2Q 2019

SVE/MPE Report

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NCS1629854256
District RP	3RP-364
Facility ID	
Application ID	

Release Notification

Reviewed Any Conditions sent with Q4 Report. Q2-19 accepted for Record.

Responsible Party

Responsible Party	Harvest Four Corners. LLC	OGRID	37388
Contact Name	Monica Smith	Contact Telephone	505-632-4625
Contact email	msmith@harvestmidstream.com	Incident # *(assigned by OCD)*	NCS1629854256
Contact mailing address	1755 Arroyo Drive, Bloomfield, New Mexico 87413		

Location of Release Source

Latitude 36.835162 Longitude -107.816092
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Florance Gas Com J#16A	Site Type	Pipeline, production pad, former BGT
Date Release Discovered	Historical	API# *(if applicable)*	30-045-21790

Unit Letter	Section	Township	Range	County
P	6	30N	9W	San Juan

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls) Unknown	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Historical release(s) on location from potential multiple sources.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Impacts to groundwater and LNAPL have been observed on location.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Previous C-141 forms have been submitted under the previous operator to the NMOCD on November 6, 2016 and May 8, 2017.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Monica Smith
Title: Environmental Specialist

Signature: MonicaSmith
Date: 6/27/2019

email: msmith@harvestmidstream.com
Telephone: 505-632-4625

OCD Only

Received by: _____
Date: _____

State of New Mexico
Oil Conservation Division

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	15 (ft bgs)
Did this release impact groundwater or surface water?	☒ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☒ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Monica Smith Title: Environmental Specialist

Signature: MonicaSmith Date: 6/27/2019

email: msmith@harvestmidstream.com Telephone: 505-632-4625

OCD Only

Received by: _____ Date: _____

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Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Monica Smith Title: Environmental Specialist

Signature: MonicaSmith Date: 6/27/2019

email: msmith@harvestmidstream.com Telephone: 505-632-4625

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NCS1629854256
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Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Monica Smith Title: Environmental Specialist

Signature: _____ Date: _____

email: msmith@harvestmidstream.com Telephone: 505-632-4625

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

LT Environmental, Inc.
848 East Second Avenue
Durango, Colorado 81301
970.385.1096

July 31, 2019

Reviewed Any Conditions sent with Q4 Report. Q2-19 accepted for Record.

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

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 second quarter of 2019 at the Florance Gas Com J16A (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 March 29, 2019 through July 3, 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 second 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 July 3, 2019.

Vapor Recovery

- The run time for the remediation system listed in Table 1 indicates an average run time for the second quarter of 92 percent (%), with a cumulative overall run time of 93%. 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 second 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 2,586 pounds (lbs) of VOCs. In the second quarter 2019, the calculated mass removal rate based on VOC data varied from 1.6 lbs per day to 3.1 lbs per day. A total of 205 lbs of VOCs were removed during the second quarter of 2019 through July 3, 2019.

Fluid Recovery

- Fluid recovery efforts are summarized in Table 4. During the second 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 March 28, 2019, 98,521 gallons of 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 second quarter of 2019. The specific zones and period of operation are indicated in this table.

CONCRETE TRAP/SECONDARY SEEP MONITORING

During the second 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 was 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 June 13, 2019. LTE monitored groundwater elevation 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 June 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 and submitted for BTEX, 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 will 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. 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 June 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 aquifer conditions. 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 second quarter 2109 monitoring event, PSH was measurable in six monitoring wells and PSH was observed in four additional wells during purging. Measurable product thickness ranges from 0.04 feet in SB08 to 0.48 feet in MW-12.

A total of 24 groundwater samples were collected from the following monitoring wells: SB04, SB06, SB11, SB13, SB15, SB16, SB19, MW-4, MW-6, MW-8, MW-9, MW-10, MW-11, MW-13, MW-14, MW-15, MW-17 through MW-22, MW-24, and MW-25. Monitoring wells SB04, SB13, SB15, SB16, MW-4, MW-8, MW-9, MW-11, MW-14, MW-17, MW-18, MW-20, MW-21, MW-22, MW-24 and MW-25 did not exceed the NMWQQC standards for any constituent of BETX during the June 2019 sampling event. Benzene concentrations exceeding the NMWQQC standards ranged from 13 micrograms per liter (µg/L) in MW-6 to 8,100 µg/L in MW-15. Toluene concentrations exceeding the NMWQQC standards ranged from 1,500 µg/L in SB06 to 14,000 µg/L in MW-15. An ethylbenzene concentrations exceeding the NMWQQC standard was only reported in MW-15 with a concentration of 960 µg/L. Total xylene concentrations exceeding the NMWQQC standards ranged from 760 µg/L in SB11 to 11,000 µg/L in MW-15.

Table 7 summarizes groundwater analytical results and Figure 3 depicts groundwater analytical results for the June 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 third quarter of 2019. Sampling will continue to comply with the NMOCD Conditions of Approval.

During the third quarter of 2019, the following will be completed:

- Bi-weekly 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 third quarterly 2019 report.

LTE recommends evaluating the groundwater sampling schedule and will propose a reduced monitoring schedule.

Reporting

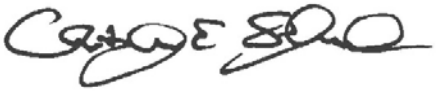
Quarterly system operation reports will continue to be prepared and submitted to NMOCD within 30 days following the end of each quarter and will continue to include:

- 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.



Daniel Burns
Project Geologist

Chris Shephard
Chief Engineer

cc: Monica Sandoval, Harvest Four Corners, LLC

Attachments:

Figure 1	Remediation System Well Layout
Figure 2	June 2019 Groundwater Potentiometric Map
Figure 3	June 2019 Groundwater Analytical Results
Table 1	Remediation System Operational Run Time
Table 2	Extracted Air VOC Data - Second Quarter 2019
Table 3	Mass Removal Vapor Phase - Second Quarter 2019
Table 4	Fluid Recovery - Second Quarter 2019
Table 5	MPE System Operations - Second Quarter 2019
Table 6	Groundwater Elevation Summary

Table 7 Groundwater Analytical Results
Attachment 1 Laboratory Analytical Reports

FIGURES

METER RUN
CONTAINMENT
400 BBL AGTs
LOW PROFILE AGT (PIT)
SEPARATOR
MW25
MW-4
MW-9
MW-21
MW-8
MW-5
MW-2
MW-23
MW-7
MW-1
SB14
SB13
MW-22
MW-6
SB04
SB12
SB11
SB10
SB18
SB15
MW-3
MW-20
SB03
SB05
SB09
MW-3R
MW-12
SB16
SB06
SB07
SB08
SB01
SB19
MW-11
MW-10
MW-10 ABANDONED
SB02
SB17
MW-13
MW-16
MW-19
MW-15
MW24
MW-18
SB21
MW-14
MW-17
SB20

LEGEND

- NATURAL SPRING
- EAST SEEP PIPE INLET
- WEST SEEP PIPE INLET
- GPS MONITORING WELL
- DESTROYED MONITORING WELL
- REMEDIATION/MONITORING WELL
- SOIL BORING
- WELLHEAD
- ESTIMATED GROUNDWATER FLOW DIRECTION
- CONDENSATE SUMP
- FLOWLINE
- EAST SEEP PIPE
- WEST SEEP PIPE
- UNDER GROUND LINE
- REMEDIATION SYSTEM PIPING
- REMEDIATION RESPONSIBILITY DEMARCATION LINE
- ACCESS ROAD
- ARCH SITE BOUNDARY
- CONTROL BUILDING
- MPE SYSTEM
- FLUID RECOVERY/STORAGE TANK

RED TEXT INDICATES ZONE 01
GREEN TEXT INDICATES ZONE 02
YELLOW TEXT INDICATES ZONE 03
BLUE TEXT INDICATES ZONE 04

IMAGE COURTESY OF ESRI

0 80 160
Feet

N

FIGURE 1
REMEDIATION SYSTEM LAYOUT
FLORANCE GCJ #16A
SAN JUAN COUNTY, NEW MEXICO

HARVEST MIDSTREAM COMPANY

P:\Harvest Midstream\GIS\MXD\090318001_FLORANCE GCJ 16A\090318001_FIG01_REM_SYS_LAYOUT_2018.mxd

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

MW-21
6/13/2019
ELEV: 6,471.36
PSH: NP

METER RUN

MW25
6/13/2019
ELEV: 6,473.25
PSH: NP

MW-4
6/13/2019
ELEV: NM
PSH: NP

EXCAVATION EXTENT
4/4/2017

CONTAINMENT

MW-8
6/13/2019
ELEV: NM
PSH: NP

SB13
6/13/2019
ELEV: 6,470.41
PSH: NP

MW-9
6/13/2019
ELEV: NM
PSH: NP

400 BBL AGTs

SB11
6/13/2019
ELEV: 6,473.50
PSH: NP

MW-23
6/13/2019
ELEV: 6,468.58
PSH: NP

LOW PROFILE
AGT (PIT)

