0 | 11 |
| **MW-4** | 6/18/2005 | <2.0 | 3 | <2.0 | 8.6 |
| **MW-4** | 9/16/2005 | <2.0 | 2.3 | <2.0 | 9.4 |
| **MW-4** | 11/30/2005 | <2.0 | <2.0 | <2.0 | 10.4 |
| **MW-4** | 7/13/2006 | 2.9 | <1.0 | 1.0 | 9.9 |
| **MW-4** | 9/21/2006 | 1.2 | <1.0 | <1.0 | 9.6 |
| **MW-4** | 3/29/2010 | 1.3 | <1.0 | <1.0 | 8.7 |
| **MW-4** | 6/18/2010 | <1.0 | <1.0 | <1.0 | 6.8 |
| **MW-4** | 9/10/2010 | <1.0 | <1.0 | <1.0 | 3.9 |
| **MW-4** | 12/4/2010 | <1.0 | <1.0 | <1.0 | 5.6 |
| **MW-4** | 3/2/2011 | <1.0 | <1.0 | <1.0 | 3 |
| **MW-4** | 6/14/2011 | <1.0 | <1.0 | <1.0 | 6 |
| **MW-4** | 9/12/2011 | <1.0 | <1.0 | <1.0 | 4.7 |
| **MW-4** | 1/3/2012 | <1.0 | <1.0 | <1.0 | 5.4 |
| **MW-4** | 4/2/2012 | <1.0 | <1.0 | <1.0 | 6.1 |
| **MW-4** | 6/13/2012 | <1.0 | <1.0 | <1.0 | 3.7 |

**TABLE 2**

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**
**FLORACE #47X**
**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** | 10/2/2012 | <1.0 | <1.0 | <1.0 | 4.5 |
| **MW-4** | 12/6/2012 | <1.0 | <1.0 | <1.0 | 6 |
| **MW-4** | 3/1/2013 | <1.0 | <1.0 | <1.0 | <2.0 |
| **MW-4** | 11/1/2019 | <1.0 | <1.0 | <1.0 | <1.5 |
| **MW-4** | 6/23/2020 | NS | NS | NS | NS |
| **MW-4** | 5/24/2021 | NS | NS | NS | NS |
| | | | | | |
| **MW-5** | 6/14/2000 | **1,100** | 710 | 100 | **1,100** |
| **MW-5** | 6/14/2000 | **890** | 570 | 80 | **900** |
| **MW-5** | 11/17/2000 | **161** | 110 | 8.09 | 60.8 |
| **MW-5** | 4/30/2001 | **15.7** | 21.6 | 2.01 | 17.9 |
| **MW-5** | 10/10/2001 | **380** | 120 | 19 | 220 |
| **MW-5** | 12/2/2003 | **41** | 7.9 | 3.1 | 10 |
| **MW-5** | 9/20/2004 | **17** | 3.7 | <2.0 | 9.9 |
| **MW-5** | 12/9/2004 | **13** | 3.3 | <2.0 | 14 |
| **MW-5** | 3/10/2005 | 5.5 | <2.0 | <2.0 | 6.3 |
| **MW-5** | 7/13/2006 | **920** | 74 | 34.7 | **1,980** |
| **MW-5** | 9/21/2006 | **135** | 19.2 | 17.0 | 409 |
| **MW-5** | 4/2/2012 | NS | NS | NS | NS |
| **MW-5** | 6/13/2012 | NS | NS | NS | NS |
| **MW-5** | 10/2/2012 | NS | NS | NS | NS |
| **MW-5** | 12/6/2012 | NS | NS | NS | NS |
| **MW-5** | 3/1/2013 | NS-FP | NS-FP | NS-FP | NS-FP |
| **MW-5** | 6/24/2013 | **930** | <50 | 98 | **1,100** |
| **MW-5** | 9/12/2013 | **2,400** | 40 | 250 | **3,800** |
| **MW-5** | 12/4/2013 | **410** | 46 | 51 | **1,000** |
| **MW-5** | 3/19/2014 | **920** | 3.1 | 100 | **660** |
| **MW-5** | 6/13/2014 | **4,000** | <20 | 480 | **1,700** |
| **MW-5** | 9/11/2014 | **3,000** | 33 | 370 | **2,800** |
| **MW-5** | 12/4/2014 | **3,000** | 14 | 390 | **2,900** |
| **MW-5** | 3/17/2015 | **570** | <10 | 52 | **660** |
| **MW-5** | 4/28/2016 | **270** | <10 | 30 | 400 |
| **MW-5** | 4/28/2017 | **380** | <2.0 | 55 | 560 |
| **MW-5** | 11/1/2019 | **2,200** | <1.0 | 150 | 210 |
| **MW-5** | 6/23/2020 | **360** | <2.0 | 2.4 | 210 |
| **MW-5** | 5/24/2021 | **58** | <5.0 | <5.0 | 21 |
| | | | | | |
| **MW-6** | 11/1/2019 | <1.0 | <1.0 | <1.0 | <1.5 |
| **MW-6** | 6/23/2020 | <1.0 | <1.0 | <1.0 | <1.5 |
| **MW-6** | 5/4/2021 | <1.0 | <1.0 | <1.0 | <2.0 |

