

# 1Q 2020 SVE Report

**From:** [Smith, Cory, EMNRD](#)  
**To:** [Monica Smith](#)  
**Cc:** [Daniel Burns](#); "[Brooke Herb](#)"  
**Subject:** RE: Florance GCJ 16A - 1st Quarter 2020 Report  
**Date:** Wednesday, June 24, 2020 9:46:32 AM  
**Attachments:** [image003.png](#)  
[image005.png](#)  
[image007.png](#)

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Monica,

OCD approves the reduced sampling frequency requested in 1Q 2020 Report.

Please keep in mind that prior to approval of closure wells that had elevated samples above regulated concentration will need to have 8 consecutive quarters of clean samples to be considered for closure.

The quarterly report will be scanned into the online incident# NCS1629854256

Thank you,

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

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**From:** Brooke Herb <bherb@ltenv.com>  
**Sent:** Thursday, April 30, 2020 10:10 AM  
**To:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
**Cc:** Monica Smith <msmith@harvestmidstream.com>; Daniel Burns <dburns@ltenv.com>  
**Subject:** [EXT] Florance GCJ 16A - 1st Quarter 2020 Report

Cory,

Attached is the 1<sup>st</sup> quarter 2020 remediation update report for the Florance GC J16A.

As we discussed via email at the beginning of March, the runtime for Q1 was below 90% due to repairs needed on the liquids transfer pump in January and one of the blowers breaking down. The transfer pump was repaired in late January and the system has been running since with some shutdowns to deal with the blower and the sampling events. We expect to meet 90% runtime in the 2<sup>nd</sup> quarter.

Thank you,  
Brooke



Brooke Herb  
Project Geologist/ Four Corners Office Manager  
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April 30, 2020

Mr. Cory Smith  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

**RE: Quarterly Remediation System Operation and Monitoring Report  
Florance Gas Com J No. 16A  
API # 30-045-21790  
Incident # NCS1629854256  
Remediation Permit Number 3RP-364  
Harvest Four Corners, LLC  
San Juan County, New Mexico**

Dear Mr. Smith:

The following report provides a quarterly summary of remediation system operation and monitoring (O&M) completed during the first quarter of 2020 at the Florance Gas Com J No. 16A (GC J#16A) (Site) (Remediation Permit Number 3RP-364, Incident Number NCS1629854256) located in San Juan County, New Mexico. The activity included in this report is for the period from December 18, 2019 through March 20, 2020. The report was prepared by LT Environmental, Inc. (LTE) on behalf of Harvest Four Corners, LLC (Harvest). Harvest assumed operation of the assets associated with the location from Williams Four Corners LLC (Williams) on October 1, 2018 and is continuing site remediation activities.

The report is provided in accordance with the conditions of approval from the New Mexico Oil Conservation Division (NMOCD) pertaining to the multi-phase extraction (MPE) remediation system described in the *Remedial Assessment Report* submitted by Aptim Environmental & Infrastructure, Inc. in November 2017. Per the requirements, this report includes the following:

- A summary of remediation activities during the quarter;
- The system run time summary (90% run time required);
- The petroleum mass removal and fluid product recovery from the remediation system;
- Amount of liquid captured from the concrete trap/secondary seep tank; and
- Quarterly gas sample analysis results.

As stated in the *2018 Annual Groundwater and Remediation Update Report* submitted in June 2019, the quarterly remediation summary reports also include the quarterly groundwater sampling events data and summaries.



## SYSTEM DESCRIPTION

The remediation system at the Site includes an MPE system which uses two high vacuum blowers to initiate vacuum in remediation wells connected to the blowers via subsurface conduits. The extracted air, petroleum vapors, and fluid enter a fluid/air separation tank. Air and petroleum vapors are passed through two extraction blowers and emitted out exhaust stacks. Separated fluid which includes light non-aqueous phase liquids (LNAPL) and groundwater is pumped to an above ground storage tank for storage and offsite disposal. Operation of the remediation wells is cycled through four zones, with four to six remediation wells per zone. The system layout is depicted on Figure 1. A report summarizing remediation system operation for the previous quarters of system operation have been submitted to the NMOCD by Harvest and Williams.

## REMEDIATION SYSTEM OPERATION AND MONITORING

Routine bi-weekly system monitoring has been conducted from system startup through the first quarter 2020. The results of these efforts are summarized in tables attached to this report including the following information through the final site visit for the quarter conducted on March 20, 2020.

### Vapor Recovery

- The run time for the remediation system listed in Table 1 indicates an average run time for the first quarter of 74 percent (%), with a cumulative overall run time of 88%. Temporary system operation interruptions occurred due to routine maintenance requirements, monthly LNAPL gauging, and groundwater sampling activities. One of the two high vacuum blowers seized up and required several days of system down time to diagnose, contributing to the decreased quarterly run time. The blower has been removed and returned to the manufacturer for repair. The maintenance issue has been addressed and average run time is expected to return to above 90% in the next quarter using the remaining functional blower.
- Air/vapor samples from the MPE system inlet piping were collected following cycling of different extraction well zones, typically one sample per zone per quarter. Three samples were collected during this reporting period. Samples were collected using a high vacuum sampling pump to fill a 1-Liter Tedlar® bag from the system inlet manifold and submitted for analysis for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method 8021B, and total petroleum hydrocarbons (TPH) by EPA Method 8015D, to Hall Environmental Analysis Laboratory (Hall) of Albuquerque, New Mexico. The analytical results from the first quarter of 2020 are summarized in Table 2. Copies of the laboratory analytical reports for the vapor samples are provided in Attachment 1.

- The calculated mass removal rate based on field and analytical results is provided in Table 3. Results indicate that since startup, the system has removed 2,558 pounds (lbs.) of regulated VOCs. In the first quarter 2020, the calculated mass removal rate based on VOC data varied from 0.031 lbs. per day to 0.888 lbs. per day. A total of 71 lbs. of regulated VOCs were removed during the first quarter of 2020 through March 20, 2020.

### **Fluid Recovery**

- Fluid recovery efforts are summarized in Table 4. During the first quarter of 2020 total fluid recovery was measured using a flow metering device. Since startup of the system through March 20, 2020, approximately 164,164 gallons of impacted groundwater and free product have been recovered. Recovered product and groundwater are mixed during extraction and as a result the product volume within the recovery tank is not measurable, therefore, the estimated volume of product recovered has been removed from Table 4. The recovered liquids are thoroughly emulsified, and a measurable level of product is undetectable by an oil/water interface probe in the fluid recovery tank.
- Table 5 provides a summary of operational data for the SVE system including measurements of applied vacuum and measured flow rates for the individual recovery well lines for the first quarter of 2020. The specific zones and period of operation are indicated in this table.

### **CONCRETE TRAP/SECONDARY SEEP MONITORING**

During the first quarter of 2020, the collection sump associated with the seep areas and collection piping were examined for fluid recovery during scheduled O&M visits. No measurable phase separated hydrocarbons (PSH) were observed in the seep collection tank, but a sheen was observed on top of the fluids inside of the seep collection tank. Approximately 200 gallons of fluid are in the seep collection tank, likely a result from recent precipitation events and stormwater runoff in the concrete trap. Continued monitoring of the seep tank level will occur during bi-weekly site visits to observe if the fluid recovery levels increase.

### **GROUNDWATER MONITORING**

Groundwater monitoring activities were conducted at the Site on March 5 and 6, 2020. LTE measured groundwater elevations and investigated the presence of PSH in all monitoring wells. Groundwater samples were collected following the sampling schedule proposed in the fourth quarter 2019, Quarterly Remediation System Operation and Monitoring Report. Groundwater samples were not collected from monitoring wells where measurable PSH was detected.

### Water and PSH Level Measurements

Prior to collecting any groundwater measurements, the MPE system was shutdown 24 hours in advance to allow groundwater elevations to stabilize. Groundwater level monitoring included recording depth to groundwater and/or PSH in all existing monitoring wells with an oil/water interface probe. The interface probe was decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement. Groundwater elevations are summarized in Table 6.

### Groundwater Contour Maps

LTE used existing top-of-casing well elevations and measured groundwater elevations to draft groundwater elevation contours and determine groundwater flow direction in March 2020 (Figure 2). Contours were inferred based on groundwater elevations obtained and observations of physical characteristics at the Site (topography, proximity to springs, etc.).

### Groundwater Sampling

Groundwater samples were collected from monitoring wells that did not contain PSH. Groundwater samples were submitted under strict chain-of-custody protocol to Hall for analysis of BTEX by EPA Method 8021B. Groundwater samples were collected using the volume of water in the monitoring wells to calculate a minimum of three well casing volumes of groundwater and the calculated volume was purged from each well using a new disposable polyethylene bailer, or until the well was purged dry. LTE used a YSI 556 hand-held multi-probe water quality field meter to record pH, electric conductivity (EC), and temperature of the groundwater during purging. Monitoring wells were purged until these properties stabilized, or until the well was purged dry.

### Results

Groundwater elevations measured during the monitoring event in March 2020 indicated a general southeast trending gradient toward the natural seeps and an unnamed, second-order tributary of the San Juan River. However, localized topography and geology, including previously excavated and backfill material may contribute to variations in groundwater elevations and flow. Figure 2 depicts groundwater elevations and estimated groundwater flow direction. Figure 3 depicts groundwater analytical results and PSH thickness for the March 2020 monitoring events. A summary of measured depths to groundwater and PSH thickness is presented in Table 6. During the first quarter 2020 monitoring event, PSH was measurable in four monitoring wells and PSH was observed in one additional monitoring wells during purging. Measurable product thickness ranged from 0.02 feet in SB09 to 0.33 feet in SB01.

A total of 16 groundwater samples were collected from the following monitoring wells: SB03, SB13, SB19, MW-4, MW-6, MW-9, MW-10, MW-13, MW-15, MW-18, MW-20, MW-21, MW-22, MW-23, MW-24, and MW-25. Results for monitoring wells SB13, MW-4, MW-6, MW-9, MW-14,

MW-18, MW-20, MW-21, MW-22, MW-23, MW-24 and MW-25 did not exceed the NMWQQC standards for any constituent of BETX during the March 2020 sampling event. Benzene concentrations exceeding the NMWQQC standards ranged from 41 micrograms per liter ( $\mu\text{g/L}$ ) in SB03 to 8,200  $\mu\text{g/L}$  in MW-15. Toluene concentrations of 9,900 and 2,800  $\mu\text{g/L}$  in MW-15 and SB19 exceeded the NMWQQC standard. An ethylbenzene concentration of 750  $\mu\text{g/L}$  in MW-15 exceed the NMWQQC standard. Total xylene concentrations exceeding the NMWQQC standards ranged from 700  $\mu\text{g/L}$  in MW-13 to 8,700  $\mu\text{g/L}$  in MW-15.

Table 7 summarizes groundwater analytical results and Figure 3 depicts groundwater analytical results for the March 2020 monitoring events. Laboratory analytical reports are included as Attachment 1.

## PLAN FOR NEXT QUARTER OF OPERATION

### System Operation

Operation of the remediation system will continue with the goal of optimizing vapor and liquid recovery. Remediation system operation indicates a decline in VOC concentrations for each zone sampled, as expected with this type of system. Based on these data, the frequency for air emission VOC sampling will remain the same in the second quarter of 2020. Sampling will continue to comply with the NMOCD Conditions of Approval.

During the second quarter of 2020, the following will be completed:

- Bi-weekly (every other week) system operation monitoring including cycling operations between the four zones;
- During bi-weekly O&M visits, temporary operation of wells where LNAPL has been observed will occur for approximately one hour, then the zone of operation will be changed;
- Periodic fluid elevation monitoring in selected remediation wells to evaluate the presence or absence of LNAPL;
- LNAPL will be bailed out of MW-19 during site visits and free product recovery socks will be placed in the well in the interim;
- One influent air extraction sample per operational zone, per quarter will be analyzed for BTEX and TPH; and
- When influent air extraction samples are not collected, a photoionization detector (PID) will be used to measure MPE air/vapor exhaust concentrations.

### Groundwater Monitoring

A groundwater monitoring event will be conducted on a quarterly basis and periodic fluid elevation measurements will be obtained throughout the quarter.

The results of the fluid elevation measurements are reviewed, and system operational adjustments made based on these data. Groundwater monitoring results will be provided in the upcoming second quarter 2020 report.

LTE recommends the following reduced groundwater monitoring schedule with the semi-annual events scheduled for second and fourth quarters and annual events during the fourth quarter:

- Reduce to annual sampling: SB04, SB15, SB16, MW-4, MW-8, MW-11, MW-14, and MW-17;
- Reduce to semi-annual sampling: SB19, MW-18, MW-22, and MW-24.

### Reporting

Quarterly system operation reports will continue to be prepared and submitted to NMOCD within 30 days following the end of each quarter and will continue to include:

- A summary of remediation activities during the quarter;
- The system run time summary;
- The petroleum mass removal and fluid product recovery from the remediation system;
- DPE volume removal and product recovery;
- Amount of liquid captured from the concrete trap/secondary seep tank; and
- Quarterly gas sample analysis results.
- Groundwater monitoring results.

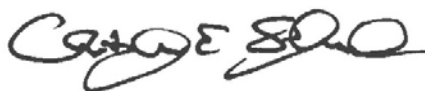
Please contact Danny Burns with LTE at 970-385-1096 or Monica Smith (Harvest) at 505-632-4625 if you have any questions or concerns.

Sincerely,

LT ENVIRONMENTAL, INC.