SB12
6/13/2019
ELEV: 6,473.51
PSH: NP

SEPARATOR

MW-6
6/22/2018
ELEV: NM
PSH: NP

MW-2

MW-22
6/13/2019
ELEV: 6,467.57
PSH: NP

SB04
6/13/2019
ELEV: 6,472.63
PSH: NP

MW-7

MW-1

MW-5

45 BBL BGT

SB10
6/13/2019
ELEV: DRY
PSH: NP

SB18
6/13/2019
ELEV: 6,469.76
PSH: 0.48

MW-20
6/13/2019
ELEV: 6,464.66
PSH: NP

MW-3

SB15
6/13/2019
ELEV: 6,473.74
PSH: NP

MW-12
6/13/2019
ELEV: 6,469.95
PSH: 0.16

SB19
6/13/2019
ELEV: 6,468.76
PSH: NP

SB16
6/13/2019
ELEV: 6,473.21
PSH: NP

6,473

6,471

6,469

SB08
6/13/2019
ELEV: 6,471.75
PSH: 0.04

SB01
6/13/2019
ELEV: 6,470.94
PSH: 0.37

SB09
6/13/2019
ELEV: 6,471.45
PSH: 0.08

MW-19
6/13/2019
ELEV: 6,462.20
PSH: 0.14

SB03
6/13/2019
ELEV: 6,472.49
PSH: NP

6,467

SB05
6/13/2019
ELEV: 6,474.66
PSH: NP

6,465

SB17
6/13/2019
ELEV: DRY
PSH: NP

MW-16
6/13/2019
ELEV: DRY
PSH: NP

MW-24
6/13/2019
ELEV: 6,461.27
PSH: NP

MW-11
6/13/2019
ELEV: 6,467.31
PSH: NP

SB07
6/13/2019
ELEV: 6,471.02
PSH: NP

6,463

MW-3R
6/13/2019
ELEV: 6,470.58
PSH: 0.05

MW-15
6/13/2019
ELEV: 6,463.36
PSH: NP

MW-18
6/13/2019
ELEV: 6,461.63
PSH: NP

SB06
6/13/2019
ELEV: 6,472.31
PSH: NP

MW-10
6/13/2019
ELEV: NM
PSH: NP

MW-13
6/13/2019
ELEV: 6,466.89
PSH: NP

MW-14
6/13/2019
ELEV: 6,461.14
PSH: NP

MW-17
6/13/2019
ELEV: 6,461.69
PSH: NP

LEGEND

- NATURAL SPRING
- EAST SEEP PIPE INLET
- WEST SEEP PIPE INLET
- MONITORING WELL
- DESTROYED MONITORING WELL
- REMEDIATION/MONITORING WELL
- WELLHEAD
- ESTIMATED GROUNDWATER FLOW DIRECTION
- ACCESS ROAD
- RELATIVE GROUNDWATER ELEVATION CONTOUR
- CONTOUR INTERVAL = 2.0 FEET
- ARCH SITE BOUNDARY

IMAGE COURTESY OF ESRI

0 80 160
Feet

N

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

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WELL ID
GROUNDWATER SURVEY DATE
B: BENZENE (µg/L)
T: TOLUENE (µg/L)
E: ETHYLBENZENE (µg/L)
X: TOTAL XYLENES (µg/L)
µg/L: MICROGRAMS PER LITER
BOLD INDICATES RESULT EXCEEDS NEW MEXICO WATER QUALITY CONTROL COMMISSION STANDARD
NS-FP: NOT SAMPLED DUE TO PRESENCE OF FREE PHASE HYDROCARBONS
PSH: PHASE-SEPARATED HYDROCARBON THICKNESS MEASURED IN FEET
NS: NOT SAMPLED
NP: NO PRODUCT

EXCAVATION EXTENT 4/4/2017

MW-21 6/14/2019 B: 2.6 T: <1.0 E: 5.5 X: 2.6 PSH: NP

MW25 6/14/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

MW-4 6/14/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NM

METER RUN

CONTAINMENT

MW-8 6/14/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

SB13 6/14/2019 B: 1.5 T: <1.0 E: <1.0 X: <2.0 PSH: NP

MW-9 6/14/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

400 BBL AGTs

LOW PROFILE AGT (PIT)

SEPARATOR

MW-6 6/13/2019 B: **13** T: 7.5 E: <5.0 X: **1,100** PSH: NP

SB04 6/13/2019 B: <5.0 T: <5.0 E: 19 X: 57 PSH: NP

MW-1

MW-5

MW-2

MW-7

SB12 6/13/2019 NS-FP PSH: TRACE

MW-23 6/23/2019 NS-DRY

MW-22 6/13/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

SB11 6/14/2019 **B:1,200** T: 7.1 E: 94 **X: 760** PSH: NP

SB10 6/13/2019 NS-DRY

SB18 6/13/2019 NS-FP PSH: 0.48

MW-20 6/13/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

SB15 6/13/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

SB07 6/13/2019 NS-FP PSH: TRACE

MW-3

MW-12 6/13/2019 NS-FP PSH: 0.16

SB03 6/13/2019 NS-FP PSH: TRACE

SB05 6/13/2019 NS-FP PSH: TRACE

SB08 6/13/2019 NS-FP PSH: 0.04

SB01 6/13/2019 NS-FP PSH: 0.37

SB09 6/20/2018 NS-FP PSH: 0.08

SB19 6/14/2019 B: **5,200** T: **2,100** E: 250 X: **3,600** PSH: NP

MW-19 6/13/2019 B: **740** T: 520 E: 240 X: **3,4000** PSH: NP

SB16 6/13/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

MW-11 6/14/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

SB06 6/14/2019 **B: 4,400** **T: 1,500** E: 190 **X: 2,900** PSH: NP

MW-3R 6/13/2019 NS-FP PSH: 0.05

SB17 6/13/2019 NS-DRY

MW24 6/13/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

MW-16 6/20/2018 NS-DRY

MW-10 6/14/2019 B: **420** T: <10 E: 19 X: 130 PSH: NP

MW-13 6/14/2019 B: **740** T: 21 E: 96 X: 200 PSH: NP

MW-15 6/13/2019 B: **8,100** T: **14,000** E: **960** X: **11,000** PSH: NP

MW-18 6/13/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

MW-14 6/13/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

MW-17 6/13/2019 B: <1.0 T: <1.0 E: <1.0 X: <2.0 PSH: NP

LEGEND

- NATURAL SPRING
- EAST SEEP PIPE INLET
- WEST SEEP PIPE INLET
- MONITORING WELL
- DESTROYED MONITORING WELL
- REMEDIATION/MONITORING WELL
- WELLHEAD
- ESTIMATED GROUNDWATER FLOW DIRECTION
- FLOWLINE
- EAST SEEP PIPE
- WEST SEEP PIPE
- BENZENE IMPACTS TO GROUNDWATER
- DASHED WHERE INFERRED
- ACCESS ROAD
- ARCH SITE BOUNDARY

INFERRED PRODUCT THICKNESS (FEET)

- 0.01-0.10
- 0.11-0.20
- 0.21-0.40

IMAGE COURTESY OF ESRI

0 80 160
Feet

N

FIGURE 3
JUNE 2019 GROUNDWATER ANALYTICAL RESULTS
FLORANCE GC J#16A
UNIT P SEC 6 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC

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TABLE 1
REMEDIATION SYSTEMS OPERATIONAL RUN-TIME

FLORANCE GC J16A
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		
3/28/2019 10:30	7,398	93%	96%	Online after sampling
4/11/2019 10:30	7,688	93%	83%	Start of Q2, 2019
4/26/2019 10:35	8,031	93%	90%	Monthly Gauging
5/9/2019 13:15	8,345	93%	93%	Monthly gauging
5/23/2019 11:10	8,621	93%	91%	
7/3/2019 12:00	9,549	93%	92%	System down for tank replacement.
		Average Q2 2019 Run Time	92%	

Notes:

% - percent

Dashed line indicates quarter change

TABLE 2
EXTRACTED AIR VOC DATA - SECOND QUARTER 2019

FLORANCE GC J16A
SAN JUAN COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC

Collection Date:	4/11/2019	4/26/2019	5/9/2019	5/23/2019
Collection Time:	14:00	13:15	17:20	14:00
Active Remediation Zone:	4	1	2	3
Benzene (µg/L)	3.3	<0.50	12	1.2
Toluene (µg/L)	11	0.99	30	4.6
Ethylbenzene (µg/L)	1.1	1.9	1.2	1.8
1,2,4-trimethylbenzene (µg/L)	1.6	NS	<1.0	NS
1,3,5-trimethylbenzene (µg/L)	1.7	NS	<1.0	NS
Chloromethane (µg/L)	<1.0	NS	<1.0	NS
Isoproplybenzene (µg/L)	<1.0	NS	<1.0	NS
n-Proplybenzene (µg/L)	<1.0	NS	<1.0	NS
Xylenes (µg/L)	24	5.9	18	47
Gasoline Range Organics (GRO)	2,200	1,800	4,100	1,800
Total VOCs (µg/L):	42.7	8.79	61.2	54.6
PID Reading (ppm)	498	214	295	249

Note:

µg/L - micrograms per liter

NS - not sampled

ppm - parts per million

PID - photo-ionizaton detector

VOCs - volatile organic compounds

TABLE 3
MASS REMOVAL VAPOR PHASE - SECOND QUARTER 2019

FLORANCE GC J16A
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)
3/28/19 10:30	55.4	3	324	331:30:00	19,890	14.8	2.3	1.1	0.2
4/11/19 14:00	42.7	4	422	339:30:00	20,370	22.8	3.6	1.6	0.3
4/26/19 13:15	8.8	1	224	698:45:00	41,925	47.1	7.5	3.1	0.6
5/9/19 15:30	61.2	2	292	673:30:00	40,410	45.4	7.2	1.6	0.3
5/23/19 12:15	54.6	3	338	332:45:00	19,965	22.2	3.5	1.6	0.3
7/3/19 0:00			0	971:45:00	58,305	67.1	10.6	1.7	0.3