**TABLE 2**

**GROUNDWATER LABORATORY ANALYTICAL RESULTS**
**FLORACE #47X**
**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-7** | 11/1/2019 | <1.0 | <1.0 | <1.0 | <1.5 |
| **MW-7** | 6/23/2020 | <1.0 | <1.0 | <1.0 | <1.5 |
| **MW-7** | 5/4/2021 | <1.0 | <1.0 | <1.0 | <2.0 |

**Notes:**
< - indicates result is less than laboratory reporting detection limit
µg/L - micrograms per liter
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
NSO - not sampled due to obstruction
**Bold -** indicates sample exceeds NMWQCC standard

Released to Imaging: 5/10/2024 3:00:36 PM
Received by OCD: 3/31/2022 1:03:08 PM

**TABLE 3**

**PNUEMATIC PRODUCT RECOVERY SYSTEM DATA**
**FLORANCE #47X**
**SAN JUAN COUNTY, NEW MEXICO**

| Date | Well ID | Cycles | Run Time (hours) | Cycles (Lifetime) | Lifetime (hours) | Estimated Product Recovered (gallons) | Depth to Product (feet) | Depth to Water (feet) | PSH Thickness (feet) | Battery Voltage | System ON/OFF | Any Faults | Notes/Maintenance Completed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/18/2019 | MW-3 | 0 | 0:00:00 | 1,809 | 160:07:11 | 0.0 | 91.26 | 93.19 | 1.93 | 12.7 | ON | NO | Installed sipper at MW-3 vac: 18s, press: 40s, delay: 8 hours |
| 12/3/2019 | MW-3 | 47 | 13:23:00 | 1,856 | 6:16:10 | 0.9 | 91.55 | 93.49 | 1.94 | 12.7 | ON | NO | 2.5 ounces per cycle |
| | | | | | | | | | | | | | |
| 1/9/2020 | MW-3 | 158 | 2:23:03 | 1,967 | 19:06:13 | 2.7 | 91.5 | 93.01 | 1.51 | 12.7 | ON | NO | 2 oz. per cycle, 5 inches of product in barrel |
| 1/30/2020 | MW-3 | 221 | 71:23:46 | 2,030 | 232:06:56 | 4.1 | 91.59 | 93.12 | 1.53 | 12.8 | ON | NO | 3 oz. product per cycle delay set to 6 hours. |
| 2/26/2020 | MW-3 | 303 | 99:04:18 | 2,112 | 0003:11:28 | 5.4 | 91.8 | 93.1 | 1.3 | 12.8 | ON | NO | 2 oz per cycle, changed delay to 6 hours. |
| 3/19/2020 | MW-3 | 390 | 120:22:41 | 2,199 | 0025:05:52 | 6.8 | 91.62 | 92.85 | 1.23 | 12.8 | ON | NO | 2 oz per cycle, ~4.5 inches of product in barrel |
| 4/1/2020 | MW-3 | 391 | 120:23:13 | 2,200 | 0025:06:23 | 6.8 | 91.46 | 92.95 | 1.49 | 12.7 | ON | NO | ~ 1 oz per cycle, changed solar panel to 26 degrees from 0. |
| 4/20/2020 | MW-3 | 467 | 139:23:28 | 2,276 | 0044:06:38 | 7.4 | 91.7 | 92.49 | 0.79 | 12.7 | ON | NO | Cleaned panel/pump,~ 5" inches of product in barrel |
| 5/4/2020 | MW-3 | 523 | 154:00:04 | 2,332 | 0058:04:15 | 7.8 | 91.83 | 92.4 | 0.57 | 12.7 | ON | NO | Cleaned panel/pump, 6" inches of product in barrel. 1 oz recovered in cycle. |
| 6/23/2020 | MW-3 | 727 | 204:01:16 | 2,536 | 108:08:27 | 12.6 | 91.83 | 92.41 | 0.58 | 12.9 | ON | NO | Clean pump, 9" of product in barrel 3 oz. recovered per cycle. |


