



March 29, 2018
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SUBJECT **Third and Fourth Quarter 2017
Semi-Annual Groundwater Monitoring Report**
Gladiola Station
Lea County, New Mexico
OCD No. AP038

Mr. Johnson:

At the request of ExxonMobil Environmental Services Company (EMES) on behalf of ExxonMobil US Production Company, Cardno is submitting the *Third and Fourth Quarter 2017 Semi-Annual Groundwater Monitoring Report* for the subject site. The format used for the report consolidates groundwater sampling (where applicable) and consultant progress updates for EMES into one summary report.

Please call the undersigned at 949 457 8941 if you have questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "David M. Purdy", is written over a light blue horizontal line.

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cc: Ms. Marla D. Madden, EMES

Third and Fourth Quarter 2017 Semi-Annual Groundwater Monitoring Report

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Prepared for
ExxonMobil Environmental Services Company

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1 Introduction

At the request of ExxonMobil Environmental Services Company (EMES), on behalf ExxonMobil US Production Company (ExxonMobil), Cardno prepared this semi-annual groundwater monitoring report for the site. The event included gauging the site wells, sampling the groundwater in site wells without NAPL, and conducting a NAPL pumping test.

2 Site Description

Gladiola Station is located in northeastern Lea County, New Mexico (Plate 1). The site is located at latitude 33.300745 degrees (°) and longitude -103.111117° and consists of 0.54 acre of land (Plate 2). The site was operated as a crude oil pipeline pumping station under ExxonMobil Pipeline Company until it was purchased by Trojan Pipeline L.P. in February 2004. Trojan changed its name to Centurion Pipeline L.P. (Centurion) in July 2004, and the site is currently operated by Centurion (AECOM, 2014a).

3 Geology and Hydrogeology

The site is located in northeastern Lea County, New Mexico, within the Llano Estacado (staked plains) physiographic province. Surface soils at the site are Quaternary windblown (eolian) sediments comprised of sands, silts and clays. This sediment can accumulate to a thickness of 20 feet in this portion of Lea County. The Quaternary sediment unconformably overlies the Tertiary Ogallala formation (AECOM, 2014a).

The Ogallala formation is comprised of variably cemented calcic sands, silts, caliche, gravel and some clays, and ranges in thickness from 50 to 300 feet. Groundwater in northern Lea County is primarily produced from the Ogallala formation. The saturated thickness ranges from 25 to 200 feet, with the depth to groundwater ranging from less than 30 to approximately 260 feet. The Ogallala formation unconformably overlies the Triassic Dockum group. The Dockum group consists of red shale and sandstone and is commonly referred to as red beds. The red beds can exceed 1,000 feet in thickness in this region and may produce small amounts of water at the bottom of the formation. Water wells in the vicinity of the site have a total depth of approximately 100 feet bgs, with depth to groundwater ranging from 35 to 70 feet bgs (AECOM, 2014a).

The surface soils encountered at the site are silty clays approximately 2 to 3 feet thick. This surface soil is consistent with the surface soil description (Quaternary sediment) for this physiographic province. The next three soil types encountered at the site are consistent with the description of the Ogallala formation (caliche, limestone and silty sands). The Dockum group was not encountered at the site (AECOM, 2014a).

The first occurrence of groundwater encountered at the site is found within the Ogallala formation and would likely be classified as the Ogallala Aquifer. The characteristics of the Ogallala Aquifer as described in the scientific literature match the characteristics of subsurface conditions beneath the site (produces small amounts of good-quality water). The depth to groundwater beneath the site has ranged historically from approximately 29 to 43 feet bgs (AECOM, 2014a).

4 Regulatory Framework and Site Classification

The New Mexico Oil Conservation Division (NMOCD) has regulatory jurisdiction over oil and gas production operations including crude-oil pipeline releases and closure activities in the State of New Mexico. This

investigation was conducted in accordance with a "revised Stage 1 Abatement Plan," submitted to the NMOCD on March 2, 2006. The NMOCD requires that soil affected by a crude oil release be remediated in such a manner that the potential for future effects to groundwater or the environment are minimized. The NMOCD hydrocarbon recommended remediation action levels (RRALs) for soil are determined by ranking criteria on a site-by-site basis, outlined in the NMOCD *Guidelines for Remediation of Spills, Leaks, and Releases*, dated August 13, 1993 (NMOCD, 1993). The ranking criteria are based on three site characteristics: depth to groundwater, wellhead protection and distance to surface water (AECOM, 2014a).

The NMOCD guidelines require groundwater to be analyzed for potential constituents of concern as defined by New Mexico Water Quality Control Commission (NMWQCC) regulatory limits. Human health standards for groundwater with a total dissolved solids (TDS) concentration of less than 10,000 mg/L can be found in New Mexico Administrative Code (NMAC) 20.6.2.3103, Sections A and B (AECOM, 2014a).

A water well search was conducted on May 28, 2008. According to the New Mexico Office of the State Engineer Water Administration Technical Engineering Resource System database, 18 wells are located within approximately 1 mile of the site. Three of those wells are within 2,000 feet of the site. Two were natural resource exploratory wells (likely petroleum exploration), and one was installed as a livestock watering well. According to the Water Administration Technical Engineering Resource System database, no wells are located within 1,000 feet of the site (AECOM, 2014a).

On March 13, 2009 and April 15, 2009, Kleinfelder West, Inc. (Kleinfelder) contacted an adjacent property owner, Mr. Tommy Burrus, to obtain information regarding water well locations and usage (AECOM, 2014a). According to Mr. Burrus, water supply wells are located as indicated in the following table.

Location	Usage	Owner
Approximately 0.5 mile northeast	Livestock watering well	Tommy Burrus
Between approximately 0.5 - 0.75 mile southeast of the site	Livestock watering well	Tommy Burrus
Approximately 0.4 mile east of the site	Domestic well at an abandoned ranch (no longer in use)	Tommy Burrus
Between approximately 0.5 and 0.75 mile northwest of the site	Livestock watering well	Clinton Houston

Data collected during groundwater monitoring and sampling events indicates that the historic DTW at the site has ranged from approximately 29 to 43 feet bgs. The site is not within 1,000 feet of a wellhead protection area, and surface water is more than 1,000 feet from the site, giving the site a ranking criteria score of 20 as summarized in the following table (AECOM, 2014a).

Characterization	Selection	Score
Depth to Groundwater	Less than 50 feet	20
Wellhead Protection Area	Greater than 1,000 feet	0
Distance to Surface Water	Greater than 1,000 feet	0
Total Score	NA	20

Based on a total score of 20, the following soil hydrocarbon RRALs apply to this site:

Constituent of Concern	RRALs (mg/kg)
Benzene	10
Total BTEX	50
TPH	100

Groundwater samples collected as part of assessment activities were evaluated using NMWQCC regulatory limits for the analytical parameters listed in the following table.

Constituent of Concern	Concentration (mg/L)
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62
Benzo(a)pyrene	0.0007
Total Naphthalene ¹	0.03
Arsenic	0.1
Barium	1.0
Cadmium	0.01
Chromium	0.05
Lead	0.05
Mercury	0.002
Selenium	0.05
Silver	0.05
Chloride	250.0
Sulfate	600.0
TDS	1,000.0

¹Total Naphthalene = naphthalene + 1-methylnaphthalene + 2-methylnaphthalene

5 Previous Work

Soil and groundwater investigations have been conducted at the site since 2002. Previous work has included the drilling of soil borings, installation of wells, soil excavation, and NAPL bailing (Plate 2). For detailed information regarding these investigations, refer to the documents listed in the reference section. Cumulative groundwater analytical results are summarized in Tables 1 through 7.

5.1 Pumping Station Activities

November 18, 2002. A crude oil release of approximately 15 barrels (bbls) occurred as a result of a leak from the former western sump overflow/bleeder valve, located to the northeast of well MW-1. The November 18, 2002, *Leak, Maintenance and Exposed Pipe Report* indicated that 5 bbls of crude oil were recovered from the release (ExxonMobil, 2002).

May 21, 2007. Centurion reported a crude oil release resulting from a strainer valve failure, which caused the eastern sump, located to the north of well MW-2, to overfill (AECOM, 2014a).

5.2 Site Assessment Activities

2004. BNC Environmental Services, Inc. conducted soil and groundwater activities, which included the installation of monitoring wells MW-1 through MW-3. NAPL was encountered in the wells. A water well search was also conducted, which did not identify water wells located on the site or land immediately adjacent to the site (BNC, 2004).

2006. Conestoga-Rovers & Associates (CRA) advanced soil borings SB-9 and SB-11, installed groundwater monitoring wells MW-4 through MW-10, and conducted a site-wide groundwater monitoring and sampling event at the site. NAPL was encountered in wells MW-1, MW-2, and MW-3 (AECOM, 2014a).

April 2008. Kleinfelder oversaw the installation of monitoring wells MW-11 through MW-16 (Kleinfelder, 2008).

August 2009. Kleinfelder oversaw the installation of monitoring wells MW-17 through MW-21 (AECOM, 2014a).

October 26-28, 2011. Groundwater & Environmental Services, Inc. (GES) advanced soil borings SB-1 through SB-7 at the site and installed temporary groundwater monitoring wells at each boring location. GES then gauged and sampled the temporary monitoring wells. No measurable NAPL was encountered in the wells (AECOM, 2014a).

December 13-15, 2011. GES installed permanent monitoring wells MW-23 through MW-26 (AECOM, 2014a).

5.3 Remediation Activities

August 2003. E. D. Walton conducted initial remedial excavation activities and B&H Maintenance and Construction conducted a soil boring investigation. These activities were documented in the *Soil Coring Investigation Report* (B&H, 2003).

May 18 to June 27, 2007. Soil remediation activities, including excavation, were conducted at the site (AECOM, 2014a).

April 2, 2009. NOVA Safety and Environment, on behalf of Centurion, recommended to the NMOCD no further action for the May 2007 release (AECOM, 2014a).

May 24 and 25, 2017. Cardno conducted a NAPL recovery test to assess whether sustained flow of NAPL is possible by pumping. During the test, approximately 10 to 15 gallons of NAPL were removed. A report documenting the results of the NAPL pump test will be submitted under separate cover.

5.4 Groundwater Monitoring Activities

2006. CRA conducted site-wide groundwater monitoring and sampling activities. NAPL was encountered in wells MW-1 through MW-3 (AECOM, 2014a).

April 2008–February 2009. Kleinfelder conducted groundwater monitoring activities at the site. The groundwater monitoring data indicated that hydrocarbons related to the Centurion May 2007 release were still present on site (AECOM, 2014a).

October 12-13, 2011. GES performed groundwater monitoring and sampling activities for wells MW-1 through MW-22. Monitoring wells with NAPL were gauged and bailed (AECOM, 2014a).

October 28, 2011. GES gauged and sampled temporary monitoring wells SB-1 through SB-7. No measurable NAPL was encountered in the wells (AECOM, 2014).

February 22, 2012. GES performed groundwater monitoring and sampling activities for wells MW-1 through MW-26. Monitoring wells with NAPL were gauged and bailed (AECOM, 2014a).

July 17, 2012. GES performed groundwater monitoring and sampling activities at the site. Monitoring wells with NAPL were gauged and bailed. NAPL samples from wells MW-2 and MW-13 were collected for fingerprint analysis. Borbas Surveying and Mapping LLC surveyed the 26 monitoring wells and select features on the site (AECOM, 2014a).

October 3, 2012. GES performed groundwater monitoring and sampling activities at the site. Monitoring wells with NAPL were gauged and bailed. NAPL samples were collected from wells MW-2, MW-13, MW-18, and MW-26 for fingerprint analysis (AECOM, 2014a).

May 13-16, 2013. AECOM conducted a groundwater monitoring and sampling event at the site, including the removal of bailed NAPL. Approximately 17 gallons of NAPL were recovered from affected monitoring wells.

Monitoring well MW-8 was not found and is presumed to be destroyed. Large pieces of concrete were found in the vicinity of the well (AECOM, 2014a).

January 27-29, 2014. AECOM conducted a groundwater monitoring and sampling event at the site, including the removal of bailed product. Approximately 20 gallons of NAPL were recovered from affected monitoring wells (AECOM, 2014a).

June 16-19, 2014. AECOM conducted a groundwater monitoring and sampling event at the site, including the removal of bailed NAPL. Approximately 25 gallons of NAPL were recovered from affected monitoring wells. Monitoring well MW-2 was found damaged and could not be gauged or sampled (AECOM, 2014a).

November 17-19, 2014. AECOM conducted a groundwater monitoring and sampling event at the site, including the removal of bailed NAPL. Approximately 25 gallons of NAPL were recovered from affected monitoring wells (AECOM, 2014b).

6 Field Activities

Field data sheets are included in Appendix A. The laboratory analytical report is included in Appendix B.

6.1 Monitoring Well Gauging

On November 28, 2017, monitoring wells MW-1 through MW-26 were gauged with the exception of wells MW-2 and MW-8. Monitoring well MW-2 is damaged and cannot be gauged or sampled. Monitoring well MW-8 was not located and is presumed to have been destroyed in 2013.

At the beginning of the groundwater monitoring event, the monitoring well boxes were opened and the locking well caps removed from the wells. The liquid level within each well was allowed to equilibrate to atmospheric pressure. The water levels were measured in all wells prior to sampling using an electronic oil/water interface probe capable of detecting groundwater elevations to the nearest 0.01 foot.

In wells without NAPL or a sheen, the depth to groundwater was measured to the nearest 0.01 foot with an electronic oil/water interface probe. Groundwater elevations are calculated by subtracting the depth to groundwater from the surveyed TOC.

In wells with NAPL, the depth of the top and bottom of NAPL was measured using an oil/water interface probe. The water levels were then corrected for density effects to accurately determine the elevation of the water table. Wells containing NAPL are not purged or sampled.

After measuring the static groundwater levels, select monitoring wells were purged using low-flow sampling techniques. Samples were collected once field parameters stabilized. Submersible pumps were utilized for purging the monitoring wells and the flow rate was adjusted to minimize drawdown. Water quality measurements including temperature, pH, conductivity, dissolved oxygen and ORP were recorded via the use of a flow-through cell and a YSI multi-parameter meter. The sample intake was positioned at approximately the middle of the well screen.

6.2 Monitoring Well Sampling

On November 29, 2017, groundwater samples were collected from the monitoring wells without NAPL.

The wells were sampled using low-flow sampling techniques in general accordance with the EPA guidelines described in the EPA document titled "Standard Operating Procedure for Low-Stress (Low Flow)/Minimal Drawdown Ground-Water Sample Collection" (www.epa.gov/Region09/qa/pdfs/finalsopls1217.pdf).

After purging, groundwater samples were collected through a bladder pump directly into laboratory-provided containers. Depending on the required analysis, each sample container was preserved with hydrochloric acid,

nitric acid, etc., or it was preservative-free. The samples were immediately placed on ice in laboratory-supplied containers and subsequently shipped to a certified environmental laboratory using COC protocol.

QA/QC samples were also submitted including a field blank and an equipment blank. The field blank was prepared by placing distilled water into the laboratory supplied sample containers while in the field. The equipment blank was prepared by pouring distilled water over or through decontaminated field sampling equipment prior to the collection of samples.

The samples were analyzed for VOCs by EPA Method 8260B, PAHs by EPA Method 8270C, RCRA metals by EPA Method 6010B, mercury by EPA Method 7470A, chloride by Standard Method 4500 Cl-E, sulfate by EPA Method D516-90, total alkalinity by SM 2320B, and TDS by SM 2540C.

6.3 NAPL Bailing

On November 29, 2017, Cardno bailed NAPL from wells MW5 (1 gallon), MW14 (3 gallons), MW24 (2 gallons), and MW25 (2 gallons). Cardno collected additional DTW and DTP measurements from select bailed wells on November 30, 2017.

6.4 Waste Management

Decontamination/purge water and NAPL generated during the sampling and NAPL recovery event were temporarily stored in DOT-approved, sealed 55-gallon drums. The water was transported by Alamo1 to the Sundance Services, Inc. in Eunice, New Mexico. Waste disposal documentation is included in Appendix C.

7 Results

Measurable NAPL was encountered in monitoring wells MW-1, MW-3, MW-4, MW-5, MW-9, MW-12 through MW-16, MW-18, MW-20, MW-21, MW-23, MW-24, and MW-25. NAPL thickness ranged from 0.02 foot (MW-03) to 3.34 feet (MW-24).

Measured groundwater levels in the wells ranged from 35.70 feet below TOC (well MW-3) to 41.57 feet below TOC (MW-25). The apparent groundwater flow direction was ranged from north to northeast. The groundwater surface elevations and NAPL thicknesses for the monitoring wells are summarized in Table 1. The groundwater surface elevations were used to construct a potentiometric surface map (Plate 3), illustrating the estimated water table contours and direction of groundwater flow.

Groundwater analytical results were compared to NMWQCC standards as shown in Tables 1 through 7. Concentrations reported in the sampled wells did not exceed NMWQCC standards with the following exceptions:

- **Benzene:** MW-17.
- **Ethylbenzene:** MW-17.
- **Total Naphthalene:** MW-17.
- **Chromium:** MW-19.
- **Mercury:** MW-10.
- **TDS:** MW-10 and MW-11.

A map showing the extent of NAPL and groundwater concentrations for BTEX and total naphthalene are presented on Plate 4.

8 Conclusions and Recommendations

Concentrations and NAPL measurements decreased or remained stable. The groundwater flow direction was consistent with historical results. Cardno recommends continued semi-annual groundwater monitoring at the site.

In addition, Cardno recommends that additional groundwater monitoring wells be installed to further delineate dissolved-phase hydrocarbons. Cardno will prepare and submit a work plan for additional groundwater assessment.

9 Contact Information

The responsible party contact is Ms. Marla D. Madden, EMES, 18685 Main Street, Suite 101 PMB 601, Huntington Beach, California, 92648-1719.

The consultant contact is Mr. David M. Purdy, Cardno, 20505 Crescent Bay Drive, Lake Forest, California, 92630.

The agency contact is Mr. Larry Johnson, NMOCD, 1625 North French Drive, Hobbs, New Mexico, 88240.

10 Limitations

For documents cited that were not generated by Cardno, the data taken from those documents is used “as is” and is assumed to be accurate. Cardno does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

This document and the work performed have been undertaken in good faith, with due diligence and with the expertise, experience, capability and specialized knowledge necessary to perform the work in a good and workmanlike manner and within all accepted standards pertaining to providers of environmental services in New Mexico at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

11 References

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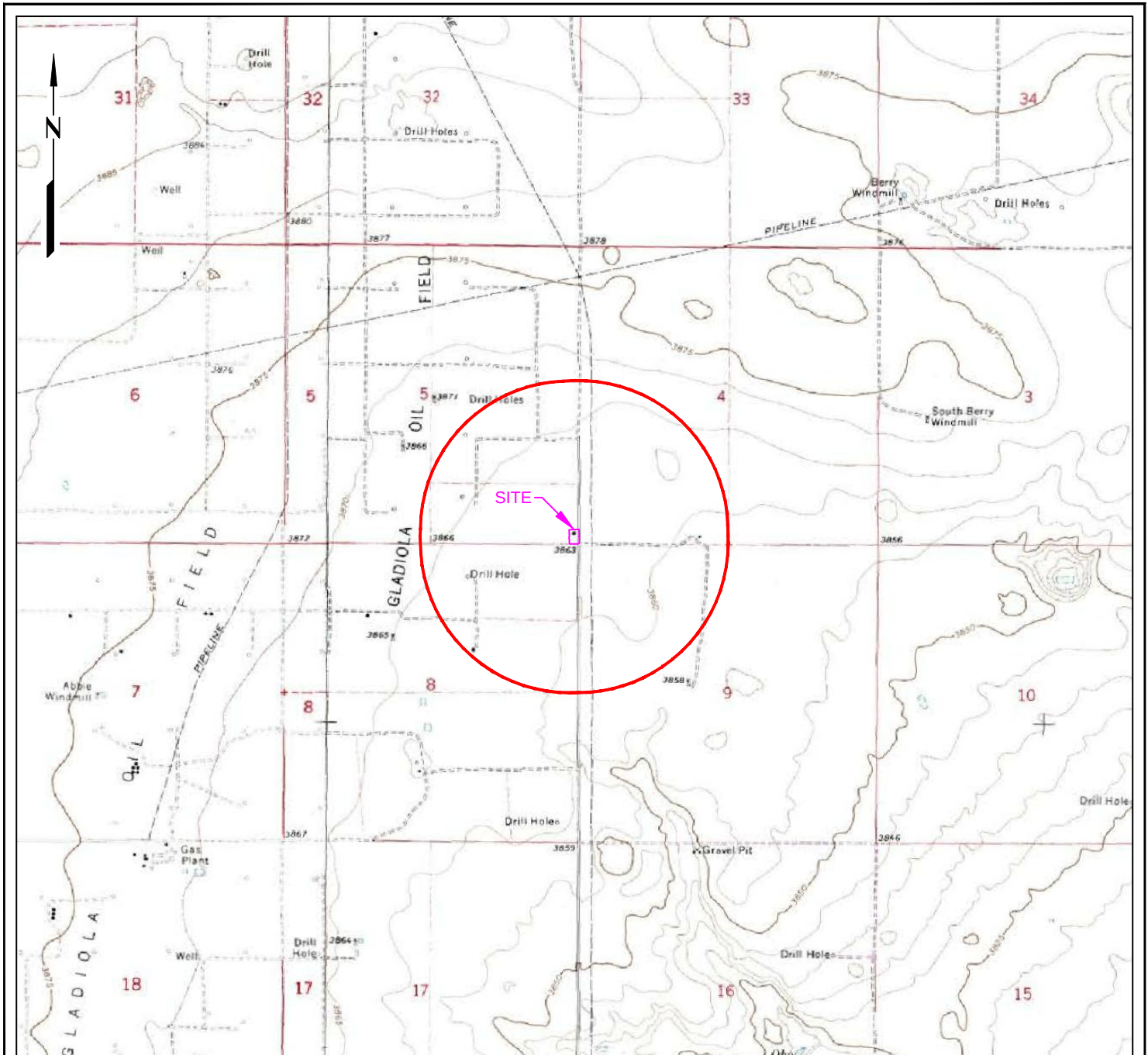
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New Mexico Oil Conservation Division (NMOCD). August 13, 1993. *Guidelines for Remediation of Spills, Leaks, and Releases*.

NOVA Safety and Environmental (NOVA). March 2008. *Site Closure Request*, Gladiola Gathering, Unit D, Section 9, Township 13 South, Range 38 East, East of Tatum, Lea County, New Mexico.

