

3Q 2019

SVE/MPE
Report

October 31, 2019

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

Report Was sent in With Q4 2019,
Reviewed Any Conditions sent with Q4
Report. Q3-19 accepted for Record.



RE: Quarterly Remediation System Operation and Monitoring Report
Remediation Permit Number 3RP-364
Florance Gas Com J No. 16A
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 third quarter of 2019 at the Florance Gas Com J No. 16A (GC J#16A) (Site) (Remediation Permit Number 3RP-364) located in San Juan County, New Mexico. The activity included in this report is for the period from July 12, 2019 through September 30, 2019. 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 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 third quarter 2019. The results of these efforts are summarized in tables attached to this report including the following information through the final bi-weekly site visit for the quarter conducted on September 20, 2019.

Vapor Recovery

- The run time for the remediation system listed in Table 1 indicates an average run time for the third quarter of 97 percent (%), with a cumulative overall run time of 94%. Temporary system operation interruptions occurred due to routine maintenance requirements and groundwater sampling activities.
- 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. Four 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 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 of Albuquerque, New Mexico. The analytical results from the third quarter of 2019 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 2,447 pounds (lbs) of VOCs. In the third quarter 2019, the calculated mass removal rate based on VOC data varied from 0.2 lbs per day to 1.3 lbs per day. A total of 66 lbs of VOCs were removed during the third quarter of 2019 through September 20, 2019.





Fluid Recovery

- Fluid recovery efforts are summarized in Table 4. During the third quarter of 2019 total fluid recovery was measured using a flow metering device and LNAPL recovery was calculated based on periodic measurement of recovered fluid in the storage tank. Since startup of the system through September 20, 2019, approximately 127,846 gallons of impacted groundwater have been recovered.
- 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 third quarter of 2019. The specific zones and period of operation are indicated in this table.

CONCRETE TRAP/SECONDARY SEEP MONITORING

During the third quarter of 2019, the collection sump associated with the seep areas and collection piping were examined for fluid recovery during scheduled O&M visits. Approximately 500 gallons of fluid were removed from the seep collection tank on July 3, 2019. The increase of accumulating liquids in the seep recovery tank are likely a result from recent precipitation events and stormwater runoff in the concrete trap. No phase separated hydrocarbons (PSH) were observed in the seep collection tank.

GROUNDWATER MONITORING

Groundwater monitoring activities were conducted at the Site on September 19, 2019. LTE measured groundwater elevations and investigated the presence of PSH in all monitoring wells. Groundwater samples were collected from all monitoring wells that did not contain PSH and had sufficient water to sample.

Water and PSH Level Measurements

Prior to collecting any groundwater measurements, the MPE system was shutdown 48 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 contours and determine groundwater flow direction in September 2019 (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 Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico, 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 were 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, indicating that the purge water was representative of aquifer conditions.

Results

Groundwater elevations measured during site monitoring event in September 2019 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 2019 monitoring events. A summary of measured depths to groundwater and PSH thickness is presented in Table 6. During the third quarter 2019 monitoring event, PSH was measurable in six monitoring wells and PSH was observed in two additional wells during purging. Measurable product thickness ranged from 0.02 feet in SB18 to 0.76 feet in MW-3R.

A total of 24 groundwater samples were collected from the following monitoring wells: SB03, SB04, SB05, SB06, SB11, SB13, SB15, SB16, SB19, MW-6, MW-8, MW-10, MW-11, MW-13, MW-14, MW-15, MW-17, MW-18, MW-20, MW-21, MW-22, MW-23, MW-24, and MW-25. Monitoring wells SB04, SB13, SB15, SB16, MW-6, MW-8, MW-11, MW-14, MW-17, 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 BTEX during the September 2019 sampling event. Benzene concentrations exceeding the NMWQQC standards ranged from 62 micrograms per liter ($\mu\text{g/L}$) in SB03 to 9,700 $\mu\text{g/L}$ in MW-15. Toluene concentrations exceeding the NMWQQC standards ranged from 1,100 $\mu\text{g/L}$ in SB06 to 14,000 $\mu\text{g/L}$ in MW-15. An ethylbenzene concentration exceeding the NMWQQC standard was only reported in MW-15 with a concentration of 840 $\mu\text{g/L}$. Total xylene concentrations exceeding the NMWQQC standards ranged from 690 $\mu\text{g/L}$ in SB03 to 10,000 $\mu\text{g/L}$ in MW-15.





Table 7 summarizes groundwater analytical results and Figure 3 depicts groundwater analytical results for the September 2019 monitoring events. Laboratory analytical results 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 fourth quarter of 2019. Sampling will continue to comply with the NMOCD Conditions of Approval.

During the fourth quarter of 2019, 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;
- 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 fourth quarterly 2019 report.

LTE recommends the following reduced groundwater monitoring schedule:

- Reduce to annual sampling: SB04, SB15, SB16, MW-4, MW-8, MW-11, MW-14, MW-17, and MW-22;





- 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;
- 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 Sandoval (Harvest) at 505-632-4625 if you have any questions or concerns.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in blue ink, appearing to read 'D. Burns', with a stylized flourish at the end.

Daniel Burns
Project Geologist

A handwritten signature in black ink, appearing to read 'Chris Shephard', with a stylized flourish at the end.

Chris Shephard
Chief Engineer

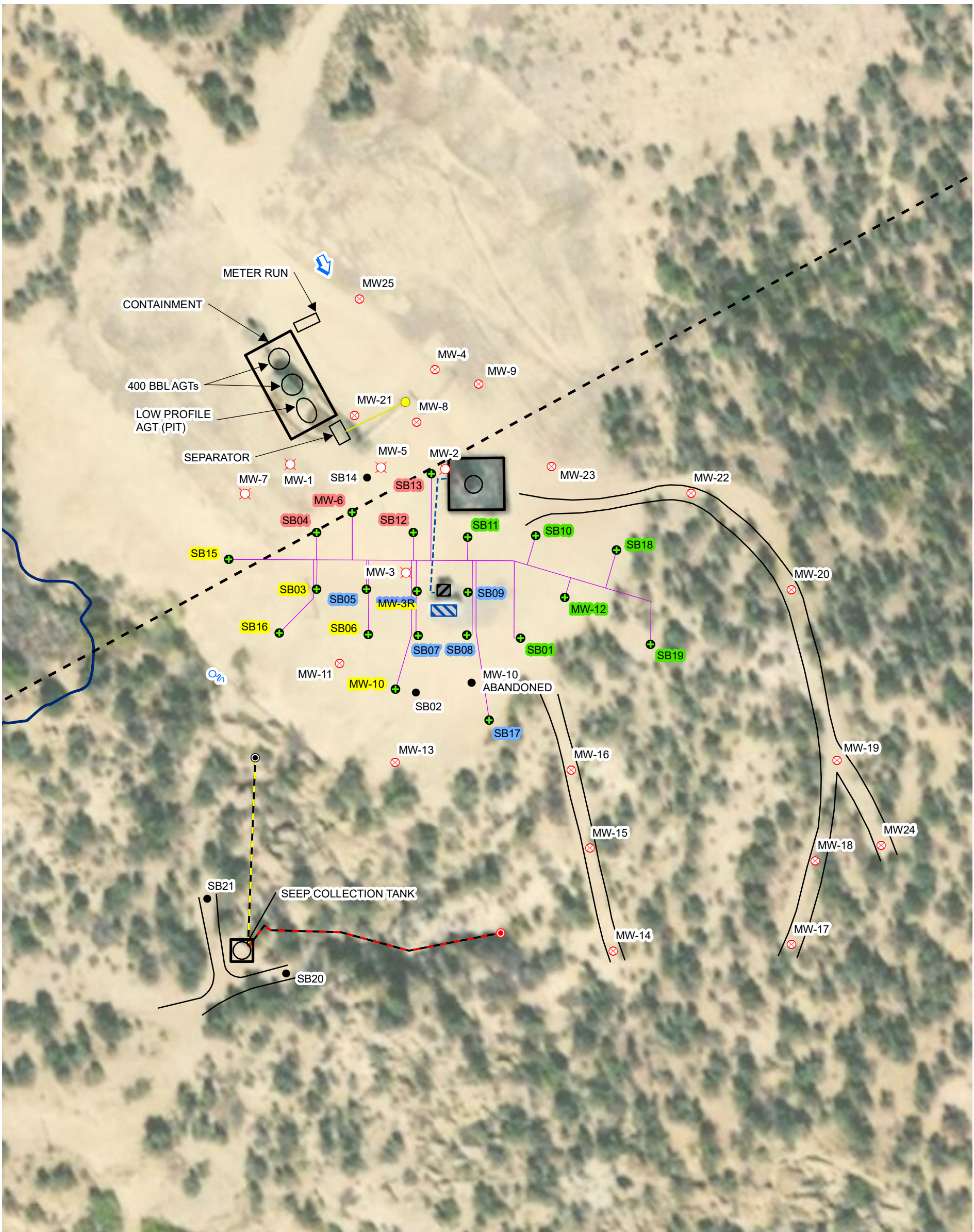
cc: Monica Sandoval, Harvest Four Corners, LLC