Page 22 of 38

Released to Imaging: 5/10/2024 3:00:36 PM
Received by OCD: 3/31/2022 1:03:08 PM

**TABLE 3**

**PNUEMATIC PRODUCT RECOVERY SYSTEM DATA**
**FLORANCE #47X**
**SAN JUAN COUNTY, NEW MEXICO**

| Date | Well ID | Cycles | Run Time (hours) | Cycles (Lifetime) | Lifetime (hours) | Estimated Product Recovered (gallons) | Depth to Product (feet) | Depth to Water (feet) | PSH Thickness (feet) | Battery Voltage | System ON/OFF | Any Faults | Notes/Maintenance Completed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/24/2020 | MW-3 | 861 | 235:00:56 | 2,670 | 139:08:07 | 17.8 | 91.84 | 92.44 | 0.6 | 12.9 | ON | NO | Clean pump/solar panel, 9" of product in barrel, bailed 5 oz of product from well |
| 8/6/2020 | MW-3 | 918 | 248:02:02 | 2,727 | 152:09:12 | 18.3 | 91.84 | 91.87 | 0.03 | 12.9 | ON | NO | Clean pump/solar panel, 9" of product in barrel |
| 9/8/2020 | MW-3 | 1,061 | 25:00:01 | 2,870 | 185:07:11 | 20.5 | 91.66 | 91.71 | 0.05 | 12.9 | ON | NO | Change vacuum to 10 seconds and delay to 10 hours |
| 9/25/2020 | MW-3 | 1,070 | 28:08:15 | 2,879 | 188:15:26 | 20.6 | 91.72 | 92.69 | 0.97 | 13.3 | ON | ntake Overloa | Clean pump/solar panel, 16" of product in barrel, Repair cracked intake lines |
| 10/14/2020 | MW-3 | 1,098 | 40:00:58 | 2,907 | 200:08:08 | 21.1 | 91.87 | 92.5 | 0.63 | 12.7 | ON | ntake Overloa | Clean pump/solar panel, 20" of product in barrel, Repair cracked intake lines. Polytube needs to be replaced with vinyl. |
| 10/26/2020 | MW-3 | 1,110 | 44:05:25 | 2,912 | 204:12:36 | 21.3 | 91.72 | 92.69 | 0.97 | 12.6 | ON | ntake Overloa | 21" of product in barrel, replace intake lines. Clean snow of solar Panel. |
| 11/4/2020 | MW-3 | 1,118 | 44:05:25 | 2,927 | 204:12:36 | 21.4 | 91.7 | 92.66 | 0.96 | 12.6 | ON | ntake Overloa | 22" of product in barrel. |
| 11/24/2020 | MW-3 | 1,121 | 48:19:28 | 2,930 | 209:02:39 | 21.4 | 91.59 | 92.71 | 1.12 | 13 | ON | ntake Overloa | 21" of product in barrel. Clean solar Panel. |
| 12/4/2020 | MW-3 | 1,140 | 58:17:47 | 2,949 | 219:00:57 | 21.7 | 91.72 | 92.90 | 1.18 | 12.6 | ON | NO | Increase pressure cycle to 2:15 to clear intake. Delay set to 10 hours |
| 12/18/2020 | MW-3 | 1,173 | 72:16:37 | 2,982 | 232:23:47 | 22.2 | 91.69 | 92.90 | 1.21 | 12.7 | ON | NO | ~ 6" in barrel, 1 oz recovered in cycle |