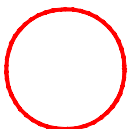
12 Acronym List

µg/L	Micrograms per liter	NAPL	Non-aqueous phase liquid
µg/m ³	Micrograms per cubic meter	NEPA	National Environmental Policy Act
µs	Microsiemens	NGVD	National Geodetic Vertical Datum
1,2-DCA	1,2-dichloroethane	NPDES	National Pollutant Discharge Elimination System
acfm	Actual cubic feet per minute	O&M	Operations and Maintenance
AS	Air sparge	ORP	Oxidation-reduction potential
AST	Aboveground storage tank	OSHA	Occupational Safety and Health Administration
bgs	Below ground surface	OVA	Organic vapor analyzer
BTEX	Benzene, toluene, ethylbenzene, and total xylenes	P&ID	Process and Instrumentation Diagram
cfm	Cubic feet per minute	PAH	Polycyclic aromatic (or polyaromatic) hydrocarbon
COC	Chain-of-Custody	PCB	Polychlorinated biphenyl
CPT	Cone Penetration (Penetrometer) Test	PCE	Tetrachloroethene or perchloroethylene
DIPE	Di-isopropyl ether	PID	Photo-ionization detector
DO	Dissolved oxygen	PLC	Programmable logic control
DOT	Department of Transportation	POTW	Publicly-owned treatment works
DPE	Dual-phase extraction	ppmv	Parts per million by volume
DTW	Depth to water	PQL	Practical quantitation limit
EDB	1,2-dibromoethane	psi	Pounds per square inch
EPA	Environmental Protection Agency	PVC	Polyvinyl chloride
ESL	Environmental screening level	QA/QC	Quality assurance/quality control
ETBE	Ethyl tertiary butyl ether	RBSL	Risk-based screening levels
FID	Flame-ionization detector	RCRA	Resource Conservation and Recovery Act
fpm	Feet per minute	RL	Reporting limit
GAC	Granular activated carbon	scfm	Standard cubic feet per minute
gpd	Gallons per day	SSTL	Site-specific target level
gpm	Gallons per minute	STLC	Soluble threshold limit concentration
GWPTS	Groundwater pump and treat system	SVE	Soil vapor extraction
HIT	High-intensity targeted	SVOC	Semi-volatile organic compound
HVOC	Halogenated volatile organic compound	TAME	Tertiary amyl methyl ether
J	Estimated value between MDL and PQL (RL)	TBA	Tertiary butyl alcohol
LEL	Lower explosive limit	TCE	Trichloroethene
LPC	Liquid-phase carbon	TOC	Top of well casing elevation; datum is msl
LRP	Liquid-ring pump	TOG	Total oil and grease
LUFT	Leaking underground fuel tank	TPH	Total petroleum hydrocarbons
LUST	Leaking underground storage tank	TPHd	Total petroleum hydrocarbons as diesel
MCL	Maximum contaminant level	TPHg	Total petroleum hydrocarbons as gasoline
MDL	Method detection limit	TPHmo	Total petroleum hydrocarbons as motor oil
mg/kg	Milligrams per kilogram	TPHs	Total petroleum hydrocarbons as stoddard solvent
mg/L	Milligrams per liter	TRPH	Total recoverable petroleum hydrocarbons
mg/m ³	Milligrams per cubic meter	UCL	Upper confidence level
MPE	Multi-phase extraction	USCS	Unified Soil Classification System
MRL	Method reporting limit	USGS	United States Geologic Survey
msl	Mean sea level	UST	Underground storage tank
MTBE	Methyl tertiary butyl ether	VCP	Voluntary Cleanup Program
MTCA	Model Toxics Control Act	VOC	Volatile organic compound
NAI	Natural attenuation indicators	VPC	Vapor-phase carbon



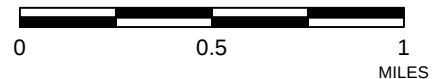
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EXPLANATION



1/2-mile distance from
property border

APPROXIMATE SCALE



SOURCE:
Modified from a map
provided by
MapPass



SITE LOCATION MAP

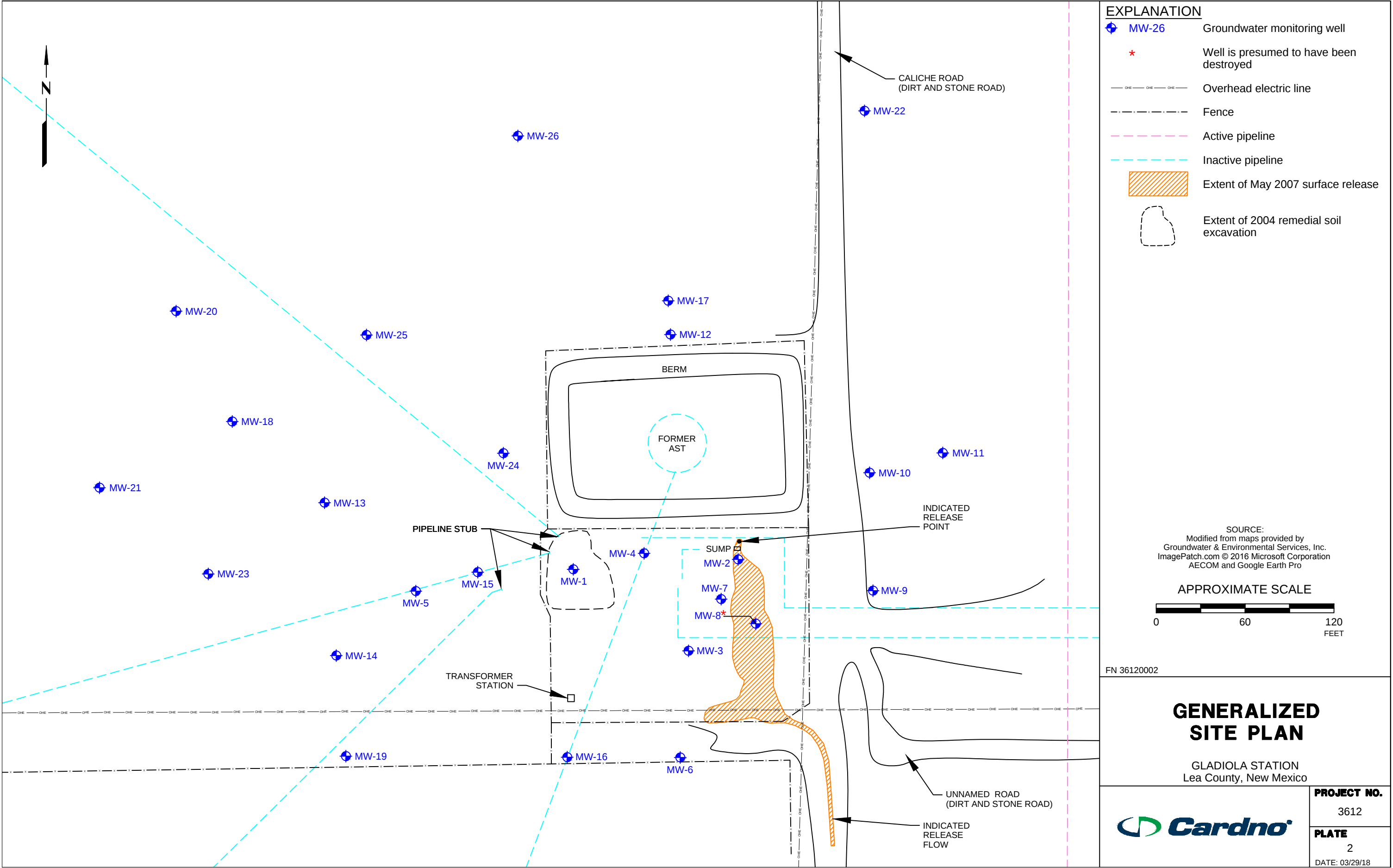
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Lea County, New Mexico

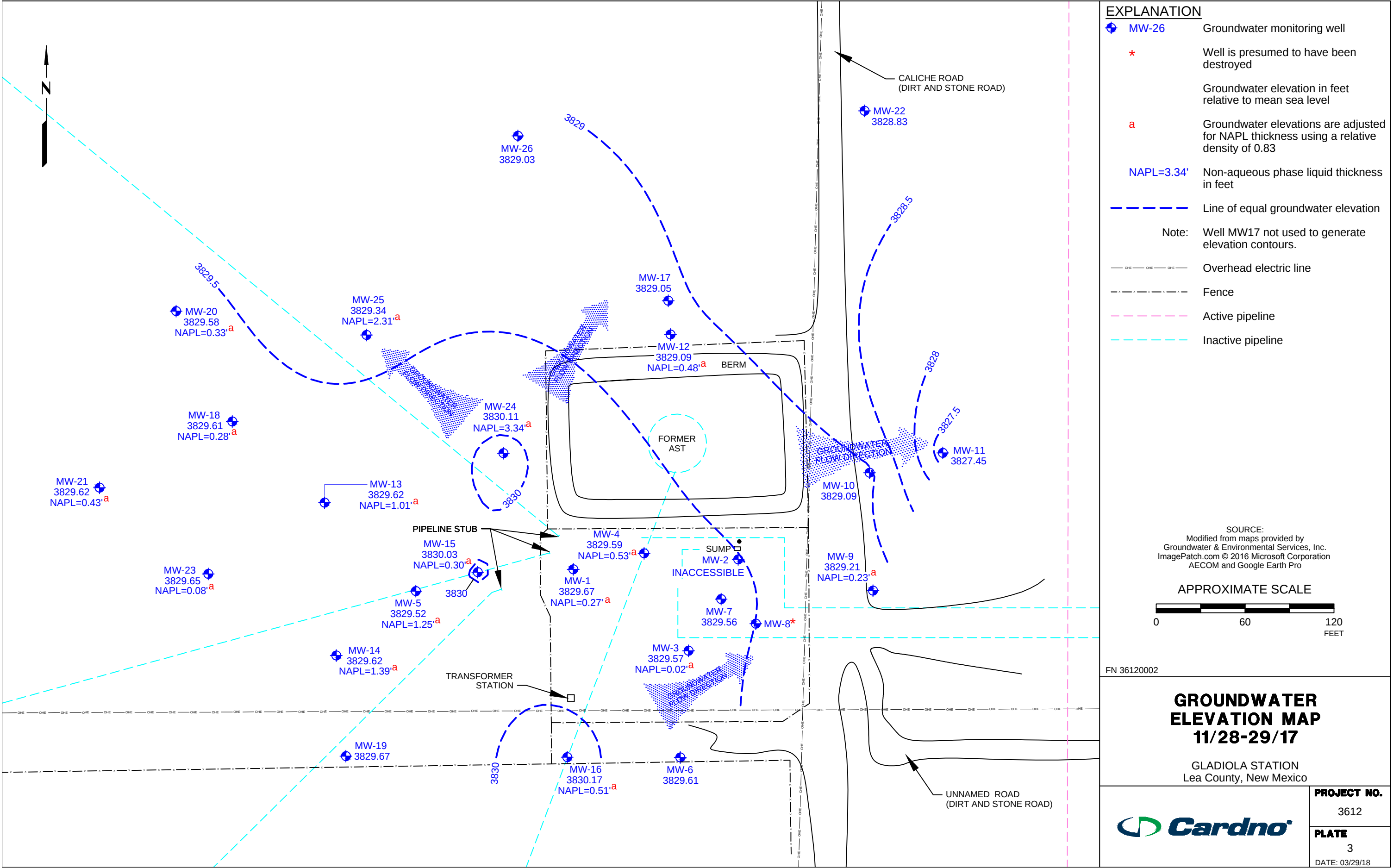
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PLATE

1





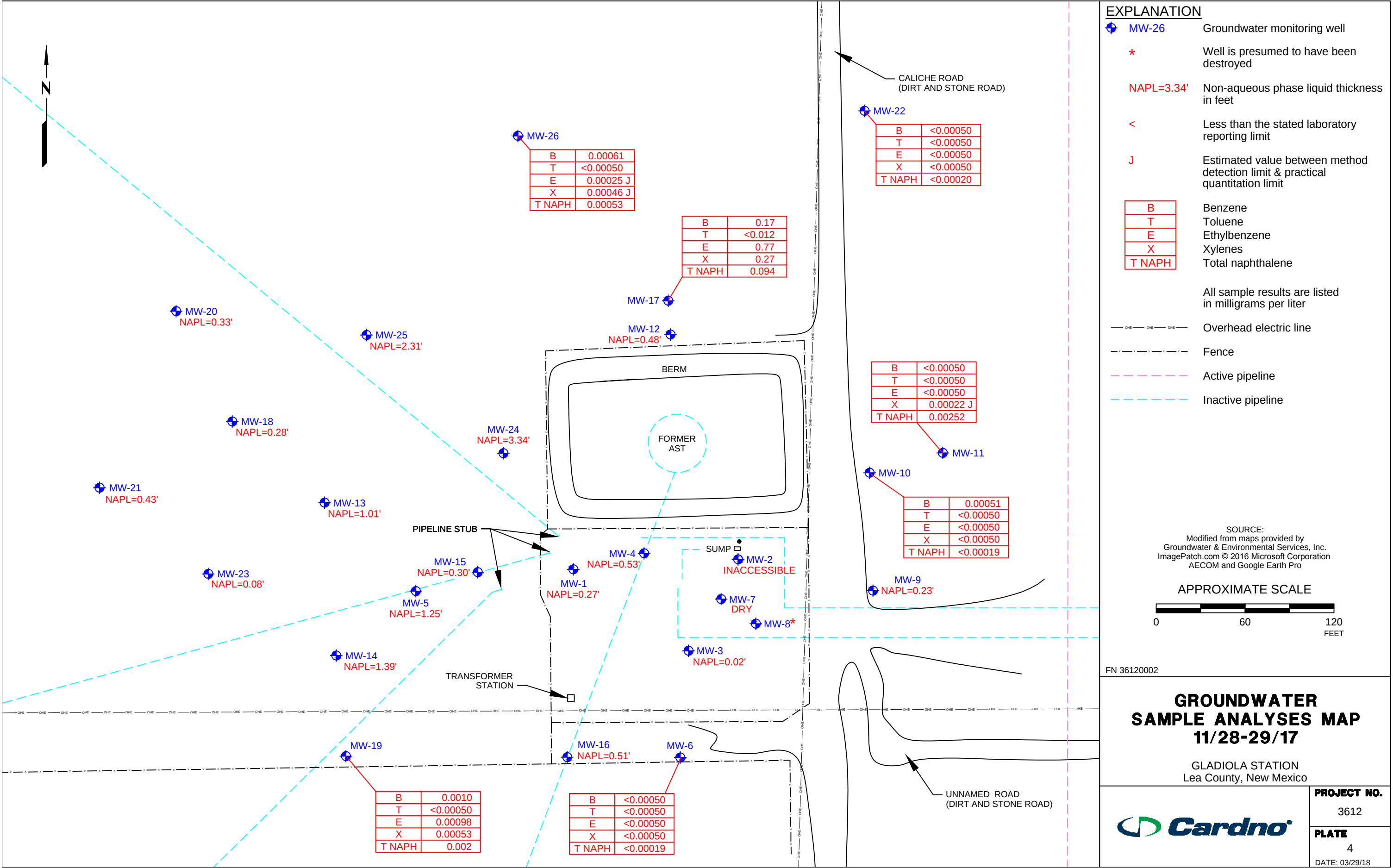


TABLE 1
WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-1	Well Screen Interval (feet): 22.71-42.71							
11/28/17	3866.63	37.18	3,829.67	0.27				
Field Point MW-2	Well Screen Interval (feet): 27.59-47.59							
11/28/17	3869.40				Inaccessible - Stick-up well casing damaged.			
Field Point MW-3	Well Screen Interval (feet): 24.20-44.20							
11/28/17	3865.25	35.70	3,829.57	0.02	Insufficient water to sample.			
Field Point MW-4	Well Screen Interval (feet): 23.97-38.97							
11/28/17	3866.18	37.03	3,829.59	0.53				
Field Point MW-5	Well Screen Interval (feet): 27.19-47.19							
11/28/17	3868.54	40.06	3,829.52	1.25				
Field Point MW-6	Well Screen Interval (feet): 27.05-42.05							
11/28/17	3868.52	38.91	3,829.61	No				
11/29/17	3868.52			No	<0.00050	<0.00050	<0.00050	<0.00050
Field Point MW-7	Well Screen Interval (feet): 24.35-39.35							
11/28/17	3865.67	36.11	3,829.56	No				
Field Point MW-8	Well Screen Interval (feet): 23.05-38.05							
11/28/17	3865.32				Unable to locate - Presumed destroyed.			
Field Point MW-9	Well Screen Interval (feet): 27.64-42.64							
11/28/17	3869.82	40.80	3,829.21	0.23				
Field Point MW-10	Well Screen Interval (feet): 28.08-43.08							
11/28/17	3870.38	41.29	3,829.09	No				
11/29/17	3870.38			No	0.00051	<0.00050	<0.00050	<0.00050
Field Point MW-11	Well Screen Interval (feet): 29.00-44.00							
11/28/17	3868.06	40.61	3,827.45	No				
11/29/17	3868.06			No	<0.00050	<0.00050	<0.00050	0.00022 J
Field Point MW-12	Well Screen Interval (feet): 30.00-45.00							
11/28/17	3869.27	40.58	3,829.09	0.48				
Field Point MW-13	Well Screen Interval (feet): 30.00-45.00							
11/28/17	3868.63	39.85	3,829.62	1.01				
Field Point MW-14	Well Screen Interval (feet): 27.00-42.00							
11/28/17	3868.47	40.00	3,829.62	1.39				
Field Point MW-15	Well Screen Interval (feet): 29.00-44.00							
11/28/17	3868.74	38.96	3,830.03	0.30				
Field Point MW-16	Well Screen Interval (feet): 26.50-41.50							
11/28/17	3868.54	38.79	3,830.17	0.51				
Field Point MW-17	Well Screen Interval (feet): 29.50-44.50							
11/28/17	3869.14	40.09	3,829.05	No				
11/29/17	3869.14			No	0.17	<0.012	0.77	0.27

TABLE 1
WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-18	Well Screen Interval (feet): 27.00-42.00							
11/28/17	3868.79	39.41	3,829.61	0.28				
Field Point MW-19	Well Screen Interval (feet): 27.00-42.00							
11/28/17	3868.75	39.08	3,829.67	No				
11/29/17	3868.75			No	0.0010	<0.00050	0.00098	0.00053
Field Point MW-20	Well Screen Interval (feet): 29.50-44.50							
11/28/17	3868.97	39.66	3,829.58	0.33				
Field Point MW-21	Well Screen Interval (feet): 29.50-44.50							
11/28/17	3868.89	39.63	3,829.62	0.43				
Field Point MW-22	Well Screen Interval (feet): 30.00-45.00							
11/28/17	3869.73	40.90	3,828.83	No				
11/29/17	3869.73			No	<0.00050	<0.00050	<0.00050	<0.00050
Field Point MW-23	Well Screen Interval (feet): 31.00-46.00							
11/28/17	3869.08	39.50	3,829.65	0.08				
Field Point MW-24	Well Screen Interval (feet): 28.00-43.00							
11/28/17	3867.88	40.54	3,830.11	3.34				
Field Point MW-25	Well Screen Interval (feet): 28.00-43.00							
11/28/17	3868.99	41.57	3,829.34	2.31				
Field Point MW-26	Well Screen Interval (feet): 30.00-45.00							
11/28/17	3868.98	39.95	3,829.03	No				
11/29/17	3868.98			No	0.00061	<0.00050	0.00025 J	0.00046 J

Notes: Data collected prior to December 8, 2015 provided by AECOM.

ELEV = Elevation.

GW = Groundwater.

NAPL = Non-aqueous phase liquid.

Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.

NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.

Bolded values equal or exceed applicable regulatory limits.

Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.

Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.

TDS = Total dissolved solids.

mg/l = Milligrams per liter.

BDL = Below laboratory detection limits.

< = Not detected at or above stated laboratory reporting limit.

A-01 = Could not obtain constant weight.

D = Duplicate sample.

J = Estimated value between method detection limit and practical quantitation limit.

R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.

R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.

R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.

X = Pre-purge/no-purge sample.

(a) = Analyzed by EPA Method 8310.

(b) = Analyzed by EPA Method 8260B.

(c) = Analyzed method unknown.

(d) = Analyzed to determine the presense of NAPL.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS FOR SVOCs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-6 11/29/17	Well Screen Interval (feet): 27.05-42.05			<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00017 J	<0.00019
Field Point MW-10 11/29/17	Well Screen Interval (feet): 28.08-43.08			<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-11 11/29/17	Well Screen Interval (feet): 29.00-44.00			<0.00019	<0.00019	0.00015 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00022	<0.00019
Field Point MW-17 11/29/17	Well Screen Interval (feet): 29.50-44.50			<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0016	<0.00019
Field Point MW-19 11/29/17	Well Screen Interval (feet): 27.00-42.00			<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00068	<0.00019
Field Point MW-22 11/29/17	Well Screen Interval (feet): 30.00-45.00			<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Field Point MW-26 11/29/17	Well Screen Interval (feet): 30.00-45.00			<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019

TABLE 2
GROUNDWATER ANALYTICAL RESULTS FOR SVOCs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-6	Well Screen Interval (feet): 27.05-42.05					
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-10	Well Screen Interval (feet): 28.08-43.08					
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-11	Well Screen Interval (feet): 29.00-44.00					
11/29/17	0.00033	<0.00019	0.00022	0.0010	0.0013	0.00252
Field Point MW-17	Well Screen Interval (feet): 29.50-44.50					
11/29/17	0.0013	<0.00019	0.044	0.022	0.028	0.094
Field Point MW-19	Well Screen Interval (feet): 27.00-42.00					
11/29/17	0.00018 J	<0.00019	0.00045	0.0013	0.00025	0.002
Field Point MW-22	Well Screen Interval (feet): 30.00-45.00					
11/29/17	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Field Point MW-26	Well Screen Interval (feet): 30.00-45.00					
11/29/17	<0.00019	<0.00019	0.00020	0.00018 J	0.00015 J	0.00053

TABLE 2
GROUNDWATER ANALYTICAL RESULTS FOR SVOCs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

TABLE 3
GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	0.1	1	0.01	0.05	0.05	0.002	0.05	0.05	250.0	600.0	NA	1000.0
Field Point MW-6	Well Screen Interval (feet): 27.05-42.05											
11/29/17	<0.0100	0.212	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	13	19	460	570
Field Point MW-10	Well Screen Interval (feet): 28.08-43.08											
11/29/17	0.0294	0.321	<0.0100	0.0154	<0.0100	0.00319	0.0184	<0.00500	130	67	691	1080
Field Point MW-11	Well Screen Interval (feet): 29.00-44.00											
11/29/17	<0.0100	0.0530	<0.0100	0.00570 J	<0.0100	<0.000200	0.0185	0.00189 J	210	110	454	1090
Field Point MW-17	Well Screen Interval (feet): 29.50-44.50											
11/29/17	0.0192	10.2	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	14	0.55 J	896	815
Field Point MW-19	Well Screen Interval (feet): 27.00-42.00											
11/29/17	0.0382	0.0579	<0.0100	0.116	<0.0100	<0.000200	0.00751 J	<0.00500	23	130	361	605
Field Point MW-22	Well Screen Interval (feet): 30.00-45.00											
11/29/17	0.0194	0.0259	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	32	190	250	675
Field Point MW-26	Well Screen Interval (feet): 30.00-45.00											
11/29/17	0.0127	0.0633	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	24	200	355	735

Notes: Data collected prior to December 8, 2015 provided by AECOM.

ELEV = Elevation.

GW = Groundwater.

NAPL = Non-aqueous phase liquid.

Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.

NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.

Bolded values equal or exceed applicable regulatory limits.

Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.

Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.

TDS = Total dissolved solids.

mg/l = Milligrams per liter.

BDL = Below laboratory detection limits.

< = Not detected at or above stated laboratory reporting limit.

A-01 = Could not obtain constant weight.

D = Duplicate sample.

J = Estimated value between method detection limit and practical quantitation limit.

R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.

R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.

R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.

X = Pre-purge/no-purge sample.

(a) = Analyzed by EPA Method 8310.

(b) = Analyzed by EPA Method 8260B.

(c) = Analyzed method unknown.

(d) = Analyzed to determine the presense of NAPL.