Total Quantity of Hydrocarbon VOC Removed 2nd quarter 2019	205 lbs	32.5 gal	0.8 bbl
Total Quantity of Hydrocarbon VOC Removed Since Start-up May 2018	2,586 lbs	500.5 gal	11.9 bbl

Notes:

bbl - barrel
gal - gallons
g/cm^3 - grams per cubic centimeter
hr - hour
lbs - pounds
lbs/day - pounds per day
mg/m^3 - 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 - SECOND QUARTER 2019

FLORANCE GC J16A
SAN JUAN COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC

Date/Time	Hour Meter Reading	Tank Height		Gallons in Tank	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
		(ft)	(in)										(gpm)	(gal/day)	
12/21/18 13:20	5,271	13	8	11,480	37,496	1,019	64,796	0.01	8		339:50:00	20,390	0.05	72	
1/4/19 11:40	5,468	9	11	8,330	47,192	9,696	74,492	0.02	16.92		334:20:00	20,060	0.48	696	
1/31/19 0:45	6,068	13	11	11,690	51,665	4,473	78,965	---	---	10,080	637:05:00	38,225	0.12	169	3 loads removed
3/1/19 10:00	6,761	1	11	1,610	53,893	2,228	81,193	---	---		705:15:00	42,315	0.05	76	
3/14/2019	356	3	8	3,080	55,343	1,450	82,643	0.02	16.92		316:40:00	19,000	0.08	110	
3/28/19 10:30	7,398	6	7	5,530	57,525	2,182	84,825	0.03	25		331:50:00	19,910	0.11	158	
4/11/19 10:00	7,688	11	10	9,940	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	1	4	1,120	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	8	1	6,790	69,721	6,427	97,021	---	---		314:40:00	18,880	0.34	490	
5/23/19 11:10	8,621	3	0	2,520	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	0	0	0	86,031	14,810	113,331	---	---	2,520	983:50:00	59,030	0.25	361	Frac tank replaced with permanent 400 bbl steel recovery tank

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:	113,331	Gal
	2,698	bbl

TABLE 5
MPE SYSTEM OPERATIONS - SECOND QUARTER 2019

FLORANCE GC J16A
SAN JUAN COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC

Well ID		Unit	4/11/2019	4/26/2019	5/9/2019	5/23/2019
Active Zone			4	1	2	3
MW-06	WH Vac (Online)	inHg		20.0		
Zone 1	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		15.5		
	PID	ppm		110.0		
	Flow	scfm		30.0		
SB-04	WH Vac (Online)	inHg		18.5		
Zone 1	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		18.5		
	PID	ppm		59.4		
	Flow	scfm		64.0		
SB-12	WH Vac (Online)	inHg		15.0		
Zone 1	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		18.5		
	PID	ppm		216.0		
	Flow	scfm		70.0		
SB-13	WH Vac (Online)	inHg		15.0		
Zone 1	WH Vac (Offline)	inH2O				
	Mani Vac	inHg		15.0		
	PID	ppm		97.3		
	Flow	scfm		60.0		

TABLE 5
MPE SYSTEM OPERATIONS - SECOND QUARTER 2019

FLORANCE GC J16A
SAN JUAN COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC

Well ID		Unit	4/11/2019	4/26/2019	5/9/2019	5/23/2019
Active Zone			4	1	2	3
MW-12	WH Vac (Online)	inHg			12.0	
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg			13.5	
	PID	ppm			304.0	
	Flow	scfm			50.0	
SB-01	WH Vac (Online)	inHg			15.5	
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg			14.0	
	PID	ppm			348.0	
	Flow	scfm			60.0	
SB-10	WH Vac (Online)	inHg				
Zone 2	WH Vac (Offline)	inH2O			Well Head	
	Mani Vac	inHg			Broken	
	PID	ppm				
	Flow	scfm				
SB-11	WH Vac (Online)	inHg			14.5	
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg			14.0	
	PID	ppm			363.0	
	Flow	scfm			66.0	
SB-18	WH Vac (Online)	inHg			12.5	
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg			14.5	
	PID	ppm			420.0	
	Flow	scfm			42.0	
SB-19	WH Vac (Online)	inHg			14.0	
Zone 2	WH Vac (Offline)	inH2O				
	Mani Vac	inHg			13.5	
	PID	ppm			484.0	
	Flow	scfm			74.0	

TABLE 5
MPE SYSTEM OPERATIONS - SECOND QUARTER 2019

FLORANCE GC J16A
SAN JUAN COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC

Well ID		Unit	4/11/2019	4/26/2019	5/9/2019	5/23/2019
Active Zone			4	1	2	3
MW-3R	WH Vac (Online)	inHg				15.0
Zone 3	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				16.5
	PID	ppm				222.0
	Flow	scfm				68.0
MW-10	WH Vac (Online)	inHg				6.5
Zone 3	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				16.0
	PID	ppm				160.0
	Flow	scfm				32.0
SB-03	WH Vac (Online)	inHg				15.0
Zone 3	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				16.5
	PID	ppm				98.1
	Flow	scfm				40.0
SB-06	WH Vac (Online)	inHg				14.5
Zone 3	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				16.5
	PID	ppm				82.3
	Flow	scfm				58.0
SB-15	WH Vac (Online)	inHg				14.0
Zone 3	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				16.5
	PID	ppm				21.6
	Flow	scfm				64.0
SB-16	WH Vac (Online)	inHg				15.5
Zone 3	WH Vac (Offline)	inH2O				
	Mani Vac	inHg				16.5
	PID	ppm				242.0
	Flow	scfm				76.0

TABLE 5
MPE SYSTEM OPERATIONS - SECOND QUARTER 2019

FLORANCE GC J16A
SAN JUAN COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC

Well ID		Unit	4/11/2019	4/26/2019	5/9/2019	5/23/2019
Active Zone			4	1	2	3
MW-3R	WH Vac (Online)	inHg	15.5			
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	15.0			
	PID	ppm	468.0			
	Flow	scfm	52.0			
SB-05	WH Vac (Online)	inHg	14.5			
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	15.0			
	PID	ppm	286.0			
	Flow	scfm	72.0			
SB-07	WH Vac (Online)	inHg	14.5			
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	15.0			
	PID	ppm	316.0			
	Flow	scfm	82.0			
SB-08	WH Vac (Online)	inHg	15.0			
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	15.0			
	PID	ppm	212.0			
	Flow	scfm	82.0			
SB-09	WH Vac (Online)	inHg	14.0			
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	15.0			
	PID	ppm	244.0			
	Flow	scfm	70.0			
SB-17	WH Vac (Online)	inHg	15.0			
Zone 4	WH Vac (Offline)	inH2O				
	Mani Vac	inHg	15.0			
	PID	ppm	60.1			
	Flow	scfm	64.0			

TABLE 5
MPE SYSTEM OPERATIONS - SECOND QUARTER 2019

FLORANCE GC J16A
SAN JUAN COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC

Well ID		Unit	4/11/2019	4/26/2019	5/9/2019	5/23/2019
Active Zone			4	1	2	3
Well Field						
	Total Flow in Active Zone	scfm	422.0	224.0	292.0	338.0

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
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
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
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
	6/13/2019		24.10	NP	NP	6,474.66

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)
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
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
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
SB09	5/20/2017	6,504.18	36.31	NP	NP	6,467.87
	6/16/2017		36.29	NP	NP	6,467.89
	6/22/2018		33.00	32.83	0.17	6,471.31
	9/17/2018		33.15	33.14	0.01	6,471.04
	12/20/2018		33.09	33.08	0.01	6,471.10
	4/8/2019		32.46	32.24	0.22	6,471.89
	6/13/2019		32.79	32.71	0.08	6,471.45

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)
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
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
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
SB13	5/20/2017	6,504.89	35.26	NP	NP	6,469.63
	6/16/2017		35.21	NP	NP	6,469.68
	6/22/2018		34.57	NP	NP	6,470.32
	9/17/2018		34.89	NP	NP	6,470.00
	12/20/2018		34.89	NP	NP	6,470.00
	4/8/2019		34.72	NP	NP	6,470.17
	6/13/2019		34.48	NP	NP	6,470.41

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)
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
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
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
SB18	5/20/2017	6,506.38	40.92	40.89	0.03	6,465.48
	6/15/2017		41.24	40.65	0.59	6,465.61
	6/22/2018		35.25	35.16	0.09	6,471.20
	9/17/2018		36.58	36.56	0.02	6,469.81
	12/20/2018		36.91	36.50	0.41	6,469.80
	4/8/2019		37.01	36.74	0.27	6,469.58
	6/13/2019		37.00	36.52	0.48	6,469.76

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)
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
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
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	--
	12/20/2018		32.43	NP	NP	--
MW-8*	6/15/2017	--	34.78	NP	NP	--
	6/22/2018		35.51	NP	NP	--
	9/17/2018		35.78	NP	NP	--
	6/13/2019		35.36	NP	NP	--
MW-9*	6/15/2017	--	35.71	NP	NP	--
	6/13/2019		42.57	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-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	--
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
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
MW-13	5/20/2017	6,490.03	22.17	NP	NP	6,467.86
	6/13/2017		22.29	NP	NP	6,467.74
	6/21/2018		23.90	NP	NP	6,466.13
	9/17/2018		24.21	NP	NP	6,465.82
	12/20/2018		24.58	NP	NP	6,465.45
	4/8/2019		23.87	NP	NP	6,466.16
	6/13/2019		23.14	NP	NP	6,466.89