Daniel Burns  
Project Geologist



Chris Shepard  
Chief Engineer

cc: Monica Smith, Harvest Four Corners, LLC

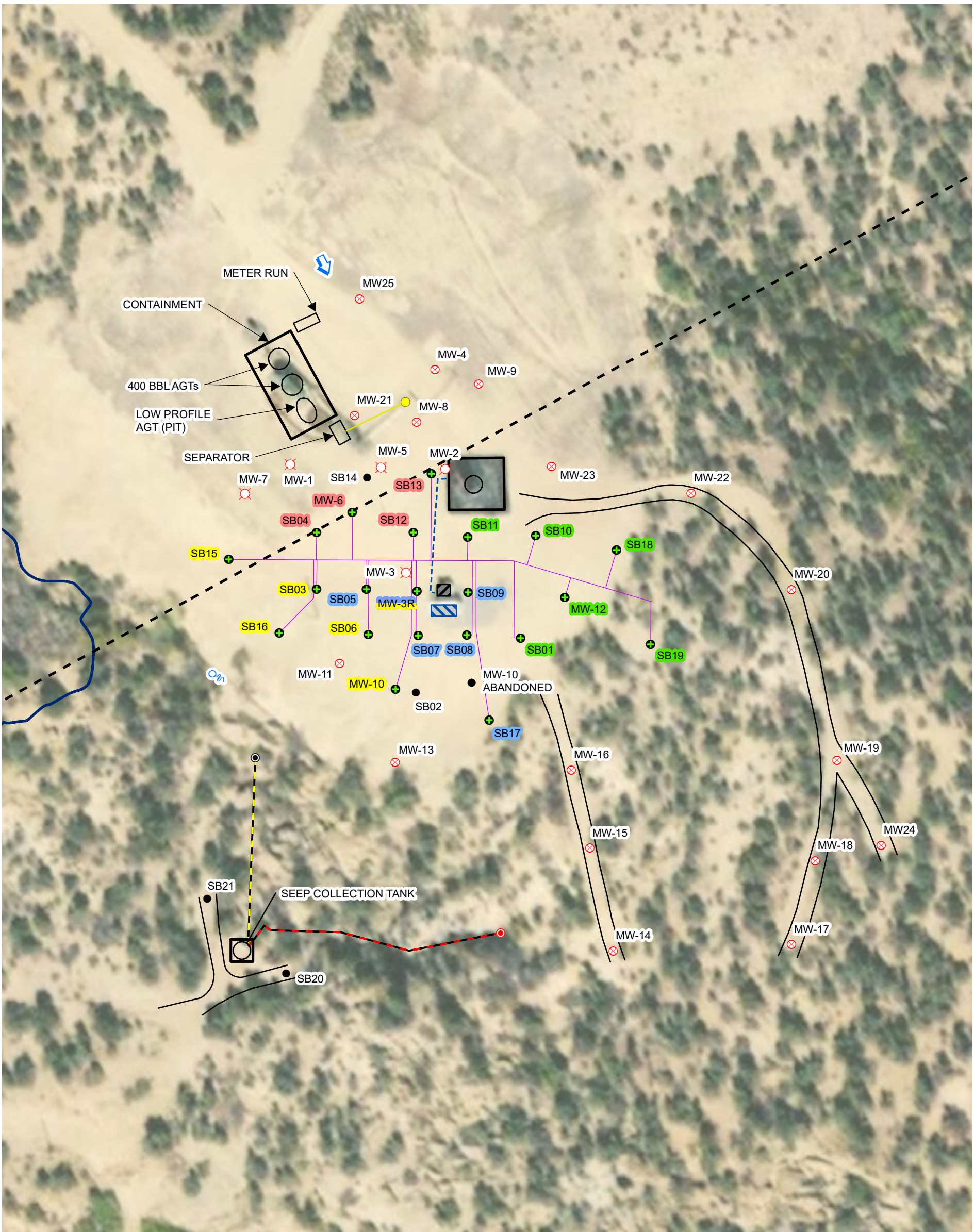
Attachments:

Figure 1	Remediation System Well Layout
Figure 2	March 2020 Groundwater Potentiometric Map
Figure 3	March 2020 Groundwater Analytical Results
Table 1	Remediation System Operational Run Time
Table 2	Extracted Air VOC Data – First Quarter 2020
Table 3	Mass Removal Vapor Phase – First Quarter 2020
Table 4	Fluid Recovery – First Quarter 2020
Table 5	MPE System Operations – First Quarter 2020
Table 6	Groundwater Elevation Summary
Table 7	Groundwater Analytical Results

Attachment 1 Laboratory Analytical Reports







LEGEND

- |                                      |   |
|--------------------------------------|---|
| NATURAL SPRING                       | UNDER GROUND LINE                           |
| EAST SEEP PIPE INLET                 | REMEDIATION SYSTEM PIPING                   |
| WEST SEEP PIPE INLET                 | REMEDIATION RESPONSIBILITY DEMARCATION LINE |
| MONITORING WELL                      | ACCESS ROAD                                 |
| DESTROYED MONITORING WELL            | ARCH SITE BOUNDARY                          |
| REMEDIATION/MONITORING WELL          | CONTROL BUILDING                            |
| SOIL BORING                          | MPE SYSTEM                                  |
| WELLHEAD                             | BERM  |
| ESTIMATED GROUNDWATER FLOW DIRECTION | RED TEXT INDICATES ZONE 01                  |
| FLOWLINE                             | GREEN TEXT INDICATES ZONE 02                |
| EAST SEEP PIPE                       | YELLOW TEXT INDICATES ZONE 03               |
| WEST SEEP PIPE                       | BLUE TEXT INDICATES ZONE 04                 |

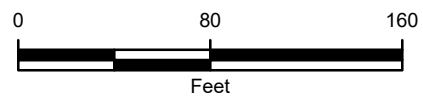


FIGURE 1  
REMEDATION SYSTEM LAYOUT  
FLORANCE GC J#16A  
UNIT P SEC 6 T30N R9W  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC





WELL ID  
GROUNDWATER ELEVATION SURVEY DATE  
ELEV: GROUNDWATER ELEVATION MEASURED IN FEET  
ABOVE MEAN SEA LEVEL  
PSH: PHASE-SEPARATED HYDROCARBON THICKNESS  
MEASURED IN FEET  
NM: NOT MEASURED  
NP: NO PRODUCT

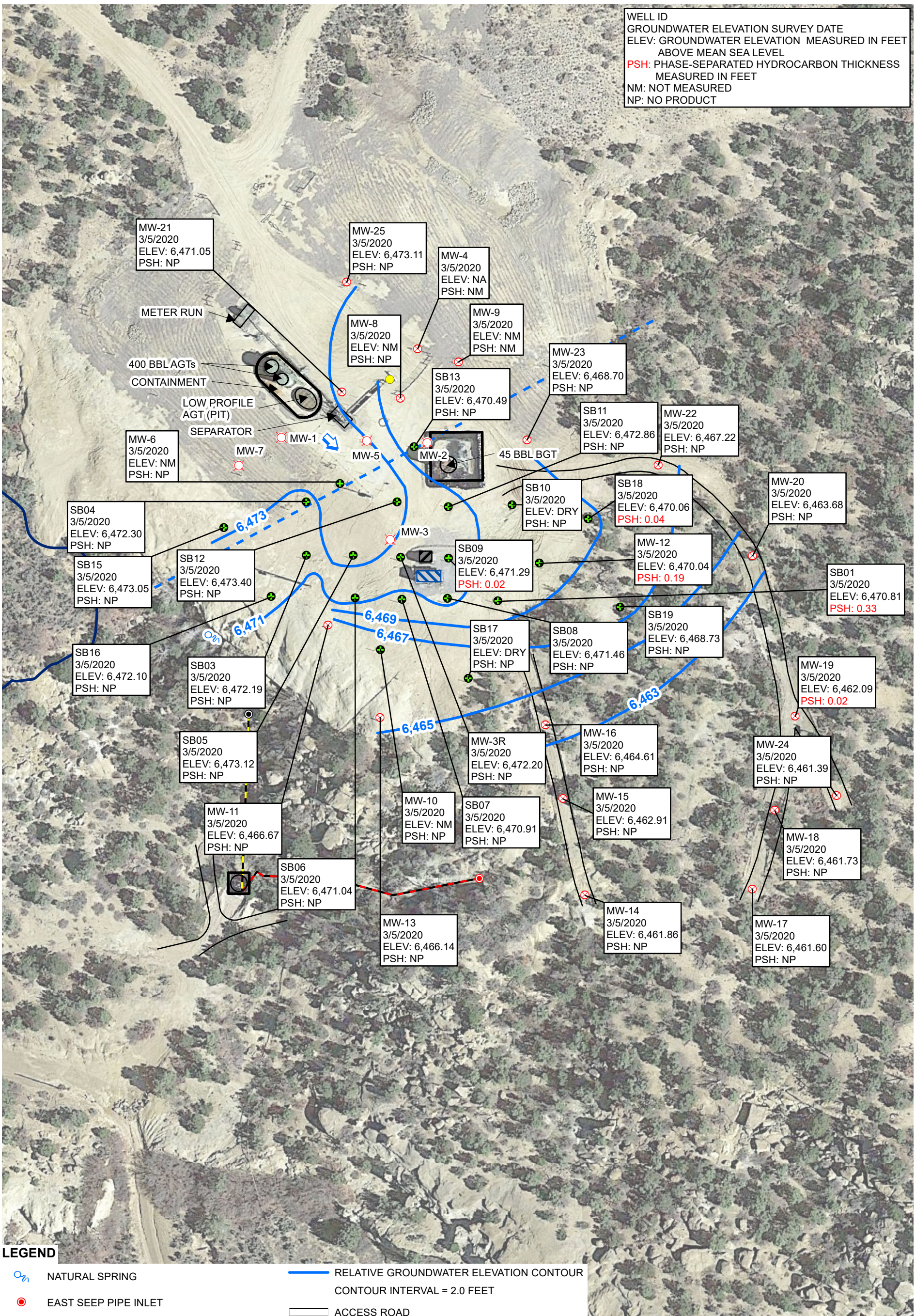


IMAGE COURTESY OF GOOGLE EARTH 2019

LEGEND

- |  |                                      |  |   |
|--|--------------------------------------|--|---|
|  | NATURAL SPRING                       |  | RELATIVE GROUNDWATER ELEVATION CONTOUR<br>CONTOUR INTERVAL = 2.0 FEET |
|  | EAST SEEP PIPE INLET                 |  | ACCESS ROAD   |
|  | WEST SEEP PIPE INLET                 |  | EAST SEEP PIPE  |
|  | MONITORING WELL                      |  | WEST SEEP PIPE  |
|  | DESTROYED MONITORING WELL            |  | WILLIAMS BP BOUNDARY  |
|  | REMEDIAION/MONITORING WELL           |  | ARCH SITE BOUNDARY  |
|  | WELLHEAD                             |  | CONTROL BUILDING  |
|  | ESTIMATED GROUNDWATER FLOW DIRECTION |  | MPE SYSTEM  |

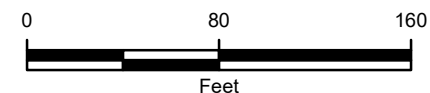
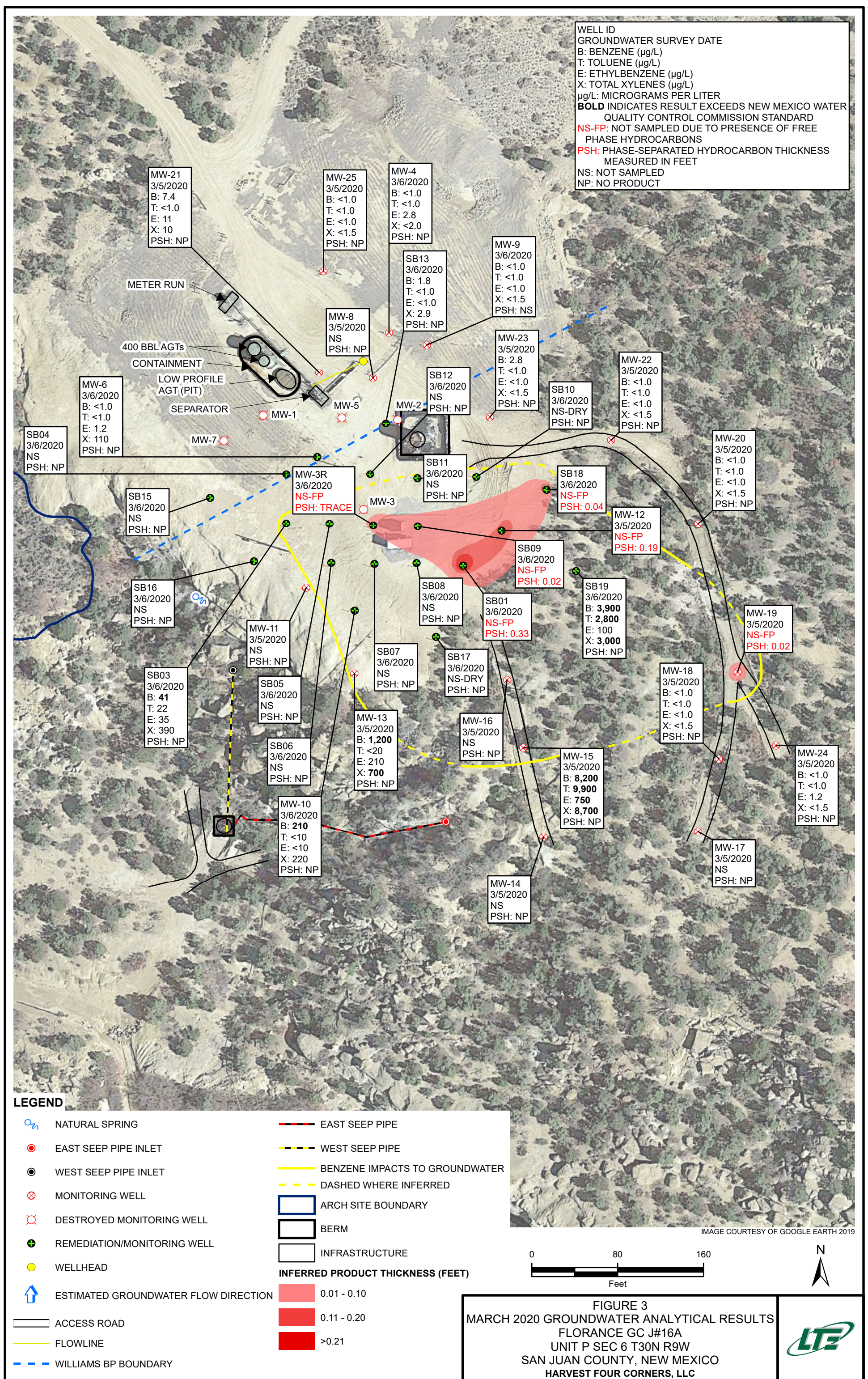