Attachments:

Figure 1	Remediation System Well Layout
Figure 2	September 2019 Groundwater Potentiometric Map
Figure 3	September 2019 Groundwater Analytical Results
Table 1	Remediation System Operational Run Time
Table 2	Extracted Air VOC Data - Third Quarter 2019
Table 3	Mass Removal Vapor Phase - Third Quarter 2019
Table 4	Fluid Recovery - Third Quarter 2019
Table 5	MPE System Operations - Third Quarter 2019
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 |

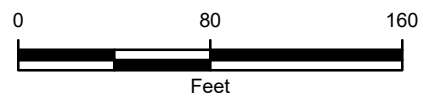


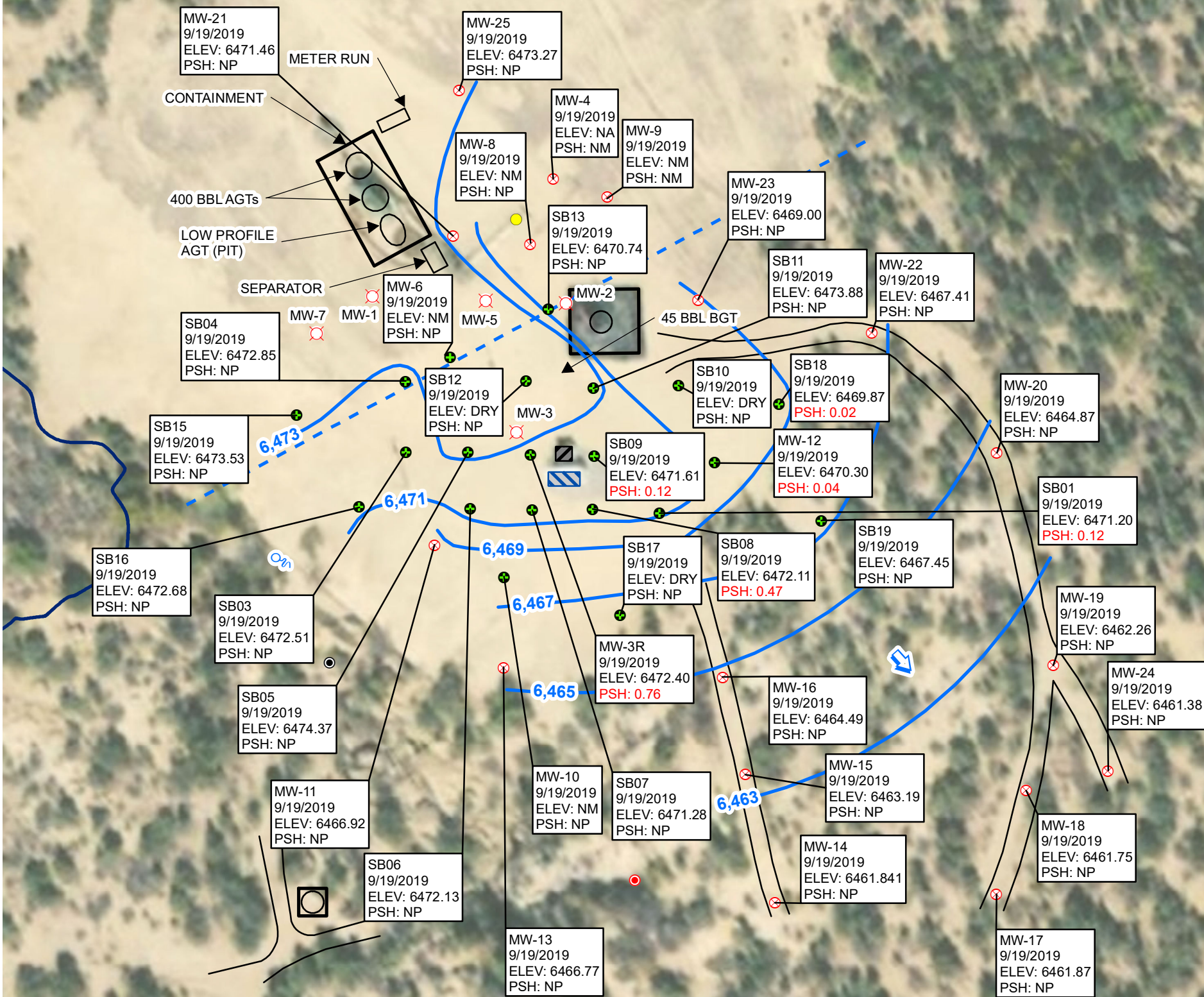
IMAGE COURTESY OF ESRI



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



LEGEND

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

IMAGE COURTESY OF ESRI

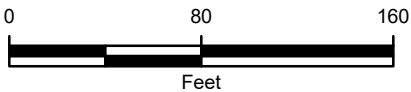


FIGURE 2
SEP 2019 GROUNDWATER POTENTIOMETRIC MAP
FLORANCE GC J#16A
UNIT P SEC 6 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC