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-1	Well Screen Interval (feet): 22.71-42.71							
05/17/04	3863.81	32.74	3831.07	No				
11/30/04	3863.81	30.83	3835.00	2.43				
05/05/05	3863.81	29.20	3835.25	0.77				
07/24/06	3863.81	28.71	3835.58	0.58	1.6	0.236	0.181	0.815
02/08/07	3863.81	28.92	3835.27	0.46	1.1	0.106	0.362	1.46
04/15/08	3863.81	29.45	3834.68	0.39				
09/21/08	3863.81			No				
09/26/08	3863.81	29.58	3834.51	0.34	1.03	0.00434	0.551	1.63
02/15/09	3863.81	30.50	3833.60	0.35				
05/19/09	3863.81	30.85	3833.32	0.43	1.12	0.00132	0.563	1.22
08/19/09	3865.14	31.75	3833.68	0.35	1.06	0.227	0.67	1.51
10/30/09	3865.14	31.73	3833.64	0.28	1.01	0.00225	0.774	1.63
10/12/11	3865.14	34.60	3831.00	0.55				
02/22/12	3865.14	34.85	3830.66	0.45				
07/17/12	3866.63	35.26	3831.77	0.48				
10/03/12	3866.63	35.42	3831.58	0.45				
05/14/13	3866.63	35.83	3831.12	0.39				
01/27/14	3866.63	36.83	3830.57	0.93				
06/17/14	3866.63	36.92	3830.19	0.58				
11/18/14	3866.63	36.94	3830.19	0.60				
12/07/15	3866.63	36.87	3830.11	0.42				
04/26/16	3866.63	37.20	3829.73	0.36				
10/24/16	3866.63	36.64	3830.17	0.22				
05/22/17	3866.63	37.41	3829.56	0.41				
11/28/17	3866.63	37.18	3,829.67	0.27				
Field Point MW-2	Well Screen Interval (feet): 27.59-47.59							
05/17/04	3867.89	37.04	3830.85	No				
11/30/04	3867.89	35.61	3833.88	1.93				
05/05/05	3867.89	33.36	3834.90	0.45				
07/25/06	3867.89	33.14	3834.95	0.24	0.00492	0.0142	0.142	0.166
02/08/07	3867.89	33.07	3834.92	0.12	0.0550	0.0111	0.0726	0.105
04/15/08	3867.89	38.81	3834.43	6.44				
09/22/08	3867.89			No				
09/26/08	3867.89	38.97	3833.94	6.05	2.57	2.66	0.504	1.210
02/15/09	3867.89	38.95	3833.45	5.43				
05/19/09	3867.89	38.63	3833.09	4.62	Not sampled - NAPL entered bailer during each attempt.			
08/19/09	3867.89	39.00	3832.92	4.85	2.70	2.44	0.495	1.110
10/30/09	3867.89	38.98	3832.87	4.77	3.25	<0.00100	0.381	0.675
10/12/11	3867.89	39.46	3830.82	2.88				
02/22/12	3867.89	39.73	3830.48	2.80				
07/17/12	3869.40	40.19	3831.64	2.93				
10/03/12	3869.40	40.29	3831.45	2.82				
05/14/13	3869.40	40.72	3830.96	2.75				
01/27/14	3869.40	40.11	3830.39	1.33				
06/17/14	3869.40				Inaccessible - Stick-up well casing damaged.			
12/07/15	3869.40				Inaccessible - Stick-up well casing damaged.			
04/26/16	3869.40				Inaccessible - Stick-up well casing damaged.			
10/24/16	3869.40				Inaccessible - Stick-up well casing damaged.			
05/22/17	3869.40				Inaccessible - Stick-up well casing damaged.			
11/28/17	3869.40				Inaccessible - Stick-up well casing damaged.			

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-3	Well Screen Interval (feet): 24.20-44.20							
05/17/04	3863.72	32.79	3830.93	No				
11/30/04	3863.72	30.08	3834.01	0.44				
05/05/05	3863.72	28.90	3835.02	0.24				
07/24/06	3863.72	28.87	3835.06	0.25	0.0452	0.00715	0.0974	0.015
02/08/07	3863.72	28.79	3835.02	0.11	0.586	0.00522	0.114	0.360
04/15/08	3863.72	29.42	3834.48	0.22				
09/22/08	3863.72			No				
09/26/08	3863.72	29.99	3833.90	0.20	1.55	<0.00100	0.133	0.310
02/15/09	3863.72	29.90	3833.94	0.15				
05/19/09	3863.72	30.82	3833.14	0.29	1.2	<0.00100	0.116	0.206
08/19/09	3863.72	31.15	3832.86	0.35	2.05	<0.00100	0.174	0.317
10/30/09	3863.72	31.16	3832.83	0.33	1.96	<0.00100	0.166	0.320
10/12/11	3863.72	33.10	3830.94	0.38				
02/22/12	3863.72	33.30	3830.58	0.19				
07/17/12	3865.25	33.80	3831.71	0.31				
10/03/12	3865.25	33.94	3831.51	0.24				
05/14/13	3865.25	34.31	3831.04	0.12				
01/27/14	3865.25	35.04	3830.47	0.31				
06/17/14	3865.25	35.33	3830.13	0.25				
11/18/14	3865.25	35.34	3830.02	0.13				
12/07/15	3865.25	35.39	3829.93	0.09				
04/26/16	3865.25	35.69	3829.71	0.18				
10/24/16	3865.25	35.42	3829.93	0.12				
05/22/17	3865.25	35.80	3829.52	0.09				
11/28/17	3865.25	35.70	3,829.57	0.02	Insufficient water to sample.			
Field Point MW-4	Well Screen Interval (feet): 23.97-38.97							
07/25/06	3864.66	29.57	3835.09	No	3.14	0.0387	0.153	0.318
02/07/07	3864.66	29.66	3835.00	No	2.78	0.0239	0.215	0.451
04/15/08	3864.66	30.21	3834.45	No	3.39	0.0151	0.337	0.662
09/21/08	3864.66			No				
09/26/08	3864.66	30.75	3833.93	0.02	2.95	0.0276	0.328	0.688
02/15/09	3864.66	31.09	3833.58	0.01				
05/19/09	3864.66	31.73	3833.10	0.20	1.93	0.00189	0.170	0.546
08/19/09	3864.66	31.82	3832.98	0.17	2.89	<0.00100	0.336	0.600
10/30/09	3864.66	31.80	3832.96	0.12	2.92	0.0011	0.347	0.619
10/12/11	3864.66	34.09	3830.91	0.41				
02/22/12	3864.66	34.58	3830.54	0.56				
07/17/12	3866.18	35.21	3831.78	0.97				
10/03/12	3866.18	36.07	3831.51	1.69				
05/14/13	3866.18	35.53	3831.22	0.69				
01/27/14	3866.18	36.77	3830.47	1.28				
06/17/14	3866.18	36.76	3830.12	0.84				
11/18/14	3866.18	36.79	3830.04	0.78				
12/07/15	3866.18	36.71	3829.99	0.63				
04/26/16	3866.18	36.78	3829.72	0.38				
10/24/16	3866.18	36.60	3829.89	0.37				
05/22/17	3866.18	37.15	3829.53	0.60				
11/28/17	3866.18	37.03	3,829.59	0.53				
Field Point MW-5	Well Screen Interval (feet): 27.19-47.19							
07/20/06	3866.99	31.82	3835.17	No	6.93	0.374	0.567	1.14
02/07/07	3866.99	31.93	3835.06	No	6.91	0.297	0.905	1.74

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-5	Well Screen Interval (feet): 27.19-47.19							
04/15/08	3866.99	32.45	3834.54	No	5.44	0.0686	0.763	1.33
09/21/08	3866.99			No				
09/26/08	3866.99	33.07	3833.92	No	6.17	0.0979	0.736	1.220
02/06/09	3866.99	33.54	3833.45	No	5.61	0.0514	0.849	1.410
02/06/09 D	3866.99	33.54	3833.45	No	5.26	0.0438	0.835	1.320
05/19/09	3866.99	33.83	3833.16	No	5.08	0.0436	0.681	1.180
08/19/09	3866.99	34.15	3832.84	No	4.68	0.0567	0.726	0.932
08/19/09 D	3866.99	34.15	3832.84	No	4.79	0.0732	0.709	1.100
10/30/09	3866.99	34.35	3832.64	No	5.01	0.0933	0.713	1.25
10/12/11	3866.99	36.02	3830.97	No	3.5	0.00678	0.521	0.431
10/12/11 D	3866.99	36.02	3830.97	No	3.47	0.00666	0.52	0.407
02/22/12	3866.99	36.85	3830.14	No	3.75	0.00125	0.54	0.626
02/22/12 D	3866.99	36.85	3830.14	No	3.65	<0.00100	0.516	0.593
07/17/12	3868.54	36.70	3831.84	No	2.68	<0.00100	0.419	0.262
07/17/12 D	3868.54	36.70	3831.84	No	2.62	<0.00100	0.39	0.251
10/03/12	3868.54	37.54	3831.00	No	2.91	<0.00100	0.49	0.667
10/03/12 D	3868.54	37.54	3831.00	No	2.97	<0.00100	0.501	0.683
05/15/13	3868.54	37.47	3831.05	0.10				
01/28/14	3868.54	38.90	3830.47	1.00				
06/18/14	3868.54	39.13	3830.17	0.91				
11/18/14	3868.54	40.01	3829.95	1.71				
12/07/15	3868.54	41.09	3829.92	2.98				
04/26/16	3868.54	39.48	3829.76	0.84				
10/24/16	3868.54	39.59	3829.80	1.02				
05/22/17	3868.54	39.80	3829.66	1.11				
11/28/17	3868.54	40.06	3,829.52	1.25				
Field Point MW-6	Well Screen Interval (feet): 27.05-42.05							
07/21/06	3867.00	31.84	3835.16	No	0.034	0.001	0.001	0.0531
02/07/07	3867.00	31.93	3835.07	No	0.00667	<0.00100	<0.00100	0.0245
04/15/08	3867.00	32.51	3834.49	No	1.34	<0.00100	<0.00100	<0.00300
09/21/08	3867.00			No				
09/26/08	3867.00	33.08	3833.92	No	0.00261	<0.00100	<0.00100	<0.00300
02/06/09	3867.00	33.51	3833.49	No	0.00143	<0.00100	<0.00100	<0.00300
05/18/09	3867.00	33.87	3833.13	No	0.00184	<0.00100	<0.00100	<0.00300
08/19/09	3867.00	34.15	3832.85	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3867.00	34.35	3832.65	No	<0.00100	<0.00100	<0.00100	<0.00300
11/19/09	3867.00	34.42	3832.58	No				
10/13/11	3867.00	36.14	3830.86	No				
02/22/12	3867.00	38.65	3828.35	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3868.52	36.78	3831.74	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3868.52	37.40	3831.12	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3868.52	37.49	3831.03	No	0.000202 J	<0.00017	<0.00019	<0.00018
01/28/14	3868.52	38.07	3830.45	No	<0.0002	<0.00017	<0.00019	<0.00058
06/18/14	3868.52	38.38	3830.14	No	<0.0002	<0.00017	<0.00019	<0.00038
11/19/14	3868.52	38.54	3829.98	No	<0.00100	<0.00100	<0.00100	<0.002
12/08/15	3868.52	38.60	3829.92	No	<0.00100	<0.00100	<0.00100	<0.00300
04/26/16	3868.52	38.91	3829.61	No	<0.00100	<0.00100	<0.00100	<0.00300
10/24/16	3868.52	38.79	3829.73	No				
10/25/16	3868.52				Unable to sample due to silt in pump.			
05/22/17	3868.52	38.93	3829.59	No				
05/24/17	3868.52			No	<0.00050	<0.00050	<0.00050	<0.00050
11/28/17	3868.52	38.91	3,829.61	No				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-6	Well Screen Interval (feet): 27.05-42.05							
11/29/17	3868.52			No	<0.00050	<0.00050	<0.00050	<0.00050
Field Point MW-7	Well Screen Interval (feet): 24.35-39.35							
07/25/06	3864.14	29.05	3835.09	No	0.0279	0.00113	0.00385	0.0288
02/07/07	3864.14	29.08	3835.06	No	0.0332	<0.00100	0.0244	0.0276
04/15/08	3864.14	29.67	3834.47	No	0.0147	<0.00100	0.00422	0.0167
09/20/08	3864.14			No				
09/26/08	3864.14	30.17	3833.97	No	0.0194	<0.00100	0.00260	0.0161
02/05/09	3864.14	30.54	3833.60	No	0.0158	<0.00100	0.00424	0.0122
05/18/09	3864.14	31.08	3833.06	No	0.0138	<0.00100	0.00270	0.0107
08/19/09	3864.14	31.20	3832.94	No	0.0250	<0.00100	<0.00100	0.0160
10/30/09	3864.14	31.29	3832.85	No	0.0363	<0.00100	0.00193	0.0356
10/13/11	3864.14	33.24	3830.90	Sheen	0.0115	<0.00100	<0.00100	<0.00300
02/22/12	3864.14	34.20	3829.94	Sheen	0.0348	<0.00100	0.0026	<0.00300
07/17/12	3865.67	33.96	3831.73	0.02				
10/03/12	3865.67	34.16	3831.52	0.01				
05/14/13	3865.67	35.96	3829.98	0.32				
01/27/14	3865.67	35.22	3830.47	0.03				
06/17/14	3865.67	35.54	3830.13	Sheen				
11/18/14	3865.67	35.64	3830.03	Sheen				
12/07/15	3865.67	35.76	3829.92	0.01				
04/26/16	3865.67	36.00	3829.68	0.01				
10/24/16	3865.67	35.84	3829.83	(d)				
05/22/17	3865.67	Dry		No				
11/28/17	3865.67	36.11	3,829.56	No				
Field Point MW-8	Well Screen Interval (feet): 23.05-38.05							
07/25/06	3863.80	28.74	3835.06	No	0.0176	0.001	0.00724	0.0236
02/07/07	3863.80	28.82	3834.98	No	0.00561	<0.00100	0.0138	0.00655
04/15/08	3863.80	29.40	3834.40	No	0.00319	<0.00100	0.00382	0.00614
09/20/08	3863.80			No				
09/26/08	3863.80	29.92	3833.88	No	0.00385	<0.00100	0.00722	0.0151
02/05/09	3863.80	30.31	3833.49	No	0.00337	<0.00100	0.00552	0.00313
05/18/09	3863.80	30.72	3833.08	No	0.00201	<0.00100	0.00406	0.00337
08/19/09	3863.80	29.95	3833.85	No	<0.00100	<0.00100	0.00318	0.00620
10/30/09	3863.80	29.99	3833.81	No	0.00124	<0.00100	<0.00100	0.00653
10/12/11	3863.80				Not measured or sampled.			
02/22/12	3863.80	33.40	3830.42	0.02				
07/17/12	3865.32	33.80	3831.68	0.19				
10/03/12	3865.32	33.96	3831.58	0.26				
05/14/13	3865.32				Unable to locate - Presumed destroyed.			
01/27/14	3865.32				Unable to locate - Presumed destroyed.			
06/17/14	3865.32				Unable to locate - Presumed destroyed.			
12/07/15	3865.32				Unable to locate - Presumed destroyed.			
04/26/16	3865.32				Unable to locate - Presumed destroyed.			
10/24/16	3865.32				Unable to locate - Presumed destroyed.			
05/22/17	3865.32				Unable to locate - Presumed destroyed.			
11/28/17	3865.32				Unable to locate - Presumed destroyed.			
Field Point MW-9	Well Screen Interval (feet): 27.64-42.64							
07/21/06	3868.29	33.48	3834.81	No	0.00137	0.001	0.001	0.003
02/06/07	3868.29	33.60	3834.69	No	0.00170	<0.00100	<0.00100	<0.00300
04/15/08	3868.29	34.10	3834.19	No	0.00254	<0.00100	<0.00100	<0.00300
09/21/08	3868.29			No				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-9	Well Screen Interval (feet): 27.64-42.64							
09/26/08	3868.29	34.66	3833.63	No	<0.00100	<0.00100	<0.00100	<0.00300
02/05/09	3868.29	35.16	3833.13	No	0.00585	<0.00100	<0.00100	<0.00300
05/18/09	3868.29	35.44	3832.85	No	0.00404	<0.00100	<0.00100	<0.00300
08/19/09	3868.29	35.70	3832.59	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3868.29	35.93	3832.36	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3868.29	37.66	3830.63	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3868.29	38.49	3829.80	No	0.00136	<0.00100	<0.00100	<0.00300
07/17/12	3869.82	38.30	3831.52	No	0.00529	<0.00100	0.00654	0.0132
10/03/12	3869.82	38.40	3831.50	0.10	0.135	0.00971	0.177	0.829
05/14/13	3869.82	38.99	3830.88	0.06				
01/28/14	3869.82	40.12	3830.14	0.53				
06/17/14	3869.82	40.22	3829.84	0.29				
11/17/14	3869.82	40.35	3829.64	0.20				
12/07/15	3869.82	40.51	3829.51	0.24				
04/26/16	3869.82	40.68	3829.37	0.28				
10/24/16	3869.82	40.71	3829.33	0.27				
05/22/17	3869.82	40.85	3829.26	0.35				
11/28/17	3869.82	40.80	3,829.21	0.23				
Field Point MW-10	Well Screen Interval (feet): 28.08-43.08							
07/21/06	3868.85	34.10	3834.75	No	0.0133	0.001	0.001	0.003
02/06/07	3868.85	34.22	3834.63	No	0.0115	<0.00100	<0.00100	<0.00300
04/15/08	3868.85	34.76	3834.09	No	0.00599	<0.00100	<0.00100	<0.00300
09/21/08	3868.85			No				
09/26/08	3868.85	35.34	3833.51	No	0.00635	<0.00100	<0.00100	<0.00300
02/05/09	3868.85	35.84	3833.01	No	0.00409	<0.00100	<0.00100	<0.00300
05/18/09	3868.85	36.12	3832.73	No	0.00348	<0.00100	<0.00100	<0.00300
08/19/09	3868.85	36.40	3832.45	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3868.85	36.61	3832.24	No	<0.00100	<0.00100	<0.00100	<0.00300
11/19/09	3868.85	36.65	3832.20	No				
10/13/11	3868.85	38.30	3830.55	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3868.85	38.83	3830.02	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3870.38	38.96	3831.42	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3870.38	39.46	3830.92	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3870.38	39.72	3830.66	No	0.000879 J	<0.00017	<0.00019	<0.00018
05/15/13 D	3870.38	39.72	3830.66	No	0.00138	<0.00017	<0.00019	<0.00018
01/29/14	3870.38	40.33	3830.05	No	0.000898 J	<0.00017	<0.00019	<0.00058
06/18/14	3870.38	41.64	3828.74	No	Insufficient recharge for sampling.			
11/19/14	3870.38	40.89	3829.49	No	<0.00100	<0.00100	<0.00100	<0.002
11/19/14 D	3870.38	40.89	3829.49	No	<0.00100	<0.00100	<0.00100	<0.002
12/07/15	3870.38	40.91	3829.47	No	Insufficient water to sample.			
04/26/16	3870.38	41.47	3828.91	No	Insufficient water to sample.			
10/24/16	3870.38	41.17	3829.21	No	Insufficient water to sample.			
05/22/17	3870.38	41.25	3829.13	No				
05/24/17	3870.38			No	<0.00050	<0.00050	<0.00050	<0.00050
11/28/17	3870.38	41.29	3,829.09	No				
11/29/17	3870.38			No	0.00051	<0.00050	<0.00050	<0.00050
Field Point MW-11	Well Screen Interval (feet): 29.00-44.00							
04/30/08	3868.06	31.50	3836.56	No	<0.00100	<0.00100	<0.00100	<0.00300
09/21/08	3868.06			No				
09/26/08	3868.06	34.65	3833.41	No	0.00351	<0.00100	<0.00100	<0.00300
02/05/09	3868.06	35.12	3832.94	No	0.00401	<0.00100	<0.00100	<0.00300