FIGURE 2  
MARCH 2020 GROUNDWATER POTENTIOMETRIC MAP  
FLORANCE GC J#16A  
UNIT P SEC 6 T30N R9W  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC











**TABLE 1  
REMEDATION SYSTEMS OPERATIONAL RUN-TIME**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

Date/Time of Reading	Blower Hour Meter Reading	Cumulative Run Time (%)	Quarterly Run Time (%)	Notes
5/4/18 9:00	42	START UP		
Earlier Data Provided in Previous Quarterly Reports				
7/12/2019 10:40	9,732	93%	100%	Start of Q3, 2019
8/2/2019 10:15	10,236	93%	100%	Monthly Gauging
8/16/2019 10:15	10,572	94%	100%	
8/29/2019 11:15	10,884	94%	100%	Monthly Gauging
9/20/2019 13:45	11,347	93%	97%	Quarterly GW Monitoring for Q3 2019
10/2/2019 13:00	11,614	93%	100%	Blower oil changed, required quarterly O&M
10/31/2019 11:10	12,179	93%	82%	Shutdown system for depth to product/water gauging
11/14/2019 12:45	12,281	91%	66%	One blower shut down, system down diagnosis and potential repair options
11/22/2019 11:05	12,452	91%	69%	Shutdown system for depth to product/water gauging
12/6/2019 13:15	12,544	90%	61%	Quarterly GW Monitoring Q4 2019
12/18/2019 12:00	12,799	90%	65%	Shutdown system, prepare blower for removal for repair.
1/15/2020 13:30	13,058	87%	22%	Blower removed for repair.
2/10/2020 10:30	13,559	87%	59%	Montly gauguing
2/28/2020 10:45	13,991	87%	72%	Seep collection tank 15" full
3/6/2020 0:00	14,123	87%	73%	Quarterly groundwater sampling
3/20/2020 11:00	14,459	88%	77%	Oil added to B-702
Average Q1 2020 Run Time			74%	

**Notes:**

% - percent

Dashed line indicates quarter change

**TABLE 2**  
**EXTRACTED AIR VOC DATA - FIRST QUARTER 2020**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

	Collection Date:	2/10/2020	2/28/2020	3/20/2020
	Collection Time:	13:30	13:15	13:30
	Active Remediation Zone:	2	3	4
Benzene (µg/L)		7.0	0.2	1.7
Toluene (µg/L)		18	0.43	3.2
Ethylbenzene (µg/L)		<0.50	<0.20	<0.50
Xylenes, Total (µg/L)		18	0.75	13
Gasoline Range Organics (GRO) (µg/L)		3,500	240	1,700
Total VOCs (µg/L):		43.0	1.38	17.9
PID Reading (ppm)		370	259	386

**Note:**

GRO - gasoline range organics  
µg/L - micrograms per liter  
ppm - parts per million  
PID - photo-ionization detector  
VOCs - volatile organic compounds

**TABLE 3**  
**MASS REMOVAL VAPOR PHASE - FIRST QUARTER 2020**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Date/Time	Influent VOCs (mg/m <sup>3</sup> )	Active Remediation Zone	Air Flow Rate (scfm)	Time Period (hr:min:sec)	Time Period (min)	VOC Mass Removed (lbs)	Gal Removed (@0.755 g/cm <sup>3</sup> )	Mass Removal Rate (lbs/day)	Mass Removal Rate (ton/yr)
12/6/19 13:20	30.0	4	306	527:15:00	20,150	2.3	0.4	0.200	0.037
2/10/20 13:30	43.0	2	230	1584:10:00	95,050	54.4	8.6	0.824	0.150
2/28/20 13:15	1.38	3	254	431:45:00	25,905	16.0	2.5	0.888	0.162
3/20/20 13:30	17.9	4	294	504:15:00	30,255	0.7	0.1	0.031	0.006
<b>Total Quantity of Hydrocarbon VOC Removed 1st Quarter 2020</b>						71 lbs	11.3 gal	0.3 bbl	
<b>Total Quantity of Hydrocarbon VOC Removed Since Start-up May 2018</b>						2,558 lbs	496.2 gal	11.8 bbl	

**Notes:**

bbl - barrel

gal - gallons

g/cm<sup>3</sup> - grams per cubic centimeter

hr - hour

lbs - pounds

lbs/day - pounds per day

mg/m<sup>3</sup> - milligrams per cubic meter

min - minute

scfm - standard cubic foot per minute

sec - second

ton/yr - ton per year

VOCs - volatile organic compounds

yr - year

Dashed line indicates a quarter change

**TABLE 4  
FLUID RECOVERY - FIRST QUARTER 2020**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

Date/Time	Hour Meter Reading	Flow Meter Reading (gal)	Gallons Recovered this Period	Cumulative Volume Recovered (gal)	Gallons Removed From Tank (Off-Site)	Time Period (hr:min:sec)	Time Period (min)	Recovery Rate		Notes
								(gpm)	(gal/day)	
12/6/19 13:15	12,544	111,409	1,323	138,709		338:10:00	20,290	0.07	94	
1/15/20 13:30	13,058	114,136	2,727	141,436	3,360	960:15:00	57,615	0.05	68	1 load removed
2/10/20 11:20	13,559	123,366	9,230	150,666	6,720	621:50:00	37,310	0.25	356	2 loads removed
2/28/20 10:45	13,991	131,355	7,989	158,655	6,720	431:25:00	25,885	0.31	444	2 loads removed
3/20/20 11:00	14,459	136,864	5,509	164,164		504:15:00	30,255	0.18	262	

**Notes:**

bbl - barrel

in - inch

ft - feet

LNAPL - light non-aqueous phase liquid

gal - gallon

min - minute

gal/day - gallon per day

sec - second

gpm - gallon per minute

Dashed line indicated quarter change

hr - hour

<b>Total Quantity of Groundwater Removed:</b>	164,164 Gal
	3,909 bbl

**TABLE 5**  
**MPE SYSTEM OPERATIONS - FIRST QUARTER 2020**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well ID		Unit	1/16/2020	2/10/2020	2/28/2020	3/20/2020
Active Zone			1	2	3	4
MW-06	WH Vac (Online)	inHg	10.5			
Zone 1	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	17.5			
	PID	ppm	68.0			
	Flow	scfm	32.0			
SB-04	WH Vac (Online)	inHg	14.0			
Zone 1	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	17.0			
	PID	ppm	86.0			
	Flow	scfm	50.0			
SB-12	WH Vac (Online)	inHg	13.0			
Zone 1	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	16.5			
	PID	ppm	112.0			
	Flow	scfm	40.0			
SB-13	WH Vac (Online)	inHg	16.0			
Zone 1	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	17.0			
	PID	ppm	47.1			
	Flow	scfm	54.0			



**TABLE 5**  
**MPE SYSTEM OPERATIONS - FIRST QUARTER 2020**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well ID		Unit	1/16/2020	2/10/2020	2/28/2020	3/20/2020
Active Zone			1	2	3	4
MW-12	WH Vac (Online)	inHg		12.5		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		13.0		
	PID	ppm		417.0		
	Flow	scfm		35.0		
SB-01	WH Vac (Online)	inHg		15.0		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		13.0		
	PID	ppm		1,606		
	Flow	scfm		35.0		
SB-10	WH Vac (Online)	inHg		10.0		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		13.0		
	PID	ppm		285.0		
	Flow	scfm		35.0		
SB-11	WH Vac (Online)	inHg		13.0		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		9.0.		
	PID	ppm		68.5		
	Flow	scfm		50.0		
SB-18	WH Vac (Online)	inHg		3.5		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		15.0		
	PID	ppm		479.0		
	Flow	scfm		25.0		
SB-19	WH Vac (Online)	inHg		10.0		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		13.0		
	PID	ppm		161.0		
	Flow	scfm		50.0		

**TABLE 5**  
**MPE SYSTEM OPERATIONS - FIRST QUARTER 2020**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well ID	Unit	1/16/2020	2/10/2020	2/28/2020	3/20/2020
Active Zone		1	2	3	4
MW-3R	WH Vac (Online)			12.5	
Zone 3	WH Vac (Offline)				
	Mani Vac			13.0	
	PID			77.8	
	Flow			60.0	
MW-10	WH Vac (Online)			12.5	
Zone 3	WH Vac (Offline)				
	Mani Vac			13.0	
	PID			20.1	
	Flow			20.0	
SB-03	WH Vac (Online)			14.0	
Zone 3	WH Vac (Offline)				
	Mani Vac			13.0	
	PID			82.0	
	Flow			30.0	
SB-06	WH Vac (Online)			9.5	
Zone 3	WH Vac (Offline)				
	Mani Vac			11.0	
	PID			34.0	
	Flow			38.0	
SB-15	WH Vac (Online)			10.0	
Zone 3	WH Vac (Offline)				
	Mani Vac			13.0	
	PID			64.0	
	Flow			54.0	
SB-16	WH Vac (Online)			12.0	
Zone 3	WH Vac (Offline)				
	Mani Vac			13.5	
	PID			20.0	
	Flow			52.0	

**TABLE 5**  
**MPE SYSTEM OPERATIONS - FIRST QUARTER 2020**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well ID		Unit	1/16/2020	2/10/2020	2/28/2020	3/20/2020
Active Zone			1	2	3	4
MW-3R	WH Vac (Online)	inHg				12.0
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				12.5
	PID	ppm				112.0
	Flow	scfm				60.0
SB-05	WH Vac (Online)	inHg				9.5
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				12.5
	PID	ppm				25.9
	Flow	scfm				44.0
SB-07	WH Vac (Online)	inHg				10.0
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				10.0
	PID	ppm				98.5
	Flow	scfm				38.0
SB-08	WH Vac (Online)	inHg				10.0
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				12.5
	PID	ppm				93.9
	Flow	scfm				52.0
SB-09	WH Vac (Online)	inHg				12.5
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				13.0
	PID	ppm				297.0
	Flow	scfm				64.0
SB-17	WH Vac (Online)	inHg				11.0
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				12.5
	PID	ppm				21.6
	Flow	scfm				36.0

**TABLE 5**  
**MPE SYSTEM OPERATIONS - FIRST QUARTER 2020**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well ID	Unit	1/16/2020	2/10/2020	2/28/2020	3/20/2020
Active Zone		1	2	3	4
Well Field					
Total Flow in Active Zone	scfm	176.0	230.0	254.0	294.0

**Notes:**

in HG - inches of mercury

inH<sub>2</sub>O - inches of water

Mani Vac - vacuum gauge reading on remediation well manifold

PID - photoionization detector

ppm - parts per million

scfm - standard cubic feet per minute

% - percent

WH Vac - vacuum gauge reading on remediation well head

\*\*\* The flow sensor at the MS Inlet and for the dilution flow do not account for the density of the air or the water entrained, and are anticipated to read low.