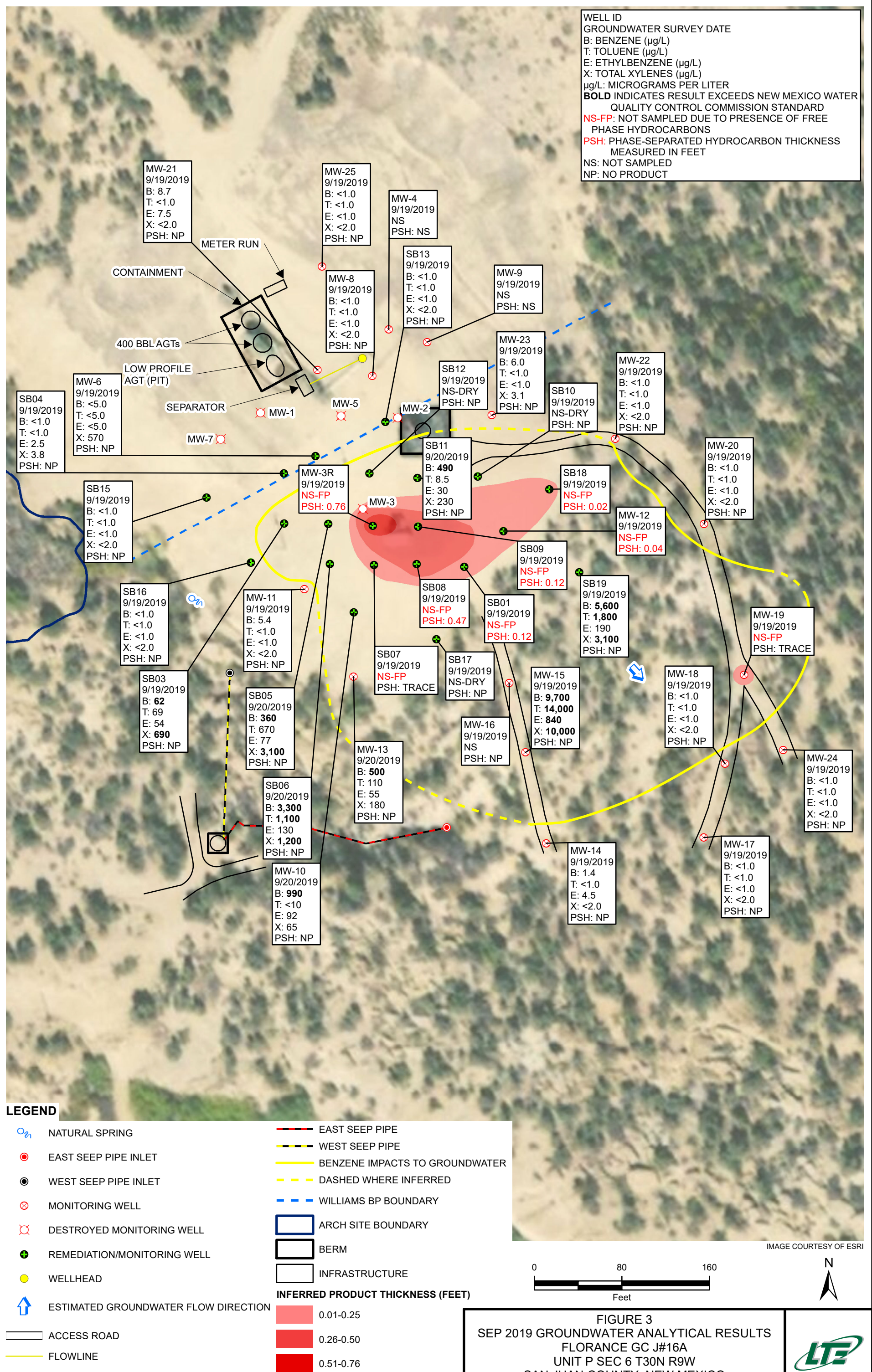


TABLE 1
REMEDIATION SYSTEMS OPERATIONAL RUN-TIME

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				
7/3/2019 12:00	9,549	93%	94%	Online after sampling
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 0:00	11,347	94%	97%	Quarterly GW Monitoring for Q3 2019
Average Q3 2019 Run Time			97%	

Notes:

% - percent

Dashed line indicates quarter change

TABLE 2
EXTRACTED AIR VOC DATA - THIRD QUARTER 2019

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

Collection Date:	7/12/2019	8/2/2019	8/16/2019	8/29/2019
Collection Time:	12:30	13:00	13:00	14:00
Active Remediation Zone:	4	1	2	3
Benzene (µg/L)	2.7	0.72	2.2	0.63
Toluene (µg/L)	9.7	1.8	5.6	1.6
Ethylbenzene (µg/L)	1.5	1.3	0.87	<0.50
Xylenes, Total (µg/L)	28	5.6	6.9	29
Gasoline Range Organics (GRO)	1,900	950	800	1,500
Total VOCs (µg/L):	41.9	9.42	15.57	31.23
PID Reading (ppm)	357	214	>15,000*	249

Note:

GRO - gasoline range organics

µg/L - micrograms per liter

ppm - parts per million

PID - photo-ionization detector

VOCs - volatile organic compounds

* - PID correction factor led to anomalously high reading

TABLE 3
MASS REMOVAL VAPOR PHASE - THIRD QUARTER 2019

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

Date/Time	Influent VOCs (mg/m ³)	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 ³)	Mass Removal Rate (lbs/day)	Mass Removal Rate (ton/yr)
7/3/19 0:00	54.6	3	250	971:45:00	58,305	67.1	10.6	1.7	0.3
7/12/19 12:30	41.9	4	356	228:30:00	13,710	11.7	1.9	1.2	0.2
8/2/19 13:00	9.4	1	218	504:30:00	30,270	28.1	4.5	1.3	0.2
8/16/19 13:00	15.6	2	292	336:00:00	20,160	2.6	0.4	0.2	0.0
8/29/19 14:30	31.2	3	302	313:30:00	18,810	5.3	0.8	0.4	0.1
9/20/19 13:45		4	261	527:15:00	31,635	18.6	3.0	0.8	0.2
Total Quantity of Hydrocarbon VOC Removed 3rd quarter 2019						66 lbs	10.5 gal	0.3 bbl	
Total Quantity of Hydrocarbon VOC Removed Since Start-up May 2018						2,447 lbs	478.5 gal	11.4 bbl	

Notes:

bbl - barrel

gal - gallons

g/cm³ - grams per cubic centimeter

hr - hour

lbs - pounds

lbs/day - pounds per day

mg/m³ - 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 - THIRD QUARTER 2019

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)	LNAPL Thickness (ft)	LNAPL Volume (gal)	Gallons Removed From Tank (Off-Site)	Time Period (hr:min:sec)	Time Period (min)	Recovery Rate		Notes
										(gpm)	(gal/day)	
3/28/19 10:30	7,398	57,525	57,525	84,825	0.03	25		331:50:00	19,910	2.89	4161	
4/11/19 10:00	7,688	61,875	4,350	89,175	0.03	25.38		335:30:00	20,130	0.22	311	
4/26/19 10:35	8,031	63,294	1,419	90,594	---	---	6,720	360:35:00	21,635	0.07	94	2 loads removed
5/9/19 13:15	8,345	69,721	6,427	97,021	---	---		314:40:00	18,880	0.34	490	
5/23/19 11:10	8,621	71,221	1,500	98,521	---	---	3,360	333:55:00	20,035	0.07	108	1 load removed
7/3/19 11:00	9,549	86,031	14,810	113,331	---	---		983:50:00	59,030	0.25	361	Frac tank replaced with permanent 400 bbl steel recovery tank
7/12/19 10:40	9,732	88,342	2,311	115,642	---	---		215:40:00	12,940	0.18	257	
8/2/19 10:15	10,236	89,840	1,498	117,140	---	---		503:35:00	30,215	0.05	71	
8/16/19 10:15	10,572	92,311	2,471	119,611	---	---		336:00:00	20,160	0.12	177	
8/29/19 10:00	10,884	94,213	1,902	121,513	---	---	6,720	311:45:00	18,705	0.10	146	2 loads removed
9/20/19 13:45	11,347	100,546	6,333	127,846	---	---		531:45:00	31,905	0.20	286	

Notes:

- bbl - barrel

ft - feet

gal - gallon

gal/day - gallon per day

gpm - gallon per minute

hr - hour
- in - inch

LNAPL - light non-aqueous phase liquid

min - minute

sec - second

Dashed line indicated quarter change

Total Quantity of Groundwater Removed:	127,846 Gal
	3,044 bbl



TABLE 5
MPE SYSTEM OPERATIONS - THIRD QUARTER 2019

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

Well ID		Unit	7/12/2019	8/2/2019	8/16/2019	8/29/2019	9/20/2019
Active Zone			4	1	2	3	4
MW-06 Zone 1	WH Vac (Online)	inHg		27.0			
	WH Vac (Offline)	inH2O					
	Mani Vac	inHg		17.5			
	PID	ppm		225.0			
	Flow	scfm		36.0			
SB-04 Zone 1	WH Vac (Online)	inHg		20.0			
	WH Vac (Offline)	inH2O					
	Mani Vac	inHg		18.0			
	PID	ppm		440.0			
	Flow	scfm		76.0			
SB-12 Zone 1	WH Vac (Online)	inHg		17.5			
	WH Vac (Offline)	inH2O					
	Mani Vac	inHg		18.0			
	PID	ppm		200.0			
	Flow	scfm		44.0			
SB-13 Zone 1	WH Vac (Online)	inHg		16.5			
	WH Vac (Offline)	inH2O					
	Mani Vac	inHg		18.0			
	PID	ppm		488.0			
	Flow	scfm		62.0			