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-11	Well Screen Interval (feet): 29.00-44.00							
05/18/09	3868.06	35.42	3832.64	No	0.00382	<0.00100	<0.00100	<0.00300
08/19/09	3868.06	35.75	3832.31	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3868.06	35.95	3832.11	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3868.06	37.60	3830.46	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3868.06	38.06	3830.00	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3869.58	38.26	3831.32	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3869.58	38.50	3831.08	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3869.58	39.01	3830.57	No	0.000606 J	<0.00017	<0.00019	<0.00018
01/28/14	3869.58	39.57	3830.01	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3869.58	39.95	3829.63	No	<0.000200	<0.00017	<0.00019	<0.00038
11/19/14	3869.58	40.20	3829.38	No	<0.00100	<0.00100	<0.00100	<0.002
12/08/15	3869.58	40.29	3829.29	No	<0.00100	<0.00100	<0.00100	<0.00300
04/27/16	3869.58	40.33	3829.25	No	<0.00100	<0.00100	<0.00100	<0.00300
10/24/16	3869.58	40.49	3829.09	No				
10/25/16	3868.06			No	<0.00100	<0.00100	<0.00100	<0.00300
05/22/17	3868.06	40.54	3827.52	No				
05/24/17	3868.06			No	<0.00050	0.00021 J	<0.00050	<0.00050
11/28/17	3868.06	40.61	3,827.45	No				
11/29/17	3868.06			No	<0.00050	<0.00050	<0.00050	0.00022 J
Field Point MW-12	Well Screen Interval (feet): 30.00-45.00							
04/30/08	3867.74	31.50	3836.24	No	0.0504	0.00401	0.242	0.598
09/21/08	3867.74			No				
09/26/08	3867.74	34.12	3833.62	No	0.222	0.0116	0.978	1.84
02/05/09	3867.74	34.67	3833.07	No	0.178	0.0134	1.19	2.22
05/19/09	3867.74	34.98	3832.76	No	0.143	0.0128	0.882	1.65
08/19/09	3867.74	35.20	3832.54	No	0.162	0.00987	0.937	1.68
10/30/09	3867.74	35.45	3832.29	No	0.162	0.0128	1.02	1.99
10/13/11	3867.74	37.12	3830.62	No	0.055	0.00603	0.476	1.01
02/22/12	3867.74	37.46	3830.28	No	0.059	0.005	0.869	1.66
07/17/12	3869.27	37.90	3831.37	No	0.050	0.0116	0.737	0.562
10/03/12	3869.27	38.10	3831.17	No	0.054	0.0152	0.822	1.67
05/14/13	3869.27	38.60	3830.67	Sheen				
01/28/14	3869.27	39.30	3830.04	0.09				
06/17/14	3869.27	39.60	3829.74	0.09				
11/17/14	3869.27	40.50	3829.54	0.93				
12/07/15	3869.27	40.66	3829.46	1.03				
04/26/16	3869.27	40.38	3829.33	0.53				
10/24/16	3869.27	40.34	3829.21	0.39				
05/22/17	3869.27	40.50	3829.18	0.49				
11/28/17	3869.27	40.58	3,829.09	0.48				
Field Point MW-13	Well Screen Interval (feet): 30.00-45.00							
04/30/08	3867.11	29.65	3837.46	No	3.64	0.102	0.292	0.499
09/21/08	3867.11			No				
09/26/08	3867.11	33.11	3834.00	No	9.26	0.513	0.972	1.71
02/06/09	3867.11	33.62	3833.49	No	10.1	0.554	1.050	1.89
05/19/09	3867.11	33.88	3833.23	No	8.44	0.323	0.842	1.38
08/19/09	3867.11	34.32	3832.89	0.12	8.13	0.305	0.950	2.07
10/30/09	3867.11	34.45	3832.72	0.07	9.55	0.218	1.03	1.75
10/13/11	3867.11	36.90	3831.00	0.95				
02/22/12	3867.11	37.78	3829.89	0.68				
07/17/12	3868.63	38.85	3831.86	2.50				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-13	Well Screen Interval (feet): 30.00-45.00							
10/03/12	3868.63	39.02	3831.67	2.48				
05/14/13	3868.63	38.89	3831.30	1.88				
01/28/14	3868.63	39.91	3830.47	2.11				
06/17/14	3868.63	39.91	3830.19	1.77				
11/18/14	3868.63	41.56	3829.97	3.49				
12/07/15	3868.63	41.31	3829.94	3.16				
04/26/16	3868.63	40.12	3829.79	1.54				
10/24/16	3868.63	39.55	3829.87	0.95				
05/22/17	3868.63	39.91	3828.78	0.07				
11/28/17	3868.63	39.85	3,829.62	1.01				
Field Point MW-14	Well Screen Interval (feet): 27.00-42.00							
04/30/08	3866.92	29.48	3837.44	No	0.0449	0.00125	0.0231	0.0341
09/21/08	3866.92			No				
09/26/08	3866.92	32.82	3834.10	No	0.123	0.00187	0.0164	0.0911
02/06/09	3866.92	33.37	3833.55	No	0.240	0.00986	0.246	0.166
05/19/09	3866.92	33.64	3833.28	No	0.120	0.00203	0.0971	0.0386
08/19/09	3866.92	33.98	3832.94	No	0.112	<0.00100	0.110	0.0444
10/30/09	3866.92	34.15	3832.77	No	0.119	0.00168	0.0895	0.0645
10/13/11	3866.92	35.85	3831.07	No	0.075	<0.00100	0.0536	0.044
02/22/12	3866.92	36.19	3830.73	No	0.0782	<0.00100	0.0646	0.0212
07/17/12	3868.47	36.54	3831.93	No	0.0798	<0.00100	0.0731	0.0535
10/03/12	3868.47	36.90	3831.57	No	0.107	<0.00100	0.0965	0.0179
05/14/13	3868.47	38.39	3831.27	1.43				
01/28/14	3868.47	38.81	3830.55	1.07				
06/17/14	3868.47	38.76	3830.27	0.67				
11/18/14	3868.47	40.75	3830.04	2.79				
12/07/15	3868.47	41.49	3830.03	3.68				
04/26/16	3868.47	40.85	3829.87	2.71				
10/24/16	3868.47	40.86	3830.05	2.94				
05/22/17	3868.47	41.61	3829.72	3.44				
11/28/17	3868.47	40.00	3,829.62	1.39				
Field Point MW-15	Well Screen Interval (feet): 29.00-44.00							
04/30/08	3867.19	29.74	3837.45	No	1.230	0.167	0.320	0.554
09/21/08	3867.19			No				
09/26/08	3867.19	33.26	3833.94	0.01	6.540	1.350	1.130	2.4
02/15/09	3867.19	33.82	3833.44	0.09				
05/19/09	3867.19	34.20	3833.12	0.16	3.800	0.632	0.848	1.8
08/19/09	3867.19	34.40	3832.91	0.15	3.850	0.892	0.799	2.25
10/30/09	3867.19	34.60	3832.69	0.12	8.96	0.228	0.949	1.66
10/13/11	3867.19	38.04	3831.01	2.24				
02/22/12	3867.19	38.41	3830.71	2.32				
07/17/12	3868.74	38.20	3832.03	1.80				
10/03/12	3868.74	39.95	3831.57	3.35				
05/14/13	3868.74	40.11	3831.12	3.00				
01/28/14	3868.74	40.21	3830.47	2.34				
06/17/14	3868.74	39.35	3830.19	0.96				
11/18/14	3868.74	39.76	3830.13	1.39				
12/07/15	3868.74	40.31	3830.25	2.19				
04/26/16	3868.74	39.61	3829.89	0.91				
10/24/16	3868.74	38.70	3830.41	0.44				
05/22/17	3868.74	38.92	3829.84	0.02				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-15	Well Screen Interval (feet): 29.00-44.00							
11/28/17	3868.74	38.96	3,830.03	0.30				
Field Point MW-16	Well Screen Interval (feet): 26.50-41.50							
04/30/08	3867.02	29.95	3837.07	No	0.00321	<0.00100	0.0237	0.0376
09/21/08	3867.02			No				
09/26/08	3867.02	32.94	3834.08	No	0.00317	<0.00100	0.0253	0.0790
02/06/09	3867.02	33.39	3833.63	No	0.0113	<0.00100	0.0426	0.0634
05/18/09	3867.02	33.73	3833.29	No	0.00670	<0.00100	0.0488	0.0526
08/19/09	3867.02	34.00	3833.02	No	0.00419	<0.00100	0.0251	0.0797
10/30/09	3867.02	34.17	3832.85	No	0.00391	<0.00100	0.0128	0.0564
10/30/09 D	3867.02	34.17	3832.85	No	0.00576	<0.00100	0.0350	0.122
10/13/11	3867.02	35.95	3831.07	No	0.00190	<0.00100	0.0145	0.0342
02/22/12	3867.02	36.45	3830.57	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3868.54	36.65	3831.89	No	0.00157	<0.00100	0.01860	0.01050
10/03/12	3868.54	37.10	3831.44	No	0.00192	<0.00100	0.06370	0.07700
05/14/13	3868.54	38.05	3831.20	0.86				
01/27/14	3868.54	39.11	3830.67	1.49				
06/17/14	3868.54	39.10	3830.32	1.06				
11/18/14	3868.54	38.88	3830.44	0.94				
12/07/15	3868.54	38.61	3830.52	0.71				
04/26/16	3868.54	39.23	3830.02	0.85				
10/24/16	3868.54	38.36	3830.61	0.52				
05/22/17	3868.54	39.30	3829.82	0.70				
11/28/17	3868.54	38.79	3,830.17	0.51				
Field Point MW-17	Well Screen Interval (feet): 29.50-44.50							
08/19/09	3867.64	35.22	3832.42	No	1.28	0.0146	0.845	1.19
10/30/09	3867.64	35.40	3832.24	No	1.52	0.0211	0.986	1.55
10/13/11	3867.64	37.10	3830.54	No	0.68	<0.00100	0.407	0.524
02/22/12	3867.64	37.40	3830.24	No	0.871	<0.00100	0.727	1.16
07/17/12	3869.14	37.75	3831.39	No	0.649	0.00494	0.504	0.438
10/03/12	3869.14	38.20	3830.94	No	0.825	0.0103	0.682	1.22
05/14/13	3869.14	38.52	3830.62	Sheen				
01/28/14	3869.14	39.14	3830.00	Sheen				
06/17/14	3869.14	39.43	3829.71	Sheen				
11/07/14	3869.14	39.64	3829.50	Sheen				
12/09/15	3869.14	39.72	3829.42	Sheen				
04/26/16	3869.14	38.36	3830.78	Sheen				
10/24/16	3869.14	39.93	3829.21	(d)				
05/22/17	3869.14	40.00	3829.16	0.02				
11/28/17	3869.14	40.09	3,829.05	No				
11/29/17	3869.14			No	0.17	<0.012	0.77	0.27
Field Point MW-18	Well Screen Interval (feet): 27.00-42.00							
08/19/09	3867.31	34.45	3832.86	No	2.40	0.0206	0.681	0.836
10/30/09	3867.31	34.60	3832.71	No	2.88	0.0144	0.779	0.703
10/13/11	3867.31	36.26	3831.05	No	1.81	0.00572	0.274	0.108
02/22/12	3867.31	36.59	3830.73	0.01				
07/17/12	3868.79	37.30	3831.82	0.40				
10/03/12	3868.79	38.20	3831.34	0.90				
05/14/13	3868.79	38.23	3831.22	0.80				
01/28/14	3868.79	38.92	3830.53	0.80				
06/17/14	3868.79	38.99	3830.26	0.56				
11/17/14	3868.79	39.12	3830.04	0.44				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-18	Well Screen Interval (feet): 27.00-42.00							
12/07/15	3868.79	39.15	3829.92	0.34				
04/26/16	3868.79	39.36	3829.77	0.41				
10/24/16	3868.79	39.19	3829.77	0.21				
05/22/17	3868.79	39.45	3829.62	0.34				
11/28/17	3868.79	39.41	3,829.61	0.28				
Field Point MW-19	Well Screen Interval (feet): 27.00-42.00							
08/19/09	3867.26	34.22	3833.04	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3867.26	34.40	3832.86	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3867.26	36.08	3831.18	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3867.26	37.14	3830.12	No	0.00188	<0.00100	0.192	0.329
07/17/12	3868.75	36.81	3831.94	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3868.75	36.98	3831.77	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3868.75	37.51	3831.24	No	<0.000200	<0.00017	<0.00019	<0.00018
01/29/14	3868.75	38.15	3830.60	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3868.75	38.43	3830.32	No	<0.000200	<0.00017	<0.00019	<0.00038
11/18/14	3868.75	38.66	3830.09	No	<0.00100	<0.00100	<0.00100	<0.002
12/09/15	3868.75	38.68	3830.07	No	0.00413	<0.00100	<0.00100	0.0714
04/27/16	3868.75	38.91	3829.84	No	0.00416	<0.00100	<0.00100	0.0569
10/24/16	3868.75	38.86	3829.89	No				
10/25/16	3868.75			No	0.00153	<0.00100	<0.00100	0.0343
05/22/17	3868.75	39.00	3829.75	No				
05/24/17	3868.75			No	0.0011	0.00020 J	0.00060	0.0030
11/28/17	3868.75	39.08	3,829.67	No				
11/29/17	3868.75			No	0.0010	<0.00050	0.00098	0.00053
Field Point MW-20	Well Screen Interval (feet): 29.50-44.50							
08/19/09	3867.50	34.69	3832.81	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3867.50	34.85	3832.65	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3867.50	36.55	3830.95	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3867.50	37.09	3830.41	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3868.97	37.31	3831.66	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3868.97	37.48	3831.49	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3868.97	37.99	3830.98	No	<0.000200	<0.00017	<0.00019	<0.00018
01/29/14	3868.97	38.65	3830.32	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3868.97	38.93	3830.04	No	<0.000200	<0.00017	<0.00019	<0.00038
11/18/14	3868.97	39.16	3829.81	No	0.0016	<0.00100	<0.00100	0.0098
12/07/15	3868.97	39.90	3829.83	0.92				
04/26/16	3868.97	40.04	3829.70	0.93				
10/24/16	3868.97	40.50	3829.60	1.36				
05/22/17	3868.97	40.42	3829.53	1.18				
11/28/17	3868.97	39.66	3,829.58	0.33				
Field Point MW-21	Well Screen Interval (feet): 29.50-44.50							
08/19/09	3867.43	34.42	3833.01	No	<0.00100	<0.00100	<0.00100	<0.00300
10/30/09	3867.43	34.60	3832.83	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3867.43	36.24	3831.19	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3867.43	36.75	3830.68	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3868.89	36.95	3831.94	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3868.89	37.15	3831.74	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3868.89	37.67	3831.22	No	<0.000200	<0.00017	<0.00019	<0.00018
01/29/14	3868.89	38.35	3830.54	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3868.89	38.62	3830.27	No	<0.000200	<0.00017	<0.00019	<0.00038
11/18/14	3868.89	38.87	3830.02	No	<0.00100	<0.00100	<0.00100	<0.002

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-21	Well Screen Interval (feet): 29.50-44.50							
12/08/15	3868.89	38.85	3830.04	No	0.0124	<0.00100	<0.00100	0.00780
04/27/16	3868.89	39.05	3829.84	No	0.0115	<0.00100	<0.00100	0.0104
10/24/16	3868.89	39.13	3829.76	No				
10/25/16	3868.89			No	0.00383	<0.00100	<0.00100	<0.00300
05/22/17	3868.89	39.26	3829.73	0.12				
11/28/17	3868.89	39.63	3,829.62	0.43				
Field Point MW-22	Well Screen Interval (feet): 30.00-45.00							
10/30/09	3868.21	36.27	3831.94	No	<0.00100	<0.00100	<0.00100	<0.00300
10/13/11	3868.21	37.90	3830.31	No	<0.00100	<0.00100	<0.00100	<0.00300
02/22/12	3868.21	38.26	3829.95	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3869.73	38.60	3831.13	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3869.73	38.80	3830.93	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3869.73	39.36	3830.37	No	<0.000200	<0.00017	<0.00019	<0.00018
01/29/14	3869.73	40.00	3829.73	No	<0.000200	<0.00017	<0.00019	<0.00058
01/29/14 D	3869.73	40.00	3829.73	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3869.73	40.29	3829.44	No	<0.000200	<0.00017	<0.00019	<0.00038
11/19/14	3869.73	40.54	3829.19	No	<0.00100	<0.00100	<0.00100	<0.002
12/08/15	3869.73	40.62	3829.11	No	<0.00100	<0.00100	<0.00100	<0.00300
04/27/16	3869.73	40.79	3828.94	No	<0.00100	<0.00100	<0.00100	<0.00300
10/24/16	3869.73	40.82	3828.91	No				
10/25/16	3869.73			No	<0.00100	<0.00100	<0.00100	<0.00300
05/22/17	3869.73	40.89	3828.84	No				
05/24/17	3869.73			No	<0.00050	<0.00050	<0.00050	<0.00050
11/28/17	3869.73	40.90	3,828.83	No				
11/29/17	3869.73			No	<0.00050	<0.00050	<0.00050	<0.00050
Field Point MW-23	Well Screen Interval (feet): 31.00-46.00							
02/22/12	3867.58	36.77	3830.81	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3869.08	37.13	3831.95	No	<0.00100	<0.00100	<0.00100	<0.00300
10/03/12	3869.08	37.30	3831.78	No	<0.00100	<0.00100	<0.00100	<0.00300
05/15/13	3869.08	37.88	3831.20	No	<0.000200	<0.00017	<0.00019	<0.00018
01/29/14	3869.08	38.51	3830.57	No	<0.000200	<0.00017	<0.00019	<0.00058
06/18/14	3869.08	38.79	3830.29	No	<0.000200	<0.00017	<0.00019	<0.00038
11/18/14	3869.08	39.03	3830.05	No	0.13	<0.00100	0.0092	0.065
12/08/15	3869.08	39.01	3830.07	No	1.45	<0.00100	0.239	<0.00300
04/27/16	3869.08	38.24	3830.84	No	0.473	<0.00500	0.0887	<0.0150
10/24/16	3869.08	34.35	3834.82	0.11				
05/22/17	3869.08	39.42	3829.75	0.11				
11/28/17	3869.08	39.50	3,829.65	0.08				
Field Point MW-24	Well Screen Interval (feet): 28.00-43.00							
02/22/12	3866.60	35.74	3830.89	0.04				
07/17/12	3867.88	39.70	3831.62	4.15				
10/03/12	3867.88	40.09	3831.40	4.35				
05/14/13	3867.88	38.05	3831.35	1.83				
01/28/14	3867.88	41.92	3830.28	5.21				
06/17/14	3867.88	43.09	3830.04	6.33				
11/18/14	3867.88	43.30	3829.98	6.50				
12/07/15	3867.88	42.51	3829.94	5.50				
04/27/16	3867.88	41.39	3829.54	3.68				
10/24/16	3867.88	42.33	3830.00	5.36				
05/22/17	3867.88	39.82	3829.55	1.80				
11/28/17	3867.88	40.54	3,830.11	3.34				

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Well Elev (feet)	GW Depth (feet)	GW Elev (feet)	NAPL (feet)	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Xylenes (mg/l)
NMED WQCC HHS					0.01	0.75	0.75	0.62
Field Point MW-25	Well Screen Interval (feet): 28.00-43.00							
02/22/12	3867.61	37.00	3830.61	No	8.7	1.12	0.911	2.7
07/17/12	3868.99	37.84	3831.58	0.52				
10/03/12	3868.99	38.92	3830.91	1.01				
05/14/13	3868.99	40.02	3830.99	2.43				
01/28/14	3868.99	41.72	3830.26	3.60				
06/17/14	3868.99	41.74	3829.99	3.30				
11/17/14	3868.99	41.45	3829.77	2.69				
12/07/15	3868.99	40.96	3829.73	2.05				
04/26/16	3868.99	40.00	3829.57	0.70				
10/24/16	3868.99	41.03	3829.53	1.89				
05/22/17	3868.99	41.13	3829.42	1.88				
11/28/17	3868.99	41.57	3,829.34	2.31				
Field Point MW-26	Well Screen Interval (feet): 30.00-45.00							
02/22/12	3867.59	37.28	3830.31	No	<0.00100	<0.00100	<0.00100	<0.00300
07/17/12	3868.98	37.90	3831.08	No	0.00177	<0.00100	<0.00100	<0.00300
10/03/12	3868.98	37.93	3831.05	No	0.00236	<0.00100	<0.00100	<0.00300
05/15/13	3868.98	38.37	3830.61	No	0.0153	<0.00017	<0.00019	<0.00018
01/29/14	3868.98	39.01	3829.97	No	0.0129	<0.00017	<0.00019	<0.00058
06/18/14	3868.98	39.30	3829.68	No	0.000672 J	<0.00017	<0.00019	<0.00038
11/19/14	3868.98	39.55	3829.43	No	0.0033	<0.00100	<0.00100	<0.002
12/08/15	3868.98	39.58	3829.40	No	<0.00100	<0.00100	<0.00100	<0.00300
04/27/16	3868.98	39.78	3829.20	No	0.0242	<0.00100	<0.00100	<0.00300
10/24/16	3868.98	39.81	3829.17	No				
10/25/16	3868.98			No	<0.00100	<0.00100	<0.00100	<0.00300
05/22/17	3868.98	39.86	3829.12	No				
05/24/17	3868.98			No	0.037	0.00023 J	<0.00050	0.00044 J
11/28/17	3868.98	39.95	3,829.03	No				
11/29/17	3868.98			No	0.00061	<0.00050	0.00025 J	0.00046 J
Field Point SB-1GW	Grab Groundwater Sample							
10/28/11				No	0.00719	<0.00100	<0.00100	<0.00300
Field Point SB-2GW	Grab Groundwater Sample							
10/28/11				No	1.88	0.0938	0.138	0.26
Field Point SB-3GW	Grab Groundwater Sample							
10/28/11				No	1.94	2.42	0.986	2.27
Field Point SB-4GW	Grab Groundwater Sample							
10/28/11				No	3.91	0.0703	0.587	1.15
Field Point SB-5GW	Grab Groundwater Sample							
10/28/11				No	2.9	0.024	0.034	0.218
Field Point SB-6GW	Grab Groundwater Sample							
10/28/11				No	0.00133	<0.00100	0.00168	<0.00300
Field Point SB-7GW	Grab Groundwater Sample							
10/28/11				No	0.135	0.00135	0.0263	0.0759

TABLE 4
CUMULATIVE WATER LEVEL MEASUREMENTS AND GROUNDWATER ANALYSES
Gladiola Station
Lea County, New Mexico
Cardno 3612

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-1	Well Screen Interval (feet): 22.71-42.71												
07/24/06	<0.00101	<0.00101	0.141	0.0165	0.00260	0.000971	<0.000202	0.00128	0.0111	<0.000202	0.0788	0.00614	<0.000202
02/08/07	<0.00105	<0.00526	<0.00526	0.00603	<0.000105	0.00267	<0.000211	0.000886	0.00615	0.0104	0.153	0.0153	<0.000211
09/26/08	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
05/19/09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
08/19/09	<0.0200	<0.100	0.0871 R12	0.162 R1	<0.00200	0.0369	0.0358 R1	0.0321 R1	0.323	0.0550 R1	1.660 R1	0.0895	0.0210
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	0.000992	<0.000200	0.00634 R1	0.00163	<0.000200
10/12/11	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000476	<0.0000952
Field Point MW-2	Well Screen Interval (feet): 27.59-47.59												
07/25/06	<0.000939	<0.00217	0.228	0.0300	0.00533	0.0173	0.000665	0.00101	0.0420	0.00186	0.155	0.00823	<0.000188
02/08/07	<0.00109	<0.00543	0.142	0.0128	<0.000109	0.00297	<0.000217	0.00150	0.00802	0.0156	0.0491	0.0174	<0.000217
09/26/08	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971
08/19/09	<0.00513	<0.0256	0.0783 R12	0.157	<0.000513	0.0318 R1	0.0357 R1	0.0269 R1	0.311	0.0530 R1	0.673 R1	0.0992	0.0216
10/30/09	<0.00100	<0.00500	<0.00100	0.00507 R1	0.000684 R1	0.00124 R1	0.00133 R1	0.00166 R1	0.0104	0.00390 R1	0.0400 R1	0.00407	<0.000200
Field Point MW-3	Well Screen Interval (feet): 24.20-44.20												
07/24/06	<0.00106	<0.00106	0.127	0.0160	0.00245	0.000869	<0.000213	0.00131	0.0113	<0.000213	0.0772	0.00575	<0.000213
02/08/07	<0.00111	<0.00556	0.0914	0.00885	0.00172	0.00209	<0.000222	0.00121	0.00849	0.0136	0.0437	0.012	<0.000222
09/26/08	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105
05/19/09	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105
08/19/09	<0.00103	<0.00513	0.00966 R12	0.0234 R1	0.00225 R1	0.00490 R1	0.00422 R1	0.00416 R1	0.0461	0.00630 R1	0.0907 R1	0.00825	0.00271
10/30/09	<0.000990	<0.00495	0.00168 R12	0.00741 R1	0.000418 R1	0.00208 R1	0.00254 R1	0.00286 R1	0.0147	0.00554 R1	0.0537 R1	0.00478	<0.000198

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-4	Well Screen Interval (feet): 23.97-38.97												
07/25/06	<0.000939	0.0026	<0.000939	<0.000188	<0.0000939	<0.0000939	<0.000188	<0.000131	<0.0000939	<0.000188	<0.000188	0.000947	<0.000188
02/07/07	<0.00104	<0.00521	<0.00104	<0.000208	<0.000104	<0.000104	<0.000208	<0.000146	<0.000104	<0.000208	0.0168	0.0023	<0.000208
04/15/08	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990
09/26/08	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980
05/19/09	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526
08/19/09	<0.000971	<0.00485	<0.000971	<0.000194	<0.0000971	<0.0000971	<0.000194	<0.000136	0.00217	<0.000194	0.00365 R1	0.00126	0.000459 R1
10/30/09	<0.000990	<0.00495	<0.000990	0.0124 R1	<0.000099	0.00316 R1	0.00467 R1	0.00399 R1	0.00447	0.00919 R1	0.103 R1	0.0092	<0.000198
Field Point MW-5	Well Screen Interval (feet): 27.19-47.19												
07/20/06	<0.00472	0.00565	<0.000943	<0.000189	<0.0000943	<0.0000943	<0.000189	<0.000132	0.000356	<0.000189	0.00309	<0.000472	<0.000189
02/07/07	<0.00118	<0.00588	0.0113	<0.000235	<0.000118	<0.000118	<0.000235	<0.000165	<0.000118	<0.000235	0.00227	0.00233	<0.000235
04/15/08	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990
09/26/08	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
05/19/09	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526
08/19/09	<0.000971	<0.00485	<0.000971	<0.000194	<0.0000971	<0.0000971	<0.000194	<0.000136	0.000639	<0.000194	0.00253 R1	0.00241	<0.000194
08/19/09 D	<0.000980	<0.00490	<0.000980	<0.000196	<0.0000980	0.000191 R1	<0.000196	<0.000137	0.000994	<0.000196	0.00269 R1	0.00206 R1	<0.000196
10/30/09	<0.00102	<0.00510	<0.00102	<0.000204	<0.000102	<0.000102	<0.000204	<0.000143	0.000313	<0.000204	0.00349 R1	0.00213	<0.000204
10/12/11	0.000367	0.000178	0.000144	0.000122	0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	0.00167	<0.000111
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	0.00202	<0.00190
07/17/12 D	<0.00190	<0.00190	0.00214	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	0.00218	<0.00190	<0.00190
10/03/12	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	0.00253	<0.00196
10/03/12 D	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00249	<0.00189