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-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
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
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
MW-17	10/16/2017	6,483.30	25.23	NP	NP	6,458.07
	6/20/2018		22.58	NP	NP	6,460.72
	9/17/2018		21.54	NP	NP	6,461.76
	12/20/2018		22.78	NP	NP	6,460.52
	4/8/2019		21.97	NP	NP	6,461.33
	6/13/2019		21.61	NP	NP	6,461.69
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

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-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
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
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
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
	6/19/2019		29.58	NP	NP	6,467.57
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

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-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
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

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)
	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			
SB01	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	6/15/2017	**3,200**	**5,000**	390	**3,800**	43	11	<5.0
	10/21/2017				NS-LNAPL			
	6/20/2018				NS-LNAPL			
SB03	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	6/15/2017				NS-LNAPL			
	10/15/2017				NS-LNAPL			
	6/20/2018				NS-LNAPL			
SB04	9/18/2018				NS			
	12/20/2018				NS			
	4/8/2019				NS			
	6/14/2019	<5.0	<5.0	19	57	NS	NS	NS
	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			
SB05	9/18/2018				NS			
	12/20/2018				NS			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	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			
SB06	9/18/2018				NS-LNAPL			
	12/20/2018				NS			
	4/8/2019				NS			
	6/14/2019	**4,400**	**1,500**	190	**2,900**	NS	NS	NS

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)
	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			
SB07	9/18/2018				NS			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	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			
SB08	9/18/2018				NS			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	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			
SB09	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-LNAPL			
	6/13/2019				NS-LNAPL			
	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			
SB10	9/17/2018				NS-DRY			
	12/20/2018				NS-DRY			
	4/8/2019				NS-DRY			
	6/13/2019				NS-DRY			
	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			
SB11	9/18/2019				NS			
	12/20/2018				NS			
	4/8/2019				NS			
	6/14/2019	**1,200**	7.1	94	**760**	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)
	6/16/2017				NS-LNAPL			
	10/18/2017				NS-LNAPL			
	6/20/2018				NS-LNAPL			
SB12	9/18/2018				NS-LNAPL			
	12/20/2018				NS-LNAPL			
	4/8/2019				NS-DRY			
	6/13/2019				NS-LNAPL			
	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
SB13	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
	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			
SB15	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
	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
SB16	9/18/2018	3.3	<1.0	<1.0	<1.5	0.078	<1.0	<5.0
	12/20/2018	<1.0	<1.0	<1.0	2.2	0.064	<1.0	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
	6/14/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
	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			
SB17	9/18/2018				NS-DRY			
	12/20/2018				NS-DRY			
	4/8/2019				NS-DRY			
	6/13/2019				NS-DRY			

TABLE 7
GROUNDWATER ANALYTICAL RESULTS

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

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
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
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			
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
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			

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-6	4/8/2019	<10	<10	15	**830**	NS	NS	NS
	6/13/2019	**13**	7.5	<5.0	**1,100**	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
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
MW-10	6/14/2017	**13,000**	**8,800**	510	**2,900**	66	8.1	<5.0
	10/23/2017				NS-LNAPL			
	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
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
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			

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-12	4/8/2019				NS-LNAPL			
	6/13/2019				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
MW-14	6/14/2017	**11**	8.6	<1.0	2.9	0.088	<1.0	<5.0
	10/19/2017	**12**	<1.0	<1.0	<1.5	0.13	1.8	<5.0
	6/21/2018	**11**	<1.0	2.2	<1.5	0.29	1.9	<5.0
	9/18/2018	**95**	<1.0	5.5	<1.5	0.47	1.4	<5.0
	12/21/2018	<1.0	<1.0	1.4	<2.0	0.11	1.3	<5.0
	4/8/2019	<1.0	<1.0	<1.0	<1.5	NS	NS	NS
	6/13/2019	<1.0	<1.0	<1.0	<2.0	NS	NS	NS
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
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			
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

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-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
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			
	4/8/2019	**1,400**	**950**	490	**5,100**	NS	NS	NS
	6/13/2019	**740**	520	240	**3,400**	NS	NS	NS
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
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
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
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			

TABLE 7
GROUNDWATER ANALYTICAL RESULTS

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

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes, Total (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
MW-24	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
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
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 Comission

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

ATTACHMENT 1: LABORATORY ANALYTICAL REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 22, 2019

Monica Sandoval

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

RE: Florance GCJ 16A OrderNo.: 1904685

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/12/2019 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1904685**
Date Reported: **4/22/2019**

CLIENT: Harvest
Client Sample ID: Zone 4 Influent
Project: Florance GCJ 16A
Collection Date: 4/11/2019 2:00:00 PM
Lab ID: 1904685-001 **Matrix:** AIR
Received Date: 4/12/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	2200	50		µg/L	10	4/17/2019 1:16:23 PM	G59248
Surr: BFB	103	70-130		%Rec	10	4/17/2019 1:16:23 PM	G59248
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	3.3	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Toluene	11	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Ethylbenzene	1.1	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,2,4-Trimethylbenzene	1.6	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,3,5-Trimethylbenzene	1.7	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Naphthalene	ND	2.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1-Methylnaphthalene	ND	4.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
2-Methylnaphthalene	ND	4.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Acetone	ND	10		µg/L	10	4/17/2019 1:16:23 PM	A59248
Bromobenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Bromodichloromethane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Bromoform	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Bromomethane	ND	2.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
2-Butanone	ND	10		µg/L	10	4/17/2019 1:16:23 PM	A59248
Carbon disulfide	ND	10		µg/L	10	4/17/2019 1:16:23 PM	A59248
Carbon tetrachloride	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Chlorobenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Chloroethane	ND	2.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Chloroform	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Chloromethane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
2-Chlorotoluene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
4-Chlorotoluene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
cis-1,2-DCE	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
cis-1,3-Dichloropropene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Dibromochloromethane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Dibromomethane	ND	2.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,2-Dichlorobenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,3-Dichlorobenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,4-Dichlorobenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Dichlorodifluoromethane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,1-Dichloroethane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,1-Dichloroethene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: Zone 4 Influent
Project: Florance GCJ 16A
Collection Date: 4/11/2019 2:00:00 PM
Lab ID: 1904685-001 **Matrix:** AIR
Received Date: 4/12/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,2-Dichloropropane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,3-Dichloropropane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
2,2-Dichloropropane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,1-Dichloropropene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Hexachlorobutadiene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
2-Hexanone	ND	10		µg/L	10	4/17/2019 1:16:23 PM	A59248
Isopropylbenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
4-Isopropyltoluene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
4-Methyl-2-pentanone	ND	10		µg/L	10	4/17/2019 1:16:23 PM	A59248
Methylene chloride	ND	3.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
n-Butylbenzene	ND	3.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
n-Propylbenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
sec-Butylbenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Styrene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
tert-Butylbenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Tetrachloroethene (PCE)	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
trans-1,2-DCE	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
trans-1,3-Dichloropropene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,2,3-Trichlorobenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,2,4-Trichlorobenzene	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,1,1-Trichloroethane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,1,2-Trichloroethane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Trichloroethene (TCE)	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Trichlorofluoromethane	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
1,2,3-Trichloropropane	ND	2.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Vinyl chloride	ND	1.0		µg/L	10	4/17/2019 1:16:23 PM	A59248
Xylenes, Total	24	1.5		µg/L	10	4/17/2019 1:16:23 PM	A59248
Surr: Dibromofluoromethane	121	70-130		%Rec	10	4/17/2019 1:16:23 PM	A59248
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	10	4/17/2019 1:16:23 PM	A59248
Surr: Toluene-d8	101	70-130		%Rec	10	4/17/2019 1:16:23 PM	A59248
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	10	4/17/2019 1:16:23 PM	A59248

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

Client: Hall Environmental
Project: Not Indicated
Client Sample ID: 1904685-001B; Zone 4 Influent
Location:
Lab ID: G19040380-001

Report Date: 04/19/19
Collection Date: 04/11/19 14:00
Date Received: 04/16/19
Sampled By: Not Provided