TABLE 5
MPE SYSTEM OPERATIONS - THIRD QUARTER 2019

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

Well ID	Unit	7/12/2019	8/2/2019	8/16/2019	8/29/2019	9/20/2019
Active Zone		4	1	2	3	4
MW-12	WH Vac (Online)	inHg		14.0		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		14.0		
	PID	ppm		1,106		
	Flow	scfm		58.0		
SB-01	WH Vac (Online)	inHg		14.5		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		14.5		
	PID	ppm		6,733		
	Flow	scfm		52.0		
SB-10	WH Vac (Online)	inHg		14.5		
Zone 2	WH Vac (Offline)	inH2O		15.0		
	Mani Vac	inHg		15.0		
	PID	ppm		372		
	Flow	scfm		70.0		
SB-11	WH Vac (Online)	inHg		16.0		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		14.0		
	PID	ppm		4,777		
	Flow	scfm		50.0		
SB-18	WH Vac (Online)	inHg		5.0		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		15.0		
	PID	ppm		281.0		
	Flow	scfm		56.0		
SB-19	WH Vac (Online)	inHg		14.0		
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		14.5		
	PID	ppm		319.0		
	Flow	scfm		76.0		



TABLE 5
MPE SYSTEM OPERATIONS - THIRD QUARTER 2019

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

Well ID		Unit	7/12/2019	8/2/2019	8/16/2019	8/29/2019	9/20/2019
Active Zone			4	1	2	3	4
MW-3R	WH Vac (Online)	inHg				14.0	
Zone 3	WH Vac (Offline)	inH2O					
	Mani Vac	inHg				4.5	
	PID	ppm				154.0	
	Flow	scfm				62.0	
MW-10	WH Vac (Online)	inHg				14.5	
Zone 3	WH Vac (Offline)	inH2O					
	Mani Vac	inHg				15.0	
	PID	ppm				118.0	
	Flow	scfm				0.0	
SB-03	WH Vac (Online)	inHg				14.0	
Zone 3	WH Vac (Offline)	inH2O					
	Mani Vac	inHg				14.5	
	PID	ppm				96.0	
	Flow	scfm				38.0	
SB-06	WH Vac (Online)	inHg				14.5	
Zone 3	WH Vac (Offline)	inH2O					
	Mani Vac	inHg				15.5	
	PID	ppm				12.3	
	Flow	scfm				64.0	
SB-15	WH Vac (Online)	inHg				14.0	
Zone 3	WH Vac (Offline)	inH2O					
	Mani Vac	inHg				15.0	
	PID	ppm				31.0	
	Flow	scfm				58.0	
SB-16	WH Vac (Online)	inHg				15.0	
Zone 3	WH Vac (Offline)	inH2O					
	Mani Vac	inHg				16.0	
	PID	ppm				23.0	
	Flow	scfm				80.0	

TABLE 5
MPE SYSTEM OPERATIONS - THIRD QUARTER 2019

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

Well ID	Unit	7/12/2019	8/2/2019	8/16/2019	8/29/2019	9/20/2019
Active Zone		4	1	2	3	4
MW-3R	WH Vac (Online)	inHg	15.0			14.0
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	15.5			7.0
	PID	ppm	112.0			112
	Flow	scfm	78.0			75
SB-05	WH Vac (Online)	inHg	15.5			
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	15.0			
	PID	ppm	92.0			
	Flow	scfm	48.0			
SB-07	WH Vac (Online)	inHg	16.0			13.5
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	15.0			13.5
	PID	ppm	75.0			86
	Flow	scfm	56.0			58
SB-08	WH Vac (Online)	inHg	16.0			13.5
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	16.0			13.5
	PID	ppm	180.0			193
	Flow	scfm	62.0			62
SB-09	WH Vac (Online)	inHg	17.0			15.0
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	16.5			14.0
	PID	ppm	325.0			333
	Flow	scfm	72.0			66
SB-17	WH Vac (Online)	inHg	18.5			
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	15.5			
	PID	ppm	42.1			
	Flow	scfm	40.0			



TABLE 5
MPE SYSTEM OPERATIONS - THIRD QUARTER 2019

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

Well ID	Unit	7/12/2019	8/2/2019	8/16/2019	8/29/2019	9/20/2019
Active Zone		4	1	2	3	4
Well Field						
Total Flow in Active Zone	scfm	356.0	218.0	292.0	302.0	261

Notes:

in HG - inches of mercury

inH₂O - 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 ELEVATIONS 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
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
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
SB05	5/20/2017	6,498.76	28.27	NP	NP	6,470.49
	6/15/2017		28.24	NP	NP	6,470.52
	6/21/2018		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



TABLE 6
GROUNDWATER ELEVATIONS 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	6/13/2019	6,498.76	24.10	NP	NP	6,474.66
	9/19/2019		24.38	NP	NP	6,474.38
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
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
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
	9/17/2018		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
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



**TABLE 6
GROUNDWATER ELEVATIONS 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)
SB09	4/8/2019	6,504.18	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
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
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
	12/20/2018		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
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
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



**TABLE 6
GROUNDWATER ELEVATIONS 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)
SB13	12/20/2018	6,504.89	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
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
	4/8/2019		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
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
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
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



TABLE 6
GROUNDWATER ELEVATIONS 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	9/17/2018	6,506.38	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
	6/13/2019		37.00	36.52	0.48	6,469.76
	9/19/2019		36.52	36.50	0.02	6,469.87
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
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
MW-4*	6/15/2017	--	32.67	NP	NP	--
	6/13/2019		32.76	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	--
	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	--
MW-8*	6/15/2017	--	34.78	NP	NP	--

**TABLE 6
GROUNDWATER ELEVATIONS 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-8*	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	--
MW-9*	6/15/2017	--	35.71	NP	NP	--
	6/13/2019		42.57	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	--
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
	4/8/2019		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
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
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



TABLE 6
GROUNDWATER ELEVATIONS 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-13	6/21/2018	6,490.03	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
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
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
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
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

**TABLE 6
GROUNDWATER ELEVATIONS 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-17	12/20/2018	6,483.30	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
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
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
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
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
	4/8/2019		37.31	NP	NP	6,470.84
	6/13/2019		36.79	NP	NP	6,471.36



TABLE 6
GROUNDWATER ELEVATIONS 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	9/19/2019	6,508.15	36.69	NP	NP	6,471.46
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
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
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
MW-25	9/17/2018	6,507.65	34.61	NP	NP	6,473.04
	12/20/2018		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

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			
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
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
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			
	9/20/2019	360	670	77	3,100	NS	NS	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			

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)
SB06	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
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			
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			
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			
	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			
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			

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)
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
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			
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
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
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

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)
SB16	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
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			
	4/8/2019				NS-DRY			
	6/13/2019				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			
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
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			

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	6/15/2017	6.6	9.5	<1.0	8.7	0.27	<1.0	<5.0
	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			
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	89	15	150	1,600	12	4.3	<5.0
	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019	<10	<10	15	830	NS	NS	NS
	6/13/2019	13	7.5	<5.0	1,100	NS	NS	NS
	9/19/2019	<5.0	<5.0	<5.0	570	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
MW-9	6/15/2017	28	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			
	4/8/2019				Well Locked			
	6/14/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	9/19/2019				Well Locked			
MW-10	6/14/2017	13,000	8,800	510	2,900	66	8.1	<5.0
	10/23/2017				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)
MW-10	6/21/2018	8,600	2,400	260	2,000	40	19	<5.0
	9/18/2018	4,000	2,300	140	3,000	31	11	<5.0
	12/20/2018	960	180	24	170	3.7	31	13
	4/8/2019	520	<5.0	14	83	NS	NS	NS
	6/14/2019	420	<10	19	130	NS	NS	NS
	9/20/2019	990	<10	92	65	NS	NS	NS
MW-11	6/13/2017	36	7.6	2.7	11	0.67	<1.0	<5.0
	10/20/2017	28	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
MW-12	6/14/2017	14,000	11,000	460	5,400	75	4.6	<5.0
	10/20/2017	11,000	9,900	310	4,400	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			
MW-13	6/13/2017	76	8.0	33	27	1.6	<1.0	<5.0
	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
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