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-6	Well Screen Interval (feet): 27.05-42.05												
07/21/06	<0.00467	<0.000943	<0.000943	<0.000189	<0.0000943	<0.0000943	<0.000189	<0.000132	<0.0000943	<0.000189	<0.000189	<0.000472	<0.000189
02/07/07	<0.00111	<0.00556	<0.00111	<0.000222	<0.000111	<0.000111	<0.000222	<0.000156	<0.000111	<0.000222	<0.000222	0.000637	<0.000222
04/15/08	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990
09/26/08	<0.00943	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	<0.000500	<0.000200
11/19/09	<0.000980	<0.00490	<0.000980	<0.000196	<0.0000980	<0.0000980	<0.000196	<0.000137	<0.0000980	<0.000196	<0.000196	<0.000490	<0.000196
10/13/11	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	0.0002	<0.0000187
01/28/14	0.0000215 J	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	0.000178	<0.0000188
06/18/14	0.0000949	<0.0000284	<0.0000284	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.0000284	0.0000517 J	<0.000019
11/19/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00014	<0.0001
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000168	<0.0000952
04/26/16	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000101	<0.0000952
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00017 J	<0.00019
Field Point MW-7	Well Screen Interval (feet): 24.35-39.35												
07/25/06	<0.000939	<0.000939	<0.000939	<0.000188	<0.0000939	<0.0000939	<0.000188	<0.000131	<0.0000939	<0.000188	<0.000188	<0.000469	<0.000188
02/07/07	<0.00109	<0.00543	<0.00109	<0.000217	<0.000109	<0.000109	<0.000217	<0.000152	<0.000109	<0.000217	<0.000217	0.000772	<0.000217

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-7	Well Screen Interval (feet): 24.35-39.35												
04/15/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943
05/18/09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	0.00135	<0.000200
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	0.00149	<0.000200
10/13/11	0.000116	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	0.000547	<0.000105
Field Point MW-8	Well Screen Interval (feet): 23.05-38.05												
07/25/06	<0.000939	<0.000939	<0.000939	<0.000188	<0.0000939	<0.0000939	<0.000188	<0.000131	<0.0000939	<0.000188	<0.000188	<0.000469	<0.000188
02/07/07	<0.00104	<0.00521	<0.00104	<0.000208	<0.000104	<0.000104	<0.000208	<0.000146	<0.000104	<0.000208	<0.000208	<0.000521	<0.000208
04/15/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962
09/26/08	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952
08/19/09	<0.00103	<0.00513	<0.00103	<0.000205	<0.000103	<0.000103	<0.000205	<0.000144	<0.000103	<0.000205	<0.000205	0.00101	<0.000205
10/30/09	<0.00100	<0.00500	<0.00100	>0.000200	<0.000100	0.0001	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	0.0012	<0.000200
Field Point MW-9	Well Screen Interval (feet): 27.64-42.64												
07/21/06	<0.00099	0.001	<0.00099	<0.000198	<0.00099	<0.00099	<0.000198	<0.000139	<0.00099	0.000198	<0.000198	<0.000495	<0.000198
02/06/07	<0.00104	<0.00521	<0.00104	<0.000208	<0.000104	<0.000104	<0.000208	<0.000146	<0.000104	<0.000208	<0.000208	<0.000521	<0.000208
04/15/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-9	Well Screen Interval (feet): 27.64-42.64												
08/19/09	<0.000971	<0.00485	<0.000971	<0.000194	<0.0000971	<0.0000971	<0.000194	<0.000136	<0.0000971	<0.000194	<0.000194	<0.000485	<0.000194
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	<0.000500	<0.000200
10/13/11	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000476	<0.0000952
02/22/12	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000295	<0.0000952
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	0.017	0.00713	<0.00377	0.0271	<0.00377	<0.00377	<0.00377	<0.00377	<0.00377	<0.00377	0.005	0.0768	<0.00377
Field Point MW-10	Well Screen Interval (feet): 28.08-43.08												
07/21/06	0.001	0.001	0.001	<0.000200	<0.0001	<0.0001	<0.000200	<0.00014	<0.0001	<0.000200	<0.000200	0.000892	<0.000200
02/06/07	<0.00110	<0.00549	<0.00110	<0.000220	<0.000110	<0.000110	<0.000220	<0.000154	<0.000110	<0.000220	<0.000220	0.000831	<0.000220
04/15/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952
08/19/09	<0.000980	<0.00490	<0.000980	<0.000196	<0.0000980	<0.0000980	<0.000196	<0.000137	<0.0000980	<0.000196	<0.000196	<0.000490	<0.000196
11/19/09	<0.00105	<0.00526	<0.00105	<0.000211	<0.000105	<0.000105	<0.000211	<0.000147	<0.000105	<0.000211	<0.000211	0.000683	<0.000211
10/13/11	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	0.000104	<0.0000943
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	0.00021	<0.0000187
05/15/13 D	0.0000462 J	<0.0000374	0.000024 J	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	0.00033	<0.0000187
01/29/14	0.0000594 J	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	0.000258	<0.0000188
11/19/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00021	<0.0001

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-10	Well Screen Interval (feet): 28.08-43.08												
11/19/14 D	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	0.00021	<0.000094
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-11	Well Screen Interval (feet): 29.00-44.00												
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962
05/18/09	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	<0.000500	<0.000200
10/30/09	<0.000990	<0.00495	<0.000990	<0.000198	<0.000099	<0.000099	<0.000198	<0.000139	<0.000099	<0.000198	<0.000198	<0.000495	<0.000198
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	0.000109	<0.000099
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194	<0.00194
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	<0.0000187	<0.0000187
01/28/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.0000191	<0.0000287	<0.0000287	<0.0000191	<0.0000191	<0.0000191	<0.0000191	<0.0000191	<0.0000191	<0.0000191	<0.0000287	<0.0000191	<0.0000191
11/19/14	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00015 J	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00022	<0.00019

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-12	Well Screen Interval (feet): 30.00-45.00												
04/30/08	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
09/26/08	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943
05/19/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	0.000145	<0.000200	0.00136 R1	0.00203	<0.000200
10/30/09	<0.00102	<0.00510	<0.00102	<0.000204	<0.000102	<0.000102	<0.000204	<0.000143	<0.000102	<0.000204	0.00270 R1	0.00169	<0.000204
10/13/11	0.000337	0.000149	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	0.00197	<0.000099
02/22/12	0.000123	0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	0.00115	<0.0000943
07/17/12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
Field Point MW-13	Well Screen Interval (feet): 30.00-45.00												
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980
05/19/09	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476
08/19/09	<0.00103	<0.00513	0.00152 R12	<0.000205	<0.000103	0.000578	0.000915 R1	<0.000144	0.00515	<0.000205	0.0118 R1	0.00424	<0.000205
10/30/09	<0.000971	<0.00485	<0.000971	0.00309 R1	<0.0000971	0.000598 R1	0.00123 R1	<0.000136	0.00642	0.00300 R1	0.0247 R1	0.00331	<0.000194
Field Point MW-14	Well Screen Interval (feet): 27.00-42.00												
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980
05/19/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952
08/19/09	<0.000971	<0.00485	<0.000971	<0.000194	<0.0000971	<0.0000971	<0.000194	<0.000136	<0.0000971	<0.000194	<0.000194	0.000797	<0.000194

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-14	Well Screen Interval (feet): 27.00-42.00												
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	0.000172	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	0.00165 R1	0.00123	<0.000200
10/13/11	0.0002	<0.0000952	0.000429	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.00114	<0.0000952
02/22/12	0.000222	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	0.0013	<0.000111
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
Field Point MW-15	Well Screen Interval (feet): 29.00-44.00												
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971
09/26/08	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980
05/19/09	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105	<0.0105
08/19/09	<0.00103	<0.00513	<0.00103	<0.000205	<0.000103	<0.000103	<0.000205	<0.000144	0.000857	<0.000205	0.00315 R1	0.00229	<0.000205
10/30/09	<0.000980	<0.00490	<0.000980	0.00384 R1	<0.000098	0.000723 R1	0.00128 R1	0.00191 R1	0.00786	0.00345 R1	0.0300 R1	0.00380	<0.000196
Field Point MW-16	Well Screen Interval (feet): 26.50-41.50												
04/30/08	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103
09/26/08	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943
05/18/09	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943
08/19/09	<0.00103	<0.00513	<0.00103	<0.000205	<0.000103	<0.000103	<0.000205	<0.000144	<0.000103	<0.000205	<0.000205	0.00109	<0.000205
10/13/11	0.000238	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.0017	<0.0000952
02/22/12	0.000217	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	0.00153	<0.0000943
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-17	Well Screen Interval (feet): 29.50-44.50												
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	0.000315	0.00144	<0.000200
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	0.000774 R1	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	0.00290 R1	0.00180	<0.000200
10/13/11	0.000307	0.000515	0.0016	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	0.00178	<0.000099
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.0016	<0.00019
Field Point MW-18	Well Screen Interval (feet): 27.00-42.00												
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	0.000423	0.00120	<0.000200
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	0.000767 R1	<0.000200	0.00281 R1	0.00202	<0.000200
10/13/11	0.000467	0.000133	0.000114	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000143	<0.0000952	<0.0000952	0.00239	<0.0000952
Field Point MW-19	Well Screen Interval (feet): 27.00-42.00												
08/19/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	<0.000500	<0.000200
10/30/09	<0.00102	<0.00510	<0.00102	<0.000204	<0.000102	<0.000102	<0.000204	<0.000143	<0.000102	<0.000204	<0.000204	<0.000510	<0.000204
10/13/11	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
05/15/13	<0.0000189	<0.0000377	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000283	<0.0000189	<0.0000189	<0.0000189	<0.0000377	<0.0000189	<0.0000189
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.00002	<0.00003	<0.00003	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00003	<0.00002	<0.00002
11/18/14	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-19	Well Screen Interval (feet): 27.00-42.00												
12/09/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	0.000153	<0.0000952
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	0.000198	<0.0000939
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	0.00068	<0.00019
Field Point MW-20	Well Screen Interval (feet): 29.50-44.50												
08/19/09	<0.000971	<0.00485	<0.000971	<0.000194	<0.0000971	<0.0000971	<0.000194	<0.000136	<0.0000971	<0.000194	<0.000194	<0.000485	<0.000194
10/30/09	<0.000952	<0.00476	<0.000952	<0.000190	<0.0000952	<0.0000952	<0.000190	<0.000133	<0.0000952	<0.000190	<0.000190	<0.000476	<0.000190
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099
02/22/12	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	<0.0000187	<0.0000187
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.0000192	<0.0000288	<0.0000288	<0.0000192	<0.0000192	<0.0000192	<0.0000192	<0.0000192	<0.0000192	<0.0000192	<0.0000288	<0.0000192	<0.0000192
11/18/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Field Point MW-21	Well Screen Interval (feet): 29.50-44.50												
08/19/09	<0.000980	<0.00490	<0.000980	<0.000196	<0.0000980	<0.0000980	<0.000196	<0.000137	<0.0000980	<0.000196	<0.000196	<0.000490	<0.000196
10/30/09	<0.00100	<0.00500	<0.00100	<0.000200	<0.000100	<0.000100	<0.000200	<0.000140	<0.000100	<0.000200	<0.000200	<0.000500	<0.000200
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-21	Well Screen Interval (feet): 29.50-44.50												
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
05/15/13	<0.0000189	<0.0000377	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000283	<0.0000189	<0.0000189	<0.0000189	<0.0000377	<0.0000189	<0.0000189
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.0000190	<0.0000284	<0.0000284	<0.0000190	<0.0000190	<0.0000190	<0.0000190	<0.0000190	<0.0000190	<0.0000190	<0.0000284	<0.0000190	<0.0000190
11/18/14	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935
Field Point MW-22	Well Screen Interval (feet): 30.00-45.00												
10/30/09	<0.00102	<0.00510	<0.00102	<0.000204	<0.000102	<0.000102	<0.000204	<0.000143	<0.000102	<0.000204	<0.000204	<0.000510	<0.000204
10/13/11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
02/22/12	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	<0.0000187	<0.0000187
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.0000194	<0.0000291	<0.0000291	<0.0000194	<0.0000194	<0.0000194	<0.0000194	<0.0000194	<0.0000194	<0.0000194	<0.0000291	<0.0000194	<0.0000191
11/19/14	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-22	Well Screen Interval (feet): 30.00-45.00												
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Field Point MW-23	Well Screen Interval (feet): 31.00-46.00												
02/22/12	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192	<0.00192
05/15/13	<0.000019	<0.0000381	<0.000019	<0.000019	<0.000019	<0.000019	<0.0000286	<0.000019	<0.000019	<0.000019	<0.0000381	<0.000019	<0.000019
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	0.0000932 J	<0.0000188	<0.0000188
06/18/14	<0.0000204	<0.0000306	<0.0000306	<0.0000204	<0.0000204	<0.0000204	<0.0000204	<0.0000204	<0.0000204	<0.0000204	<0.0000306	<0.0000204	<0.0000204
11/18/14	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095
12/08/15	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	0.000220	<0.000190
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	0.000280	<0.0000939
Field Point MW-25	Well Screen Interval (feet): 28.00-43.00												
02/22/12	0.000168	0.000179	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	<0.000105	0.00232	<0.000105
Field Point MW-26	Well Screen Interval (feet): 30.00-45.00												
02/22/12	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	<0.00189	0.00189	<0.00189
05/15/13	<0.0000187	<0.0000374	<0.0000187	<0.0000187	<0.0000187	<0.0000187	<0.000028	<0.0000187	<0.0000187	<0.0000187	<0.0000374	<0.0000187	<0.0000187

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point MW-26	Well Screen Interval (feet): 30.00-45.00												
01/29/14	<0.0000188	<0.0000282	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188	<0.0000188
06/18/14	<0.0000189	<0.0000283	<0.0000283	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000189	<0.0000283	<0.0000189	<0.0000189
11/19/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point SB-1GW	Grab Groundwater Sample												
10/28/11	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962	<0.0000962
Field Point SB-2GW	Grab Groundwater Sample												
10/28/11	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	0.00034	<0.0000971
Field Point SB-3GW	Grab Groundwater Sample												
10/28/11	0.0005	0.000167	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	0.00165	<0.000098
Field Point SB-4GW	Grab Groundwater Sample												
10/28/11	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	0.000216	<0.000098
Field Point SB-5GW	Grab Groundwater Sample												
10/28/11	0.000137	0.000304	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	<0.000098	0.000725	<0.000098

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno(1,2,3-cd)pyrene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	0.0007	NA	NA	NA	NA	NA	NA	NA	NA
Field Point SB-6GW 10/28/11	Grab Groundwater Sample <0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971
Field Point SB-7GW 10/28/11	Grab Groundwater Sample 0.000184	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	0.000495	<0.0000971

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-1						
	Well Screen Interval (feet): 22.71-42.71					
07/24/06	0.00434	0.0246	0.0639 (a)	0.194	0.109	0.3669
02/08/07	0.0489	0.0493	0.139 (a)	0.178	0.300	0.6170
09/26/08	<0.0100	<0.0100	0.0553	0.0400	0.0522	0.1475
05/19/09	<0.0100	<0.0100	0.0461	0.0313	0.0403	0.1177
08/19/09	1.620 R1	1.470 R1	0.627 (c)	3.940 R1	1.940	6.507 R1
10/30/09	0.0132 R1	0.00554 R1	0.0746 (c)	0.118 R1	0.0573	0.250 R1
10/12/11	<0.0000952	<0.0000952				
Field Point MW-2						
	Well Screen Interval (feet): 27.59-47.59					
07/25/06	0.0603	0.0333	0.0211 (a)	0.163	0.0696	0.2537
02/08/07	0.232	0.075	0.0208 (a)	0.258	0.238	0.5168
09/26/08	<0.0971	<0.0971	0.117	0.201	0.287	0.0484
08/19/09	1.660 R1	1.410 R1	0.730 (c)	5.070 R1	2.750	8.550 R1
10/30/09	0.0382 R1	0.0545 R1	0.0514 (c)	0.0975 R1	0.0781	0.227 R1
Field Point MW-3						
	Well Screen Interval (feet): 24.20-44.20					
07/24/06	0.0357	0.0182	0.0315 (a)	0.161	0.0752	0.2677
02/08/07	0.191	0.0557	0.053 (a)	0.220	0.255	0.5280
09/26/08	<0.0105	<0.0105	0.0146	0.0154	0.0162	0.0462
05/19/09	<0.0105	<0.0105	0.0164	0.0199	0.0215	0.0578
08/19/09	0.146 R1	0.161 R1	0.0353 R1 (c)	0.245	0.0885	0.3688 R1
10/30/09	0.0451 R1	0.0738 R1	0.00943 (c)	0.153 R1	0.0482	0.211 R1
Field Point MW-4						
	Well Screen Interval (feet): 23.97-38.97					
07/25/06	<0.000469	<0.000188	0.0227 (a)	0.0373	0.0286	0.0886
02/07/07	0.00901	0.0117	0.027 (a)	0.0553	0.147	0.2293
04/15/08	<0.00990	<0.00990	0.0406	0.0320	0.0428	0.1154
09/26/08	<0.00980	<0.00980	0.0397	0.0271	0.0392	0.1060
05/19/09	<0.0526	<0.0526	<0.0526	<0.0526	<0.0526	<0.1578
08/19/09	0.0143 R1	0.00854 R1	0.0369 (c)	0.0578	0.0509	0.1456

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-4						
	Well Screen Interval (feet): 23.97-38.97					
10/30/09	0.0949 R1	0.158 R1	0.0645 (c)	0.311 R1	0.163	0.539 R1
Field Point MW-5						
	Well Screen Interval (feet): 27.19-47.19					
07/20/06	0.00483	<0.000189	0.0589 (a)	0.0914	0.0563	0.2066
02/07/07	0.0075	0.0037	0.117 (a)	0.105	0.218	0.4400
04/15/08	<0.00990	<0.00990	0.0693	0.0451	0.0547	0.1691
09/26/08	<0.0962	<0.0962	0.074	0.0443	0.605	0.1671
05/19/09	<0.0526	<0.0526	0.0873	0.0573	0.0676	0.2122
08/19/09	0.0194 R1	0.00619 R1	0.105 (c)	0.189 R1	0.103	0.397
08/19/09 D	0.0192 R1	0.00682 R1	0.0954 (c)	0.171 R1	0.0707	0.3371 R1
10/30/09	0.0127 R1	0.00378 R1	0.0191 (c)	0.0375 R12	0.0641	0.121 R12
10/12/11	0.00146	0.000111	0.0402 (b)	0.0216	0.0287	0.0905
07/17/12	<0.00190	<0.00190	0.0558	0.0229	0.0248	0.1035
07/17/12 D	0.00214	<0.00190	0.0568	0.0245	0.0270	0.1083
10/03/12	0.00241	<0.00196	0.0771	0.0296	0.0310	0.1377
10/03/12 D	0.00218	<0.00189	0.0833	0.0265	0.0299	0.1397
Field Point MW-6						
	Well Screen Interval (feet): 27.05-42.05					
07/21/06	<0.000472	<0.000189	<0.000943 (a)	<0.000943	0.00641	0.006410
02/07/07	<0.000556	<0.000222	<0.00111 (a)	<0.00111	<0.00111	<0.00333
04/15/08	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<0.02970
09/26/08	<0.0962	<0.0962	<0.00943	<0.00943	<0.00943	<0.02829
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.02856
08/19/09	<0.000500	<0.000200	<0.00100 (c)	<0.00100	<0.00100	<0.00300
11/19/09	<0.000490	<0.0.000196	<0.000980	<0.000980	<0.000980	BDL
10/13/11	<0.0000962	<0.0000962				
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	0.0000764 J	<0.0000561	0.0000629 J	<0.00000935	<0.00000935	0.0000629 J
01/28/14	0.0000523 J	<0.0000188	0.0000523 J	<0.0000188	<0.0000282	0.0000993

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-6	Well Screen Interval (feet): 27.05-42.05					
06/18/14	0.0000518 J	<0.000019	0.000634	0.000239 B	0.000355 B	0.001228 B
11/19/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
04/26/16	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-7	Well Screen Interval (feet): 24.35-39.35					
07/25/06	<0.000469	<0.000188	0.00383 (a)	0.00855	0.00879	0.02117
02/07/07	<0.000543	<0.000217	0.00284 (a)	0.0215	0.0150	0.03934
04/15/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.02913
09/26/08	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.02829
05/18/09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0300
08/19/09	<0.000500	0.000665	0.00227 (c)	0.00400	<0.00100	0.00627
10/30/09	<0.000500	0.000609 R1	<0.00100 (c)	0.00873 R1	0.00372	0.0125 R1
10/13/11	0.000147	<0.000105	0.000537	0.000611	0.000558	0.001706
Field Point MW-8	Well Screen Interval (feet): 23.05-38.05					
07/25/06	<0.000469	<0.000188	<0.000939 (a)	0.00472	<0.000939	0.004720
02/07/07	<0.000521	<0.000208	<0.00104 (a)	0.0201	0.0113	0.03140
04/15/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.02886
09/26/08	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<0.02940
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.02856
08/19/09	<0.000513	0.000657	<0.00103 (c)	0.00674 R1	0.00354 R1	0.01028 R1
10/30/09	0.0005	0.000518	<0.00100 (c)	0.0101 R1	0.00430	0.0144 R1
Field Point MW-9	Well Screen Interval (feet): 27.64-42.64					
07/21/06	<0.000495	<0.000198	<0.00099 (a)	<0.00099	<0.00099	<0.00297
02/06/07	<0.000521	<0.000208	<0.00104 (a)	0.0148	0.00424	0.01904
04/15/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.02913

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-9						
	Well Screen Interval (feet): 27.64-42.64					
09/26/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.02886
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.02856
08/19/09	<0.000485	<0.000194	<0.000971 (c)	<0.000971	<0.000971	<0.002913
10/30/09	<0.000500	0.00101	<0.00100 (c)	<0.00100	<0.00100	BDL
10/13/11	<0.0000952	<0.0000952	<0.000952	<0.000952	<0.000952	<0.000952
02/22/12	<0.0000952	<0.0000952	0.00143	<0.000952	<0.000952	0.00143
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	0.0941	0.00931	0.0676	0.537	0.795	1.3996
Field Point MW-10						
	Well Screen Interval (feet): 28.08-43.08					
07/21/06	<0.0005	<0.000200	<0.001 (a)	0.001	0.001	0.001
02/06/07	<0.00549	<0.000220	<0.00110 (a)	<0.00110	<0.00110	<0.00330
04/15/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.02913
09/26/08	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0300
05/18/09	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<0.02856
08/19/09	<0.000490	<0.000196	<0.000980 (c)	<0.000980	0.00268	0.00268
11/19/09	<0.000526	0.000935 R1	<0.00105 (c)	0.0202 R1	0.0142 R1	0.0344 R1
10/13/11	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.0000943	<0.000943
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
05/15/13	0.0000876 J	<0.0000561	0.0000706 J	<0.00000935	<0.00000935	0.0000706 J
05/15/13 D	<0.0000561	<0.0000561	0.0000757 J	<0.00000935	<0.00000935	0.0000757 J
01/29/14	<0.0000282	<0.0000188	0.0000594 J	<0.0000188	<0.0000282	0.0000594 J
11/19/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
11/19/14 D	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038
11/29/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Field Point MW-11						
	Well Screen Interval (feet): 29.00-44.00					
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.02913