**TABLE 6  
GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

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)
SB01	5/20/2017	6,501.96	34.58	NP	NP	6,467.38
	6/14/2017		34.53	NP	NP	6,467.43
	6/22/2018		31.12	31.09	0.03	6,470.87
	9/17/2018		31.58	31.34	0.24	6,470.58
	12/20/2018		31.61	31.54	0.07	6,470.41
	4/8/2019		22.76	22.31	0.45	6,479.56
	6/13/2019		31.32	30.95	0.37	6,470.94
	9/19/2019		30.85	30.73	0.12	6,471.21
	12/5/2019		31.32	31.11	0.21	6,470.81
	3/5/2020		31.42	31.09	0.33	6,470.81
SB03	5/20/2017	6,495.01	24.90	NP	NP	6,470.11
	6/15/2017		24.86	NP	NP	6,470.15
	6/21/2018		23.21	22.88	0.33	6,472.06
	9/17/2018		23.34	23.19	0.15	6,471.79
	12/20/2018		23.28	NP	NP	6,471.73
	4/8/2019		23.28	23.17	0.11	6,471.81
	6/13/2019		22.42	NP	NP	6,472.59
	9/19/2019		22.49	NP	NP	6,472.52
	12/5/2019		22.15	NP	NP	6,472.86
	3/5/2020		22.82	NP	NP	6,472.19
SB04	5/20/2017	6,499.61	29.82	29.17	0.65	6,470.31
	6/15/2017		29.44	29.20	0.24	6,470.36
	6/21/2018		27.62	27.58	0.04	6,472.02
	9/17/2018		27.83	NP	NP	6,471.78
	12/20/2018		27.75	NP	NP	6,471.86
	4/8/2019		27.81	NP	NP	6,471.80
	6/13/2019		26.98	NP	NP	6,472.63
	9/19/2019		26.75	NP	NP	6,472.86
	12/5/2019		26.62	NP	NP	6,472.99
	3/5/2020		27.31	NP	NP	6,472.30
SB05	5/20/2017	6,498.76	28.27	NP	NP	6,470.49
	6/15/2017		28.24	NP	NP	6,470.52



**TABLE 6  
GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

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)
SB05	6/21/2018	6,498.76	25.47	NP	NP	6,473.29
	9/17/2018		25.65	NP	NP	6,473.11
	12/20/2018		25.05	NP	NP	6,473.71
	4/8/2019		25.52	25.46	0.06	6,473.29
	6/13/2019		24.10	NP	NP	6,474.66
	9/19/2019		24.38	NP	NP	6,474.38
	12/5/2019		24.53	NP	NP	6,474.23
	3/5/2020		25.64	NP	NP	6,473.12
SB06	5/20/2017	6,496.12	27.43	NP	NP	6,468.69
	6/16/2017		27.52	NP	NP	6,468.60
	6/22/2018		24.64	NP	NP	6,471.48
	9/17/2018		25.29	25.13	0.16	6,470.95
	12/20/2018		25.16	NP	NP	6,470.96
	4/8/2019		24.81	NP	NP	6,471.31
	6/13/2019		23.81	NP	NP	6,472.31
	9/19/2019		23.98	NP	NP	6,472.14
	12/5/2019		24.26	NP	NP	6,471.86
	3/5/2020		25.08	NP	NP	6,471.04
SB07	5/20/2017	6,500.29	32.15	NP	NP	6,468.14
	6/16/2017		32.20	NP	NP	6,468.09
	6/22/2018		29.44	NP	NP	6,470.85
	9/17/2018		30.73	NP	NP	6,469.56
	12/20/2018		29.62	29.60	0.02	6,470.69
	4/8/2019		32.46	32.24	0.22	6,468.01
	6/13/2019		29.27	NP	NP	6,471.02
	9/19/2019		29.01	NP	NP	6,471.28
	12/5/2019		29.27	NP	NP	6,471.02
	3/5/2020		29.38	NP	NP	6,470.91
SB08	5/20/2017	6,502.25	34.41	NP	NP	6,467.84
	6/16/2017		34.38	NP	NP	6,467.87
	6/22/2018		30.78	NP	NP	6,471.47

**TABLE 6  
GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

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)
SB08	9/17/2018	6,502.25	31.20	NP	NP	6,471.05
	12/20/2018		29.98	NP	NP	6,472.27
	4/8/2019		31.26	31.17	0.09	6,471.06
	6/13/2019		30.53	30.49	0.04	6,471.75
	9/19/2019		30.51	30.04	0.47	6,472.12
	12/5/2019		30.73	30.04	0.69	6,472.07
	3/5/2020		30.79	NP	NP	6,471.46
SB09	5/20/2017	6,504.18	36.31	NP	NP	6,467.87
	6/16/2017		36.29	NP	NP	6,467.89
	6/22/2018		33.00	32.83	0.17	6,471.31
	9/17/2018		33.15	33.14	0.01	6,471.04
	12/20/2018		33.09	33.08	0.01	6,471.10
	4/8/2019		32.46	32.24	0.22	6,471.89
	6/13/2019		32.79	32.71	0.08	6,471.45
	9/19/2019		32.66	32.54	0.12	6,471.61
	12/5/2019		32.91	32.83	0.08	6,471.33
	3/5/2020		32.90	32.88	0.02	6,471.29
SB10	5/20/2017	6,506.04	39.27	NP	NP	6,466.77
	6/16/2017		39.11	NP	NP	6,466.93
	6/21/2018		DRY	NP	NP	DRY
	9/17/2018		DRY	NP	NP	DRY
	12/20/2018		DRY	NP	NP	DRY
	4/8/2019		DRY	NP	NP	DRY
	6/13/2019		DRY	NP	NP	DRY
	9/19/2019		DRY	NP	NP	DRY
	12/5/2019		DRY	NP	NP	DRY
	3/5/2020		DRY	NP	NP	DRY
SB11	5/20/2017	6,505.61	36.15	NP	NP	6,469.46
	6/16/2017		36.09	NP	NP	6,469.52
	6/22/2018		32.17	NP	NP	6,473.44
	9/17/2018		32.49	NP	NP	6,473.12

**TABLE 6  
GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

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)
SB11	12/20/2018	6,505.61	32.48	NP	NP	6,473.13
	4/8/2019		32.48	NP	NP	6,473.13
	6/13/2019		32.11	NP	NP	6,473.50
	9/19/2019		31.73	NP	NP	6,473.88
	12/5/2019		31.82	NP	NP	6,473.79
	3/5/2020		32.75	NP	NP	6,472.86
SB12	5/20/2017	6,508.42	38.84	38.62	0.22	6,469.76
	6/16/2017		39.44	38.42	1.02	6,469.80
	6/21/2018		35.19	34.96	0.23	6,473.41
	9/17/2018		35.55	35.50	0.05	6,472.91
	12/20/2018		35.45	35.32	0.13	6,473.07
	4/8/2019		DRY	NP	NP	DRY
	6/13/2019		34.91	NP	NP	6,473.51
	9/19/2019		DRY	NP	NP	DRY
	12/5/2019		34.86	NP	NP	-34.86
	3/5/2020		35.02	NP	NP	6,473.40
SB13	5/20/2017	6,504.89	35.26	NP	NP	6,469.63
	6/16/2017		35.21	NP	NP	6,469.68
	6/22/2018		34.57	NP	NP	6,470.32
	9/17/2018		34.89	NP	NP	6,470.00
	12/20/2018		34.89	NP	NP	6,470.00
	4/8/2019		34.72	NP	NP	6,470.17
	6/13/2019		34.48	NP	NP	6,470.41
	9/19/2019		34.15	NP	NP	6,470.74
	12/5/2019		34.11	NP	NP	6,470.78
	3/5/2020		34.40	NP	NP	6,470.49
SB15	5/20/2017	6,494.31	24.11	NP	NP	6,470.20
	6/13/2017		24.08	NP	NP	6,470.23
	6/21/2018		21.27	NP	NP	6,473.04
	9/17/2018		DRY	NP	NP	DRY
	12/20/2018		21.75	NP	NP	6,472.56



**TABLE 6  
GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

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)
SB15	4/8/2019	6,494.31	21.52	NP	NP	6,472.79
	6/13/2019		20.57	NP	NP	6,473.74
	9/19/2019		20.78	NP	NP	6,473.53
	12/5/2019		20.67	NP	NP	6,473.64
	3/5/2020		21.26	NP	NP	6,473.05
SB16	5/20/2017	6,492.07	22.54	NP	NP	6,469.53
	6/13/2017		22.61	NP	NP	6,469.46
	6/22/2018		19.59	NP	NP	6,472.48
	9/17/2018		21.19	NP	NP	6,470.88
	12/20/2018		20.69	NP	NP	6,471.38
	4/8/2019		20.34	NP	NP	6,471.73
	6/13/2019		18.86	NP	NP	6,473.21
	9/19/2019		19.38	NP	NP	6,472.69
	12/5/2019		19.24	NP	NP	6,472.83
	3/5/2020		19.97	NP	NP	6,472.10
SB17	5/20/2017	6,492.57	24.91	NP	NP	6,467.66
	6/13/2017		24.90	NP	NP	6,467.67
	6/21/2018		DRY	NP	NP	DRY
	9/17/2018		DRY	NP	NP	DRY
	12/20/2018		DRY	NP	NP	DRY
	4/8/2019		DRY	NP	NP	DRY
	6/13/2019		DRY	NP	NP	DRY
	9/19/2019		DRY	NP	NP	DRY
	12/5/2019		DRY	NP	NP	DRY
	3/5/2020		DRY	NP	NP	DRY
SB18	5/20/2017	6,506.38	40.92	40.89	0.03	6,465.48
	6/15/2017		41.24	40.65	0.59	6,465.61
	6/22/2018		35.25	35.16	0.09	6,471.20
	9/17/2018		36.58	36.56	0.02	6,469.81
	12/20/2018		36.91	36.50	0.41	6,469.80
	4/8/2019		37.01	36.74	0.27	6,469.58

**TABLE 6  
GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

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)
SB18	6/13/2019	6,506.38	37.00	36.52	0.48	6,469.76
	9/19/2019		36.52	36.50	0.02	6,469.87
	12/5/2019		36.33	36.28	0.05	6,470.09
	3/5/2020		36.35	36.31	0.04	6,470.06
SB19	5/20/2017	6,503.99	39.54	NP	NP	6,464.45
	6/14/2017		39.44	NP	NP	6,464.55
	6/22/2018		34.88	NP	NP	6,469.11
	9/17/2018		36.10	NP	NP	6,467.89
	12/20/2018		35.29	NP	NP	6,468.70
	4/8/2019		35.04	NP	NP	6,468.95
	6/13/2019		35.23	NP	NP	6,468.76
	9/19/2019		36.53	NP	NP	6,467.46
	12/5/2019		34.94	NP	NP	6,469.05
	3/5/2020		35.26	NP	NP	6,468.73
MW-3R	5/20/2017	6,502.86	33.86	NP	NP	6,469.00
	6/16/2017		33.88	NP	NP	6,468.98
	6/21/2018		30.76	30.53	0.23	6,472.29
	9/17/2018		31.21	30.92	0.29	6,471.89
	12/20/2018		31.18	30.98	0.20	6,471.84
	4/8/2019		30.97	30.88	0.09	6,471.97
	6/13/2019		32.32	32.27	0.05	6,470.58
	9/19/2019		31.07	30.31	0.76	6,472.40
	12/5/2019		30.45	NP	NP	6,472.41
	3/5/2020		30.66	NP	NP	6,472.20
MW-4*	6/15/2017	--	32.67	NP	NP	--
	6/13/2019		32.76	NP	NP	--
	12/5/2019		33.21	NP	NP	--
	3/5/2020		33.07	NP	NP	--
MW-6*	6/15/2017	--	32.95	NP	NP	--
	6/22/2018		32.58	NP	NP	--
	9/17/2018		33.00	32.88	0.12	--

**TABLE 6  
GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

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*	12/20/2018	--	33.00	32.98	0.02	--
	4/8/2019		32.96	NP	NP	--
	6/13/2019		32.43	NP	NP	--
	9/19/2019		32.24	NP	NP	--
	12/5/2019		31.79	NP	NP	--
	3/5/2020		33.36	NP	NP	--
MW-8*	6/15/2017	--	34.78	NP	NP	--
	6/22/2018		35.51	NP	NP	--
	9/17/2018		35.78	NP	NP	--
	6/13/2019		35.36	NP	NP	--
	9/19/2019		34.96	NP	NP	--
	12/5/2019		34.79	NP	NP	--
	3/5/2020		35.16	NP	NP	--
MW-9*	6/15/2017	--	35.71	NP	NP	--
	6/13/2019		42.57	NP	NP	--
	12/5/2019		42.98	NP	NP	--
	3/5/2020		42.86	NP	NP	--
MW-10*	6/13/2017	--	24.45	NP	NP	--
	6/21/2018		25.62	NP	NP	--
	9/17/2019		22.90	NP	NP	--
	12/20/2018		22.13	NP	NP	--
	4/8/2019		22.79	NP	NP	--
	6/13/2019		22.00	NP	NP	--
	9/19/2019		22.06	NP	NP	--
	12/5/2019		22.30	NP	NP	--
	3/5/2020		22.53	NP	NP	--
MW-11	5/20/2017	6,492.85	24.66	NP	NP	6,468.19
	6/13/2017		24.72	NP	NP	6,468.13
	6/21/2018		26.25	NP	NP	6,466.60
	9/17/2018		26.71	NP	NP	6,466.14
	12/20/2018		26.83	NP	NP	6,466.02

**TABLE 6  
GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

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-11	4/8/2019	6,492.85	26.56	NP	NP	6,466.29
	6/13/2019		25.54	NP	NP	6,467.31
	9/19/2019		25.93	NP	NP	6,466.92
	12/5/2019		25.89	NP	NP	6,466.96
	3/5/2020		26.18	NP	NP	6,466.67
MW-12	5/20/2017	6,503.57	37.71	NP	NP	6,465.86
	6/14/2017		37.57	NP	NP	6,466.00
	6/22/2018		33.49	33.30	0.19	6,470.23
	9/17/2018		33.99	33.72	0.27	6,469.80
	12/20/2018		33.89	33.09	0.80	6,470.32
	4/8/2019		34.16	33.85	0.31	6,469.66
	6/13/2019		33.75	33.59	0.16	6,469.95
	9/19/2019		33.30	33.26	0.04	6,470.30
	12/5/2019		33.68	33.47	0.21	6,470.06
	3/5/2020		33.68	33.49	0.19	6,470.04
MW-13	5/20/2017	6,490.03	22.17	NP	NP	6,467.86
	6/13/2017		22.29	NP	NP	6,467.74
	6/21/2018		23.90	NP	NP	6,466.13
	9/17/2018		24.21	NP	NP	6,465.82
	12/20/2018		24.58	NP	NP	6,465.45
	4/8/2019		23.87	NP	NP	6,466.16
	6/13/2019		23.14	NP	NP	6,466.89
	9/19/2019		23.25	NP	NP	6,466.78
	12/5/2019		23.48	NP	NP	6,466.55
	3/5/2020		23.89	NP	NP	6,466.14
MW-14	5/20/2017	6,476.22	12.90	NP	NP	6,463.32
	6/14/2017		13.24	NP	NP	6,462.98
	6/21/2018		14.51	NP	NP	6,461.71
	9/17/2018		14.84	NP	NP	6,461.38
	12/20/2018		15.08	NP	NP	6,461.14
	9/19/2019		14.38	NP	NP	6,461.84