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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-14	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	
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	
	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			
9/19/2019		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	
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	
MW-19	10/18/2017	500	<1.0	<1.0	1.7	1.1	<1.0	<5.0	
	6/20/2018	1,400	3.0	1.3	70	2.9	<1.0	<5.0	
	9/19/2018	1,100	1,600	590	6,100	7.0	8.5	<5.0	
	12/20/2018	NS-LNAPL							

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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-19	4/8/2019	1,400	950	490	5,100	NS	NS	NS
	6/13/2019	740	520	240	3,400	NS	NS	NS
	9/19/2019	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
	9/19/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
MW-21	10/18/2017	940	340	180	2,000	7.8	2.5	<5.0
	6/22/2018	660	120	89	540	5.2	2.7	<5.0
	9/19/2018	320	28	120	110	3.0	2.7	<5.0
	12/21/2018	75	<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
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
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	44	<1.0	<1.0	<1.5	0.17	1.0	<5.0
	12/20/2018	65	<1.0	<1.0	<2.0	0.13	<1.0	<5.0
	4/8/2019	30	<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
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

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-25	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
	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
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

July 18, 2019

Danny Burns

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Florance

OrderNo.: 1907660

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/13/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1907660**

Date Reported: 7/18/2019

CLIENT: Harvest

Client Sample ID: Zone 4 Influent

Project: Florance

Collection Date: 7/12/2019 12:30:00 PM

Lab ID: 1907660-001

Matrix: AQUEOUS

Received Date: 7/13/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1900	25		µg/L	5	7/17/2019 9:40:04 AM	G61441
Surr: BFB	545	53-256	S	%Rec	5	7/17/2019 9:40:04 AM	G61441
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	2.7	0.50		µg/L	5	7/17/2019 9:40:04 AM	B61441
Toluene	9.7	0.50		µg/L	5	7/17/2019 9:40:04 AM	B61441
Ethylbenzene	1.5	0.50		µg/L	5	7/17/2019 9:40:04 AM	B61441
Xylenes, Total	28	1.0		µg/L	5	7/17/2019 9:40:04 AM	B61441
Surr: 4-Bromofluorobenzene	122	81.6-133		%Rec	5	7/17/2019 9:40:04 AM	B61441

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1907660

18-Jul-19

Client: Harvest
Project: Florance

Sample ID: 1907660-001ADUP		SampType: DUP		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: Zone 4 Influent		Batch ID: G61441		RunNo: 61441						
Prep Date:		Analysis Date: 7/17/2019		SeqNo: 2083124		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1800	25						2.68	20	
Surr: BFB	53000		10000		530	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#: 1907660

18-Jul-19

Client: Harvest
Project: Florance

Sample ID: 1907660-001ADUP		SampType: DUP		TestCode: EPA Method 8021B: Volatiles						
Client ID: Zone 4 Influent		Batch ID: B61441		RunNo: 61441						
Prep Date:		Analysis Date: 7/17/2019		SeqNo: 2083149		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.6	0.50						1.90	20	
Toluene	9.5	0.50						1.28	20	
Ethylbenzene	1.5	0.50						3.23	20	
Xylenes, Total	27	1.0						2.87	20	
Surr: 4-Bromofluorobenzene	12		10.00		121	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



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: 1907660

RcptNo: 1

Received By: Isaiah Ortiz

7/13/2019 8:30:00 AM

Completed By: Yazmine Garduno

7/15/2019 9:37:40 AM

Reviewed By: LB

7/15/19

ISO

Yazmine Garduno

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐ Not required

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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

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? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: DAD 7/15/19

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	NA	Good	Yes			



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

August 08, 2019

Monica Sandoval

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX:

RE: Florance GC J 16A

OrderNo.: 1908202

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/3/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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 **1908202**

Date Reported: **8/8/2019**

CLIENT: Harvest

Client Sample ID: Zone 1 Influent

Project: Florance GC J 16A

Collection Date: 8/2/2019 1:00:00 PM

Lab ID: 1908202-001

Matrix: AIR

Received Date: 8/3/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	950	25		µg/L	5	8/7/2019 12:36:12 PM	B61961
Surr: BFB	304	53-256	S	%Rec	5	8/7/2019 12:36:12 PM	B61961
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.2		µg/L	5	8/7/2019 12:36:12 PM	D61961
Benzene	0.72	0.50		µg/L	5	8/7/2019 12:36:12 PM	D61961
Toluene	1.8	0.50		µg/L	5	8/7/2019 12:36:12 PM	D61961
Ethylbenzene	1.3	0.50		µg/L	5	8/7/2019 12:36:12 PM	D61961
Xylenes, Total	5.6	1.0		µg/L	5	8/7/2019 12:36:12 PM	D61961
Surr: 4-Bromofluorobenzene	99.6	81.6-133		%Rec	5	8/7/2019 12:36:12 PM	D61961

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908202

08-Aug-19

Client: Harvest
Project: Florance GC J 16A

Sample ID: 1908202-001ADUP		SampType: DUP		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: Zone 1 Influent		Batch ID: B61961		RunNo: 61961						
Prep Date:		Analysis Date: 8/7/2019		SeqNo: 2101889		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	980	25						3.29	20	
Surr: BFB	31000		10000		309	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#: 1908202

08-Aug-19

Client: Harvest
Project: Florance GC J 16A

Sample ID: 1908202-001ADUP	SampType: DUP	TestCode: EPA Method 8021B: Volatiles								
Client ID: Zone 1 Influent	Batch ID: D61961	RunNo: 61961								
Prep Date:	Analysis Date: 8/7/2019	SeqNo: 2101927	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.2						0	20	
Benzene	0.72	0.50						0.695	20	
Toluene	1.8	0.50						0.0568	20	
Ethylbenzene	1.3	0.50						1.50	20	
Xylenes, Total	5.4	1.0						3.30	20	
Surr: 4-Bromofluorobenzene	9.9		10.00		99.3	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: 1908202

RcptNo: 1

Received By: Erin Melendrez

8/3/2019 9:30:00 AM

Completed By: Isaiah Ortiz

8/5/2019 3:28:08 PM

Reviewed By: LB

8/5/19



Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
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: EJM8/5/19

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

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



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

August 22, 2019

Danny Burns

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Florance GC J 16A

OrderNo.: 1908975

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/17/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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 **1908975**

Date Reported: **8/22/2019**

CLIENT: Harvest

Client Sample ID: Zone 2 Influent

Project: Florance GC J 16A

Collection Date: 8/16/2019 1:00:00 PM

Lab ID: 1908975-001

Matrix: AIR

Received Date: 8/17/2019 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	800	50		µg/L	10	8/21/2019 10:24:16 AM	G62309
Surr: BFB	130	53-256		%Rec	10	8/21/2019 10:24:16 AM	G62309
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	10	8/21/2019 10:24:16 AM	B62309
Benzene	2.2	1.0		µg/L	10	8/21/2019 10:24:16 AM	B62309
Toluene	5.6	1.0		µg/L	10	8/21/2019 10:24:16 AM	B62309
Ethylbenzene	0.87	0.50		µg/L	10	8/21/2019 10:24:16 AM	B62309
Xylenes, Total	6.9	2.0		µg/L	10	8/21/2019 10:24:16 AM	B62309
Surr: 4-Bromofluorobenzene	92.7	81.6-133		%Rec	10	8/21/2019 10:24:16 AM	B62309