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-11	Well Screen Interval (feet): 29.00-44.00					
09/26/08	<0.00962	<0.00962	<0.00962	<0.00962	<0.00962	<0.02886
05/18/09	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.02829
08/19/09	<0.000500	<0.000200	<0.00100 (c)	<0.00100	0.00334	0.00334
10/30/09	<0.000495	<0.000198	<0.00099 (c)	<0.00099	<0.00099	BDL
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00194	<0.00194	<0.00500	<0.00194	<0.00194	<0.00500
05/15/13	<0.0000561	<0.0000561	0.0000534 J	<0.00000935	<0.00000935	0.0000534 J
01/28/14	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000282
06/18/14	<0.0000287	<0.0000191	0.000425	<0.0000191	<0.0000287	0.000425
11/19/14	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0002817
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.000187
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038
11/29/17	0.00033	<0.00019	0.00022	0.0010	0.0013	0.00252
Field Point MW-12	Well Screen Interval (feet): 30.00-45.00					
04/30/08	<0.010	<0.010	0.0327	0.0316	0.0241	0.0884
09/26/08	<0.00943	<0.00943	0.0909	0.0512	0.0613	0.2034
05/19/09	<0.00952	<0.00952	0.0726	0.0434	0.0534	0.1694
08/19/09	<0.000500	<0.000200	0.12 (c)	0.159 R1	0.0808	0.3598 R1
10/30/09	0.0111 R1	0.00257 R1	0.0236 (c)	0.0283 R1	0.0708	0.123 R1
10/13/11	0.00165	<0.000099	0.0879	0.0406	0.063	0.1915
02/22/12	0.000991	<0.0000943	0.0659	0.0244	0.0396	0.1299
07/17/12	<0.002	<0.002	0.0653	0.0357	0.0394	0.1404
10/03/12	<0.00189	<0.00189	0.129	0.0464	0.0602	0.2356
Field Point MW-13	Well Screen Interval (feet): 30.00-45.00					
04/30/08	<0.00971	<0.00971	0.0366	0.0279	0.0329	0.0974

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-13	Well Screen Interval (feet): 30.00-45.00					
09/26/08	<0.0980	<0.0980	0.0986	<0.00980	<0.00980	0.0986
05/19/09	<0.0476	<0.0476	0.121	0.0712	0.0888	0.281
08/19/09	0.0458 R1	0.0277 R1	0.120 (c)	0.291 R1	0.147	0.558 R1
10/30/09	0.0238 R1	0.0369 R1	0.0212 (c)	0.0325 R1	0.0743	0.128 R1
Field Point MW-14	Well Screen Interval (feet): 27.00-42.00					
04/30/08	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.02913
09/26/08	<0.00980	<0.00980	0.0120	0.0103	0.0108	0.0331
05/19/09	<0.00952	<0.00952	0.00956	<0.00952	<0.00952	0.00956
08/19/09	0.00411 R1	0.00109	0.00923 (c)	0.0547 R1	0.0172	0.08113 R1
10/30/09	0.00441 R1	0.00135 R1	0.00998 (c)	0.0506 R1	0.0186	0.0792 R1
10/13/11	0.000381	<0.0000952	0.00579	0.00459	0.00418	0.01456
02/22/12	0.000644	<0.000111	0.0071	0.00479	0.00428	0.01617
07/17/12	<0.00190	<0.00190	0.0137	0.00521	0.005	0.02391
10/03/12	<0.00189	<0.00189	0.0118	0.00625	0.0072	0.02525
Field Point MW-15	Well Screen Interval (feet): 29.00-44.00					
04/30/08	<0.00971	<0.00971	0.0367	0.0318	0.0395	0.108
09/26/08	<0.00980	<0.00980	0.0902	0.0636	0.0825	0.2363
05/19/09	<0.0105	<0.0105	0.0658	0.0380	0.0484	0.1522
08/19/09	0.0196 R1	0.00753 R1	0.1690 (c)	0.202 R1	0.118	0.489 R1
10/30/09	0.0282 R1	0.0435 R1	0.0274 (c)	0.0407 R1	0.0225	0.0906 R1
Field Point MW-16	Well Screen Interval (feet): 26.50-41.50					
04/30/08	<0.0103	<0.0103	<0.0103	<0.0103	<0.0103	<0.0309
09/26/08	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.02829
05/18/09	<0.00943	<0.00943	<0.00943	<0.00943	<0.00943	<0.02829
08/19/09	<0.000513	0.000979 R1	0.00429 R1 (c)	0.00603 R10	0.0127 R1	0.02302 R10, R1
10/13/11	0.000343	<0.0000952	0.00154	0.00158	0.00124	0.00436
02/22/12	0.000292	<0.0000943	0.00122	0.00113	0.00090	0.003245

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-16	Well Screen Interval (feet): 26.50-41.50					
07/17/12	<0.00190	<0.00190	<0.00500	0.00229	<0.00190	0.00229
10/03/12	<0.00189	<0.00189	0.00855	0.00429	<0.00189	0.01284
Field Point MW-17	Well Screen Interval (feet): 29.50-44.50					
08/19/09	0.0102 R1	<0.000200	0.134 (c)	0.188 R1	0.0768	0.3988 R1
10/30/09	0.0121 R1	0.00284 R1	0.134 (c)	0.193 R1		0.327 R1
10/13/11	<0.000099	<0.000099	0.0798	0.0364	0.0556	0.1718
07/17/12	<0.00190	<0.00190	0.0429	0.0256	0.0306	0.0991
10/03/12	<0.00189	<0.00189	0.0865	0.0325	0.0402	0.1592
11/29/17	0.0013	<0.00019	0.044	0.022	0.028	0.094
Field Point MW-18	Well Screen Interval (feet): 27.00-42.00					
08/19/09	0.0104 R1	0.000948	0.0213 (c)	0.141 R1	0.0193	0.1816 R1
10/30/09	0.0129 R1	0.00257 R1	0.110 (c)	0.189 R1	0.0696	0.369 R1
10/13/11	0.00246	<0.0000952	0.0414	0.0292	0.0431	0.1137
Field Point MW-19	Well Screen Interval (feet): 27.00-42.00					
08/19/09	<0.000500	<0.000200	<0.00100 (c)	<0.00100	<0.00100	<0.00300
10/30/09	<0.000510	<0.000204	<0.00102 (c)	<0.00102	<0.00102	BDL
10/13/11	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971	<0.0000971
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	<0.0000566	<0.0000566	<0.0000189	<0.00000943	<0.00000943	<0.0000189
01/29/14	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000282
06/18/14	<0.00003	<0.00002	0.00022 B	<0.00002	<0.00003	0.00022 B
11/18/14	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096	<0.000096
12/09/15	<0.0000952	<0.0000952	0.00156	0.00147	0.000304	0.003334
04/27/16	<0.0000939	<0.0000939	0.000772	0.000582	<0.0000939	0.001354
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.000187
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-19	Well Screen Interval (feet): 27.00-42.00					
11/29/17	0.00018 J	<0.00019	0.00045	0.0013	0.00025	0.002
Field Point MW-20	Well Screen Interval (feet): 29.50-44.50					
08/19/09	<0.000485	<0.000194	<0.000971 (c)	<0.000971	<0.000971	<0.002913
10/30/09	<0.000476	<0.000190	<0.000952 (c)	<0.000952	<0.000952	BDL
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099
02/22/12	<0.0000943	<0.0000943	<0.000943	<0.000943	<0.000943	<0.000943
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	<0.0000561	<0.0000561	<0.0000187	<0.0000935	<0.0000935	<0.0000187
01/29/14	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000282
06/18/14	<0.0000288	<0.0000192	0.000265 B	<0.0000192	<0.0000288	0.000265 B
11/18/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Field Point MW-21	Well Screen Interval (feet): 29.50-44.50					
08/19/09	<0.000490	<0.000196	<0.000980 (c)	0.00156	<0.000980	0.00156
10/30/09	<0.000500	<0.000200	<0.00100 (c)	<0.00100	<0.00100	BDL
10/13/11	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099	<0.000099
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	<0.0000566	<0.0000566	<0.0000189	<0.0000943	<0.0000943	<0.0000189
01/29/14	<0.0000282	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000282
06/18/14	<0.0000284	<0.0000190	0.000155 B	<0.000019	<0.0000284	0.000155 B
11/18/14	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094	<0.000094
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0002817
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.000187
Field Point MW-22	Well Screen Interval (feet): 30.00-45.00					
10/30/09	<0.000510	<0.000204	<0.00102 (c)	<0.00102	<0.00102	BDL

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-22	Well Screen Interval (feet): 30.00-45.00					
10/13/11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
02/22/12	<0.0000943	<0.0000943	<0.0001	<0.0001	<0.0001	<0.0001
07/17/12	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190	<0.00190
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	<0.0000561	<0.0000561	<0.0000187	<0.00000935	<0.00000935	<0.0000187
01/29/14	0.0000541 J	<0.0000188	<0.0000188	<0.0000188	<0.0000282	<0.0000188
06/18/14	<0.0000291	<0.0000194	0.000278 B	<0.0000194	<0.0000291	0.000278 B
11/19/14	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097	<0.000097
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
04/27/16	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0000939	<0.0002817
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.000187
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038
11/29/17	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Field Point MW-23	Well Screen Interval (feet): 31.00-46.00					
02/22/12	<0.0000943	<0.0000943	<0.0001	<0.0001	<0.0001	<0.0001
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00192	<0.00192	<0.00500	<0.00192	<0.00192	<0.00500
05/15/13	<0.0000571	<0.0000571	<0.000019	<0.00000952	<0.00000952	<0.000019
01/29/14	0.0000687 J	0.0000724 J	<0.0000188	<0.0000188	<0.0000282	<0.0000188
06/18/14	<0.0000306	<0.0000204	0.0000606 J B	<0.0000204	<0.0000306	0.0000606 J B
11/18/14	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095	<0.000095
12/08/15	<0.000190	<0.000190	0.0125	0.00669	0.00559	0.02478
04/27/16	0.000177 B	<0.0000939	0.00754	0.00497	0.00409	0.0166
Field Point MW-25	Well Screen Interval (feet): 28.00-43.00					
02/22/12	0.0018	<0.000105	0.0939	0.0427	0.0688	0.2054
Field Point MW-26	Well Screen Interval (feet): 30.00-45.00					
02/22/12	<0.0000952	<0.0000952	<0.0001	<0.0001	<0.0001	<0.0001

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
 Gladiola Station
 Lea County, New Mexico
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Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphthalene (mg/l)	1-Methylnaphthalene (mg/l)	2-Methylnaphthalene (mg/l)	Total Naphthalene (mg/l)
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03
Field Point MW-26	Well Screen Interval (feet): 30.00-45.00					
07/17/12	<0.00190	<0.00190	<0.00500	<0.00190	<0.00190	<0.00500
10/03/12	<0.00189	<0.00189	<0.00500	<0.00189	<0.00189	<0.00500
05/15/13	<0.0000561	<0.0000561	<0.0000187	<0.00000935	<0.00000935	<0.0000187
01/29/14	<0.0000282	<0.0000188	0.0000818 J	0.000048 J	<0.0000282	0.0001298
06/18/14	<0.0000283	<0.0000189	0.000394 B	<0.0000189	<0.0000283	0.000391 B
11/19/14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
12/08/15	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0000952	<0.0002856
04/27/16	<0.0000939	<0.0000939	0.000370	0.000130	0.0000991	0.0005991
10/25/16	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.0000935	<0.000187
05/24/17	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00038
11/29/17	<0.00019	<0.00019	0.00020	0.00018 J	0.00015 J	0.00053
Field Point SB-1GW	Grab Groundwater Sample					
10/28/11	0.000452	<0.0000962	0.000115	0.000462	0.000144	0.000721
Field Point SB-2GW	Grab Groundwater Sample					
10/28/11	0.000359	<0.0000971	0.00922	0.00625	0.00883	0.0243
Field Point SB-3GW	Grab Groundwater Sample					
10/28/11	0.00168	<0.000098	0.0835	0.039	0.0606	0.1831
Field Point SB-4GW	Grab Groundwater Sample					
10/28/11	0.000363	<0.000098	0.0137	0.0084	0.00967	0.03177
Field Point SB-5GW	Grab Groundwater Sample					
10/28/11	0.000559	<0.000098	0.0499	0.0182	0.0269	0.095
Field Point SB-6GW	Grab Groundwater Sample					
10/28/11	0.0000971	<0.0000971	0.000505	0.000291	0.000437	0.001233

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Phenanthrene (mg/l)	Pyrene (mg/l)	Naphtthalene (mg/l)	1-Methylnaphtthalene (mg/l)	2-Methylnaphtthalene (mg/l)	Total Naphtthalene (mg/l)	
NMED WQCC HHS	NA	NA	NA	NA	NA	0.03	
Field Point SB-7GW	Grab Groundwater Sample						
10/28/11	0.000495	<0.0000971	0.0047	0.00281	0.00367	0.01118	

TABLE 5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR PAHs
Gladiola Station
Lea County, New Mexico
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Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	0.1	1	0.01	0.05	0.05	0.002	0.05	0.05	250.0	600.0	NA	1000.0
Field Point MW-1	Well Screen Interval (feet): 22.71-42.71											
07/24/06	0.0295	4.82	0.0018	0.0126	<0.00500	0.000303	<0.0100	<0.00500	10.9	1.82	743	900
02/08/07	0.0304	5.02	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	2.8	1.24	621	<100
09/21/08	0.0256	7.52	0.0011	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	1.63	1.28	913	
05/19/09	0.0265	8.72	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	2.41	<1.00	952	962
08/19/09	0.0303	7	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	2.25	<1.00	979	940
10/30/09	0.0246	8.54	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	2.83	3.54	917	780
Field Point MW-2	Well Screen Interval (feet): 27.59-47.59											
07/25/06	0.0469	0.958	0.0021	0.0140	<0.00500	<0.000200	<0.0100	0.0057	30.6	2.11	668	900
02/08/07	0.0348	0.764	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	32	3.9	634	440
09/22/08	0.0352	0.823	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	29.4	3.57	669	622
08/19/09	0.0393	0.901	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	31.2	2.74	649	742
10/30/09	0.0208	8.57	<0.00100	<0.00500	<0.00500	0.0002	<0.0100	0.005	15.1	1.08	752	480
Field Point MW-3	Well Screen Interval (feet): 24.20-44.20											
07/24/06	0.057	3.33	0.0015	0.0098	<0.00500	<0.000200	<0.0100	<0.00500	21.2	8.35	773	880
02/08/07	0.0505	3.44	<0.00100	<0.00500	0.0052	<0.000200	<0.0100	<0.00500	31.6	33.4	708	540
09/22/08	0.0380	6.09	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	26.7	2.64	876	744
05/19/09	0.0397	6.14	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	23.7	2.66	883	858
08/19/09	0.0302	6.56	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	28.4	<1.00	880	802
10/30/09	0.0316	5.91	<0.00100	<0.00500	<0.00500	0.0002	<0.0100	<0.00500	21.4	<1.00	842	670
Field Point MW-4	Well Screen Interval (feet): 23.97-38.97											
07/25/06	0.034	7.34	0.0016	0.0122	<0.00500	<0.000200	<0.0100	<0.00500	20.7	<1.00	850	1000
02/07/07	0.0617	8.00	<0.00100	0.0615	0.0201	<0.000200	<0.0100	<0.00500	15.1	1.09	2290	<100
04/15/08	0.0140	7.47	0.0011	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	10.2	<1.00	1060	1180
09/21/08	0.0156	7.74	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	17.7	1.31	792	774
05/19/09	0.0162	8.32	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	18.4	3.08	802	854
08/19/09	0.0133	8.19	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	18.9	<1.00	807	860
10/30/09	0.0224	8.64	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	12.2	<1.00	782	660
Field Point MW-5	Well Screen Interval (feet): 27.19-47.19											
07/20/06	0.0661	1.71	<0.00100	0.177	0.0151	0.000220	<0.0100	<0.00500	6.11	<1.00	1250	712

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	0.1	1	0.01	0.05	0.05	0.002	0.05	0.05	250.0	600.0	NA	1000.0
Field Point MW-5	Well Screen Interval (feet): 27.19-47.19											
02/07/07	0.0526	1.96	<0.00100	0.0599	0.0105	<0.000200	<0.0100	<0.00500	6.58	1.56	1130	610
04/15/08	0.0440	3.02	0.0017	0.0167	<0.00500	<0.000200	<0.0100	<0.00500	6.34	<1.00	976	736
09/21/08	0.0370	3.07	0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.62	1.54	841	
05/19/09	0.0336	3.49	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.81	<1.00	837	792
08/19/09	0.031	3.68	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	7.02	<1.00	856	752
08/19/09 D	0.0322	3.71	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.93	<1.00	847	760
10/30/09	0.0284	3.93	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.61	<1.00	797	1540
10/12/11	0.0353	4.8	<0.00100	<0.00500	0.007	<0.000200	<0.0100	<0.00500	5.03	1.4		
07/17/12	0.0234	4.9	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.59	1.18	720	753
07/17/12 D	0.0252	5.08	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.42	1.21	721	760
10/03/12	0.0238	4.48	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.46	<1.00	726	740
10/03/12 D	0.0233	4.62	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.47	<1.00	732	749
Field Point MW-6	Well Screen Interval (feet): 27.05-42.05											
07/21/06	<0.0100	0.168	<0.00100	<0.00500	<0.00500	0.000207	<0.0100	<0.00500	6.28	63.2	524	660
02/07/07	0.0397	3.19	<0.00100	0.0822	0.0307	0.00172	<0.0100	<0.00500	6.6	<2.00	2930	325
04/15/08	0.0199	0.610	0.0020	0.0213	0.00805	0.000467	0.0106	<0.00500	5.38	42.7	1650	548
09/21/08	<0.0100	0.0932	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.75	34.5	528	440
05/18/09	<0.0100	0.0991	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.90	37.2	567	234
08/19/09	<0.0100	0.1	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.11	33.0	519	568
10/30/09	<0.0100	0.108	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.03	31.1	475	470
10/13/11	<0.0100	0.112	<0.00100	<0.00500	0.0057	<0.000200	<0.0100	<0.00500	5	26.3		
07/17/12	<0.0100	0.127	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.23	24.6	452	571
10/03/12	<0.0100	0.121	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.91	26.4	446	566
05/15/13	<0.0047	0.14	<0.000200	<0.0012	0.0135	<0.00015	0.0081 J	<0.0013	4.67	<25	483	625
01/28/14	0.01	0.144	<0.000200	<0.0012	0.0059	<0.00015	<0.0064	<0.0013	5.04	26.2	512	597 B
06/18/14	<0.0072	0.138	0.0006 J	<0.00300	<0.002	<0.00015	<0.00500	<0.0025	5.32 B	26.5	483	615
11/19/14	<0.0100	0.15	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.5	25	470	660
12/08/15	0.0149	0.226	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.56	18.4	502	581
04/26/16	0.0309	0.351	<0.00100	0.364	0.0127	<0.000200	<0.0100	<0.00500	4.87	16.2	520	565
05/24/17	0.0273	0.375	<0.0100	0.00788 J	<0.0100	0.000342	<0.0150	<0.00500	4.6	13	482	545
11/29/17	<0.0100	0.212	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	13	19	460	570

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS

Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	0.1	1	0.01	0.05	0.05	0.002	0.05	0.05	250.0	600.0	NA	1000.0
Field Point MW-7	Well Screen Interval (feet): 24.35-39.35											
07/25/06	<0.0100	0.679	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	15.5	<1.00	641	800
02/07/07	0.0583	2.46	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	14.4	4.48	654	200
04/15/08	0.0513	3.00	0.0015	0.0051	<0.00500	<0.000200	<0.0100	<0.00500	13.6	1.46	710	744
09/20/08	0.0407	1.92	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	15.3	3.16	680	710 B
05/18/09	0.0395	1.88	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	15.7	3.10	672	748
08/19/09	0.0137	1.86	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	17.2	3.06	673	720
10/30/09	0.0112	2.05	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	16.5	3.26	645	500
10/13/11	0.014	2.34	<0.00100	<0.00500	0.0054	<0.000200	<0.0100	<0.00500	14.5	3.74		
Field Point MW-8	Well Screen Interval (feet): 23.05-38.05											
07/25/06	0.0153	0.328	0.0012	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	13.1	8.01	593	810
02/07/07	0.0342	0.929	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	11.5	22.2	707	510
04/15/08	0.035	1.22	0.0015	0.0078	<0.00500	<0.000200	<0.0100	<0.00500	11.6	7.4	716	688
09/20/08	0.0211	0.773	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	13.5	9.30	633	610
05/18/09	0.0174	0.776	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	11.1	8.68	535	258
08/19/09	<0.0100	1.14	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	13.3	6.57	623	676
10/30/09	<0.0100	1.04	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	14.0	7.46	599	560
Field Point MW-9	Well Screen Interval (feet): 27.64-42.64											
07/21/06	0.0298	0.918	<0.00100	0.0354	0.0078	<0.000200	<0.0100	<0.00500	103	157	1010	900
02/06/07	0.0291	0.284	<0.00100	0.0075	<0.00500	<0.000200	<0.0100	<0.00500	92	89.0	717	1110
04/15/08	0.0694	1.61	0.0023	0.0473	0.0126	<0.000200	<0.0100	<0.00500	85.5	47.5	2410	684
09/21/08	0.0274	0.100	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	73.3	40.7	572	520
05/18/09	0.0234	0.0961	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	61.0	38.3	584	644
08/19/09	0.0185	0.102	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	75.8	37.9	578	744
10/30/09	0.0203	0.0993	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	79.3	39.3	534	610
10/13/11	0.0147	0.122	<0.00100	<0.00500	0.0059	<0.000200	<0.0100	<0.00500	101	27.5		
07/17/12	0.0175	0.0972	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	105	21.8	516	771
10/03/12	0.0277	0.0878	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	105	23		1130
Field Point MW-10	Well Screen Interval (feet): 28.08-43.08											
07/21/06	<0.0100	0.324	<0.00100	0.0136	<0.00500	0.000822	<0.0100	<0.00500	500	85.2	748	1520
02/06/07	<0.0100	0.112	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	6.72	105	602	1630

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	0.1	1	0.01	0.05	0.05	0.002	0.05	0.05	250.0	600.0	NA	1000.0
Field Point MW-10	Well Screen Interval (feet): 28.08-43.08											
04/15/08	0.0439	0.981	0.0044	0.0625	0.0277	0.001950	0.0256	<0.00500	439	97.4	3250	1530
09/21/08	<0.0100	0.0858	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	414	79.6	676	1000
05/18/09	<0.0100	0.0839	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	430	74.1	675	1490
08/19/09	<0.0100	0.0763	<0.00100	<0.00500	<0.00500	0.000818	<0.0100	<0.00500	421	80.8	660	1510
10/30/09	<0.0100	0.0781	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	394	89.7	614	1370
10/13/11	<0.0100	0.0656	<0.00100	<0.00500	0.0057	0.000998	<0.0100	<0.00500	356	91.7		
07/17/12	0.0108	0.0696	<0.00100	<0.00500	<0.00500	0.000338	<0.0100	<0.00500	283	94.0	577	1400
10/03/12	<0.0100	0.0672	<0.00100	<0.00500	<0.00500	0.00106	<0.0100	<0.00500	259	99.2	595	1450
05/15/13	0.0055 J	0.0677	<0.000200	<0.0012	0.0113	<0.00015	<0.0064	<0.0013	218	95.9	585	1400
05/15/13 D	0.0091 J	0.0703	<0.000200	<0.0012	0.0104	<0.00015	0.0115	<0.0013	188	95.6	607	1350
01/29/14	0.0066 J	0.0632	<0.000200	<0.0012	<0.0035	<0.00015	<0.0064	<0.0013	161	88.7	666	1220 B
11/19/14	<0.0100	0.059	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	170	92	590	1300
11/19/14 D	<0.0100	0.061	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	170	88	600	1300
05/24/17	0.00638 J	0.188	<0.0100	0.00742 J	<0.0100	0.00481	<0.0150	0.00162 J	130	69	636	1080
11/29/17	0.0294	0.321	<0.0100	0.0154	<0.0100	0.00319	0.0184	<0.00500	130	67	691	1080
Field Point MW-11	Well Screen Interval (feet): 29.00-44.00											
04/30/08	<0.0100	0.159	<0.00100	<0.00500	<0.00500	0.000224	<0.0100	<0.00500	213	128	528	1120
09/21/08	<0.0100	0.0480	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	524	130	553	1440
05/18/09	<0.0100	0.0562	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	503	125	572	1490
08/19/09	<0.0100	0.0483	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	517	121	577	1550
10/30/09	<0.0100	0.0534	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	502	127	539	1350
10/13/11	<0.0100	0.051	<0.00100	<0.00500	0.005	<0.000200	<0.0100	<0.00500	428	117		
07/17/12	0.0142	0.0531	<0.00100	<0.00500	<0.00500	0.000200	<0.0100	<0.00500	422	124	452	1570
10/03/12	0.0171	0.0551	<0.00100	<0.00500	<0.00500	0.000200	<0.0100	<0.00500	405	121	490	1500
05/15/13	0.0084 J	0.054	<0.000200	<0.0012	0.0138	<0.00015	0.0239	<0.0013	392	123	497	1500
01/28/14	0.0074 J	0.0465	<0.000200	<0.0012	<0.0035	<0.00015	<0.0064	<0.0013	393	122	513	1370
06/18/14	<0.0072	0.0445	0.0007 J	<0.00300	<0.002	<0.00015	<0.00500	<0.0025	351 B	114	485	1340
11/19/14	<0.0100	0.044	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	320	120	480	1400
12/08/15	<0.0100	0.0462	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	272	108	498	1270
04/27/16	<0.0100	0.0458	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	257	99.7	479	1250
10/25/16	<0.0100	0.0427	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	253	<20.0	465	1160
05/24/17	0.00968 J	0.0387	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	220	120	460	1100