Analyses	Result	Units	Qualifier	Method	Analysis Date / By
NATURAL GAS CHROMATOGRAPHIC ANALYSIS REPORT					
Oxygen	21.208	Mol %		GPA 2261	04/19/19 13:03 / djb
Nitrogen	78.217	Mol %		GPA 2261	04/19/19 13:03 / djb
Carbon Dioxide	0.539	Mol %		GPA 2261	04/19/19 13:03 / djb
Hydrogen Sulfide	< 0.001	Mol %		GPA 2261	04/19/19 13:03 / djb
Methane	< 0.001	Mol %		GPA 2261	04/19/19 13:03 / djb
Ethane	< 0.001	Mol %		GPA 2261	04/19/19 13:03 / djb
Propane	< 0.001	Mol %		GPA 2261	04/19/19 13:03 / djb
Isobutane	< 0.001	Mol %		GPA 2261	04/19/19 13:03 / djb
n-Butane	< 0.001	Mol %		GPA 2261	04/19/19 13:03 / djb
Isopentane	0.001	Mol %		GPA 2261	04/19/19 13:03 / djb
n-Pentane	0.002	Mol %		GPA 2261	04/19/19 13:03 / djb
Hexanes plus	0.033	Mol %		GPA 2261	04/19/19 13:03 / djb
GPM @ STD COND/1000 CU.FT., MOISTURE FREE GAS					
GPM Ethane	< 0.0003	gal/MCF		GPA 2261	04/19/19 13:03 / djb
GPM Propane	< 0.0003	gal/MCF		GPA 2261	04/19/19 13:03 / djb
GPM Isobutane	< 0.0003	gal/MCF		GPA 2261	04/19/19 13:03 / djb
GPM n-Butane	< 0.0003	gal/MCF		GPA 2261	04/19/19 13:03 / djb
GPM Isopentane	< 0.0004	gal/MCF		GPA 2261	04/19/19 13:03 / djb
GPM n-Pentane	0.0010	gal/MCF		GPA 2261	04/19/19 13:03 / djb
GPM Hexanes plus	0.0140	gal/MCF		GPA 2261	04/19/19 13:03 / djb
GPM Pentanes plus	0.0150	gal/MCF		GPA 2261	04/19/19 13:03 / djb
GPM Total	0.0150	gal/MCF		GPA 2261	04/19/19 13:03 / djb
CALCULATED PROPERTIES					
Calculation Pressure Base	14.730	psia		GPA 2261	04/19/19 13:03 / djb
Calculation Temperature Base	60	°F		GPA 2261	04/19/19 13:03 / djb
Compressibility Factor, Z	1.0000	unitless		GPA 2261	04/19/19 13:03 / djb
Molecular Weight	28.97	unitless		GPA 2261	04/19/19 13:03 / djb
Pseudo-critical Pressure, psia	548	psia		GPA 2261	04/19/19 13:03 / djb
Pseudo-critical Temperature, deg R	241	deg R		GPA 2261	04/19/19 13:03 / djb
Specific Gravity (air=1.000)	1.003	unitless		GPA 2261	04/19/19 13:03 / djb
Gross BTU per cu ft @ std cond, dry	1.80	BTU/cu ft		GPA 2261	04/19/19 13:03 / djb
Gross BTU per cu ft @ std cond, wet	1.77	BTU/cu ft		GPA 2261	04/19/19 13:03 / djb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental
Project: Not Indicated

Report Date: 04/19/19
Work Order: G19040380

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261									Analytical Run: R249791
Lab ID: ICV-1904191116	Initial Calibration Verification Standard								04/19/19 11:17
Oxygen	0.399	Mol %	0.001	83	75	110			
Nitrogen	5.027	Mol %	0.001	100	90	110			
Carbon Dioxide	4.899	Mol %	0.001	99	90	110			
Hydrogen Sulfide	0.125	Mol %	0.001	124	100	136			
Methane	73.067	Mol %	0.001	100	90	110			
Ethane	5.023	Mol %	0.001	101	90	110			
Propane	5.143	Mol %	0.001	101	90	110			
Isobutane	2.022	Mol %	0.001	100	90	110			
n-Butane	2.000	Mol %	0.001	99	90	110			
Isopentane	0.996	Mol %	0.001	100	90	110			
n-Pentane	0.990	Mol %	0.001	99	90	110			
Hexanes plus	0.309	Mol %	0.001	102	90	110			
Lab ID: CCV-1904191123	Continuing Calibration Verification Standard								04/19/19 11:24
Oxygen	0.593	Mol %	0.001	99	90	110			
Nitrogen	1.311	Mol %	0.001	93	85	110			
Carbon Dioxide	0.958	Mol %	0.001	96	90	110			
Hydrogen Sulfide	0.023	Mol %	0.001	92	70	130			
Methane	93.519	Mol %	0.001	100	90	110			
Ethane	1.028	Mol %	0.001	102	90	110			
Propane	1.016	Mol %	0.001	102	90	110			
Isobutane	0.505	Mol %	0.001	101	90	110			
n-Butane	0.492	Mol %	0.001	98	90	110			
Isopentane	0.202	Mol %	0.001	101	90	110			
n-Pentane	0.198	Mol %	0.001	99	90	110			
Hexanes plus	0.155	Mol %	0.001	102	90	110			
Lab ID: CCV-1904191322	Continuing Calibration Verification Standard								04/19/19 13:22
Oxygen	0.595	Mol %	0.001	99	90	110			
Nitrogen	1.316	Mol %	0.001	94	85	110			
Carbon Dioxide	0.960	Mol %	0.001	96	90	110			
Hydrogen Sulfide	0.024	Mol %	0.001	96	70	130			
Methane	93.524	Mol %	0.001	100	90	110			
Ethane	1.025	Mol %	0.001	102	90	110			
Propane	1.012	Mol %	0.001	101	90	110			
Isobutane	0.503	Mol %	0.001	100	90	110			
n-Butane	0.490	Mol %	0.001	98	90	110			
Isopentane	0.200	Mol %	0.001	100	90	110			
n-Pentane	0.197	Mol %	0.001	98	90	110			
Hexanes plus	0.154	Mol %	0.001	102	90	110			
Method: GPA 2261									Batch: R249791

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Gillette, WY Branch

Client: Hall Environmental
Project: Not Indicated

Report Date: 04/19/19
Work Order: G19040380

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **GPA 2261**									Batch: R249791
Lab ID: **G19040380-001ADUP**	Sample Duplicate				Run: Varian GC_190419A				04/19/19 13:12
Oxygen	21.205	Mol %	0.001				0.0	10	
Nitrogen	78.220	Mol %	0.001				0.0	10	
Carbon Dioxide	0.539	Mol %	0.001				0.0	10	
Hydrogen Sulfide	< 0.001	Mol %	0.001					10	
Methane	< 0.001	Mol %	0.001					10	
Ethane	< 0.001	Mol %	0.001					10	
Propane	< 0.001	Mol %	0.001					10	
Isobutane	< 0.001	Mol %	0.001					10	
n-Butane	< 0.001	Mol %	0.001					10	
Isopentane	0.001	Mol %	0.001				0.0	10	
n-Pentane	0.002	Mol %	0.001				0.0	10	
Hexanes plus	0.033	Mol %	0.001				0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Harvest | Work Order Number: 1904685 | RcptNo: 1

Received By: **Desiree Dominguez** 4/12/2019 8:10:00 AM

Completed By: **Anne Thorne** 4/12/2019 12:19:39 PM

Reviewed By: MJ 04/12/19

Labeled by: AT 04/12/19

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 ☐	
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**

Chain-of-Custody Record

Client: Harvest Four Corners

Monica Sandavol

Mailing Address:

Phone #: 970-385-1096

email or Fax#: msandavol@harvest.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☒ EDD (Type) PDF

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Florance GC J 164

Project #:

Project Manager: Monica - Harvest, Danny Burns - LTE

Sampler: Eric Carroll

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp (including CF):

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1904185	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	8260 VOC's	TVPH GRO/ART per CW 04/12/19	CO_2	O_2		
4/11/19	1400	Air	Zone 4 influent	2 Tedlar		001											X	X	X	X		

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/11/19	15:20	Eric Carroll	Chris Walt		4/11/19	1520
4/11/19	1806	Chris Walt		Courier	4/12/19	8:10

Remarks:

Please cc: dburns@ltenv.com
ecarroll@ltenv.com

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 30, 2019

Monica Sandoval

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

RE: Florance OrderNo.: 1904D46

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/27/2019 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: Zone 1 Influent
Project: Florance
Collection Date: 4/26/2019 1:15:00 PM
Lab ID: 1904D46-001 **Matrix:** AIR
Received Date: 4/27/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1800	25		µg/L	5	4/29/2019 9:24:17 AM	G59507
Surr: BFB	189	53-256		%Rec	5	4/29/2019 9:24:17 AM	G59507
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.50		µg/L	5	4/29/2019 9:24:17 AM	R59507
Toluene	0.99	0.50		µg/L	5	4/29/2019 9:24:17 AM	R59507
Ethylbenzene	1.9	0.50		µg/L	5	4/29/2019 9:24:17 AM	R59507
Xylenes, Total	5.9	1.0		µg/L	5	4/29/2019 9:24:17 AM	R59507
Surr: 4-Bromofluorobenzene	99.5	81.6-133		%Rec	5	4/29/2019 9:24:17 AM	R59507

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1904D46**

30-Apr-19

Client: Harvest

Project: Florance

Sample ID: **1904D46-001ADUP** SampType: **DUP** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **Zone 1 Influent** Batch ID: **G59507** RunNo: **59507**

Prep Date: Analysis Date: **4/29/2019** SeqNo: **2004964** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1700	25						6.88	20	
Surr: BFB	45000		10000		451	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1904D46**

30-Apr-19

Client: Harvest

Project: Florance

Sample ID: **1904D46-001ADUP** SampType: **DUP** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **Zone 1 Influent** Batch ID: **R59507** RunNo: **59507**

Prep Date: Analysis Date: **4/29/2019** SeqNo: **2004971** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50						0	20	
Toluene	0.90	0.50						9.85	20	
Ethylbenzene	1.7	0.50						11.4	20	
Xylenes, Total	5.5	1.0						6.78	20	
Surr: 4-Bromofluorobenzene	12		10.00		124	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Harvest | Work Order Number: 1904D46 | RcptNo: 1

Received By: **Erin Melendrez** 4/27/2019 9:15:00 AM

Completed By: **Anne Thorne** 4/29/2019 9:50:25 AM

Reviewed By: JO 4/29/19

Labeled 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° 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**