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908975

22-Aug-19

Client: Harvest
Project: Florance GC J 16A

Sample ID: 1908975-001ADUP		SampType: DUP		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: Zone 2 Influent		Batch ID: G62309		RunNo: 62309						
Prep Date:		Analysis Date: 8/21/2019		SeqNo: 2117308		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	740	50						8.57	20	
Surr: BFB	25000		20000		126	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#: 1908975

22-Aug-19

Client: Harvest
Project: Florance GC J 16A

Sample ID: 1908975-001ADUP		SampType: DUP		TestCode: EPA Method 8021B: Volatiles						
Client ID: Zone 2 Influent		Batch ID: B62309		RunNo: 62309						
Prep Date:		Analysis Date: 8/21/2019		SeqNo: 2117348		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5						0	20	
Benzene	2.0	1.0						9.90	20	
Toluene	5.1	1.0						9.93	20	
Ethylbenzene	0.79	0.50						9.18	20	
Xylenes, Total	6.2	2.0						11.1	20	
Surr: 4-Bromofluorobenzene	18		20.00		89.7	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: **1908975**

RcptNo: 1

Received By: **Isaiah Ortiz**

8/17/2019 8:40:00 AM

I-Ortiz

Completed By: **Yazmine Garduno**

8/19/2019 9:53:48 AM

Yazmine Garduno

Reviewed By: *my*

08/19/19

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐ Not required
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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
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? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved bottles checked for pH:
(≤2 or >12 unless noted)

Adjusted? _____

Checked by: *DAD 8/19/19*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

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



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

September 09, 2019

Monica Sandoval

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX:

RE: Florance GC J 16A

OrderNo.: 1908I19

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/30/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1908119**

Date Reported: **9/9/2019**

CLIENT: Harvest

Client Sample ID: Zone 3 influent

Project: Florance GC J 16A

Collection Date: 8/29/2019 2:30:00 PM

Lab ID: 1908119-001

Matrix: AIR

Received Date: 8/30/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1500	25		µg/L	5	9/6/2019 9:33:00 AM	G62709
Surr: BFB	778	53-256	S	%Rec	5	9/6/2019 9:33:00 AM	G62709
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1.2		µg/L	5	9/6/2019 9:33:00 AM	B62709
Benzene	0.63	0.50		µg/L	5	9/6/2019 9:33:00 AM	B62709
Toluene	1.6	0.50		µg/L	5	9/6/2019 9:33:00 AM	B62709
Ethylbenzene	ND	0.50		µg/L	5	9/6/2019 9:33:00 AM	B62709
Xylenes, Total	29	1.0		µg/L	5	9/6/2019 9:33:00 AM	B62709
Surr: 4-Bromofluorobenzene	107	81.6-133		%Rec	5	9/6/2019 9:33:00 AM	B62709

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908I19

09-Sep-19

Client: Harvest
Project: Florance GC J 16A

Sample ID: 1908I19-001ADUP	SampType: DUP	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: Zone 3 influent	Batch ID: G62709	RunNo: 62709								
Prep Date:	Analysis Date: 9/6/2019	SeqNo: 2136739	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1600	25						7.22	20	
Surr: BFB	79000		10000		791	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#: 1908I19

09-Sep-19

Client: Harvest
Project: Florance GC J 16A

Sample ID: 1908I19-001ADUP	SampType: DUP	TestCode: EPA Method 8021B: Volatiles								
Client ID: Zone 3 influent	Batch ID: B62709	RunNo: 62709								
Prep Date:	Analysis Date: 9/6/2019	SeqNo: 2136752 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.2						0	20	
Benzene	0.66	0.50						4.80	20	
Toluene	1.7	0.50						9.01	20	
Ethylbenzene	ND	0.50						0	20	
Xylenes, Total	29	1.0						0.166	20	
Surr: 4-Bromofluorobenzene	11		10.00		108	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: 1908119

RcptNo: 1

Received By: Anne Thorne 8/30/2019 8:00:00 AM

Completed By: Anne Thorne 8/30/2019 9:00:11 AM

Reviewed By: TO 8/30/19

Anne Thorne

Anne Thorne

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
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: _____

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

[illegible]

Turn-Around Time:	☒ Standard ☐ Rush
Project Name:	Florence O-C J 16A
Project #:	

Project Manager: *Danny Burns - LTE*

Sampler: *Eric Carroll*
 On Ice: ☒ Yes ☐ No
 # of Coolers: *1*
 Cooler Temp (including CF): *4.6 g.s.c. = 4.1*

Container Type and #	Preservative Type	HEAL No.
2 Tedlar	none	1908119

--	--	--	--	--	--	--

Received by:	Via:	Date	Time
Christina	Hand	8/29/19	1525

John D. Bork 008014 0700

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks:

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/29	1525	Edie Carney	Mont Walt		8/29/19	1525
8/29/19	1752	Monty D. Walters	Mont Walt		8/30/19	0700

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.



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

September 30, 2019

Kijun Hong

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX:

RE: Florance GCJ 16A

OrderNo.: 1909B70

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 24 sample(s) on 9/21/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1909B70

Date Reported: 9/30/2019

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Harvest**Lab Order:** 1909B70**Project:** Florance GCJ 16A**Lab ID:** 1909B70-001**Collection Date:** 9/19/2019 3:15:00 PM**Client Sample ID:** MW-6**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	5.0		µg/L	5	9/25/2019 10:02:18 AM	B63198
Toluene	ND	5.0		µg/L	5	9/25/2019 10:02:18 AM	B63198
Ethylbenzene	ND	5.0		µg/L	5	9/25/2019 10:02:18 AM	B63198
Xylenes, Total	570	10		µg/L	5	9/25/2019 10:02:18 AM	B63198
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	5	9/25/2019 10:02:18 AM	B63198

Lab ID: 1909B70-002**Collection Date:** 9/19/2019 1:10:00 PM**Client Sample ID:** MW-8**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 2:49:33 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 2:49:33 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 2:49:33 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 2:49:33 PM	B63198
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	1	9/25/2019 2:49:33 PM	B63198

Lab ID: 1909B70-003**Collection Date:** 9/19/2019 2:41:00 PM**Client Sample ID:** MW-11**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	5.4	1.0		µg/L	1	9/25/2019 3:13:03 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 3:13:03 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 3:13:03 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 3:13:03 PM	B63198
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	1	9/25/2019 3:13:03 PM	B63198

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

Analytical Report

Lab Order: 1909B70

Date Reported: 9/30/2019

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Harvest**Lab Order:** 1909B70**Project:** Florance GCJ 16A**Lab ID:** 1909B70-004**Collection Date:** 9/19/2019 1:30:00 PM**Client Sample ID:** MW-14**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	1.4	1.0		µg/L	1	9/25/2019 3:36:31 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 3:36:31 PM	B63198
Ethylbenzene	4.5	1.0		µg/L	1	9/25/2019 3:36:31 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 3:36:31 PM	B63198
Surr: 4-Bromofluorobenzene	122	80-120	S	%Rec	1	9/25/2019 3:36:31 PM	B63198

Lab ID: 1909B70-005**Collection Date:** 9/19/2019 1:40:00 PM**Client Sample ID:** MW-15**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	9700	200		µg/L	200	9/25/2019 3:59:59 PM	B63198
Toluene	14000	200		µg/L	200	9/25/2019 3:59:59 PM	B63198
Ethylbenzene	840	200		µg/L	200	9/25/2019 3:59:59 PM	B63198
Xylenes, Total	10000	400		µg/L	200	9/25/2019 3:59:59 PM	B63198
Surr: 4-Bromofluorobenzene	97.3	80-120		%Rec	200	9/25/2019 3:59:59 PM	B63198