Page 23 of 38

Released to Imaging: 5/10/2024 3:00:36 PM
Received by OCD: 3/31/2022 1:03:08 PM

**TABLE 3**

**PNUEMATIC PRODUCT RECOVERY SYSTEM DATA**
**FLORANCE #47X**
**SAN JUAN COUNTY, NEW MEXICO**

| Date | Well ID | Cycles | Run Time (hours) | Cycles (Lifetime) | Lifetime (hours) | Estimated Product Recovered (gallons) | Depth to Product (feet) | Depth to Water (feet) | PSH Thickness (feet) | Battery Voltage | System ON/OFF | Any Faults | Notes/Maintenance Completed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/30/2020 | MW-3 | 1,180 | 75:05:06 | 2,989 | 235:12:16 | 22.3 | 91.7 | 93.02 | 1.32 | 12.7 | ON | ntake Overloa | Cleaned pump, attached white tubing from pump back to solar sipper control box, changed solar panel angle to 51 degrees for winter, 1 oz PSH recovered in cycle, ~6 " in barrel. |
| | | | | | | | | | | | | | |
| 1/13/2021 | MW-3 | 1,214 | 89:05:49 | 3,023 | 249:13:00 | 22.8 | 91.78 | 92.48 | 0.7 | 12.7 | ON | NO | ~6.5" PSH in bbl. Cleaned solar panel. 2 oz yellow/brown PSH recovered in cycle. |
| 2/1/2021 | MW-3 | 1,256 | 106:19:27 | 3,065 | 11:02:37 | 23.5 | 92.07 | 92.64 | 0.57 | 12.8 | ON | ntake Overloa | ~18" PSH in bbl. Cleaned solar panel. 3 oz yellow/brown PSH recovered in cycle. Intake line cracked, repair and system returned to normal operation |
| 2/16/2021 | MW-3 | 1,295 | 121:18:34 | 3,104 | 26:01:44 | 24.1 | 91.64 | 92.69 | 1.05 | 13.6 | ON | ntake Overloa | ~19" PSH in bbl. Air line frozen at well head, Warmed with hand and ran 2 cycles to clear condensation in line. |
| 3/12/2021 | MW-3 | 1,330 | 135:06:54 | 3,139 | 39:14:04 | 24.6 | 91.54 | 92.89 | 1.35 | 12.7 | ON | ntake Overloa | Cleaned out air lines |
| 3/31/2021 | MW-3 | 1,402 | 152:16:33 | 3,211 | 56:23:43 | 25.8 | 92.08 | 92.6 | 0.52 | 12.8 | ON | ntake Overloa | ~19" PSH in bbl. Replaced Discharge line. |
| 4/15/2021 | MW-3 | 1,437 | 163:09:42 | 3,246 | 67:16:52 | 26.0 | 92.00 | 92.70 | 0.70 | 14.3 | ON | No | Angle solar panel to 54 degrees for summer sun. |
| 5/24/2021 | MW-3 | 1,448 | 166:23:46 | 3,257 | 71:06:56 | 26.1 | 91.68 | 92.91 | 1.23 | 12.8 | ON | ntake Overloa | Attached air supply line back to panel side. |
| 6/21/2021 | MW-3 | 1,461 | 170:06:08 | 3,270 | 74:13:18 | 26.2 | 91.64 | 93.11 | 1.47 | 13.4 | ON | NO | Adjust pump depth |
| 7/27/2021 | MW-3 | 1,464 | 170:20:14 | 3,273 | 75:03:24 | 26.2 | NP | 92.61 | NP | 12.8 | ON | ntake Overrid | Clear fault and air lines reset pump |