TABLE 6
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 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	0.1	1	0.01	0.05	0.05	0.002	0.05	0.05	250.0	600.0	NA	1000.0
Field Point MW-11	Well Screen Interval (feet): 29.00-44.00											
11/29/17	<0.0100	0.0530	<0.0100	0.00570 J	<0.0100	<0.000200	0.0185	0.00189 J	210	110	454	1090
Field Point MW-12	Well Screen Interval (feet): 30.00-45.00											
04/30/08	0.0278	2.23	<0.00100	0.0132	0.0082	<0.000200	<0.0100	<0.00500	10.7	8.19	995	657
09/21/08	0.0238	5.10	0.00130	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	25.1	1.62	755	708
05/19/09	0.0233	5.82	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	30.3	<1.00	777	2390
08/19/09	0.0177	6.02	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	28.2	<1.00	778	750
10/30/09	0.0196	6.63	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	24.7	<1.00	727	1260
10/13/11	0.01	7.88	<0.00100	<0.00500	0.0063	<0.000200	<0.0100	<0.00500	17.5	1.32		
07/17/12	0.0133	8.44	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	13.4	1.18	707	757
10/03/12	<0.0100	8.32	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	15.3	<1.00	694	724
Field Point MW-13	Well Screen Interval (feet): 30.00-45.00											
04/30/08	0.0221	1.41	<0.00100	0.0134	0.0104	<0.000200	<0.0100	<0.00500	61.9	209	870	1920 A-01
09/21/08	0.0377	3.54	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.62	1.20	751	748
05/19/09	0.0321	4.04	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.99	<1.00	800	252
08/19/09	0.0249	4.44	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.76	<1.00	781	800
10/30/09	0.0275	4.47	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.99	1.4	745	580
Field Point MW-14	Well Screen Interval (feet): 27.00-42.00											
04/30/08	0.0172	0.193	<0.00100	0.0063	<0.00500	<0.000200	<0.0100	<0.00500	5.21	195	780	919
09/21/08	0.0572	0.181	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.71	19.7	647	
05/19/09	0.0159	0.165	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.85	11.2	663	698
08/19/09	0.0271	0.196	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.14	15.7	656	702
10/30/09	0.0261	0.196	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.01	16.7	604	510
10/13/11	0.0325	0.38	<0.00100	<0.00500	0.0058	<0.000200	<0.0100	<0.00500	4.42	17.7		
07/17/12	0.0592	0.318	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	3.82	26.2	582	712
10/03/12	0.0308	0.294	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.47	20.3	593	733
Field Point MW-15	Well Screen Interval (feet): 29.00-44.00											
04/30/08	0.0259	2.16	<0.00100	0.0152	0.0084	<0.000200	<0.0100	0.0065	8.74	31.9	1050	641
09/21/08	0.0282	5.87	0.0014	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	10.4	1.02	808	
05/19/09	0.0267	6.47	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	10.0	<1.00	886	850

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	0.1	1	0.01	0.05	0.05	0.002	0.05	0.05	250.0	600.0	NA	1000.0
Field Point MW-15	Well Screen Interval (feet): 29.00-44.00											
08/19/09	0.0254	6.05	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	11.6	<1.00	891	850
10/30/09	0.0256	4.5	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.41	<1.00	738	570
Field Point MW-16	Well Screen Interval (feet): 26.50-41.50											
04/30/08	0.0107	1.02	<0.00100	0.0097	0.0058	<0.000200	<0.0100	<0.00500	16.6	52.5	750	726 A-01
09/21/08	0.0153	1.40	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	9.87	3.28	762	716
05/18/09	0.0167	1.59	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	8.84	1.69	783	776
08/19/09	0.0136	1.73	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	9.37	1.67	791	750
10/30/09	0.0136	1.79	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	8.38	1.83	732	410
10/30/09 D	0.0152	2.04	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	8.8	1.51	730	260
10/13/11	0.0142	2.21	0.0051	<0.00500	0.0074	<0.000200	<0.0100	<0.00500	6.19	2.08		
07/17/12	0.0147	1.86	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.83	2.32	726	788
10/03/12	0.0193	1.93	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	7	1.81	721	769
Field Point MW-17	Well Screen Interval (feet): 29.50-44.50											
08/19/09	0.0475	1.98	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	11.7	1.09	748	725
10/30/09	0.0541	1.69	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	11	<1.00	719	210
10/13/11	0.036	3.61	<0.00100	<0.00500	0.0065	<0.000200	<0.0100	<0.00500	7.35	1.34		
07/17/12	0.0238	0.0206	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.93	1.43	714	747
10/03/12	0.0418	4.51	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	7.12	<1.00	698	718
11/29/17	0.0192	10.2	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	14	0.55 J	896	815
Field Point MW-18	Well Screen Interval (feet): 27.00-42.00											
08/19/09	0.0178	0.144	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	113	232	961	1510
10/30/09	0.0377	0.249	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	28.1	42.8	989	890
10/13/11	0.0102	0.138	<0.00100	<0.00500	0.0065	<0.000200	<0.0100	<0.00500	46.6	15.7		
Field Point MW-19	Well Screen Interval (feet): 27.00-42.00											
08/19/09	0.0203	0.0352	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	29.6	145	224	554
10/30/09	0.0169	0.0374	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	23.1	148	209	380
10/13/11	0.0197	0.0321	<0.00100	<0.00500	0.0052	<0.000200	<0.0100	<0.00500	30	140		
07/17/12	0.0237	0.0357	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	32.2	150	196	595
10/03/12	0.0308	0.0271	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	33.8	151	195	579

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	0.1	1	0.01	0.05	0.05	0.002	0.05	0.05	250.0	600.0	NA	1000.0
Field Point MW-19	Well Screen Interval (feet): 27.00-42.00											
05/15/13	0.0185	0.0307	<0.000200	<0.0012	0.0099	<0.00015	<0.0064	<0.0013	36	156	189	585
01/29/14	0.028	0.0281	<0.000200	<0.0012	0.0039 J	<0.00015	<0.0064	<0.0013	40.9	163	203	570 B
06/18/14	0.0161	0.0247	0.0006 J	<0.00300	<0.002	<0.00015	0.0083 J	<0.0025	43.6 B	176	192	621
11/18/14	0.02	0.023	<0.00100	<0.00500	0.0098	<0.000200	<0.0100	<0.00500	43	170	190	610
12/09/15	0.0275	0.0242	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	41.2	162	234	610
04/27/16	0.0253	0.0265	<0.00100	<0.00500	<0.00500	<0.000200	0.0108	<0.00500	39.5	131	248	623
10/25/16	0.0240	0.0288	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	32.7	152	296	617
05/24/17	0.0327	0.0496	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	25	150	342	620
11/29/17	0.0382	0.0579	<0.0100	0.116	<0.0100	<0.000200	0.00751 J	<0.00500	23	130	361	605
Field Point MW-20	Well Screen Interval (feet): 29.50-44.50											
08/19/09	<0.0100	0.0908	<0.00100	<0.00500	<0.00500	<0.000200	0.015	<0.00500	440	417	187	1580
10/30/09	<0.0100	0.0705	<0.00100	<0.00500	<0.00500	<0.000200	0.0148	<0.00500	301	386	235	1230
10/13/11	<0.0100	0.0521	<0.00100	<0.00500	0.0057	<0.000200	0.0212	<0.00500	391	428		
07/17/12	0.0115	0.0481	<0.00100	<0.00500	<0.00500	<0.000200	0.0295	<0.00500	423	528	241	1870
10/03/12	0.0183	0.0476	<0.00100	<0.00500	<0.00500	<0.000200	0.0382	<0.00500	506	682	208	2090
05/15/13	0.0167	0.0377	<0.000200	<0.0012	<0.0017	<0.00015	0.0446	<0.0013	551	786	226	2370
01/29/14	0.0152	0.0321	<0.000200	<0.0012	<0.0035	0.00042	0.0402	<0.0013	538	719	268	2170 B
06/18/14	<0.0072	0.0322	0.0009 J	<0.00300	<0.002	0.000203	0.0354	<0.0025	527 B	756	257	2280
11/18/14	<0.0100	0.04	<0.00100	<0.00500	<0.00500	<0.000200	0.024	<0.00500	530	710	250	2100
Field Point MW-21	Well Screen Interval (feet): 29.50-44.50											
08/19/09	0.0248	0.0263	<0.00100	<0.00500	<0.00500	<0.000200	0.0126	<0.00500	38.8	666	248	1360
10/30/09	0.0245	0.0216	<0.00100	<0.00500	<0.00500	<0.000200	0.0146	<0.00500	39.3	816	222	1340
10/13/11	0.0311	0.0155	0.004	<0.00500	0.0052	<0.000200	0.0107	<0.00500	26.7	634		
07/17/12	0.0349	0.0161	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	21.1	559	232	1270
10/03/12	0.0435	0.0131	<0.00100	<0.00500	<0.00500	<0.000200	0.011	<0.00500	23.3	597	242	1260
05/15/13	0.0251	0.0154	<0.000200	<0.0012	0.0082	<0.00015	0.0224	<0.0013	18.9	535	239	1140
01/29/14	0.0355	0.0132	<0.000200	<0.0012	<0.0035	<0.00015	<0.0064	<0.0013	14.7	422	263	972 B
06/18/14	0.0307	0.0125	0.0008 J	<0.00300	<0.002	<0.00015	0.008 J	<0.0025	12.8 B	383	353	932
11/18/14	0.0310	0.013	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	12	360	250	860
12/08/15	0.0344	0.0138	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	10.3	323	286	875
04/27/16	0.0355	0.0145	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	9.67	306	288	849

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	0.1	1	0.01	0.05	0.05	0.002	0.05	0.05	250.0	600.0	NA	1000.0
Field Point MW-21	Well Screen Interval (feet): 29.50-44.50											
10/25/16	0.0341	0.0157	<0.00100	0.0154	<0.00500	<0.000200	<0.0100	<0.00500	13.4	322	281	828
Field Point MW-22	Well Screen Interval (feet): 30.00-45.00											
10/30/09	0.013	0.0376	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	42.4	266	213	630
10/13/11	0.018	0.023	<0.00100	<0.00500	0.0059	<0.000200	<0.0100	<0.00500	41.3	288		
07/17/12	0.0353	4.49	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	40.1	274	206	806
10/03/12	0.0232	0.0197	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	42.5	280	223	792
05/15/13	0.0209	0.0204	<0.000200	<0.0012	0.0085	<0.00015	0.0161	<0.0013	41.7	293	212	782
01/29/14	0.0288	0.0191	<0.000200	<0.0012	0.0044 J	<0.00015	0.0066 J	<0.0013	42.8	242	236	750 B
01/29/14 D	0.0299	0.0188	<0.000200	<0.0012	<0.00035	<0.00015	0.0067 J	<0.0013	42.8	257	233	750 B
06/18/14	0.0179	0.0192	0.0007 J	<0.00300	<0.002	<0.000150	0.0096 J	<0.0025	42.7 B	248	221	776
11/19/14	0.019	0.018	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	41	240	230	800
12/08/15	0.0176	0.0221	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	33.2	204	260	689
04/27/16	0.0201	0.0215	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	33.6	184	256	664
10/25/16	0.0190	0.0283	<0.00100	0.00700	<0.00500	<0.000200	<0.0100	<0.00500	37.4	22.4	236	709
05/24/17	0.0141	0.0199	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	32	200	260	650
11/29/17	0.0194	0.0259	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	32	190	250	675
Field Point MW-23	Well Screen Interval (feet): 31.00-46.00											
02/22/12	0.0258	0.061	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500				
07/17/12	0.0307	0.0392	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	3.06	91.9	425	652
10/03/12	0.0335	0.0334	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	3.34	79.4	412	654
05/15/13	0.0259	0.037	<0.000200	<0.0012	0.0065	<0.00015	0.0129	<0.0013	2.85	73.6 J	377	635
01/29/14	0.0343	0.0385	<0.000200	<0.0012	0.0052	<0.00015	<0.0064	<0.0013	3.76	109	393	597 B
06/18/14	0.0308	0.0889	0.0007 J	0.0035 J	0.0027 J	<0.00015	0.0063 J	<0.0025	4.27 B	111	370	628
11/18/14	0.033	0.053	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	3.9	100	370	630
12/08/15	0.0452	0.102	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.59	42.9	476	624
04/27/16	0.0577	0.768	<0.00100	0.0832	0.0314	<0.000200	<0.0100	<0.00500	6.70	51.9	429	607
Field Point MW-25	Well Screen Interval (feet): 28.00-43.00											
02/22/12	0.062	7.1	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500				

TABLE 6
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 Gladiola Station
 Lea County, New Mexico
 Cardno 3612

Date	Arsenic (mg/l)	Barium (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Mercury (mg/l)	Selenium (mg/l)	Silver (mg/l)	Chloride (mg/l)	Sulfate (mg/l)	Alkalinity (mg/l)	TDS (mg/l)
NMED WQCC HHS	0.1	1	0.01	0.05	0.05	0.002	0.05	0.05	250.0	600.0	NA	1000.0
Field Point MW-26	Well Screen Interval (feet): 30.00-45.00											
02/22/12	0.0135	0.0408	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500				
07/17/12	0.0123	0.0391	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	19.5	136	304	723
10/03/12	0.0198	0.0296	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	24	165	307	736
05/15/13	0.019	0.0366	<0.000200	<0.0012	<0.0017	<0.00015	0.0085 J	<0.0013	25.6	196	303	769
01/29/14	0.0159	0.0335	<0.000200	<0.0012	<0.0035	<0.00015	<0.0064	<0.0013	26.6	192	332	751 B
06/18/14	0.0133	0.0508	0.0006 J	<0.00300	<0.002	<0.00015	0.0068 J	<0.0025	25.3 B	188	307	787
11/19/14	0.015	0.031	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	25	220	320	830
12/08/15	0.0161	0.0530	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	24.8	204	336	781
04/27/16	0.0165	0.111	<0.00100	<0.00500	0.00600	0.000399	<0.0100	<0.00500	31.7	98.6	308	771
10/25/16	0.0300	1.37	0.00120	0.0404	0.0182	<0.000200	<0.0100	<0.00500	26.2	236	339	806
05/24/17	<0.0100	0.136	<0.0100	<0.0100	<0.0100	0.000162 J	<0.0150	<0.00500	28	220	317	755
11/29/17	0.0127	0.0633	<0.0100	<0.0100	<0.0100	<0.000200	<0.0150	<0.00500	24	200	355	735
Field Point SB-1GW	Grab Groundwater Sample											
10/28/11	<0.0100	0.0808	<0.00100	<0.00500	0.0053	<0.000200	<0.0100	<0.00500	9.4	77.8		
Field Point SB-2GW	Grab Groundwater Sample											
10/28/11	0.0139	0.134	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	156	307		
Field Point SB-3GW	Grab Groundwater Sample											
10/28/11	0.0338	7.8	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	2.84	2.3		
Field Point SB-4GW	Grab Groundwater Sample											
10/28/11	0.0296	3.44	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	5.9	2.8		
Field Point SB-5GW	Grab Groundwater Sample											
10/28/11	<0.0100	0.0971	<0.00100	<0.00500	<0.00500	<0.000200	0.0105	<0.00500	180	421		
Field Point SB-6GW	Grab Groundwater Sample											
10/28/11	0.0116	0.0343	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	7.04	290		
Field Point SB-7GW	Grab Groundwater Sample											
10/28/11	<0.0100	0.465	<0.00100	<0.00500	<0.00500	<0.000200	<0.0100	<0.00500	4.58	38.6		

TABLE 6
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS FOR METALS AND ADDITIONAL PARAMETERS
Gladiola Station
Lea County, New Mexico
Cardno 3612

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

TABLE 7
CONSTITUENTS DETECTED IN GROUNDWATER BY FULL SCAN 8260B - CUMULATIVE DATA
(EXCEPT BTEX AND FUEL OXYGENATES)

Gladiola Station
Lea County, New Mexico
Cardno 3612

Date	Acetone (2-propanone) (mg/l)	2-Butanone (MEK) (mg/l)	1,2-Dichloroethane (mg/l)	Isopropylbenzene (mg/l)	Naphthalene (mg/l)	n-Butylbenzene (mg/l)	n-Propylbenzene (mg/l)	p-Isopropyltoluene (mg/l)	sec-Butylbenzene (mg/l)	tert-Butylbenzene (mg/l)	1,2,4-Trimethylbenzene (mg/l)	1,3,5-Trimethylbenzene (mg/l)	
NMED WQCC HHS	NA	NA	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Point MW-6													
05/24/17	0.0041 J					0.00028 J		0.00031 J	0.00084	0.00027 J	0.00094	0.0021	
11/29/17	0.0045 J					0.00022 J		0.00077	0.00047 J		0.0011	0.0017	
Field Point MW-10													
05/24/17													
11/29/17	0.0056 J								0.00036 J				
Field Point MW-11													
05/24/17													
11/29/17	0.0067 J				0.0013 J	0.00061		0.00024 J	0.00025 J		0.0014	0.00056	
Field Point MW-17													
11/29/17				0.056	0.087 J	0.0058 J	0.051		0.0070 J		0.17	0.023	
Field Point MW-19													
05/24/17		0.0045 J		0.0068	0.0017 J	0.0022	0.0037	0.0027	0.0024	0.00079	0.020	0.021	
11/29/17	0.0052 J	0.0023 J		0.0057	0.00055 J	0.0023	0.0036	0.0024	0.0023	0.00068	0.026	0.021	
Field Point MW-22													
05/24/17													
11/29/17	0.0068 J												
Field Point MW-26													
05/24/17			0.0011		0.00077 J						0.0014		
11/29/17											0.00045 J		

TABLE 7
CONSTITUENTS DETECTED IN GROUNDWATER BY FULL SCAN 8260B - CUMULATIVE DATA
(EXCEPT BTEX AND FUEL OXYGENATES)

Gladiola Station
Lea County, New Mexico
Cardno 3612

Notes: Data collected prior to December 8, 2015 provided by AECOM.
ELEV = Elevation.
GW = Groundwater.
NAPL = Non-aqueous phase liquid.
Groundwater elevations are adjusted for NAPL thickness using a relative density of 0.83.
NMED WQCC HHS = New Mexico Environmental Department Water Quality Control Commission Human Health Standard for groundwater with 10,000 mg/l TDS or less.
Bolded values equal or exceed applicable regulatory limits.
Naphthalene is analyzed by EPA Method 8270C unless otherwise noted.
Total naphthalenes are the sum of 1- and 2-methylnaphthalene and naphthalene.
TDS = Total dissolved solids.
mg/l = Milligrams per liter.
BDL = Below laboratory detection limits.
< = Not detected at or above stated laboratory reporting limit.
A-01 = Could not obtain constant weight.
D = Duplicate sample.
J = Estimated value between method detection limit and practical quantitation limit.
R1 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the higher value was reported.
R10 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported due to apparent chromatographic problems.
R12 = The relative percent difference between the primary and confirmatory analysis exceeded 40%; the lower value was reported.
X = Pre-purge/no-purge sample.
(a) = Analyzed by EPA Method 8310.
(b) = Analyzed by EPA Method 8260B.
(c) = Analyzed method unknown.
(d) = Analyzed to determine the presense of NAPL.

Unless noted otherwise, all sampled wells were analyzed by EPA Method 8260B full scan.
Note: table only reflects concentrations above the laboratory reporting limit. Refer to the laboratory report for the reporting limit and dilution factor.