**TABLE 6  
GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

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-14	12/5/2019	6,476.22	14.56	NP	NP	6,461.66
	3/5/2020		14.36	NP	NP	6,461.86
MW-15	5/20/2017	6,478.37	14.58	NP	NP	6,463.79
	6/14/2017		14.59	NP	NP	6,463.78
	6/21/2018		15.21	NP	NP	6,463.16
	9/17/2018		15.45	NP	NP	6,462.92
	12/20/2018		15.65	NP	NP	6,462.72
	4/8/2019		15.02	15.04	0.02	6,463.36
	6/13/2019		15.01	NP	NP	6,463.36
	9/19/2019		15.17	NP	NP	6,463.20
	12/5/2019		15.37	15.35	0.02	6,463.01
	3/5/2020		15.46	NP	NP	6,462.91
MW-16	5/20/2017	6,487.57	21.99	NP	NP	6,465.58
	6/14/2017		22.69	NP	NP	6,464.88
	6/22/2018		22.71	NP	NP	6,464.86
	9/17/2018		23.09	NP	NP	6,464.48
	12/20/2018		DRY	NP	NP	DRY
	4/8/2019		DRY	NP	NP	DRY
	6/13/2019		DRY	NP	NP	DRY
	9/19/2019		23.08	NP	NP	6,464.49
	12/5/2019		23.14	NP	NP	6,464.43
	3/5/2020		22.96	NP	NP	6,464.61
MW-17	10/16/2017	6,483.30	25.23	NP	NP	6,458.07
	6/20/2018		22.58	NP	NP	6,460.72
	9/17/2018		21.54	NP	NP	6,461.76
	12/20/2018		22.78	NP	NP	6,460.52
	4/8/2019		21.97	NP	NP	6,461.33
	6/13/2019		21.61	NP	NP	6,461.69
	9/19/2019		21.43	NP	NP	6,461.87
	12/5/2019		21.51	NP	NP	6,461.79
	3/5/2019		21.70	NP	NP	6,461.60

**TABLE 6**  
**GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

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-18	10/16/2017	6,485.22	23.39	NP	NP	6,461.83
	6/20/2018		23.46	NP	NP	6,461.76
	9/17/2018		23.38	NP	NP	6,461.84
	12/20/2018		23.48	NP	NP	6,461.74
	4/8/2019		23.70	NP	NP	6,461.52
	6/13/2019		23.59	NP	NP	6,461.63
	9/19/2019		23.47	NP	NP	6,461.75
	12/5/2019		23.38	NP	NP	6,461.84
	3/5/2020		23.49	NP	NP	6,461.73
MW-19	10/16/2017	6,492.35	30.06	NP	NP	6,462.29
	6/20/2018		30.00	NP	NP	6,462.35
	9/17/2018		30.05	29.96	0.09	6,462.37
	12/20/2018		30.14	30.12	0.02	6,462.22
	4/8/2019		30.31	NP	NP	6,462.04
	6/13/2019		30.26	NP	NP	6,462.09
	9/19/2019		30.08	NP	NP	6,462.27
	12/5/2019		30.37	29.56	0.81	6,462.62
	3/5/2020		30.27	30.25	0.02	6,462.09
MW-20	10/16/2017	6,493.38	28.50	NP	NP	6,464.88
	6/20/2018		28.79	NP	NP	6,464.59
	9/17/2018		28.77	NP	NP	6,464.61
	12/20/2018		28.93	NP	NP	6,464.45
	4/8/2019		29.11	NP	NP	6,464.27
	6/13/2019		28.72	NP	NP	6,464.66
	9/19/2019		28.50	NP	NP	6,464.88
	12/5/2019		28.56	NP	NP	6,464.82
	3/5/2020		29.70	NP	NP	6,463.68
MW-21	10/16/2017	6,508.15	36.81	NP	NP	6,471.34
	6/22/2018		37.28	NP	NP	6,470.87
	9/17/2018		37.30	NP	NP	6,470.85
	12/20/2018		30.48	NP	NP	6,477.67

**TABLE 6  
GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

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-21	4/8/2019	6,508.15	37.31	NP	NP	6,470.84
	6/13/2019		36.79	NP	NP	6,471.36
	9/19/2019		36.69	NP	NP	6,471.46
	12/5/2019		36.74	NP	NP	6,471.41
	3/5/2020		37.10	NP	NP	6,471.05
MW-22	10/16/2017	6,497.15	29.67	NP	NP	6,467.48
	6/22/2018		30.01	NP	NP	6,467.14
	9/17/2018		30.19	NP	NP	6,466.96
	12/20/2018		30.46	NP	NP	6,466.69
	4/8/2019		29.98	NP	NP	6,467.17
	6/13/2019		29.58	NP	NP	6,467.57
	9/19/2019		29.74	NP	NP	6,467.41
	12/5/2019		29.75	NP	NP	6,467.40
	3/5/2020		29.93	NP	NP	6,467.22
MW-23	10/16/2017	6,505.95	36.80	NP	NP	6,469.15
	6/22/2018		37.35	NP	NP	6,468.60
	9/17/2018		37.58	NP	NP	6,468.37
	12/20/2018		37.75	NP	NP	6,468.20
	4/8/2019		37.35	NP	NP	6,468.60
	6/13/2019		37.37	NP	NP	6,468.58
	9/19/2019		36.95	NP	NP	6,469.00
	12/5/2019		36.92	NP	NP	6,469.03
	3/5/2020		37.25	NP	NP	6,468.70
MW-24	9/17/2018	6,490.71	29.19	NP	NP	6,461.52
	12/20/2018		29.28	NP	NP	6,461.43
	4/8/2019		29.44	NP	NP	6,461.27
	6/13/2019		29.44	NP	NP	6,461.27
	9/19/2019		29.33	NP	NP	6,461.38
	12/5/2019		28.78	NP	NP	6,461.93
	3/5/2020		29.32	NP	NP	6,461.39
MW-25	9/17/2018	6,507.65	34.61	NP	NP	6,473.04

**TABLE 6**  
**GROUNDWATER ELEVATION SUMMARY**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

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-25	12/20/2018	6,507.65	34.69	NP	NP	6,472.96
	4/8/2019		34.61	NP	NP	6,473.04
	6/13/2019		34.40	NP	NP	6,473.25
	9/19/2019		34.38	NP	NP	6,473.27
	12/5/2019		34.45	NP	NP	6,473.20
	3/5/2020		34.54	NP	NP	6,473.11

**Notes:**

AMSL - above mean sea level

BTOC - below top of casing

NP - no product, no free phase hydrocarbons were observed in the well

\* - monitoring well installed by BP/Blagg Engineering, not surveyed

Groundwater elevation calculation in wells with product: (top of casing elevation - depth to water) + (product thickness \* 0.8)



**TABLE 7**  
**GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
SB01	6/14/2017	12,000	1,200	270	2,400	37	5.1	<5.0
	10/20/2017	15,000	2,600	470	4,600	56	5.1	<5.0
	6/20/2018				NS-LNAPL			
	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	9/19/2019				NS-LNAPL			
	12/6/2019				NS-LNAPL			
SB03	6/15/2017	3,200	5,000	390	3,800	43	11	<5.0
	10/21/2017				NS-LNAPL			
	6/20/2018				NS-LNAPL			
	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	9/19/2019	62	69	54	690	NS	NS	NS
	12/6/2019	44	25	42	530	NS	NS	NS
	3/6/2020	41	22	35	390	NS	NS	NS
SB04	6/15/2017				NS-LNAPL			
	10/15/2017				NS-LNAPL			
	6/20/2018				NS-LNAPL			
	9/18/2018				NS			
	12/20/2018				NS			
	4/8/2019				NS			
	6/14/2019	<5.0	<5.0	19	57	NS	NS	NS
	9/19/2019	<1.0	<1.0	2.5	3.8	NS	NS	NS
	12/6/2019	1.1	<1.0	16	31	NS	NS	NS
	3/6/2020				NS			
SB05	6/15/2017	16,000	16,000	310	3,600	100	21	<5.0
	10/21/2017	15,000	20,000	350	4,100	72	29	<5.0
	6/20/2018				NS			
	9/18/2018				NS			
	12/20/2018				NS			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			

**TABLE 7  
GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
SB05	9/20/2019	360	670	77	3,100	NS	NS	NS
	12/6/2019				NS			
	3/6/2020				NS			
SB06	6/16/2017	210	230	11	110	3.6	2.5	<5.0
	10/20/2017	810	110	27	150	5.6	2.9	<5.0
	6/20/2018				NS			
	9/18/2018				NS-LNAPL			
	12/20/2018				NS			
	4/8/2019				NS			
	6/14/2019	4,400	1,500	190	2,900	NS	NS	NS
	9/20/2019	3,330	1,100	130	1,200	NS	NS	NS
	12/6/2019				NS			
	3/6/2020				NS			
SB07	6/16/2017	14,000	15,000	670	7,600	110	12	<5.0
	10/20/2017	11,000	12,000	<500	5,000	60	10	<5.0
	6/20/2018				NS			
	9/18/2018				NS			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	9/19/2019				NS-LNAPL			
	12/6/2019				NS-LNAPL			
	3/6/2020				NS			
SB08	6/16/2017	15,000	15,000	690	7,000	110	7.7	<5.0
	10/21/2017	9,500	6,900	370	4,500	64	6.3	<5.0
	6/20/2018				NS			
	9/18/2018				NS			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	9/19/2019				NS-LNAPL			
	12/6/2019				NS-LNAPL			
	3/6/2020				NS			
SB09	6/16/2017	11,000	9,700	430	3,900	78	5.2	<5.0
	10/21/2017	11,000	12,000	370	5,100	52	8.0	<5.0
	6/20/2018				NS-LNAPL			

**TABLE 7**  
**GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
SB09	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	9/19/2019				NS-LNAPL			
	12/6/2019				NS-LNAPL			
	3/6/2020				NS-LNAPL			
SB10	6/16/2017	11,000	9,000	590	4,300	82	2.1	<5.0
	10/20/2017				NS-LNAPL			
	6/20/2018				NS-DRY			
	9/17/2018				NS-DRY			
	12/20/2018				NS-DRY			
	4/8/2019				NS-DRY			
	6/13/2019				NS-DRY			
	9/19/2019				NS-DRY			
	12/6/2019				NS-DRY			
	3/6/2020				NS-DRY			
SB11	6/16/2017	13,000	20,000	750	6,500	120	3.9	<5.0
	10/21/2017	5,200	6,100	<500	3,400	38	3.9	<5.0
	6/20/2018				NS			
	9/18/2019				NS			
	12/20/2018				NS			
	4/8/2019				NS			
	6/14/2019	1,200	7.1	94	760	NS	NS	NS
	9/20/2019	490	8.5	30	230	NS	NS	NS
	12/6/2019				NS			
	3/6/2020				NS			
SB12	6/16/2017				NS-LNAPL			
	10/18/2017				NS-LNAPL			
	6/20/2018				NS-LNAPL			
	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-DRY			
	6/13/2019				NS-LNAPL			
	9/19/2019				NS-DRY			
	12/6/2019				NS			

**TABLE 7**  
**GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
SB12	3/6/2020				NS			
SB13	6/16/2017	150	86	9.3	52	3.9	<1.0	<5.0
	10/23/2017	220	<5.0	6.4	12	3.8	<1.0	<5.0
	6/22/2018	40	9.5	2.1	83	1.2	<1.0	<5.0
	9/18/2018	11	2.9	<1.0	7.1	0.26	1.1	<5.0
	12/21/2018	16	44	8	170	1.5	1.2	<5.0
	4/8/2019				NS-LNAPL			
	6/14/2019	1.5	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	12/6/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/6/2020	1.8	<1.0	<1.0	2.9	NS	NS	NS
SB15	6/13/2017	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
	10/20/2017	3.3	3.5	<1.0	2.6	<0.050	<1.0	<5.0
	6/20/2018				NS-DRY			
	9/17/2018				NS-DRY			
	12/20/2018				NS-DRY			
	4/8/2019				NS-DRY			
	6/14/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	12/6/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/6/2020				NS			
SB16	6/13/2017	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
	10/20/2017	20	18	1.4	17	0.21	<1.0	<5.0
	6/22/2018	13	1.1	<1.0	10	0.12	<1.0	<5.0
	9/18/2018	3.3	<1.0	<1.0	<1.5	0.078	<1.0	<5.0
	12/20/2018	<1.0	<1.0	<1.0	2.2	0.064	<1.0	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
	6/14/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	12/6/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/6/2020				NS			
SB17	6/13/2017	11	3.5	<1.0	<1.5	0.16	<1.0	<5.0
	10/20/2017				NS-DRY			
	6/20/2018				NS-DRY			
	9/18/2018				NS-DRY			
	12/20/2018				NS-DRY			

**TABLE 7  
GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A  
SAN JUAN COUNTY, NEW MEXICO  
HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
SB17	4/8/2019				NS-DRY			
	6/13/2019				NS-DRY			
	12/6/2019				NS-DRY			
	3/6/2020				NS-DRY			
SB18	6/15/2017				NS-LNAPL			
	10/18/2017				NS-LNAPL			
	6/20/2018				NS-LNAPL			
	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	12/6/2019				NS-LNAPL			
	3/6/2020				NS-LNAPL			
SB19	6/14/2017	10,000	7,400	330	3,300	50	5.0	<5.0
	10/20/2017	10,000	6,100	400	3,500	46	4.0	<5.0
	6/22/2018	9,800	7,500	380	5,000	68	5.6	<5.0
	9/19/2018	6,100	4,700	150	2,900	36	7.0	<5.0
	12/20/2018	7,200	1,300	270	3,800	33	6.9	<5.0
	4/8/2019	5,600	4,000	300	4,700	NS	NS	NS
	6/14/2019	5,200	2,100	250	3,600	NS	NS	NS
	9/20/2019	5,600	1,800	190	3,100	NS	NS	NS
	12/5/2019	4,200	1,700	120	2,500	NS	NS	NS
	3/6/2020	3,900	2,800	100	3,000	NS	NS	NS
MW-1	Destroyed during excavation/remediation activities							
MW-2	Destroyed during excavation/remediation activities							
MW-3R	6/16/2017	15,000	14,000	530	5,500	99	10	<5.0
	10/21/2017	11,000	11,000	460	5,000	84	5.8	<5.0
	6/22/2018				NS-LNAPL			
	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	9/19/2019				NS-LNAPL			
	12/5/2019				NS-LNAPL			
	3/6/2020				NS-LNAPL			
MW-4	6/15/2017	6.6	9.5	<1.0	8.7	0.27	<1.0	<5.0