Lab ID: 1909B70-006**Collection Date:** 9/19/2019 11:10:00 AM**Client Sample ID:** MW-17**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 4:23:26 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 4:23:26 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 4:23:26 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 4:23:26 PM	B63198
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	9/25/2019 4:23:26 PM	B63198

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

Analytical Report

Lab Order: 1909B70

Date Reported: 9/30/2019

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Harvest**Lab Order:** 1909B70**Project:** Florance GCJ 16A**Lab ID:** 1909B70-007**Collection Date:** 9/19/2019 11:30:00 AM**Client Sample ID:** MW-18**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 4:47:05 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 4:47:05 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 4:47:05 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 4:47:05 PM	B63198
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	9/25/2019 4:47:05 PM	B63198

Lab ID: 1909B70-008**Collection Date:** 9/19/2019 11:45:00 AM**Client Sample ID:** MW-20**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 5:10:29 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 5:10:29 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 5:10:29 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 5:10:29 PM	B63198
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	9/25/2019 5:10:29 PM	B63198

Lab ID: 1909B70-009**Collection Date:** 9/19/2019 12:45:00 PM**Client Sample ID:** MW-21**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	8.7	1.0		µg/L	1	9/25/2019 5:33:53 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 5:33:53 PM	B63198
Ethylbenzene	7.5	1.0		µg/L	1	9/25/2019 5:33:53 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 5:33:53 PM	B63198
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/25/2019 5:33:53 PM	B63198

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

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

Analytical Report

Lab Order: 1909B70

Date Reported: 9/30/2019

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Harvest**Lab Order:** 1909B70**Project:** Florance GCJ 16A**Lab ID:** 1909B70-010**Collection Date:** 9/19/2019 12:05:00 PM**Client Sample ID:** MW-22**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 5:57:16 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 5:57:16 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 5:57:16 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 5:57:16 PM	B63198
Surr: 4-Bromofluorobenzene	92.2	80-120		%Rec	1	9/25/2019 5:57:16 PM	B63198

Lab ID: 1909B70-011**Collection Date:** 9/19/2019 12:20:00 PM**Client Sample ID:** MW-23**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	6.0	1.0		µg/L	1	9/25/2019 7:31:43 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 7:31:43 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 7:31:43 PM	B63198
Xylenes, Total	3.1	2.0		µg/L	1	9/25/2019 7:31:43 PM	B63198
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	9/25/2019 7:31:43 PM	B63198

Lab ID: 1909B70-012**Collection Date:** 9/19/2019 11:40:00 AM**Client Sample ID:** MW-24**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 7:55:10 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 7:55:10 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 7:55:10 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 7:55:10 PM	B63198
Surr: 4-Bromofluorobenzene	127	80-120	S	%Rec	1	9/25/2019 7:55:10 PM	B63198

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

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

Analytical Report

Lab Order: 1909B70

Date Reported: 9/30/2019

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Harvest**Lab Order:** 1909B70**Project:** Florance GCJ 16A**Lab ID:** 1909B70-013**Collection Date:** 9/19/2019 12:35:00 PM**Client Sample ID:** MW-25**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 8:18:37 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 8:18:37 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 8:18:37 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 8:18:37 PM	B63198
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	1	9/25/2019 8:18:37 PM	B63198

Lab ID: 1909B70-014**Collection Date:** 9/19/2019 2:35:00 PM**Client Sample ID:** SB-03**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	62	50		µg/L	50	9/25/2019 8:42:17 PM	B63198
Toluene	69	50		µg/L	50	9/25/2019 8:42:17 PM	B63198
Ethylbenzene	54	50		µg/L	50	9/25/2019 8:42:17 PM	B63198
Xylenes, Total	690	100		µg/L	50	9/25/2019 8:42:17 PM	B63198
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	50	9/25/2019 8:42:17 PM	B63198

Lab ID: 1909B70-015**Collection Date:** 9/19/2019 3:10:00 PM**Client Sample ID:** SB-04**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 9:29:22 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 9:29:22 PM	B63198
Ethylbenzene	2.5	1.0		µg/L	1	9/25/2019 9:29:22 PM	B63198
Xylenes, Total	3.8	2.0		µg/L	1	9/25/2019 9:29:22 PM	B63198
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	9/25/2019 9:29:22 PM	B63198

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

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

Analytical Report

Lab Order: 1909B70

Date Reported: 9/30/2019

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Harvest**Lab Order:** 1909B70**Project:** Florance GCJ 16A**Lab ID:** 1909B70-016**Collection Date:** 9/19/2019 1:00:00 PM**Client Sample ID:** SB-13**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 10:16:29 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 10:16:29 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 10:16:29 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 10:16:29 PM	B63198
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	9/25/2019 10:16:29 PM	B63198

Lab ID: 1909B70-017**Collection Date:** 9/19/2019 2:05:00 PM**Client Sample ID:** SB-15**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 10:40:14 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 10:40:14 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 10:40:14 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 10:40:14 PM	B63198
Surr: 4-Bromofluorobenzene	97.6	80-120		%Rec	1	9/25/2019 10:40:14 PM	B63198

Lab ID: 1909B70-018**Collection Date:** 9/19/2019 1:10:00 PM**Client Sample ID:** SB-16**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/25/2019 11:04:12 PM	B63198
Toluene	ND	1.0		µg/L	1	9/25/2019 11:04:12 PM	B63198
Ethylbenzene	ND	1.0		µg/L	1	9/25/2019 11:04:12 PM	B63198
Xylenes, Total	ND	2.0		µg/L	1	9/25/2019 11:04:12 PM	B63198
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	9/25/2019 11:04:12 PM	B63198

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

Analytical ReportLab Order: **1909B70**Date Reported: **9/30/2019****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Harvest**Lab Order:** 1909B70**Project:** Florance GCJ 16A**Lab ID:** 1909B70-019**Collection Date:** 9/20/2019 12:45:00 PM**Client Sample ID:** MW-10**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	990	10		µg/L	10	9/25/2019 11:27:58 PM	B63198
Toluene	ND	10		µg/L	10	9/25/2019 11:27:58 PM	B63198
Ethylbenzene	92	10		µg/L	10	9/25/2019 11:27:58 PM	B63198
Xylenes, Total	65	20		µg/L	10	9/25/2019 11:27:58 PM	B63198
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	10	9/25/2019 11:27:58 PM	B63198

Lab ID: 1909B70-020**Collection Date:** 9/20/2019 11:45:00 AM**Client Sample ID:** MW-13**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	500	5.0		µg/L	5	9/25/2019 11:51:51 PM	B63198
Toluene	110	5.0		µg/L	5	9/25/2019 11:51:51 PM	B63198
Ethylbenzene	55	5.0		µg/L	5	9/25/2019 11:51:51 PM	B63198
Xylenes, Total	180	10		µg/L	5	9/25/2019 11:51:51 PM	B63198
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	5	9/25/2019 11:51:51 PM	B63198

Lab ID: 1909B70-021**Collection Date:** 9/20/2019 11:40:00 AM**Client Sample ID:** SB-05**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	360	50		µg/L	50	9/26/2019 10:46:37 AM	B63237
Toluene	670	50		µg/L	50	9/26/2019 10:46:37 AM	B63237
Ethylbenzene	77	50		µg/L	50	9/26/2019 10:46:37 AM	B63237
Xylenes, Total	3100	100		µg/L	50	9/26/2019 10:46:37 AM	B63237
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	50	9/26/2019 10:46:37 AM	B63237