Page 24 of 38

Released to Imaging: 5/10/2024 3:00:36 PM
Received by OCD: 3/31/2022 1:03:08 PM

**TABLE 3**

**PNUEMATIC PRODUCT RECOVERY SYSTEM DATA**
**FLORANCE #47X**
**SAN JUAN COUNTY, NEW MEXICO**

| Date | Well ID | Cycles | Run Time (hours) | Cycles (Lifetime) | Lifetime (hours) | Estimated Product Recovered (gallons) | Depth to Product (feet) | Depth to Water (feet) | PSH Thickness (feet) | Battery Voltage | System ON/OFF | Any Faults | Notes/Maintenance Completed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8/23/2021 | MW-3 | 1,464 | 170:20:14 | 3,274 | 75:03:24 | 26.2 | NP | 93.61 | NP | 13.8 | ON | ntake Overrid | Clear fault and air lines reset pump. Need to replace cable for Intake alarm. |
| 8/27/2021 | MW-3 | 1,464 | 170:20:14 | 3,273 | 75:03:24 | 26.2 | 91.58 | 93.52 | 1.94 | 12.7 | Off | Off | Panel off in setup mode. Directional solenoid broken. |
| 10/27/2021 | MW-3 | 1,479 | 170:21:39 | 3,288 | 75:04:49 | 26.4 | 91.57 | 93.55 | 1.98 | 12.8 | ON | ntake Overloa | Replace cable at intake float. |
| 11/10/2021 | MW-3 | 1,562 | 184:22:51 | 3,371 | 89:06:01 | 28.3 | _ | _ | _ | 12.7 | ON | NO | |
| 11/23/2021 | MW-3 | 1,641 | 197:23:12 | 3,450 | 102:06:22 | 30.2 | 91.81 | 92.94 | 1.13 | 12.8 | ON | NO | Clean and reset pump. |
| 12/17/2021 | MW-3 | 1,816 | 220:05:20 | 3,625 | 124:01:30 | 34.3 | _ | 91.47 | _ | 12.7 | ON | ntake Overloa | ~17" PSH in bbl. Reset pump. Ran 2 cycles, ice in discharge line, ~ 2 oz water and oily product recovered on 2nd cycle. |

**Notes:**
PSH - phase separated hydrocarbons
NP - No product observed


Page 25 of 38

# ENCLOSURE A – GROUNDWATER COLLECTION FORMS

## Water Sample Collection Form

| | | |
|---|---|---|
| Sample Location | Florance 47X | Harvest Four Corners, LLC |
| Sample Date | 5.24.21 | |
| Sample Time | 1438 | |
| Sample ID | mw-2 | |
| Analyses | BTEX 8021 | |
| Matrix | Groundwater | Hall Environmental |
| Turn Around Time | Standard | Hand delivery |
| Depth to Water | 99.14 | TD: 109.20 |
| Time | | |

Vol. of H2O to purge: 4.9 gallons
*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*

Method of Purging: PVC bailer
Method of Sampling: PVC bailer

| Time | Vol. Removed (gal.) | Total Vol H2O removed (gal.) | pH (std. units) | Temp. ( F or C) | Conductivity (us or ms) | Comments |
|---|---|---|---|---|---|---|
| 1417 | | 1 | 7.08 | 21.5 | 1574 | Black. No sheen. Strong odor |
| 1423 | | 2 | 7.09 | 19.0 | 1387 | " ", sheen, " " |
| 1428 | | 3 | 7.06 | 18.4 | 1646 | " " |
| 1438 | | 4.9 | 7.09 | 17.7 | 2.12us | " " |
| | | ~~8~~ | | | | |
| | | ~~9~~ | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Comments:**

**Describe Deviations from SOP:**

**Signature:** Caitlin Mac 5.24.21

Received by OCD: 3/31/2022 1:03:08 PM

Released to Imaging: 5/10/2024 3:00:36 PM

Page 28 of 38

## Water Sample Collection Form

| | | |
|---|---|---|
| Sample Location | Florance 47X | Harvest Four Corners, LLC |
| Sample Date | 5.24.21 | |
| Sample Time | 1326 | |
| Sample ID | MW-5 | |
| Analyses | BTEX 8021 | |
| Matrix | Groundwater | Hall Environmental |
| Turn Around Time | Standard | Hand delivery |
| Depth to Water | 88.43 | TD: 98.53 |
| Time | | |

Vol. of H2O to purge: 4.9 gallons
*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*

Method of Purging: PVC bailer
Method of Sampling: PVC bailer

| Time | Vol. Removed (gal.) | Total Vol H2O removed (gal.) | pH (std. units) | Temp. ( F or C) | Conductivity (us or ms) | Comments |
|---|---|---|---|---|---|---|
| 1317 | | 1 | 6.99 | 19.8 | 1335 | Gray, NO Sheen. Strong odor |
| 1326 | | 2.75 | 7.01 | 17.9 | 1855 | " " |
| | | ~~3~~ | | | | |
| | | ~~4~~ | | | | |
| | | ~~4.9~~ | | | | |