**TABLE 7**  
**GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
MW-4	10/23/2017	1.8	2.3	<1.0	<1.5	0.059	<1.0	<5.0
	6/22/2018	1.2	1.6	<1.0	3.0	0.073	<1.0	<5.0
	9/17/2018				Well Locked			
	12/20/2019				Well Locked			
	4/8/2019				Well Locked			
	6/14/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019				Well Locked			
	12/6/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/6/2020	<1.0	<1.0	2.8	<2.0	NS	NS	NS
MW-5	Destroyed during excavation/remediation activities							
MW-6	6/15/2017	9.5	17	2.3	18			
	10/23/2017	1.9	2.0	<1.0	<1.5			
	6/22/2018	<b>89</b>	15	150	<b>1,600</b>	12	4.3	<5.0
	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019	<10	<10	15	<b>830</b>	NS	NS	NS
	6/13/2019	<b>13</b>	7.5	<5.0	<b>1,100</b>	NS	NS	NS
	9/19/2019	<5.0	<5.0	<5.0	570	NS	NS	NS
	12/6/2019	5.8	<5.0	<5.0	320	NS	NS	NS
	3/6/2020	<1.0	<1.0	1.2	110	NS	NS	NS
MW-7	Destroyed during excavation/remediation activities							
MW-8	6/15/2017	5.1	4.3	2.6	6.4	0.30	<1.0	<5.0
	10/23/2017	2.6	1.1	1.1	<1.5	0.19	<1.0	<5.0
	6/20/2018				Well Locked			
	9/18/2018				Well Locked			
	12/20/2018				Well Locked			
	4/8/2019				Well Locked			
	6/14/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	12/5/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/5/2020				NS			
MW-9	6/15/2017	<b>28</b>	46	4.3	42	0.47	<1.0	<5.0
	10/23/2017	1.4	1.7	<1.0	<1.5	<0.050	<1.0	<5.0
	6/20/2018				Well Locked			
	9/18/2018				Well Locked			
	12/20/2018				Well Locked			

**TABLE 7**  
**GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
MW-9	4/8/2019	Well Locked						
	6/14/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	Well Locked						
	12/6/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/6/2020	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
MW-10	6/14/2017	<b>13,000</b>	<b>8,800</b>	510	<b>2,900</b>	66	8.1	<5.0
	10/23/2017	NS-LNAPL						
	6/21/2018	<b>8,600</b>	<b>2,400</b>	260	<b>2,000</b>	40	19	<5.0
	9/18/2018	<b>4,000</b>	<b>2,300</b>	140	<b>3,000</b>	31	11	<5.0
	12/20/2018	<b>960</b>	180	24	170	3.7	31	13
	4/8/2019	<b>520</b>	<5.0	14	83	NS	NS	NS
	6/14/2019	<b>420</b>	<10	19	130	NS	NS	NS
	9/20/2019	<b>990</b>	<10	92	65	NS	NS	NS
	12/6/2019	<b>500</b>	<10	81	<b>780</b>	NS	NS	NS
	3/6/2020	<b>210</b>	<10	<10	220	NS	NS	NS
MW-11	6/13/2017	<b>36</b>	7.6	2.7	11	0.67	<1.0	<5.0
	10/20/2017	<b>28</b>	6.8	2.4	9.5	0.94	<1.0	<5.0
	6/21/2018	4.2	6.4	2.2	21	0.44	<1.0	<5.0
	9/18/2018	<1.0	<1.0	<1.0	<1.5	0.079	1.4	<5.0
	12/20/2018	1.2	10	11	34	0.24	<1.0	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
	6/14/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	5.4	<1.0	<1.0	<2.0	NS	NS	NS
	12/5/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/5/2020	NS						
MW-12	6/14/2017	<b>14,000</b>	<b>11,000</b>	460	<b>5,400</b>	75	4.6	<5.0
	10/20/2017	<b>11,000</b>	<b>9,900</b>	310	<b>4,400</b>	59	5.9	<5.0
	6/22/2018	NS-LNAPL						
	9/18/2018	NS-LNAPL						
	12/20/2018	NS-LNAPL						
	4/8/2019	NS-LNAPL						
	6/13/2019	NS-LNAPL						
	9/19/2019	NS-LNAPL						
	12/6/2019	NS-LNAPL						
	3/6/2020	NS-LNAPL						
MW-13	6/13/2017	<b>76</b>	8.0	33	27	1.6	<1.0	<5.0

**TABLE 7**  
**GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
MW-13	10/20/2017	1,300	1,700	150	1,200	10	2.8	<5.0
	6/21/2018	1,300	810	100	850	12	5.1	<5.0
	9/18/2018	2,100	120	<20	580	9.2	6.6	<5.0
	12/20/2018	1,900	140	150	580	7.8	5.4	<5.0
	4/8/2019	2,000	<20	200	480	NS	NS	NS
	6/14/2019	740	21	96	200	NS	NS	NS
	9/20/2019	500	110	55	180	NS	NS	NS
	12/5/2019	1,400	34	200	730	NS	NS	NS
	3/5/2020	1,200	<20	210	700	NS	NS	NS
MW-14	6/14/2017	11	8.6	<1.0	2.9	0.088	<1.0	<5.0
	10/19/2017	12	<1.0	<1.0	<1.5	0.13	1.8	<5.0
	6/21/2018	11	<1.0	2.2	<1.5	0.29	1.9	<5.0
	9/18/2018	95	<1.0	5.5	<1.5	0.47	1.4	<5.0
	12/21/2018	<1.0	<1.0	1.4	<2.0	0.11	1.3	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
	6/13/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	1.4	<1.0	4.5	<2.0	NS	NS	NS
	12/5/2019	1.5	<1.0	2.4	<2.0	NS	NS	NS
	3/5/2020				NS			
MW-15	6/14/2017	11,000	11,000	840	5,500	100	2.9	<5.0
	10/19/2017	13,000	15,000	810	8,900	100	5.2	<5.0
	6/21/2018	12,000	14,000	940	9,200	110	5.7	<5.0
	9/18/2018	9,400	12,000	660	7,900	93	4.4	<5.0
	12/21/2018	8,000	10,000	780	8,400	81	5.0	<5.0
	4/8/2019				NS-LNAPL			
	6/13/2019	8,100	14,000	960	11,000	NS	NS	NS
	9/19/2019	9,700	14,000	840	10,000	NS	NS	NS
	12/5/2019				NS-LNAPL			
	3/5/2020	8,200	9,900	750	8,700	NS	NS	NS
MW-16	6/14/2017				NS-DRY			
	10/20/2017				NS-DRY			
	6/20/2018				NS-DRY			
	9/17/2018				NS-DRY			
	12/20/2018				NS-DRY			
	4/8/2019				NS-DRY			
	6/13/2019				NS-DRY			



**TABLE 7**  
**GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
MW-16	9/19/2019	Insufficient amount of water to sample						
	12/5/2019	Insufficient amount of water to sample						
	3/5/2020	Insufficient amount of water to sample						
MW-17	10/19/2017	<1.0	1.4	<1.0	2.2	<0.050	3.1	<5.0
	6/20/2018	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
	9/17/2018	<1.0	<1.0	<1.0	<1.5	0.063	<1.0	<5.0
	12/21/2018	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
	6/13/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	12/5/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/5/2020				NS			
MW-18	10/19/2017	1.1	1.5	<1.0	1.7	0.11	2.8	<5.0
	6/20/2018	<1.0	<1.0	<1.0	<1.5	0.26	3.0	<5.0
	9/17/2018	<1.0	<1.0	<1.0	<1.5	0.19	1.4	<5.0
	12/21/2018	<1.0	<1.0	<1.0	<2.0	0.094	1.1	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
	6/13/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	12/5/2019	1.2	<1.0	<1.0	<2.0	NS	NS	NS
	3/5/2020	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
MW-19	10/18/2017	<b>500</b>	<1.0	<1.0	1.7	1.1	<1.0	<5.0
	6/20/2018	<b>1,400</b>	3.0	1.3	70	2.9	<1.0	<5.0
	9/19/2018	<b>1,100</b>	<b>1,600</b>	590	<b>6,100</b>	7.0	8.5	<5.0
	12/20/2018				NS-LNAPL			
	4/8/2019	<b>1,400</b>	<b>950</b>	490	<b>5,100</b>	NS	NS	NS
	6/13/2019	<b>740</b>	520	240	<b>3,400</b>	NS	NS	NS
	9/19/2019				NS-LNAPL			
	12/5/2019				NS-LNAPL			
	3/5/2020				NS-LNAPL			
MW-20	10/18/2017	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
	6/20/2018	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
	9/17/2018	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
	12/21/2018	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
	6/13/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS

**TABLE 7**  
**GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
MW-20	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	12/5/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/5/2020	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
MW-21	10/18/2017	<b>940</b>	340	180	<b>2,000</b>	7.8	2.5	<5.0
	6/22/2018	<b>660</b>	120	89	540	5.2	2.7	<5.0
	9/19/2018	<b>320</b>	28	120	110	3.0	2.7	<5.0
	12/21/2018	<b>75</b>	<1.0	52	14	0.6	1.3	<5.0
	4/8/2019	5.2	<1.0	2.7	5.3	NS	NS	NS
	6/14/2019	2.6	<1.0	5.5	2.6	NS	NS	NS
	9/19/2019	8.7	<1.0	7.5	<2.0	NS	NS	NS
	12/5/2019	4.2	<1.0	2.6	<2.0	NS	NS	NS
	3/5/2020	7.4	<1.0	11	10	NS	NS	NS
MW-22	10/18/2017	6.1	5.5	<1.0	6.4	0.14	<1.0	<5.0
	6/22/2018	<1.0	<1.0	<1.0	<1.5	0.057	<1.0	<5.0
	9/17/2018	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
	12/21/2018	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
	6/13/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	12/5/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/5/2020	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
MW-23	10/18/2017	<5.0	<5.0	<5.0	<7.5	<0.25	1.6	<5.0
	6/22/2018	<1.0	<1.0	<1.0	<1.5	0.093	<1.0	<5.0
	9/17/2018	<b>44</b>	<1.0	<1.0	<1.5	0.17	1.0	<5.0
	12/20/2018	<b>65</b>	<1.0	<1.0	<2.0	0.13	<1.0	<5.0
	4/8/2019	<b>30</b>	<1.0	<1.0	<1.5	NS	NS	NS
	6/23/2019				NS-DRY			
	9/19/2019	6.0	<1.0	<1.0	3.1	NS	NS	NS
	12/5/2019	5.3	<1.0	<1.0	<2.0	NS	NS	NS
	3/5/2020	2.8	<1.0	<1.0	<1.5	NS	NS	NS
MW-24	9/17/2018	<1.0	<1.0	<1.0	<1.5	0.14	<1.0	<5.0
	12/21/2018	<1.0	<1.0	<1.0	<2.0	0.07	<1.0	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
	6/13/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	12/5/2019	<1.0	<1.0	4.0	<2.0	NS	NS	NS

**TABLE 7**  
**GROUNDWATER ANALYTICAL RESULTS**

**FLORANCE GCJ #16A**  
**SAN JUAN COUNTY, NEW MEXICO**  
**HARVEST FOUR CORNERS, LLC**

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
MW-24	3/5/2020	<1.0	<1.0	1.2	<1.5	NS	NS	NS
	9/19/2018	<1.0	<1.0	<1.0	<1.5	<0.050	<1.0	<5.0
	12/21/2018	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
MW-25	6/14/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	12/5/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	3/5/2020	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
NMWQCC Standard		10	750	750	620	NE	NE	NE

Notes:

DRO - diesel range organics

GRO - gasoline range organics

LNAPL - light non-aqueous phase liquid

µg/L - microgram per liter

mg/L - milligram per liter

MRO - motor oil range organics

NE - not established

NMWQCC - New Mexico Water Quality Control Commission

NS - not sampled

NS-DRY - not sampled, well was dry or insufficient water to collect sample

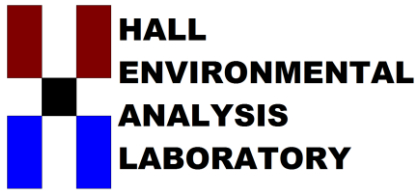
NS-LNAPL - not sampled due to presence of LNAPL in well

< - indicates result is below laboratory reporting limit

**BOLD** indicates result exceeds applicable standard

\* - Standard is for Total Metals, not dissolved. Ferrous





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

February 21, 2020

Monica Sandoval

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Florance GC J 16A

OrderNo.: 2002408

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/11/2020 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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **2002408**

Date Reported: 2/21/2020

**CLIENT:** Harvest

**Client Sample ID:** Zone 2 Influent

**Project:** Florance GC J 16A

**Collection Date:** 2/10/2020 1:30:00 PM

**Lab ID:** 2002408-001

**Matrix:** AIR

**Received Date:** 2/11/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	3500	25		µg/L	5	2/20/2020 9:20:00 AM	G66690
Surr: BFB	212	53-256		%Rec	5	2/20/2020 9:20:00 AM	G66690
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	7.0	0.50		µg/L	5	2/20/2020 9:20:00 AM	B66690
Toluene	18	0.50		µg/L	5	2/20/2020 9:20:00 AM	B66690
Ethylbenzene	ND	0.50		µg/L	5	2/20/2020 9:20:00 AM	B66690
Xylenes, Total	18	1.0		µg/L	5	2/20/2020 9:20:00 AM	B66690
Surr: 4-Bromofluorobenzene	94.2	81.6-133		%Rec	5	2/20/2020 9:20:00 AM	B66690