Chain-of-Custody Record

Client: Harvest Four Corners

Monica Sandaval

Mailing Address: 1795 Arroyo Drive

Bloomfield, NM

Phone #: 505-632-4475

email or Fax#: MSandaval@harvestmidstream.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☒ EDD (Type) PDF

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Florance

Project #:

Project Manager: Monica - Harvest

Danny Burns - LTE

Sampler: Eric Carroll

On Ice: ☐ Yes ☒ No

# of Coolers: 1

Cooler Temp(including CF): N/A

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1904D46	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TVPH 8015
4/26	1315	Air	Zone 1 Influent	2 Tedlar		001	X										X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/26	1417	Eric Carroll	Chris Walt		4/26/19	1417
4/26	1841			Courier	4/27/19	0915

Remarks:

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

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Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 21, 2019

Monica Sandoval

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

RE: Florance GC J 16A OrderNo.: 1905531

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/10/2019 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: Zone 02 Influent
Project: Florance GC J 16A
Collection Date: 5/9/2019 5:20:00 PM
Lab ID: 1905531-001 **Matrix:** AIR
Received Date: 5/10/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	4100	50		µg/L	10	5/16/2019 11:21:34 AM	G59927
Surr: BFB	95.7	70-130		%Rec	10	5/16/2019 11:21:34 AM	G59927
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	12	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Toluene	30	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Ethylbenzene	1.2	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,2,4-Trimethylbenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,3,5-Trimethylbenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Naphthalene	ND	2.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1-Methylnaphthalene	ND	4.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
2-Methylnaphthalene	ND	4.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Acetone	ND	10		µg/L	10	5/16/2019 11:21:34 AM	W59927
Bromobenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Bromodichloromethane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Bromoform	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Bromomethane	ND	2.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
2-Butanone	ND	10		µg/L	10	5/16/2019 11:21:34 AM	W59927
Carbon disulfide	ND	10		µg/L	10	5/16/2019 11:21:34 AM	W59927
Carbon tetrachloride	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Chlorobenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Chloroethane	ND	2.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Chloroform	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Chloromethane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
2-Chlorotoluene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
4-Chlorotoluene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
cis-1,2-DCE	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
cis-1,3-Dichloropropene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Dibromochloromethane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Dibromomethane	ND	2.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,2-Dichlorobenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,3-Dichlorobenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,4-Dichlorobenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Dichlorodifluoromethane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,1-Dichloroethane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,1-Dichloroethene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: Zone 02 Influent
Project: Florance GC J 16A
Collection Date: 5/9/2019 5:20:00 PM
Lab ID: 1905531-001 **Matrix:** AIR
Received Date: 5/10/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,2-Dichloropropane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,3-Dichloropropane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
2,2-Dichloropropane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,1-Dichloropropene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Hexachlorobutadiene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
2-Hexanone	ND	10		µg/L	10	5/16/2019 11:21:34 AM	W59927
Isopropylbenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
4-Isopropyltoluene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
4-Methyl-2-pentanone	ND	10		µg/L	10	5/16/2019 11:21:34 AM	W59927
Methylene chloride	ND	3.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
n-Butylbenzene	ND	3.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
n-Propylbenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
sec-Butylbenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Styrene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
tert-Butylbenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Tetrachloroethene (PCE)	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
trans-1,2-DCE	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
trans-1,3-Dichloropropene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,2,3-Trichlorobenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,2,4-Trichlorobenzene	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,1,1-Trichloroethane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,1,2-Trichloroethane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Trichloroethene (TCE)	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Trichlorofluoromethane	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
1,2,3-Trichloropropane	ND	2.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Vinyl chloride	ND	1.0		µg/L	10	5/16/2019 11:21:34 AM	W59927
Xylenes, Total	18	1.5		µg/L	10	5/16/2019 11:21:34 AM	W59927
Surr: Dibromofluoromethane	149	70-130	S	%Rec	10	5/16/2019 11:21:34 AM	W59927
Surr: 1,2-Dichloroethane-d4	92.1	70-130		%Rec	10	5/16/2019 11:21:34 AM	W59927
Surr: Toluene-d8	91.7	70-130		%Rec	10	5/16/2019 11:21:34 AM	W59927
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	10	5/16/2019 11:21:34 AM	W59927

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

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Harvest** Work Order Number: **1905531** RcptNo: 1

Received By: **Jevon Campisi** **5/10/2019 8:00:00 AM** Jevon Campisi

Completed By: **Isaiah Ortiz** **5/10/2019 9:57:51 AM** I-OX

Reviewed By: ENM 5/10/19

LB: JJC 5-10-19

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 ☐	
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: JJC 5-10-19

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	1.1	Good	Yes			

Chain-of-Custody Record

Client: Harvest Midstream

Mailing Address:

Attn: Monica Sandoval

Phone #:

email or Fax#: msandoval@harvestmidstream.com

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

Accreditation ☐ NELAP ☐ Other

☒ EDD (Type) PDF

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: Florance GC J16A

Project #:

Project Manager: LTE - Danny Burns

Sampler: D. Burns

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.2c - 0.1c CF = 1.1C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 190553	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) Full List	8270 (Semi-VOA)					Air Bubbles (Y or N)
5-9-19	17:20	Air	Zone #2 Influent	2-Tedlar	None	-001			X							X						

Date: 5-9-19 Time: 17:20 Relinquished by: [signature] Received by: [signature] Date: 5/9/19 Time: 1720

Date: 5/9/19 Time: 1940 Relinquished by: [signature] Received by: [signature] courier Date: 5/10/19 Time: 8:00

Remarks: cc: dburns@itenv.com ecarroll@itenv.com

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
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Website: www.hallenvironmental.com

May 28, 2019

Monica Sandoval

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

RE: Florance GC J 16A OrderNo.: 1905C37

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/24/2019 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1905C37**
Date Reported: **5/28/2019**

CLIENT: Harvest
Client Sample ID: Zone 3 Influent
Project: Florance GC J 16A
Collection Date: 5/23/2019 2:00:00 PM
Lab ID: 1905C37-001 **Matrix:** AIR
Received Date: 5/24/2019 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1800	25		µg/L	5	5/24/2019 11:56:19 AM	G60182
Surr: BFB	501	53-256	S	%Rec	5	5/24/2019 11:56:19 AM	G60182
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	1.2	0.50		µg/L	5	5/24/2019 11:56:19 AM	B60182
Toluene	4.6	0.50		µg/L	5	5/24/2019 11:56:19 AM	B60182
Ethylbenzene	1.8	0.50		µg/L	5	5/24/2019 11:56:19 AM	B60182
Xylenes, Total	47	1.0		µg/L	5	5/24/2019 11:56:19 AM	B60182
Surr: 4-Bromofluorobenzene	137	81.6-133	S	%Rec	5	5/24/2019 11:56:19 AM	B60182

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1905C37**

28-May-19

Client: Harvest

Project: Florance GC J 16A

Sample ID: **1905C37-001ADUP**	SampType: **DUP**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **Zone 3 Influent**	Batch ID: **G60182**	RunNo: **60182**
Prep Date:	Analysis Date: **5/24/2019**	SeqNo: **2032759** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1900	25						4.53	20	
Surr: BFB	52000		10000		522	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1905C37**

28-May-19

Client: Harvest

Project: Florance GC J 16A

Sample ID: **1905C37-001ADUP** SampType: **DUP** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **Zone 3 Influent** Batch ID: **B60182** RunNo: **60182**

Prep Date: Analysis Date: **5/24/2019** SeqNo: **2032829** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.50						3.54	20	
Toluene	4.9	0.50						6.13	20	
Ethylbenzene	2.2	0.50						19.1	20	
Xylenes, Total	52	1.0						8.80	20	
Surr: 4-Bromofluorobenzene	14		10.00		139	81.6	133	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
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P	Sample pH Not In Range
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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **Harvest** Work Order Number: **1905C37** RcptNo: **1**

Received By: **Desiree Dominguez** **5/24/2019 8:05:00 AM** DD

Completed By: **Desiree Dominguez** **5/24/2019 10:12:26 AM** DD

Reviewed By: JO 5/24/19

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 ☐
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: JK 5-24-19

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	N/A	Good	Not Present			

Chain-of-Custody Record

Client: Harvest Four Corners
Monica Sandoval
Mailing Address: 1755 Arroyo Dr.
Bloomfield, NM
Phone #: 970-385-1096
email or Fax#: msandoval@harvestmidstream.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☒ EDD (Type) PDF

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: Florance GC J 16A
Project #:
Project Manager: Monica Sandoval - Harvest
Danny Burns - LTE
Sampler: Eric Carroll
On Ice: ☐ Yes ☒ No
# of Coolers: 1
Cooler Temp(including CF): N/A

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1905C37	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5/23	1400	Air	Zone 3 influent	2 Tedlar	None	-001	X	X								

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/23	1630	Eric Carroll	JDB	courier	5/24/19	8:05
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