**Comments:** Well bailed dry @ 2.75 gallons

**Describe Deviations from SOP:** Did not bail 4.9 gallons

**Signature:** [signature] 5.24.21

Received by OCD: 3/31/2022 1:03:08 PM

Released to Imaging: 5/10/2024 3:00:36 PM

## Water Sample Collection Form

| | | | |
|---|---|---|---|
| Sample Location | Florance 47K | | Harvest Four Corners, LLC |
| Sample Date | 5 24 21 | | |
| Sample Time | 1248 | | |
| Sample ID | mw-6 | | |
| Analyses | BTEX 8021 | | |
| Matrix | Groundwater | | Hall Environmental |
| Turn Around Time | Standard | | Hand delivery |
| Depth to Water | 88.6 | | TD: 100.21 |
| Time | | | |

Vol. of H2O to purge: 5 1/2 gallons
*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*

Method of Purging: PVC bailer
Method of Sampling: PVC bailer

| Time | Vol. Removed (gal.) | Total Vol H2O removed (gal.) | pH (std. units) | Temp. ( F or C) | Conductivity (us or ms) | Comments |
|---|---|---|---|---|---|---|
| 1226 | | .25 | 7.01 | 19.1 | 2.03 | cloudy No sheen/odor |
| 1232 | | .50 | 6.98 | 18.9 | 1802us | " " |
| 1234 | | .75 | 6.98 | 17.2 | 1795 | " " |
| 1236 | | 1 | 6.98 | 17.0 | 1791 | " " |
| 1245 | | 2 | 6.94 | 17.8 | 1798 | " " |
| 1248 | | 2.25 | 6.98 | 16.8 | 1778 | " " |
| | | 4 | | | | |
| | | 5 1/2 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Comments:** well bailed dry @ 2.25 gallons

**Describe Deviations from SOP:** Did not purge 5 1/2 gallons

**Signature:** Carla Mc 5-24-21

Received by OCD: 3/31/2022 1:03:08 PM
Released to Imaging: 5/10/2024 3:00:36 PM

# Water Sample Collection Form

| | | | |
|---|---|---|---|
| Sample Location | Florance 47A | | Harvest Four Corners, LLC |
| Sample Date | 5.24.21 | | |
| Sample Time | 1203 | | |
| Sample ID | MW-7 | | |
| Analyses | BTEX 8021 | | |
| Matrix | Groundwater | | Hall Environmental |
| Turn Around Time | Standard | | Hand delivery |
| Depth to Water | 91.13 | | TD 102.13 |
| Time | | | |

Vol. of H2O to purge: 5.3 gallons
*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*

Method of Purging: PVC bailer
Method of Sampling: PVC bailer

| Time | Vol. Removed (gal.) | Total Vol H2O removed (gal.) | pH (std. units) | Temp. ( F or C) | Conductivity (us or ms) | Comments |
|---|---|---|---|---|---|---|
| 1127 | | .25 | 6.96 | 17.7 | 1634 | Cloudy, no sheen/odor |
| 1130 | | .50 | 6.93 | 16.7 | 1587 | " " |
| 1133 | | .75 | 6.90 | 16.8 | 1602 | " " |
| 1135 | | 1 | 6.91 | 16.6 | 1592 | " " |
| 1141 | | 2 | 6.87 | 17.2 | 1625 | " " |
| 1147 | | 3 | 6.89 | 17.2 | 1607 | " " |
| 1153 | | 4 | 6.91 | 16.9 | 1628 | " " |
| 1203 | | 5.3 | 6.93 | 17.7 | 1639 | " " |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Comments:**

**Describe Deviations from SOP:**

**Signature:** [signature] 5.24.21

Received by OCD: 3/31/2022 1:03:08 PM
Released to Imaging: 5/10/2024 3:00:36 PM

# ENCLOSURE B – LABORATORY ANALYTICAL RESULTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 28, 2021

Brooke Herb

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

RE: Florance 47X OrderNo.: 2105A45

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/25/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order: **2105A45**
Date Reported: **5/28/2021**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest **Lab Order:** 2105A45
**Project:** Florance 47X