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		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2002408

21-Feb-20

**Client:** Harvest  
**Project:** Florance GC J 16A

Sample ID: <b>2002408-001adup</b>		SampType: <b>DUP</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>Zone 2 Influent</b>		Batch ID: <b>G66690</b>		RunNo: <b>66690</b>						
Prep Date:		Analysis Date: <b>2/20/2020</b>		SeqNo: <b>2292335</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	3400	25						3.66	20	
Surr: BFB	20000		10000		203	53	256	0	0	

### Qualifiers:

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2002408

21-Feb-20

Client: Harvest

Project: Florance GC J 16A

Sample ID: <b>2002408-001adup</b>		SampType: <b>DUP</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>Zone 2 Influent</b>		Batch ID: <b>B66690</b>		RunNo: <b>66690</b>						
Prep Date:		Analysis Date: <b>2/20/2020</b>		SeqNo: <b>2292375</b>		Units: <b>µg/L</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	6.9	0.50						1.70	20	
Toluene	18	0.50						1.79	20	
Ethylbenzene	ND	0.50						0	20	
Xylenes, Total	17	1.0						2.65	20	
Surr: 4-Bromofluorobenzene	9.2		10.00		92.3	81.6	133	0	0	

### Qualifiers:

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

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



# Sample Log-In Check List

Client Name: **Harvest**

Work Order Number: **2002408**

RcptNo: 1

Received By: **Andy Freeman**

2/11/2020 8:05:00 AM

Completed By: **Isaiah Ortiz**

2/11/2020 8:40:38 AM

Reviewed By:

**YG 2/11/20**

*Isaiah Ortiz*  
**IOX**

## Chain of Custody

1. Is Chain of Custody sufficiently 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:

( $\leq 2$  or  $>12$  unless noted)

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

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

**IO**  
**2/11/20**

## 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			
2	1.6	Good	Yes			







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

March 10, 2020

Danny Burns

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Florance GC J 16A

OrderNo.: 2003005

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/29/2020 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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **2003005**

Date Reported: **3/10/2020**

**CLIENT:** Harvest

**Client Sample ID:** Zone 3 Influent

**Project:** Florance GC J 16A

**Collection Date:** 2/28/2020 1:15:00 PM

**Lab ID:** 2003005-001

**Matrix:** AIR

**Received Date:** 2/29/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	240	10		µg/L	2	3/9/2020 11:56:37 AM	C67115
Surr: BFB	283	53-256	S	%Rec	2	3/9/2020 11:56:37 AM	C67115
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Methyl tert-butyl ether (MTBE)	ND	0.50		µg/L	2	3/9/2020 11:56:37 AM	D67115
Benzene	0.20	0.20		µg/L	2	3/9/2020 11:56:37 AM	D67115
Toluene	0.43	0.20		µg/L	2	3/9/2020 11:56:37 AM	D67115
Ethylbenzene	ND	0.20		µg/L	2	3/9/2020 11:56:37 AM	D67115
Xylenes, Total	0.75	0.40		µg/L	2	3/9/2020 11:56:37 AM	D67115
Surr: 4-Bromofluorobenzene	90.2	81.6-133		%Rec	2	3/9/2020 11:56:37 AM	D67115

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		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003005

10-Mar-20

**Client:** Harvest  
**Project:** Florance GC J 16A

Sample ID: <b>2003005-001adup</b>	SampType: <b>DUP</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>Zone 3 Influent</b>	Batch ID: <b>C67115</b>		RunNo: <b>67115</b>							
Prep Date:	Analysis Date: <b>3/9/2020</b>		SeqNo: <b>2311945</b>		Units: <b>µg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	250	10						5.04	20	
Surr: BFB	10000		4000		258	53	256	0	0	S

### Qualifiers:

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003005

10-Mar-20

Client: Harvest

Project: Florance GC J 16A

Sample ID: 2003005-001adup		SampType: DUP		TestCode: EPA Method 8021B: Volatiles						
Client ID: Zone 3 Influent	Batch ID: D67115			RunNo: 67115						
Prep Date:	Analysis Date: 3/9/2020			SeqNo: 2311973		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.50						0	20	
Benzene	0.21	0.20						4.60	20	
Toluene	0.49	0.20						13.6	20	
Ethylbenzene	ND	0.20						0	20	
Xylenes, Total	0.82	0.40						8.05	20	
Surr: 4-Bromofluorobenzene	3.9		4.000		97.0	81.6	133	0	0	

### Qualifiers:

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

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

# Sample Log-In Check List

Client Name: **Harvest**

Work Order Number: **2003005**

RcptNo: 1

Received By: **Erin Melendrez**

**2/29/2020 9:30:00 AM**

*Erin Melendrez*

Completed By: **Leah Baca**

**3/2/2020 9:11:46 AM**

*Leah Baca*

Reviewed By: *LB*

*3/2/2020*

## Chain of Custody

1. Is Chain of Custody sufficiently 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:  
( $\leq 2$  or  $>12$  unless noted)

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

Checked by: *JR 3/2/20*

## Special Handling (if applicable)

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

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

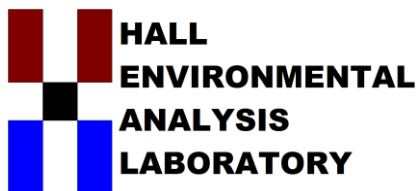
16. Additional remarks:

## 17. Cooler Information

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







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

April 03, 2020

Danny Burns

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX:

RE: Florance GC J 16A

OrderNo.: 2003994

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/21/2020 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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003994

Date Reported: 4/3/2020

**CLIENT:** Harvest

**Client Sample ID:** Zone 4 Influent

**Project:** Florance GC J 16A

**Collection Date:** 3/20/2020 1:30:00 PM

**Lab ID:** 2003994-001

**Matrix:** AIR

**Received Date:** 3/21/2020 8:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	1700	25		µg/L	5	3/30/2020 12:25:58 PM	G67711
Surr: BFB	505	53-256	S	%Rec	5	3/30/2020 12:25:58 PM	G67711
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	1.7	0.50		µg/L	5	3/30/2020 12:25:58 PM	B67711
Toluene	3.2	0.50		µg/L	5	3/30/2020 12:25:58 PM	B67711
Ethylbenzene	ND	0.50		µg/L	5	3/30/2020 12:25:58 PM	B67711
Xylenes, Total	13	1.0		µg/L	5	3/30/2020 12:25:58 PM	B67711
Surr: 4-Bromofluorobenzene	110	81.6-133		%Rec	5	3/30/2020 12:25:58 PM	B67711

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

### Qualifiers:

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

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



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

## Sample Log-In Check List

Client Name: Harvest

Work Order Number: 2003994

RcptNo: 1

Received By: Yazmine Garduno

3/21/2020 8:06:00 AM

*[Signature]*

Completed By: Isaiah Ortiz

3/23/2020 9:26:20 AM

*ISOX*

Reviewed By: DAD 3/23/20

### Chain of Custody

1. Is Chain of Custody sufficiently 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:

( $<2$  or  $>12$  unless noted)

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

Checked by: *JO 3/23/20*

### 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: \_\_\_\_\_

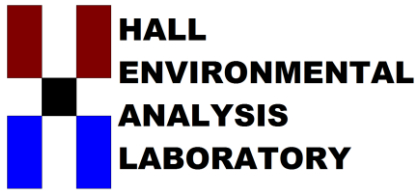
Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Not Present			





*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
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TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

March 17, 2020

Danny Burns

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX:

RE: Florance GC J 16A

OrderNo.: 2003332

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 16 sample(s) on 3/7/2020 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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** SB03

**Project:** Florance GC J 16A

**Collection Date:** 3/6/2020 11:45:00 AM

**Lab ID:** 2003332-001

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	41	5.0		µg/L	5	3/10/2020 12:26:30 AM	D67115
Toluene	22	5.0		µg/L	5	3/10/2020 12:26:30 AM	D67115
Ethylbenzene	35	5.0		µg/L	5	3/10/2020 12:26:30 AM	D67115
Xylenes, Total	390	10		µg/L	5	3/10/2020 12:26:30 AM	D67115
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	5	3/10/2020 12:26:30 AM	D67115

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** SB13

**Project:** Florance GC J 16A

**Collection Date:** 3/6/2020 1:00:00 PM

**Lab ID:** 2003332-002

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	1.8	1.0		µg/L	1	3/10/2020 12:50:06 AM	D67115
Toluene	ND	1.0		µg/L	1	3/10/2020 12:50:06 AM	D67115
Ethylbenzene	ND	1.0		µg/L	1	3/10/2020 12:50:06 AM	D67115
Xylenes, Total	2.9	2.0		µg/L	1	3/10/2020 12:50:06 AM	D67115
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	3/10/2020 12:50:06 AM	D67115

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** SB19

**Project:** Florance GC J 16A

**Collection Date:** 3/6/2020 12:45:00 PM

**Lab ID:** 2003332-003

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	3900	100		µg/L	100	3/10/2020 2:24:21 AM	D67115
Toluene	2800	100		µg/L	100	3/10/2020 2:24:21 AM	D67115
Ethylbenzene	100	100		µg/L	100	3/10/2020 2:24:21 AM	D67115
Xylenes, Total	3000	200		µg/L	100	3/10/2020 2:24:21 AM	D67115
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	100	3/10/2020 2:24:21 AM	D67115

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		



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-4

**Project:** Florance GC J 16A

**Collection Date:** 3/5/2020 12:25:00 PM

**Lab ID:** 2003332-004

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	1.0		µg/L	1	3/10/2020 2:47:54 AM	D67115
Toluene	ND	1.0		µg/L	1	3/10/2020 2:47:54 AM	D67115
Ethylbenzene	2.8	1.0		µg/L	1	3/10/2020 2:47:54 AM	D67115
Xylenes, Total	ND	2.0		µg/L	1	3/10/2020 2:47:54 AM	D67115
Surr: 4-Bromofluorobenzene	89.7	80-120		%Rec	1	3/10/2020 2:47:54 AM	D67115

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-6

**Project:** Florance GC J 16A

**Collection Date:** 3/5/2020 11:05:00 AM

**Lab ID:** 2003332-005

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	3/13/2020 5:27:00 PM	SL_6727
Toluene	ND	1.0		µg/L	1	3/13/2020 5:27:00 PM	SL_6727
Ethylbenzene	1.2	1.0		µg/L	1	3/13/2020 5:27:00 PM	SL_6727
Xylenes, Total	110	1.5		µg/L	1	3/13/2020 5:27:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	3/13/2020 5:27:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	70.4	70-130		%Rec	1	3/13/2020 5:27:00 PM	SL_6727
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	3/13/2020 5:27:00 PM	SL_6727
Surr: Toluene-d8	140	70-130	S	%Rec	1	3/13/2020 5:27:00 PM	SL_6727

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-9

**Project:** Florance GC J 16A

**Collection Date:** 3/5/2020 11:53:00 AM

**Lab ID:** 2003332-006

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	3/13/2020 5:51:00 PM	SL_6727
Toluene	ND	1.0		µg/L	1	3/13/2020 5:51:00 PM	SL_6727
Ethylbenzene	ND	1.0		µg/L	1	3/13/2020 5:51:00 PM	SL_6727
Xylenes, Total	ND	1.5		µg/L	1	3/13/2020 5:51:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%Rec	1	3/13/2020 5:51:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	3/13/2020 5:51:00 PM	SL_6727
Surr: Dibromofluoromethane	97.0	70-130		%Rec	1	3/13/2020 5:51:00 PM	SL_6727
Surr: Toluene-d8	97.0	70-130		%Rec	1	3/13/2020 5:51:00 PM	SL_6727

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-10

**Project:** Florance GC J 16A

**Collection Date:** 3/6/2020 11:10:00 AM

**Lab ID:** 2003332-007

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	210	10		µg/L	10	3/13/2020 6:15:00 PM	SL_6727
Toluene	ND	10		µg/L	10	3/13/2020 6:15:00 PM	SL_6727
Ethylbenzene	46	10		µg/L	10	3/13/2020 6:15:00 PM	SL_6727
Xylenes, Total	220	15		µg/L	10	3/13/2020 6:15:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	10	3/13/2020 6:15:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	10	3/13/2020 6:15:00 PM	SL_6727
Surr: Dibromofluoromethane	96.5	70-130		%Rec	10	3/13/2020 6:15:00 PM	SL_6727
Surr: Toluene-d8	98.3	70-130		%Rec	10	3/13/2020 6:15:00 PM	SL_6727

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-13

**Project:** Florance GC J 16A

**Collection Date:** 3/5/2020 1:45:00 PM

**Lab ID:** 2003332-008

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	1200	20		µg/L	20	3/13/2020 6:39:00 PM	SL_6727
Toluene	ND	20		µg/L	20	3/13/2020 6:39:00 PM	SL_6727
Ethylbenzene	210	20		µg/L	20	3/13/2020 6:39:00 PM	SL_6727
Xylenes, Total	700	30		µg/L	20	3/13/2020 6:39:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%Rec	20	3/13/2020 6:39:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	20	3/13/2020 6:39:00 PM	SL_6727
Surr: Dibromofluoromethane	96.9	70-130		%Rec	20	3/13/2020 6:39:00 PM	SL_6727
Surr: Toluene-d8	98.1	70-130		%Rec	20	3/13/2020 6:39:00 PM	SL_6727