Remarks:
Please CC: dburns@ltenv.com
eCarroll@ltenv.com

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 24, 2019

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

RE: Florance GCJ 16A OrderNo.: 1906A32

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 24 sample(s) on 6/19/2019 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: SB-06
Project: Florance GCJ 16A
Collection Date: 6/14/2019 2:55:00 PM
Lab ID: 1906A32-001
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	4400	50		µg/L	50	6/20/2019 3:54:10 PM	B60803
Toluene	1500	50		µg/L	50	6/20/2019 3:54:10 PM	B60803
Ethylbenzene	190	50		µg/L	50	6/20/2019 3:54:10 PM	B60803
Xylenes, Total	2900	100		µg/L	50	6/21/2019 3:54:44 PM	W60833
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	50	6/20/2019 3:54:10 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-10
Project: Florance GCJ 16A
Collection Date: 6/14/2019 3:35:00 PM
Lab ID: 1906A32-002
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	420	10		µg/L	10	6/20/2019 4:17:51 PM	B60803
Toluene	ND	10		µg/L	10	6/20/2019 4:17:51 PM	B60803
Ethylbenzene	19	10		µg/L	10	6/20/2019 4:17:51 PM	B60803
Xylenes, Total	130	20		µg/L	10	6/21/2019 4:18:19 PM	W60833
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	10	6/20/2019 4:17:51 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: SB-19
Project: Florance GCJ 16A
Collection Date: 6/14/2019 4:20:00 PM
Lab ID: 1906A32-003
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	5200	100		µg/L	100	6/21/2019 4:41:53 PM	W60833
Toluene	2100	100		µg/L	100	6/21/2019 4:41:53 PM	W60833
Ethylbenzene	250	100		µg/L	100	6/21/2019 4:41:53 PM	W60833
Xylenes, Total	3600	200		µg/L	100	6/21/2019 4:41:53 PM	W60833
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	100	6/21/2019 4:41:53 PM	W60833

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: SB-11
Project: Florance GCJ 16A
Collection Date: 6/14/2019 4:20:00 PM
Lab ID: 1906A32-004
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	1200	20		µg/L	20	6/21/2019 5:05:25 PM	W60833
Toluene	7.1	5.0		µg/L	5	6/21/2019 5:29:08 PM	W60833
Ethylbenzene	94	5.0		µg/L	5	6/21/2019 5:29:08 PM	W60833
Xylenes, Total	760	10		µg/L	5	6/21/2019 5:29:08 PM	W60833
Surr: 4-Bromofluorobenzene	117	80-120		%Rec	5	6/21/2019 5:29:08 PM	W60833

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: SB-13
Project: Florance GCJ 16A
Collection Date: 6/14/2019 1:15:00 PM
Lab ID: 1906A32-005
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	1.5	1.0		µg/L	1	6/20/2019 7:26:53 PM	B60803
Toluene	ND	1.0		µg/L	1	6/20/2019 7:26:53 PM	B60803
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 7:26:53 PM	B60803
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 7:26:53 PM	B60803
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/20/2019 7:26:53 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-11
Project: Florance GCJ 16A
Collection Date: 6/14/2019 3:15:00 PM
Lab ID: 1906A32-006
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 7:50:18 PM	B60803
Toluene	ND	1.0		µg/L	1	6/20/2019 7:50:18 PM	B60803
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 7:50:18 PM	B60803
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 7:50:18 PM	B60803
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	6/20/2019 7:50:18 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-13
Project: Florance GCJ 16A
Collection Date: 6/14/2019 3:55:00 PM
Lab ID: 1906A32-007
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	740	50		µg/L	50	6/20/2019 8:13:38 PM	B60803
Toluene	21	10		µg/L	10	6/21/2019 6:16:32 PM	W60833
Ethylbenzene	96	10		µg/L	10	6/21/2019 6:16:32 PM	W60833
Xylenes, Total	200	20		µg/L	10	6/21/2019 6:16:32 PM	W60833
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	10	6/21/2019 6:16:32 PM	W60833

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-08
Project: Florance GCJ 16A
Collection Date: 6/14/2019 2:00:00 PM
Lab ID: 1906A32-008
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 8:37:04 PM	B60803
Toluene	ND	1.0		µg/L	1	6/20/2019 8:37:04 PM	B60803
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 8:37:04 PM	B60803
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 8:37:04 PM	B60803
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/20/2019 8:37:04 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-21
Project: Florance GCJ 16A
Collection Date: 6/14/2019 2:15:00 PM
Lab ID: 1906A32-009
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	2.6	1.0		µg/L	1	6/20/2019 9:00:29 PM	B60803
Toluene	ND	1.0		µg/L	1	6/20/2019 9:00:29 PM	B60803
Ethylbenzene	5.5	1.0		µg/L	1	6/20/2019 9:00:29 PM	B60803
Xylenes, Total	2.6	2.0		µg/L	1	6/21/2019 6:40:03 PM	W60833
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	1	6/20/2019 9:00:29 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-25
Project: Florance GCJ 16A
Collection Date: 6/14/2019 2:45:00 PM
Lab ID: 1906A32-010
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 9:24:04 PM	B60803
Toluene	ND	1.0		µg/L	1	6/20/2019 9:24:04 PM	B60803
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 9:24:04 PM	B60803
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 9:24:04 PM	B60803
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/20/2019 9:24:04 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-04
Project: Florance GCJ 16A
Collection Date: 6/14/2019 3:00:00 PM
Lab ID: 1906A32-011
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 9:47:26 PM	B60803
Toluene	ND	1.0		µg/L	1	6/20/2019 9:47:26 PM	B60803
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 9:47:26 PM	B60803
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 9:47:26 PM	B60803
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/20/2019 9:47:26 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-09
Project: Florance GCJ 16A
Collection Date: 6/14/2019 3:30:00 PM
Lab ID: 1906A32-012
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 10:11:19 PM	B60803
Toluene	ND	1.0		µg/L	1	6/20/2019 10:11:19 PM	B60803
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 10:11:19 PM	B60803
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 10:11:19 PM	B60803
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	6/20/2019 10:11:19 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-17
Project: Florance GCJ 16A
Collection Date: 6/13/2019 1:30:00 PM
Lab ID: 1906A32-013
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 10:34:52 PM	B60803
Toluene	ND	1.0		µg/L	1	6/20/2019 10:34:52 PM	B60803
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 10:34:52 PM	B60803
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 10:34:52 PM	B60803
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	1	6/20/2019 10:34:52 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-18
Project: Florance GCJ 16A
Collection Date: 6/13/2019 1:45:00 PM
Lab ID: 1906A32-014
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 10:58:29 PM	B60803
Toluene	ND	1.0		µg/L	1	6/20/2019 10:58:29 PM	B60803
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 10:58:29 PM	B60803
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 10:58:29 PM	B60803
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	6/20/2019 10:58:29 PM	B60803

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-24
Project: Florance GCJ 16A
Collection Date: 6/13/2019 2:30:00 PM
Lab ID: 1906A32-015
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 2:26:35 PM	B60804
Toluene	ND	1.0		µg/L	1	6/20/2019 2:26:35 PM	B60804
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 2:26:35 PM	B60804
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 2:26:35 PM	B60804
Surr: 4-Bromofluorobenzene	123	80-120	S	%Rec	1	6/20/2019 2:26:35 PM	B60804

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-19
Project: Florance GCJ 16A
Collection Date: 6/13/2019 2:50:00 PM
Lab ID: 1906A32-016
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	740	50		µg/L	50	6/20/2019 2:49:19 PM	B60804
Toluene	520	50		µg/L	50	6/20/2019 2:49:19 PM	B60804
Ethylbenzene	240	50		µg/L	50	6/20/2019 2:49:19 PM	B60804
Xylenes, Total	3400	100		µg/L	50	6/20/2019 2:49:19 PM	B60804
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	50	6/20/2019 2:49:19 PM	B60804

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-20
Project: Florance GCJ 16A
Collection Date: 6/13/2019 3:15:00 PM
Lab ID: 1906A32-017
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 3:57:46 PM	B60804
Toluene	ND	1.0		µg/L	1	6/20/2019 3:57:46 PM	B60804
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 3:57:46 PM	B60804
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 3:57:46 PM	B60804
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	6/20/2019 3:57:46 PM	B60804

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-14
Project: Florance GCJ 16A
Collection Date: 6/13/2019 4:10:00 PM
Lab ID: 1906A32-018
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 4:20:39 PM	B60804
Toluene	ND	1.0		µg/L	1	6/20/2019 4:20:39 PM	B60804
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 4:20:39 PM	B60804
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 4:20:39 PM	B60804
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/20/2019 4:20:39 PM	B60804

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-22
Project: Florance GCJ 16A
Collection Date: 6/13/2019 3:50:00 PM
Lab ID: 1906A32-019
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 5:51:47 PM	B60804
Toluene	ND	1.0		µg/L	1	6/20/2019 5:51:47 PM	B60804
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 5:51:47 PM	B60804
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 5:51:47 PM	B60804
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/20/2019 5:51:47 PM	B60804

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-15
Project: Florance GCJ 16A
Collection Date: 6/13/2019 4:30:00 PM
Lab ID: 1906A32-020
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	8100	100		µg/L	100	6/20/2019 6:14:31 PM	B60804
Toluene	14000	500		µg/L	500	6/21/2019 7:03:38 PM	W60833
Ethylbenzene	960	100		µg/L	100	6/20/2019 6:14:31 PM	B60804
Xylenes, Total	11000	200		µg/L	100	6/20/2019 6:14:31 PM	B60804
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	100	6/20/2019 6:14:31 PM	B60804