**Lab ID:** 2105A45-001 **Collection Date:** 5/24/2021 2:38:00 PM
**Client Sample ID:** MW-2 **Matrix:** AQUEOUS

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **CCM** | |
| Benzene | 28 | 1.0 | | µg/L | 1 | 5/25/2021 3:05:00 PM | R7765 |
| Toluene | ND | 1.0 | | µg/L | 1 | 5/25/2021 3:05:00 PM | R7765 |
| Ethylbenzene | 5.1 | 1.0 | | µg/L | 1 | 5/25/2021 3:05:00 PM | R7765 |
| Xylenes, Total | 6.7 | 2.0 | | µg/L | 1 | 5/25/2021 3:05:00 PM | R7765 |
| Surr: 4-Bromofluorobenzene | 104 | 70-130 | | %Rec | 1 | 5/25/2021 3:05:00 PM | R7765 |

**Lab ID:** 2105A45-002 **Collection Date:** 5/24/2021 1:26:00 PM
**Client Sample ID:** MW-5 **Matrix:** AQUEOUS

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **CCM** | |
| Benzene | 58 | 5.0 | | µg/L | 5 | 5/25/2021 3:25:00 PM | R7765 |
| Toluene | ND | 5.0 | | µg/L | 5 | 5/25/2021 3:25:00 PM | R7765 |
| Ethylbenzene | ND | 5.0 | | µg/L | 5 | 5/25/2021 3:25:00 PM | R7765 |
| Xylenes, Total | 21 | 10 | | µg/L | 5 | 5/25/2021 3:25:00 PM | R7765 |
| Surr: 4-Bromofluorobenzene | 92.1 | 70-130 | | %Rec | 5 | 5/25/2021 3:25:00 PM | R7765 |

**Lab ID:** 2105A45-003 **Collection Date:** 5/24/2021 12:48:00 PM
**Client Sample ID:** MW-6 **Matrix:** AQUEOUS

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **CCM** | |
| Benzene | ND | 1.0 | | µg/L | 1 | 5/25/2021 3:45:00 PM | R7765 |
| Toluene | ND | 1.0 | | µg/L | 1 | 5/25/2021 3:45:00 PM | R7765 |
| Ethylbenzene | ND | 1.0 | | µg/L | 1 | 5/25/2021 3:45:00 PM | R7765 |
| Xylenes, Total | ND | 2.0 | | µg/L | 1 | 5/25/2021 3:45:00 PM | R7765 |
| Surr: 4-Bromofluorobenzene | 86.6 | 70-130 | | %Rec | 1 | 5/25/2021 3:45:00 PM | R7765 |

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 Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

**Analytical Report**
Lab Order: **2105A45**
Date Reported: **5/28/2021**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest
**Project:** Florance 47X
**Lab Order:** 2105A45

**Lab ID:** 2105A45-004
**Collection Date:** 5/24/2021 12:03:00 PM
**Client Sample ID:** MW-7
**Matrix:** AQUEOUS

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch ID |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **CCM** | |
| Benzene | ND | 1.0 | | µg/L | 1 | 5/25/2021 4:05:00 PM | R77656 |
| Toluene | ND | 1.0 | | µg/L | 1 | 5/25/2021 4:05:00 PM | R77656 |
| Ethylbenzene | ND | 1.0 | | µg/L | 1 | 5/25/2021 4:05:00 PM | R77656 |
| Xylenes, Total | ND | 2.0 | | µg/L | 1 | 5/25/2021 4:05:00 PM | R77656 |
| Surr: 4-Bromofluorobenzene | 87.0 | 70-130 | | %Rec | 1 | 5/25/2021 4:05:00 PM | R77656 |

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

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2105A45**

***28-May-21***

**Client:** Harvest

**Project:** Florance 47X

| Sample ID: **100ng btex lcs** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSW** | Batch ID: **R77656** | RunNo: **77656** |
| Prep Date: | Analysis Date: **5/25/2021** | SeqNo: **2757073** Units: **µg/L** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 19 | 1.0 | 20.00 | 0 | 94.7 | 80 | 120 | | | |
| Toluene | 19 | 1.0 | 20.00 | 0 | 95.1 | 80 | 120 | | | |
| Ethylbenzene | 20 | 1.0 | 20.00 | 0 | 98.3 | 80 | 120 | | | |
| Xylenes, Total | 58 | 2.0 | 60.00 | 0 | 96.7 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 18 | | 20.00 | | 92.3 | 70 | 130 | | | |