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-15

**Project:** Florance GC J 16A

**Collection Date:** 3/5/2020 1:20:00 PM

**Lab ID:** 2003332-009

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	8200	200		µg/L	200	3/13/2020 7:03:00 PM	SL_6727
Toluene	9900	200		µg/L	200	3/13/2020 7:03:00 PM	SL_6727
Ethylbenzene	750	200		µg/L	200	3/13/2020 7:03:00 PM	SL_6727
Xylenes, Total	8700	300		µg/L	200	3/13/2020 7:03:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%Rec	200	3/13/2020 7:03:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	200	3/13/2020 7:03:00 PM	SL_6727
Surr: Dibromofluoromethane	97.1	70-130		%Rec	200	3/13/2020 7:03:00 PM	SL_6727
Surr: Toluene-d8	98.0	70-130		%Rec	200	3/13/2020 7:03:00 PM	SL_6727

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **2003332**Date Reported: **3/17/2020****CLIENT:** Harvest**Client Sample ID:** MW-18**Project:** Florance GC J 16A**Collection Date:** 3/5/2020 10:30:00 AM**Lab ID:** 2003332-010**Matrix:** AQUEOUS**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	3/13/2020 7:26:00 PM	SL_6727
Toluene	ND	1.0		µg/L	1	3/13/2020 7:26:00 PM	SL_6727
Ethylbenzene	ND	1.0		µg/L	1	3/13/2020 7:26:00 PM	SL_6727
Xylenes, Total	ND	1.5		µg/L	1	3/13/2020 7:26:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	1	3/13/2020 7:26:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/13/2020 7:26:00 PM	SL_6727
Surr: Dibromofluoromethane	97.5	70-130		%Rec	1	3/13/2020 7:26:00 PM	SL_6727
Surr: Toluene-d8	98.7	70-130		%Rec	1	3/13/2020 7:26:00 PM	SL_6727

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-20

**Project:** Florance GC J 16A

**Collection Date:** 3/5/2020 11:18:00 AM

**Lab ID:** 2003332-011

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	3/13/2020 7:50:00 PM	SL_6727
Toluene	ND	1.0		µg/L	1	3/13/2020 7:50:00 PM	SL_6727
Ethylbenzene	ND	1.0		µg/L	1	3/13/2020 7:50:00 PM	SL_6727
Xylenes, Total	ND	1.5		µg/L	1	3/13/2020 7:50:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	3/13/2020 7:50:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	3/13/2020 7:50:00 PM	SL_6727
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	3/13/2020 7:50:00 PM	SL_6727
Surr: Toluene-d8	100	70-130		%Rec	1	3/13/2020 7:50:00 PM	SL_6727

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		



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-21

**Project:** Florance GC J 16A

**Collection Date:** 3/5/2020 12:53:00 PM

**Lab ID:** 2003332-012

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	7.4	1.0		µg/L	1	3/13/2020 8:14:00 PM	SL_6727
Toluene	ND	1.0		µg/L	1	3/13/2020 8:14:00 PM	SL_6727
Ethylbenzene	11	1.0		µg/L	1	3/13/2020 8:14:00 PM	SL_6727
Xylenes, Total	10	1.5		µg/L	1	3/13/2020 8:14:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%Rec	1	3/13/2020 8:14:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/13/2020 8:14:00 PM	SL_6727
Surr: Dibromofluoromethane	97.2	70-130		%Rec	1	3/13/2020 8:14:00 PM	SL_6727
Surr: Toluene-d8	98.0	70-130		%Rec	1	3/13/2020 8:14:00 PM	SL_6727

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-22

**Project:** Florance GC J 16A

**Collection Date:** 3/5/2020 11:22:00 AM

**Lab ID:** 2003332-013

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	3/13/2020 8:38:00 PM	SL_6727
Toluene	ND	1.0		µg/L	1	3/13/2020 8:38:00 PM	SL_6727
Ethylbenzene	ND	1.0		µg/L	1	3/13/2020 8:38:00 PM	SL_6727
Xylenes, Total	ND	1.5		µg/L	1	3/13/2020 8:38:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%Rec	1	3/13/2020 8:38:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	3/13/2020 8:38:00 PM	SL_6727
Surr: Dibromofluoromethane	97.3	70-130		%Rec	1	3/13/2020 8:38:00 PM	SL_6727
Surr: Toluene-d8	99.5	70-130		%Rec	1	3/13/2020 8:38:00 PM	SL_6727

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **2003332**Date Reported: **3/17/2020****CLIENT:** Harvest**Client Sample ID:** MW-23**Project:** Florance GC J 16A**Collection Date:** 3/5/2020 12:10:00 PM**Lab ID:** 2003332-014**Matrix:** AQUEOUS**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	2.8	1.0		µg/L	1	3/13/2020 9:01:00 PM	SL_6727
Toluene	ND	1.0		µg/L	1	3/13/2020 9:01:00 PM	SL_6727
Ethylbenzene	ND	1.0		µg/L	1	3/13/2020 9:01:00 PM	SL_6727
Xylenes, Total	ND	1.5		µg/L	1	3/13/2020 9:01:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	3/13/2020 9:01:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	3/13/2020 9:01:00 PM	SL_6727
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	3/13/2020 9:01:00 PM	SL_6727
Surr: Toluene-d8	97.6	70-130		%Rec	1	3/13/2020 9:01:00 PM	SL_6727

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-24

**Project:** Florance GC J 16A

**Collection Date:** 3/5/2020 10:49:00 AM

**Lab ID:** 2003332-015

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	3/13/2020 9:25:00 PM	SL_6727
Toluene	ND	1.0		µg/L	1	3/13/2020 9:25:00 PM	SL_6727
Ethylbenzene	1.2	1.0		µg/L	1	3/13/2020 9:25:00 PM	SL_6727
Xylenes, Total	ND	1.5		µg/L	1	3/13/2020 9:25:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%Rec	1	3/13/2020 9:25:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	3/13/2020 9:25:00 PM	SL_6727
Surr: Dibromofluoromethane	97.4	70-130		%Rec	1	3/13/2020 9:25:00 PM	SL_6727
Surr: Toluene-d8	97.7	70-130		%Rec	1	3/13/2020 9:25:00 PM	SL_6727

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		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 2003332

Date Reported: 3/17/2020

**CLIENT:** Harvest

**Client Sample ID:** MW-25

**Project:** Florance GC J 16A

**Collection Date:** 3/5/2020 12:45:00 PM

**Lab ID:** 2003332-016

**Matrix:** AQUEOUS

**Received Date:** 3/7/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>							Analyst: <b>CCM</b>
Benzene	ND	1.0		µg/L	1	3/13/2020 9:49:00 PM	SL_6727
Toluene	ND	1.0		µg/L	1	3/13/2020 9:49:00 PM	SL_6727
Ethylbenzene	ND	1.0		µg/L	1	3/13/2020 9:49:00 PM	SL_6727
Xylenes, Total	ND	1.5		µg/L	1	3/13/2020 9:49:00 PM	SL_6727
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%Rec	1	3/13/2020 9:49:00 PM	SL_6727
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	3/13/2020 9:49:00 PM	SL_6727
Surr: Dibromofluoromethane	96.3	70-130		%Rec	1	3/13/2020 9:49:00 PM	SL_6727
Surr: Toluene-d8	97.7	70-130		%Rec	1	3/13/2020 9:49:00 PM	SL_6727

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		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003332

17-Mar-20

**Client:** Harvest  
**Project:** Florance GC J 16A

Sample ID: <b>mb1</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBW</b>	Batch ID: <b>D67115</b>	RunNo: <b>67115</b>								
Prep Date:	Analysis Date: <b>3/9/2020</b>	SeqNo: <b>2311968</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	2.0								
Surr: 4-Bromofluorobenzene	18		20.00		87.5	80	120			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>D67115</b>	RunNo: <b>67115</b>								
Prep Date:	Analysis Date: <b>3/9/2020</b>	SeqNo: <b>2311969</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	88.8	80	120			
Toluene	19	1.0	20.00	0	93.2	80	120			
Ethylbenzene	19	1.0	20.00	0	94.2	80	120			
Xylenes, Total	57	2.0	60.00	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	18		20.00		91.5	80	120			

### Qualifiers:

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003332

17-Mar-20

**Client:** Harvest  
**Project:** Florance GC J 16A

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>SL_67273</b>		RunNo: <b>67273</b>							
Prep Date:	Analysis Date: <b>3/13/2020</b>		SeqNo: <b>2319622</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	105	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.7	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.8	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.8	70	130			
Surr: Toluene-d8	9.9		10.00		99.3	70	130			

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>SL_67273</b>		RunNo: <b>67273</b>							
Prep Date:	Analysis Date: <b>3/13/2020</b>		SeqNo: <b>2319877</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								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.6	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.5	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.7	70	130			
Surr: Toluene-d8	9.9		10.00		98.8	70	130			

### Qualifiers:

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

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



# Sample Log-In Check List

Client Name: **Harvest**

Work Order Number: **2003332**

RcptNo: 1

Received By: **Erin Melendrez**

**3/7/2020 9:30:00 AM**

*UAG*

Completed By: **Erin Melendrez**

**3/7/2020 11:18:07 AM**

*UAG*

Reviewed By: **DAD 3/9/20**

## Chain of Custody

1. Is Chain of Custody sufficiently 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:  
( $<2$  or  $>12$  unless noted)

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

Checked by: **JR 3/9/20**

## Special Handling (if applicable)

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

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

## 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good				
2	4.7	Good				



<b>Chain-of-Custody Record</b>		Turn-Around Time:
Client: <i>Harvest Four Corners</i>	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
<i>Monica Sandaval</i>	Project Name:	<i>Florance GC J 16A</i>
Mailing Address: <i>1755 Arroyo Dr</i>		
<i>Bloomfield NM 87413</i>	Project #:	
Phone #:		

Project Name:	Florence GC J 16A
Mailing Address:	Monica Sanda Vol 1755 Arroyo Dr

Bloomfield NM 87413	Project #:
Phone #:	

email or Fax#: <i>m.sanderval@harvestmindstream.com</i>	Project Manager:
---	------------------

<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	Danny Burns
--	--	-------------

<input type="checkbox"/> EDD (Type) _____	<b># of Coolers:</b> <u>2</u>
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$$4.8 - 0.10(F) = 4.70$$

3/5	1127	4-4008	11/11-29	3K0A	1101	A13	500800
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313	1810		MW-23		A/L	H
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3/5	1245	✓	MW-25	↓	↓	-016
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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[illegible][illegible]

3/6	1400	3/16/20	1400
3/6	1400	3/16/20	1400

DATE	DESCRIPTION	AMOUNT	BALANCE
3/1/64	184	184	184
4/1/64	184	184	184
5/1/64	184	184	184
6/1/64	184	184	184
7/1/64	184	184	184
8/1/64	184	184	184
9/1/64	184	184	184
10/1/64	184	184	184
11/1/64	184	184	184
12/1/64	184	184	184
1/1/65	184	184	184
2/1/65	184	184	184
3/1/65	184	184	184
4/1/65	184	184	184
5/1/65	184	184	184
6/1/65	184	184	184
7/1/65	184	184	184
8/1/65	184	184	184
9/1/65	184	184	184
10/1/65	184	184	184
11/1/65	184	184	184
12/1/65	184	184	184
1/1/66	184	184	184
2/1/66	184	184	184
3/1/66	184	184	184
4/1/66	184	184	184
5/1/66	184	184	184
6/1/66	184	184	184
7/1/66	184	184	184
8/1/66	184	184	184
9/1/66	184	184	184
10/1/66	184	184	184
11/1/66	184	184	184
12/1/66	184	184	184
1/1/67	184	184	184
2/1/67	184	184	184
3/1/67	184	184	184
4/1/67	184	184	184
5/1/67	184	184	184
6/1/67	184	184	184
7/1/67	184	184	184
8/1/67	184	184	184
9/1/67	184	184	184
10/1/67	184	184	184
11/1/67	184	184	184
12/1/67	184	184	184
1/1/68	184	184	184
2/1/68	184	184	184
3/1/68	184	184	184
4/1/68	184	184	184
5/1/68	184	184	184
6/1/68	184	184	184
7/1/68	184	184	184
8/1/68	184	184	184
9/1/68	184	184	184
10/1/68	184	184	184
11/1/68	184	184	184
12/1/68	184	184	184
1/1/69	184	184	184
2/1/69	184	184	184
3/1/69	184	184	184
4/1/69	184	184	184
5/1/69	184	184	184
6/1/69	184	184	184
7/1/69	184	184	184
8/1/69	184	184	184
9/1/69	184	184	184
10/1/69	184	184	184
11/1/69	184	184	184
12/1/69	184	184	184
1/1/70	184	184	184
2/1/70	184	184	184
3/1/70	184	184	184
4/1/70	184	184	184
5/1/70	184	184	184
6/1/70	184	184	184
7/1/70	184	184	184
8/1/70	184	184	184
9/1/70	184	184	184
10/1/70	184	184	184
11/1/70	184	184	184
12/1/70	184	184	184
1/1/71	184	184	184
2/1/71	184	184	184
3/1/71	184	184	184
4/1/71	184	184	184
5/1/71	184	184	184
6/1/71	184		

2

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Project Name:

Project #:

\_\_\_\_\_

Danny Bush

Sampler: E. Carroll / M. Mordvenovich

# of Coolers: 2

$$4.8 - 0.1(CT) = 4.70$$

Type and #	Type	
		2005536

10	1	1
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510	1	1
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[illegible]


[illegible]


Received by:	Via:	Date	Time
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Received by: Mr. Wines Via: Air Mail Date: 10/20/1900 Time: \_\_\_\_\_

317120

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

[illegible]

Remarks:	
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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.