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

Analytical Report

Lab Order: 1909B70

Date Reported: 9/30/2019

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Harvest**Lab Order:** 1909B70**Project:** Florance GCJ 16A**Lab ID:** 1909B70-022**Collection Date:** 9/20/2019 12:10:00 PM**Client Sample ID:** SB-06**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	3300	50		µg/L	50	9/26/2019 12:18:17 PM	B63237
Toluene	1100	50		µg/L	50	9/26/2019 12:18:17 PM	B63237
Ethylbenzene	130	50		µg/L	50	9/26/2019 12:18:17 PM	B63237
Xylenes, Total	1200	100		µg/L	50	9/26/2019 12:18:17 PM	B63237
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	50	9/26/2019 12:18:17 PM	B63237

Lab ID: 1909B70-023**Collection Date:** 9/20/2019 12:05:00 PM**Client Sample ID:** SB-11**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	490	20		µg/L	20	9/26/2019 1:27:14 PM	B63237
Toluene	8.5	5.0		µg/L	5	9/26/2019 1:50:09 PM	B63237
Ethylbenzene	30	5.0		µg/L	5	9/26/2019 1:50:09 PM	B63237
Xylenes, Total	230	10		µg/L	5	9/26/2019 1:50:09 PM	B63237
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	5	9/26/2019 1:50:09 PM	B63237

Lab ID: 1909B70-024**Collection Date:** 9/20/2019 12:25:00 PM**Client Sample ID:** SB-19**Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	5600	100		µg/L	100	9/26/2019 2:36:03 PM	B63237
Toluene	1800	100		µg/L	100	9/26/2019 2:36:03 PM	B63237
Ethylbenzene	190	100		µg/L	100	9/26/2019 2:36:03 PM	B63237
Xylenes, Total	3100	200		µg/L	100	9/26/2019 2:36:03 PM	B63237
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	100	9/26/2019 2:36:03 PM	B63237

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1909B70

30-Sep-19

Client: Harvest
Project: Florance GCJ 16A

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBW	Batch ID: B63198	RunNo: 63198								
Prep Date:	Analysis Date: 9/25/2019	SeqNo: 2156043		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		96.6	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSW	Batch ID: B63198	RunNo: 63198								
Prep Date:	Analysis Date: 9/25/2019	SeqNo: 2156044		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	80	120			
Toluene	21	1.0	20.00	0	106	80	120			
Ethylbenzene	21	1.0	20.00	0	105	80	120			
Xylenes, Total	64	2.0	60.00	0	107	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		103	80	120			

Sample ID: 1909B70-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: MW-6	Batch ID: B63198	RunNo: 63198								
Prep Date:	Analysis Date: 9/25/2019	SeqNo: 2156046		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	97	5.0	100.0	0	97.3	80	120			
Toluene	98	5.0	100.0	0	98.2	75.5	120			
Ethylbenzene	100	5.0	100.0	0	104	80	120			
Xylenes, Total	750	10	300.0	570.8	60.5	77.3	119			S
Surr: 4-Bromofluorobenzene	100		100.0		100	80	120			

Sample ID: 1909B70-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: MW-6	Batch ID: B63198	RunNo: 63198								
Prep Date:	Analysis Date: 9/25/2019	SeqNo: 2156047		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	95	5.0	100.0	0	95.3	80	120	2.09	20	
Toluene	96	5.0	100.0	0	95.6	75.5	120	2.71	20	
Ethylbenzene	98	5.0	100.0	0	98.2	80	120	5.61	20	
Xylenes, Total	730	10	300.0	570.8	53.4	77.3	119	2.89	20	S
Surr: 4-Bromofluorobenzene	100		100.0		101	80	120	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#: 1909B70

30-Sep-19

Client: Harvest
Project: Florance GCJ 16A

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBW	Batch ID: B63237	RunNo: 63237								
Prep Date:	Analysis Date: 9/26/2019	SeqNo: 2158109		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	19		20.00		97.1	80	120			

Sample ID: 100NG BTEX LCSB	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSW	Batch ID: B63237	RunNo: 63237								
Prep Date:	Analysis Date: 9/26/2019	SeqNo: 2158110		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.6	80	120			
Toluene	20	1.0	20.00	0	98.4	80	120			
Ethylbenzene	20	1.0	20.00	0	98.9	80	120			
Xylenes, Total	59	2.0	60.00	0	98.3	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		103	80	120			

Sample ID: 1909B70-022AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-06	Batch ID: B63237	RunNo: 63237								
Prep Date:	Analysis Date: 9/26/2019	SeqNo: 2158113		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4400	50	1000	3265	113	80	120			
Toluene	2200	50	1000	1097	107	75.5	120			
Ethylbenzene	1200	50	1000	129.8	105	80	120			
Xylenes, Total	4400	100	3000	1222	106	77.3	119			
Surr: 4-Bromofluorobenzene	1100		1000		108	80	120			

Sample ID: 1909B70-022AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-06	Batch ID: B63237	RunNo: 63237								
Prep Date:	Analysis Date: 9/26/2019	SeqNo: 2158114		Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	4300	50	1000	3265	100	80	120	2.95	20	
Toluene	2300	50	1000	1097	125	75.5	120	8.06	20	S
Ethylbenzene	1500	50	1000	129.8	135	80	120	22.2	20	RS
Xylenes, Total	5100	100	3000	1222	131	77.3	119	15.7	20	S
Surr: 4-Bromofluorobenzene	1100		1000		108	80	120	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



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: **1909B70**

RcptNo: 1

Received By: **Yazmine Garduno**

9/21/2019 8:50:00 AM

Yazmine Garduno

Completed By: **Yazmine Garduno**

9/21/2019 12:06:58 PM

Yazmine Garduno

Reviewed By:

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°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. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
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: **DAD 9/23/19**

Special Handling (if applicable)

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

Person Notified: Danny Burns

Date: 9/27/19

By Whom: Yazmine G.

Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person

Regarding: The collect date on bottle w/ a 19/19 on COC 9/20/19

Client Instructions: LM - did not hear back, reported time on COC

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.2	Good				

Chain-of-Custody Record				Turn-Around Time:	
Client:		☒ Standard ☐ Rush		Project Name:	
Mailing Address:		Project #:		Project Manager:	
Phone #:		Sampler:		On Ice: ☒ Yes ☐ No	
email or Fax#:		# of Coolers:		Cooler Temp (including CP):	
QA/QC Package:		Container Type and #		Preservative Type	
☒ Standard ☐ Level 4 (Full Validation)		HEAL No.			
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other		Type and #		Type	
☒ EDD (Type) <u>PDT</u>		Type and #		Type	
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type
9/14	1235	water	MW-25	3 VOA's	HCl
	1435		SB-03		-013
	1510		SB-04		-014
	1300		SB-13		-015
	1405		SB-15		-016
	1340		SB-16		-017
9/20	1245		MW-10		-018
	1145		MW-13		-019
	1140		SB-05		-020
	1210		SB-06		-021
	1205		SB-11		-022
	1225		SB-19		-023
Date	Time	Relinquished by:	Relinquished by:	Received by:	Date
9/20	1555	Eddie Carroll	Eddie Carroll	Chadwick	9/20/15
Date	Time	Relinquished by:	Relinquished by:	Received by:	Date
9/20/15	1837	Chadwick	Chadwick	Chadwick	9/20/15

Turn-Around Time:			
☒ Standard		☐ Rush	
Project Name: Florence GCJ 16A			
Project #:			
Project Manager: Danny Burns			
Sampler: E. Carroll / T. Short			
On Ice:		☒ Yes ☐ No	
# of Coolers: 1			
Cooler Temp (including CF): 4.1 + 0.1 = 4.2			
Container Type and #	Preservative Type	HEAL No.	
3 VOA's	HCl	140A1310	
		-013	
		-014	
		-015	
		-016	
		-017	
		-018	
		-019	
		-020	
		-021	
		-022	
		-023	
		-024	
Received by: [Signature]		Via:	Date: 9/20/19 1558
Received by: [Signature]		Via:	Date: 9/20/19 1558



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

[illegible]

Remarks:	Please cc: ecarroll@itenk.com
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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.