| Sample ID: **mb** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBW** | Batch ID: **R77656** | RunNo: **77656** |
| Prep Date: | Analysis Date: **5/25/2021** | SeqNo: **2757074** 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 | 2.0 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 19 | | 20.00 | | 92.6 | 70 | 130 | | | |

| Sample ID: **2105A45-004ams** | SampType: **MS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **MW-7** | Batch ID: **R77656** | RunNo: **77656** |
| Prep Date: | Analysis Date: **5/25/2021** | SeqNo: **2757118** Units: **µg/L** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 18 | 1.0 | 20.00 | 0 | 90.8 | 80 | 120 | | | |
| Toluene | 18 | 1.0 | 20.00 | 0 | 92.4 | 80 | 120 | | | |
| Ethylbenzene | 19 | 1.0 | 20.00 | 0 | 96.0 | 80 | 120 | | | |
| Xylenes, Total | 56 | 2.0 | 60.00 | 0 | 94.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 17 | | 20.00 | | 83.9 | 70 | 130 | | | |

| Sample ID: **2105A45-004amsd** | SampType: **MSD** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **MW-7** | Batch ID: **R77656** | RunNo: **77656** |
| Prep Date: | Analysis Date: **5/25/2021** | SeqNo: **2757119** Units: **µg/L** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 17 | 1.0 | 20.00 | 0 | 84.2 | 80 | 120 | 7.52 | 20 | |
| Toluene | 17 | 1.0 | 20.00 | 0 | 87.1 | 80 | 120 | 5.92 | 20 | |
| Ethylbenzene | 18 | 1.0 | 20.00 | 0 | 90.2 | 80 | 120 | 6.23 | 20 | |
| Xylenes, Total | 53 | 2.0 | 60.00 | 0 | 88.6 | 80 | 120 | 6.03 | 20 | |
| Surr: 4-Bromofluorobenzene | 16 | | 20.00 | | 80.4 | 70 | 130 | 0 | 0 | |

**Qualifiers:**

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*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: **2105A45** RcptNo: 1

Received By: **Juan Rojas** **5/25/2021 7:22:00 AM**

Completed By: **Cheyenne Cason** **5/25/2021 8:27:06 AM**

Reviewed By: SPA 5.25.21

## 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° 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: KPG 5/24/21

## 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 | 0.6 | Good | Yes | | | |

Released to Imaging: 5/10/2024 3:00:36 PM
Received by OCD: 3/31/2022 1:03:08 PM

# Chain-of-Custody Record

Client: Harvest Midstream

Mailing Address:

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☒ EDD (Type) PDF

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Florance 47X

Project #: TE090321003

Project Manager: Brooke Herb

Sampler: C. McGinn

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 0.5+0.2=0.6 (°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. 2105A45 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.24.21 | 1438 | Aq | MW-2 | 3VOA | HCl | 001 | X | | | | | | | | | |
| | 1326 | | MW-5 | | | 002 | X | | | | | | | | | |
| | 1248 | | MW-6 | | | 003 | X | | | | | | | | | |
| | 1203 | | MW-7 | | | 004 | X | | | | | | | | | |

| Date | Time | Relinquished by | Received by | Via | Date | Time |
|---|---|---|---|---|---|---|
| 5.24.21 | 1716 | Caitlin McGinn | Chad Wait | | 5/24/21 | 1716 |
| 5/24/21 | 1810 | Christian Walker | | Courier | 5/25/21 | 7:22 |

Remarks:
cc: Brooke.herb@wsp.com
eric.carroll@wsp.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.

JR 5/25/21

**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 94526

## CONDITIONS

| | |
|---|---|
| Operator:<br>Harvest Four Corners, LLC<br>1755 Arroyo Dr<br>Bloomfield, NM 87413 | OGRID:<br>373888 |
| | Action Number:<br>94526 |
| | Action Type:<br>[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| michael.buchanan | Review of the 2021 Annual Groundwater Report: Content Satisfactory 1. Continue to remove PSH in MW-3 with skimmer pump to reduce LNAPL plume 2. Continue to conduct quarterly groundwater sampling events 3. Conduct O&M as prescribed in report. 4. Submit the 2022 & 2023 Annual Report (if they haven't already been submitted). 5. Submit the 2024 Annual Groundwater Monitoring Report for the site by April 1, 2025. | 5/10/2024 |