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: MW-6
Project: Florance GCJ 16A
Collection Date: 6/13/2019 1:10:00 PM
Lab ID: 1906A32-021
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	13	5.0		µg/L	5	6/20/2019 6:37:14 PM	B60804
Toluene	7.5	5.0		µg/L	5	6/20/2019 6:37:14 PM	B60804
Ethylbenzene	ND	5.0		µg/L	5	6/20/2019 6:37:14 PM	B60804
Xylenes, Total	1100	10		µg/L	5	6/20/2019 6:37:14 PM	B60804
Surr: 4-Bromofluorobenzene	413	80-120	S	%Rec	5	6/20/2019 6:37:14 PM	B60804

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: SB-04
Project: Florance GCJ 16A
Collection Date: 6/14/2019 1:40:00 PM
Lab ID: 1906A32-022
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	5.0		µg/L	5	6/20/2019 6:59:59 PM	B60804
Toluene	ND	5.0		µg/L	5	6/20/2019 6:59:59 PM	B60804
Ethylbenzene	19	5.0		µg/L	5	6/20/2019 6:59:59 PM	B60804
Xylenes, Total	57	10		µg/L	5	6/20/2019 6:59:59 PM	B60804
Surr: 4-Bromofluorobenzene	128	80-120	S	%Rec	5	6/20/2019 6:59:59 PM	B60804

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: SB-15
Project: Florance GCJ 16A
Collection Date: 6/14/2019 2:00:00 PM
Lab ID: 1906A32-023
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	6/20/2019 7:45:19 PM	B60804
Toluene	ND	1.0		µg/L	1	6/20/2019 7:45:19 PM	B60804
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 7:45:19 PM	B60804
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 7:45:19 PM	B60804
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/20/2019 7:45:19 PM	B60804

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: SB-16
Project: Florance GCJ 16A
Collection Date: 6/14/2019 2:15:00 PM
Lab ID: 1906A32-024
Matrix: AQUEOUS
Received Date: 6/19/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	1.3	1.0		µg/L	1	6/20/2019 8:07:57 PM	B60804
Toluene	ND	1.0		µg/L	1	6/20/2019 8:07:57 PM	B60804
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 8:07:57 PM	B60804
Xylenes, Total	ND	2.0		µg/L	1	6/20/2019 8:07:57 PM	B60804
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/20/2019 8:07:57 PM	B60804

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906A32**

24-Jun-19

Client: Harvest

Project: Florance GCJ 16A

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B60804**	RunNo: **60804**
Prep Date:	Analysis Date: **6/20/2019**	SeqNo: **2058276** 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	20		20.00		100	80	120			

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B60804**	RunNo: **60804**
Prep Date:	Analysis Date: **6/20/2019**	SeqNo: **2058277** 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	20	1.0	20.00	0	99.3	80	120			
Ethylbenzene	20	1.0	20.00	0	98.0	80	120			
Xylenes, Total	58	2.0	60.00	0	95.9	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		109	80	120			

Sample ID: **1906A32-016AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-19**	Batch ID: **B60804**	RunNo: **60804**
Prep Date:	Analysis Date: **6/20/2019**	SeqNo: **2058280** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1700	50	1000	744.8	96.9	80	120			
Toluene	1500	50	1000	521.6	97.8	80	120			
Ethylbenzene	1200	50	1000	236.6	99.6	80	120			
Xylenes, Total	6300	100	3000	3355	97.8	80	120			
Surr: 4-Bromofluorobenzene	1100		1000		113	80	120			

Sample ID: **1906A32-016AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-19**	Batch ID: **B60804**	RunNo: **60804**
Prep Date:	Analysis Date: **6/20/2019**	SeqNo: **2058281** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1700	50	1000	744.8	91.1	80	120	3.47	20	
Toluene	1400	50	1000	521.6	91.4	80	120	4.39	20	
Ethylbenzene	1200	50	1000	236.6	94.5	80	120	4.22	20	
Xylenes, Total	6100	100	3000	3355	90.4	80	120	3.60	20	
Surr: 4-Bromofluorobenzene	1100		1000		110	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1906A32**

24-Jun-19

Client: Harvest

Project: Florance GCJ 16A

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B60803**	RunNo: **60803**
Prep Date:	Analysis Date: **6/20/2019**	SeqNo: **2058308** 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	20		20.00		102	80	120			

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B60803**	RunNo: **60803**
Prep Date:	Analysis Date: **6/20/2019**	SeqNo: **2058309** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.1	80	120			
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	21	1.0	20.00	0	104	80	120			
Xylenes, Total	62	2.0	60.00	0	104	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		108	80	120			

Sample ID: **1906A32-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-10**	Batch ID: **B60803**	RunNo: **60803**
Prep Date:	Analysis Date: **6/20/2019**	SeqNo: **2058318** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	680	10	200.0	415.5	131	80	120			S
Toluene	210	10	200.0	4.140	105	80	120			
Ethylbenzene	240	10	200.0	19.42	108	80	120			
Xylenes, Total	790	20	600.0	122.9	111	80	120			
Surr: 4-Bromofluorobenzene	220		200.0		108	80	120			

Sample ID: **1906A32-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-10**	Batch ID: **B60803**	RunNo: **60803**
Prep Date:	Analysis Date: **6/20/2019**	SeqNo: **2058319** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	650	10	200.0	415.5	118	80	120	3.91	20	
Toluene	210	10	200.0	4.140	101	80	120	3.49	20	
Ethylbenzene	230	10	200.0	19.42	106	80	120	2.36	20	
Xylenes, Total	760	20	600.0	122.9	107	80	120	3.39	20	
Surr: 4-Bromofluorobenzene	210		200.0		107	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906A32**
24-Jun-19

Client: Harvest
Project: Florance GCJ 16A

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **W60833**	RunNo: **60833**
Prep Date:	Analysis Date: **6/21/2019**	SeqNo: **2059774** 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	20		20.00		102	80	120			

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **W60833**	RunNo: **60833**
Prep Date:	Analysis Date: **6/21/2019**	SeqNo: **2059775** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.7	80	120			
Toluene	19	1.0	20.00	0	97.5	80	120			
Ethylbenzene	20	1.0	20.00	0	98.2	80	120			
Xylenes, Total	59	2.0	60.00	0	97.7	80	120			
Surr: 4-Bromofluorobenzene	25		20.00		124	80	120			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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Harvest** Work Order Number: **1906A32** RcptNo: **1**

Received By: **Anne Thorne** **6/19/2019 8:10:00 AM** Anne Thorne

Completed By: **Erin Melendrez** **6/19/2019 5:20:03 PM**

Reviewed By: LB 6/19/19

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 ☐	
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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	Checked by: JJC 6.20.19

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	1.3	Good	Yes			

Chain-of-Custody Record

Client: Harvest Four Corners
monica Sandavol
Mailing Address: 1755 Arroyo Dr.
Bloomfield, NM 87413
Phone #: 505-632-4475
email or Fax#: msandavol@harvestmidstream.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☒ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: Florance GC J 16A
Project #:
Project Manager: monica Sandavol - Harvest
Danny Burns - LTE
Sampler: Eric Carroll
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 1.8-0.5(CF)=1.3°C

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906A32	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/14	1455	GW	~~SB-07~~ SB-06	3 VOA	HCl	-001	X									
	1535		MW-10			-002	X									
	1620		SB-19			-003	X									
	1620		SB-11			-004	X									
	1315		SB-13			-005	X									
	1515		MW-11			-006	X									
	1555		MW-13			-007	X									
	1400		MW-08			-008	X									
	1415		MW-21			-009	X									
	1445		MW-25			-010	X									
	1500		MW-04			-011	X									
	1530		MW-09			-012	X									

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/18	1140	Eric Carroll				
6/18/19	1906				6/18/19	1150
					06/19/19	0810

Remarks:
Please CC: dburns@ltenv.com
ecarroll@ltenv.com

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

Chain-of-Custody Record

Client: Harvest Four Corners

Monica Sandavol

Mailing Address: 1755 Arroyo Dr.

Bloomfield, NM 87413

Phone #: 505-632-4475

email or Fax#: MSandavol@harvestmidstream.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☒ EDD (Type) PDF

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Florance GC J 16A

Project #:

Project Manager: Monica Sandavol - Harvest; Danny Burns - LTE

Sampler: Eric Carroll

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.8-0.5(CF)=1.3°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906A32	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/13	1330	GW	MW-17	3 VOA	HCl	-013	X									
↓	1345	↓	MW-18	↓	↓	-014	X									
↓	1430	↓	MW-24	↓	↓	-015	X									
↓	1450	↓	MW-19	↓	↓	-016	X									
↓	1515	↓	MW-20	↓	↓	-017	X									
↓	1610	↓	MW-14	↓	↓	-018	X									
↓	1550	↓	MW-22	↓	↓	-019	X									
↓	1630	↓	MW-15	↓	↓	-020	X									
6/14	1310	↓	~~MW-16~~ MW-6	↓	↓	-021	X									
↓	1340	↓	SB-04	↓	↓	-022	X									
↓	1400	↓	SB-15	↓	↓	-023	X									
↓	1415	↓	SB-16	↓	↓	-024	X									

Date	Time	Relinquished by	Received by	Via	Date	Time
6/18	1145	Eric Carroll	Christ Walt		6/18/19	1150
6/18/19	1906	Christ Walt	[signature]		6/19/19	0810

Remarks: Please CC: dburns@ltenv.com; ecarroll@ltenv.com

~~-025 MW-23 6/18/19 @ 1520~~

~~-026 MW-26 6/18/19 @ 1446~~

[illegible] 06/20/19

call add per EC MW-23 and MW-26 to COC 06/20/19

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.