APPENDIX A

FIELD DATA SHEETS

Cardno							
Fluid-Level Monitoring Well Log							
Site Location: Tatum, NM				Project Name: Gladiola Station			
Personnel: Vincent Nguyen, Stephen Hunter				Project Number: 0136122017			
Gauging Instrument: Solinst				Date(s): 11/28/17			
Well Number	Date	Time	Total Depth (ft)	Depth to Water (ft)	Depth to Product (ft)	(Feet) Product Thickness	Remarks
MW-22	11/28/17	1430		40.90			4"
MW-17		1438		40.09			4"
MW-12		1440		40.58	40.10	0.48	4"
MW-26		1445		39.95			2"
MW-25		1453		41.57	39.26	2.31	2"
MW-20		1500		39.66	39.33	0.33	4"
MW-18		1510		39.41	39.13	0.28	4"
MW-13		1515		39.85	38.84	1.01	4"
MW-21		1518		39.63	39.20	0.43	4"
MW-23		1523		39.50	39.42	0.08	2"
MW-14		1527		40.00	38.61	1.39	4"
MW-19		1532		39.08			4"
MW-5		1537		40.06	38.81	1.25	2"
MW-15		1540		38.96	38.66	0.30	4"
MW-24		1545		40.54	37.20	3.34	2"
MW-11		1552		40.61			4"
MW-10		1554		41.29			2"
MW-9		1557		40.40	40.57	0.23	2"
MW-6		1602		38.91			2"
MW-16		1605		38.79	38.28	0.51	4"
MW-1		1609		37.18	36.91	0.27	2"
MW-4		1615		37.03	36.50	0.53	2"
MW-3	↓	1622		35.70	35.68	0.02	2" ; insufficient water for sampling
MW-7	11/29/17	1631		36.11			

[W-39-MW-6]

[illegible]

[illegible]

Released to Imaging: 12/16/2024 10:35:37 AM

Released to Imaging: 12/16/2024 10:35:37 AM

Released to Imaging: 12/16/2024 10:35:37 AM

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HYDROCARBON BAILDOWN TEST FORM

WELL INFORMATION		HYDROCARBON INFORMATION	
CASING DIAMETER	4-inch	FLUID TYPE	
TOTAL DEPTH		VISCOSITY	
DEPTH TO TOP OF SCREEN		DENSITY	
SCREEN LENGTH		COLOR	

[illegible]

Figure 1

Page __ of __

Cardno

SITE: <u>Estadola Station</u>		PROJ. NO. <u>0136122017</u>
WELL: <u>ncw5</u>		SAMPLER(S)
METHOD: <u>Bailer</u>	BAILER (type) <u>Teflon</u>	PUMP (type) <u>NP</u>

HYDROCARBON INFORMATION

CASING DIAMETER	2- inch	FLUID TYPE
TOTAL DEPTH		VISCOSITY
DEPTH TO TOP OF SCREEN		DENSITY
SCREEN LENGTH		COLOR

TEST DATA

[illegible]

Figure 1

Page __ of __

Cardno

SITE: Gladiola Station		PROJ. NO.	013612 2017
WELL: MW24		SAMPLER(S)	
METHOD: Bailor	BAILER (type) Teflon	PUMP (type)	N/A

HYDROCARBON INFORMATION

CASING DIAMETER	2-inch	FLUID TYPE
TOTAL DEPTH		VISCOSITY
DEPTH TO TOP OF SCREEN		DENSITY
SCREEN LENGTH		COLOR

TEST DATA

[illegible]

Figure 1

Page __ of __

Cardno

SITE: <u>Gladiola Station</u>		PROJ. NO. <u>0136122017</u>
WELL: <u>mu, 25</u>		SAMPLER(S)
METHOD: <u>Bailer</u>	BAILER (type) <u>Tu Flan</u>	PUMP (type) <u>net</u>

HYDROCARBON INFORMATION

CASING DIAMETER	2 inch	FLUID TYPE	
TOTAL DEPTH		VISCOSITY	
DEPTH TO TOP OF SCREEN		DENSITY	
SCREEN LENGTH		COLOR	

TEST DATA

[illegible]

Figure 1

Daily Field Report



Project ID #: Gladwin Station

Cardno Job # 0136122017

Subject: Product Recovery - Post Measurements

Date: 11/30/17

Equipment Used: Rental vehicle, Solimat

Sheet: 1 of 1

Name(s): Vincent Nguyen, Stephen Hunter

Time Arrived On Site: 0930

Time Departed Site: 1022

Total Travel:

Heat Stress Management and Fluid Replacement Chart

Name	Hour 1		Hour 2		Hour 3		Hour 4		Hour 5		Hour 6		Hour 7		Hour 8	
	qty	bpm	qty	bpm	qty	bpm	qty	bpm	qty	bpm	qty	bpm	qty	bpm	qty	bpm

Water = recommended 32 ounces per hour / working pulse = 180 - age beats per minute (bpm)

0930 - VW/SH onsite from hotel w/ rental vehicles
- Donned PPE

0940 - SH conducted HSM to review work scope, JSHs, & health documents

0945 - Took depth to water / NAPL measurements from wells that were hand-bailed yesterday

(a) MW-24 { 37.70 feet bgs (product)
36.07 feet bgs (water)

(b) MW-25 { 39.59 feet bgs (product)
39.80 feet bgs (water)

(c) MW-5 { 38.95 feet bgs (product)
39.20 feet bgs (water)

1001 - Locked and secured all wells onsite and offsite

1022 - VW/SH offsite to town

APPENDIX B

LABORATORY ANALYTICAL REPORT



Supplemental Report 1

The original report has been revised/corrected.

**WORK ORDER NUMBER: 17-12-0006***The difference is service*

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For**Client:** Cardno**Client Project Name:** ExxonMobil Gladiola Station**Attention:** David Purdy
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825*David L. Purdy*Approved for release on 12/21/2017 by:
Cecile deGuia
Project Manager

ResultLink ▶

Email your PM ▶

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



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Work Order Number: 17-12-0006

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The difference is service

Work Order: 17-12-0006

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Work Order Narrative

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 12/01/17. They were assigned to Work Order 17-12-0006.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Please note that the report has been amended to reflect the corrected units for EPA 8270C PAHs and EPA 8260B VOCs to mg/L per attached email.


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Client: Cardno	Work Order: 17-12-0006
20505 Crescent Bay Drive	Project Name: ExxonMobil Gladiola Station
Lake Forest, CA 92630-8825	PO Number: ExxonMobil Gladiola Station
	Date/Time Received: 12/01/17 10:00
	Number of Containers: 80

Attn: David Purdy

Sample Summary

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
W-41-MW-10	17-12-0006-1	11/29/17 11:25	11	Aqueous
W-41-MW-11	17-12-0006-2	11/29/17 11:30	11	Aqueous
W-42-MW-22	17-12-0006-3	11/29/17 13:05	11	Aqueous
W-39-MW-6	17-12-0006-4	11/29/17 14:00	11	Aqueous
W-42-MW-17	17-12-0006-5	11/29/17 14:08	11	Aqueous
W-40-MW-26	17-12-0006-6	11/29/17 15:11	11	Aqueous
W-41-MW-19	17-12-0006-7	11/29/17 16:04	11	Aqueous
Trip Blank	17-12-0006-8	11/29/17 00:00	3	Aqueous

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Client: Cardno	Work Order: 17-12-0006
20505 Crescent Bay Drive	Project Name: ExxonMobil Gladiola Station
Lake Forest, CA 92630-8825	Date Received: 12/01/17
Attn: David Purdy	

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: 1 (W-41-MW-10, Aqueous) Sampled: 11/29/17 11:25									
EPA 300.0 Anions (Extraction Method: N/A) Container - F									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Sulfate	67		mg/L	0.27	1.0	1.00	12/02/17 03:09	EPA 300.0	171201L01
SM 2320B Alkalinity (Extraction Method: N/A) Container - G									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Alkalinity, Total (as CaCO3)	691		mg/L	0.848	5.00	1.00	12/05/17 17:00	SM 2320B	H1205ALKB1
SM 2540 C Total Dissolved Solids (Extraction Method: N/A) Container - K									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Solids, Total Dissolved	1080		mg/L	0.870	10.0	1.00	12/01/17 17:00	SM 2540 C	H1201TDSL1
SM 4500-CL C Chloride (Extraction Method: N/A) Container - G									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Chloride	130		mg/L	0.76	2.0	1.00	12/04/17 16:35	SM 4500-CL C	H1204CLCL1
EPA 6010B ICP Metals (Extraction Method: EPA 3010A Total) Container - H									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Arsenic	0.0294		mg/L	0.00438	0.0100	1.00	12/06/17 13:36	EPA 6010B	171205LA6
Barium	0.321		mg/L	0.00296	0.0100	1.00	12/06/17 13:36	EPA 6010B	171205LA6
Cadmium	ND		mg/L	0.00269	0.0100	1.00	12/06/17 13:36	EPA 6010B	171205LA6
Chromium	0.0154		mg/L	0.00271	0.0100	1.00	12/06/17 13:36	EPA 6010B	171205LA6
Lead	ND		mg/L	0.00406	0.0100	1.00	12/06/17 13:36	EPA 6010B	171205LA6
Selenium	0.0184		mg/L	0.00699	0.0150	1.00	12/06/17 13:36	EPA 6010B	171205LA6
Silver	ND		mg/L	0.00139	0.00500	1.00	12/06/17 13:36	EPA 6010B	171205LA6
EPA 7470A Mercury (Extraction Method: EPA 7470A Total) Container - H									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Mercury	0.00319		mg/L	0.000045 3	0.000200	1.00	12/08/17 16:25	EPA 7470A	171208LA1M
EPA 8270C SIM PAHs (Extraction Method: EPA 3510C) Container - J									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Naphthalene	ND		mg/L	0.000071	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
2-Methylnaphthalene	ND		mg/L	0.000073	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
1-Methylnaphthalene	ND		mg/L	0.000072	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Acenaphthylene	ND		mg/L	0.000072	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Acenaphthene	ND		mg/L	0.000059	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Fluorene	ND		mg/L	0.000071	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Phenanthrene	ND		mg/L	0.000065	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Anthracene	ND		mg/L	0.000066	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09

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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Fluoranthene	ND		mg/L	0.000072	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Pyrene	ND		mg/L	0.000069	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Benzo (a) Anthracene	ND		mg/L	0.000075	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Chrysene	ND		mg/L	0.000064	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Benzo (k) Fluoranthene	ND		mg/L	0.000078	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Benzo (b) Fluoranthene	ND		mg/L	0.000083	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Benzo (a) Pyrene	ND		mg/L	0.000099	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Indeno (1,2,3-c,d) Pyrene	ND		mg/L	0.000080	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Dibenz (a,h) Anthracene	ND		mg/L	0.000075	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Benzo (g,h,i) Perylene	ND		mg/L	0.000092	0.00019	1.00	12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Surr: Nitrobenzene-d5 (28-139%)	84%						12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Surr: 2-Fluorobiphenyl (33-144%)	81%						12/12/17 00:25	EPA 8270C SIM PAHs	171201L09
Surr: p-Terphenyl-d14 (23-160%)	87%						12/12/17 00:25	EPA 8270C SIM PAHs	171201L09

EPA 8260B Volatile Organics (Extraction Method: EPA 5030C) Container - A

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Benzene	0.00051		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Toluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Ethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
o-Xylene	ND		mg/L	0.00032	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
p/m-Xylene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Xylenes (total)	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Methyl-t-Butyl Ether (MTBE)	ND		mg/L	0.00020	0.0010	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,1,1,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,1,1-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,1,2,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,1,2-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/L	0.00024	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,1-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,1-Dichloroethene	ND		mg/L	0.00028	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,1-Dichloropropene	ND		mg/L	0.00030	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,2,3-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,2,3-Trichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,2,4-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044



Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
1,2,4-Trimethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,3,5-Trimethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
c-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,2-Dibromo-3-Chloropropane	ND		mg/L	0.0020	0.0050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,2-Dibromoethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,2-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,2-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,2-Dichloropropane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
t-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
c-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,3-Dichlorobenzene	ND		mg/L	0.00028	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,3-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 16:43	EPA 8260B	171205L044
t-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
1,4-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
2,2-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 16:43	EPA 8260B	171205L044
2-Chlorotoluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
4-Chlorotoluene	ND		mg/L	0.00036	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
4-Methyl-2-Pentanone	ND		mg/L	0.0020	0.0050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Acetone	0.0056	J	mg/L	0.0040	0.010	1.00	12/05/17 16:43	EPA 8260B	171205L044
Bromobenzene	ND		mg/L	0.00032	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Bromochloromethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 16:43	EPA 8260B	171205L044
Bromoform	ND		mg/L	0.00025	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Bromomethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 16:43	EPA 8260B	171205L044
Carbon Disulfide	ND		mg/L	0.00040	0.0010	1.00	12/05/17 16:43	EPA 8260B	171205L044
Carbon Tetrachloride	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Chlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Dibromochloromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Chloroethane	ND		mg/L	0.00032	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Chloroform	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Chloromethane	ND		mg/L	0.00029	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Dibromomethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Bromodichloromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Dichlorodifluoromethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 16:43	EPA 8260B	171205L044
Hexachloro-1,3-Butadiene	ND		mg/L	0.00080	0.0020	1.00	12/05/17 16:43	EPA 8260B	171205L044
Isopropylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
2-Butanone	ND		mg/L	0.0020	0.0050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Methylene Chloride	ND		mg/L	0.00080	0.0010	1.00	12/05/17 16:43	EPA 8260B	171205L044
2-Hexanone	ND		mg/L	0.0040	0.010	1.00	12/05/17 16:43	EPA 8260B	171205L044
Naphthalene	ND		mg/L	0.00040	0.010	1.00	12/05/17 16:43	EPA 8260B	171205L044
n-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
n-Propylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
p-Isopropyltoluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044

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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
sec-Butylbenzene	0.00036	J	mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Styrene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
tert-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Tetrachloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Trichloroethene	ND		mg/L	0.00029	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Trichlorofluoromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Vinyl Chloride	ND		mg/L	0.00020	0.00050	1.00	12/05/17 16:43	EPA 8260B	171205L044
Surr: 1,4-Bromofluorobenzene (68-120%)							100%	12/05/17 16:43	EPA 8260B 171205L044
Surr: Dibromofluoromethane (80-127%)							101%	12/05/17 16:43	EPA 8260B 171205L044
Surr: 1,2-Dichloroethane-d4 (80-128%)							104%	12/05/17 16:43	EPA 8260B 171205L044
Surr: Toluene-d8 (80-120%)							103%	12/05/17 16:43	EPA 8260B 171205L044
Sample ID: 2 (W-41-MW-11, Aqueous) Sampled: 11/29/17 11:30									
EPA 300.0 Anions (Extraction Method: N/A) Container - F									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Sulfate	110		mg/L	0.54	2.0	2.00	12/02/17 19:14	EPA 300.0	171202L01
SM 2320B Alkalinity (Extraction Method: N/A) Container - G									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Alkalinity, Total (as CaCO3)	454		mg/L	0.848	5.00	1.00	12/05/17 17:00	SM 2320B	H1205ALKB1
SM 2540 C Total Dissolved Solids (Extraction Method: N/A) Container - K									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Solids, Total Dissolved	1090		mg/L	0.870	10.0	1.00	12/01/17 17:00	SM 2540 C	H1201TDSL1
SM 4500-CL C Chloride (Extraction Method: N/A) Container - G									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Chloride	210		mg/L	0.76	2.0	1.00	12/04/17 16:35	SM 4500-CL C	H1204CLCL1
EPA 6010B ICP Metals (Extraction Method: EPA 3010A Total) Container - H									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Arsenic	ND		mg/L	0.00438	0.0100	1.00	12/06/17 13:39	EPA 6010B	171205LA6
Barium	0.0530		mg/L	0.00296	0.0100	1.00	12/06/17 13:39	EPA 6010B	171205LA6
Cadmium	ND		mg/L	0.00269	0.0100	1.00	12/06/17 13:39	EPA 6010B	171205LA6
Chromium	0.00570	J	mg/L	0.00271	0.0100	1.00	12/06/17 13:39	EPA 6010B	171205LA6
Lead	ND		mg/L	0.00406	0.0100	1.00	12/06/17 13:39	EPA 6010B	171205LA6
Selenium	0.0185		mg/L	0.00699	0.0150	1.00	12/06/17 13:39	EPA 6010B	171205LA6
Silver	0.00189	J	mg/L	0.00139	0.00500	1.00	12/06/17 13:39	EPA 6010B	171205LA6
EPA 7470A Mercury (Extraction Method: EPA 7470A Total) Container - H									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Mercury	ND		mg/L	0.000045 3	0.000200	1.00	12/08/17 14:56	EPA 7470A	171208LA1M
EPA 8270C SIM PAHs (Extraction Method: EPA 3510C) Container - J									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Naphthalene	0.00022		mg/L	0.000073	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09

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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
2-Methylnaphthalene	0.0013		mg/L	0.000074	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
1-Methylnaphthalene	0.0010		mg/L	0.000074	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Acenaphthylene	ND		mg/L	0.000074	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Acenaphthene	ND		mg/L	0.000060	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Fluorene	0.00022		mg/L	0.000072	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Phenanthrene	0.00033		mg/L	0.000067	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Anthracene	ND		mg/L	0.000067	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Fluoranthene	ND		mg/L	0.000073	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Pyrene	ND		mg/L	0.000071	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Benzo (a) Anthracene	ND		mg/L	0.000077	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Chrysene	ND		mg/L	0.000065	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Benzo (k) Fluoranthene	ND		mg/L	0.000080	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Benzo (b) Fluoranthene	0.00015	J	mg/L	0.000084	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Benzo (a) Pyrene	ND		mg/L	0.00010	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Indeno (1,2,3-c,d) Pyrene	ND		mg/L	0.000082	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Dibenz (a,h) Anthracene	ND		mg/L	0.000077	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Benzo (g,h,i) Perylene	ND		mg/L	0.000094	0.00019	1.00	12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Surr: Nitrobenzene-d5 (28-139%)	63%						12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Surr: 2-Fluorobiphenyl (33-144%)	67%						12/12/17 00:44	EPA 8270C SIM PAHs	171201L09
Surr: p-Terphenyl-d14 (23-160%)	76%						12/12/17 00:44	EPA 8270C SIM PAHs	171201L09

EPA 8260B Volatile Organics (Extraction Method: EPA 5030C) Container - A

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Benzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Toluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Ethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
o-Xylene	ND		mg/L	0.00032	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
p/m-Xylene	0.00022	J	mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Xylenes (total)	0.00022	JA	mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Methyl-t-Butyl Ether (MTBE)	ND		mg/L	0.00020	0.0010	1.00	12/05/17 17:13	EPA 8260B	171205L044



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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
1,1,1,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,1,1-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,1,2,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,1,2-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/L	0.00024	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,1-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,1-Dichloroethene	ND		mg/L	0.00028	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,1-Dichloropropene	ND		mg/L	0.00030	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,2,3-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,2,3-Trichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,2,4-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,2,4-Trimethylbenzene	0.0014		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,3,5-Trimethylbenzene	0.00056		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
c-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,2-Dibromo-3-Chloropropane	ND		mg/L	0.0020	0.0050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,2-Dibromoethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,2-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,2-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,2-Dichloropropane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
t-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
c-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,3-Dichlorobenzene	ND		mg/L	0.00028	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,3-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:13	EPA 8260B	171205L044
t-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
1,4-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
2,2-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:13	EPA 8260B	171205L044
2-Chlorotoluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
4-Chlorotoluene	ND		mg/L	0.00036	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
4-Methyl-2-Pentanone	ND		mg/L	0.0020	0.0050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Acetone	0.0067	J	mg/L	0.0040	0.010	1.00	12/05/17 17:13	EPA 8260B	171205L044
Bromobenzene	ND		mg/L	0.00032	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Bromochloromethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:13	EPA 8260B	171205L044
Bromoform	ND		mg/L	0.00025	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Bromomethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:13	EPA 8260B	171205L044
Carbon Disulfide	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:13	EPA 8260B	171205L044
Carbon Tetrachloride	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Chlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Dibromochloromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Chloroethane	ND		mg/L	0.00032	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Chloroform	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Chloromethane	ND		mg/L	0.00029	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Dibromomethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044

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Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Bromodichloromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Dichlorodifluoromethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:13	EPA 8260B	171205L044
Hexachloro-1,3-Butadiene	ND		mg/L	0.00080	0.0020	1.00	12/05/17 17:13	EPA 8260B	171205L044
Isopropylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
2-Butanone	ND		mg/L	0.0020	0.0050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Methylene Chloride	ND		mg/L	0.00080	0.0010	1.00	12/05/17 17:13	EPA 8260B	171205L044
2-Hexanone	ND		mg/L	0.0040	0.010	1.00	12/05/17 17:13	EPA 8260B	171205L044
Naphthalene	0.0013	J	mg/L	0.00040	0.010	1.00	12/05/17 17:13	EPA 8260B	171205L044
n-Butylbenzene	0.00061		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
n-Propylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
p-Isopropyltoluene	0.00024	J	mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
sec-Butylbenzene	0.00025	J	mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Styrene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
tert-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Tetrachloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Trichloroethene	ND		mg/L	0.00029	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Trichlorofluoromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044
Vinyl Chloride	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:13	EPA 8260B	171205L044

Surr: 1,4-Bromofluorobenzene (68-120%)	100%						12/05/17 17:13	EPA 8260B	171205L044
Surr: Dibromofluoromethane (80-127%)	98%						12/05/17 17:13	EPA 8260B	171205L044
Surr: 1,2-Dichloroethane-d4 (80-128%)	108%						12/05/17 17:13	EPA 8260B	171205L044
Surr: Toluene-d8 (80-120%)	103%						12/05/17 17:13	EPA 8260B	171205L044

Sample ID: 3 (W-42-MW-22, Aqueous) Sampled: 11/29/17 13:05

EPA 300.0 Anions (Extraction Method: N/A) Container - F

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Sulfate	190		mg/L	1.3	5.0	5.00	12/02/17 19:33	EPA 300.0	171202L01
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SM 2320B Alkalinity (Extraction Method: N/A) Container - G

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Alkalinity, Total (as CaCO3)	250		mg/L	0.848	5.00	1.00	12/05/17 17:00	SM 2320B	H1205ALKB1
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SM 2540 C Total Dissolved Solids (Extraction Method: N/A) Container - K

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Solids, Total Dissolved	675		mg/L	0.870	1.00	1.00	12/01/17 17:00	SM 2540 C	H1201TDSL1
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SM 4500-CL C Chloride (Extraction Method: N/A) Container - G

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Chloride	32		mg/L	0.76	2.0	1.00	12/04/17 16:35	SM 4500-CL C	H1204CLCL1
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EPA 6010B ICP Metals (Extraction Method: EPA 3010A Total) Container - H

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Arsenic	0.0194		mg/L	0.00438	0.0100	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Barium	0.0259		mg/L	0.00296	0.0100	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Cadmium	ND		mg/L	0.00269	0.0100	1.00	12/06/17 13:43	EPA 6010B	171205LA6



Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Chromium	ND		mg/L	0.00271	0.0100	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Lead	ND		mg/L	0.00406	0.0100	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Selenium	ND		mg/L	0.00699	0.0150	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Silver	ND		mg/L	0.00139	0.00500	1.00	12/06/17 13:43	EPA 6010B	171205LA6
EPA 7470A Mercury (Extraction Method: EPA 7470A Total) Container - H									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Mercury	ND		mg/L	0.000045 3	0.000200	1.00	12/08/17 14:58	EPA 7470A	171208LA1M
EPA 8270C SIM PAHs (Extraction Method: EPA 3510C) Container - J									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Naphthalene	ND		mg/L	0.000076	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
2-Methylnaphthalene	ND		mg/L	0.000078	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
1-Methylnaphthalene	ND		mg/L	0.000077	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Acenaphthylene	ND		mg/L	0.000077	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Acenaphthene	ND		mg/L	0.000063	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Fluorene	ND		mg/L	0.000076	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Phenanthrene	ND		mg/L	0.000070	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Anthracene	ND		mg/L	0.000070	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Fluoranthene	ND		mg/L	0.000077	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Pyrene	ND		mg/L	0.000074	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Benzo (a) Anthracene	ND		mg/L	0.000081	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Chrysene	ND		mg/L	0.000069	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Benzo (k) Fluoranthene	ND		mg/L	0.000084	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Benzo (b) Fluoranthene	ND		mg/L	0.000089	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Benzo (a) Pyrene	ND		mg/L	0.00011	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Indeno (1,2,3-c,d) Pyrene	ND		mg/L	0.000086	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Dibenz (a,h) Anthracene	ND		mg/L	0.000080	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Benzo (g,h,i) Perylene	ND		mg/L	0.000099	0.00020	1.00	12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Surr: Nitrobenzene-d5 (28-139%)	75%						12/12/17 01:04	EPA 8270C SIM PAHs	171201L09



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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Surr: 2-Fluorobiphenyl (33-144%)	71%						12/12/17 01:04	EPA 8270C SIM PAHs	171201L09
Surr: p-Terphenyl-d14 (23-160%)	82%						12/12/17 01:04	EPA 8270C SIM PAHs	171201L09

EPA 8260B Volatile Organics (Extraction Method: EPA 5030C) Container - A

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Benzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Toluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Ethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
o-Xylene	ND		mg/L	0.00032	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
p/m-Xylene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Xylenes (total)	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Methyl-t-Butyl Ether (MTBE)	ND		mg/L	0.00020	0.0010	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,1,1,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,1,1-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,1,2,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,1,2-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/L	0.00024	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,1-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,1-Dichloroethene	ND		mg/L	0.00028	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,1-Dichloropropene	ND		mg/L	0.00030	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,2,3-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,2,3-Trichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,2,4-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,2,4-Trimethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,3,5-Trimethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
c-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,2-Dibromo-3-Chloropropane	ND		mg/L	0.0020	0.0050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,2-Dibromoethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,2-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,2-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,2-Dichloropropane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
t-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
c-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,3-Dichlorobenzene	ND		mg/L	0.00028	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,3-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:43	EPA 8260B	171205L044
t-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
1,4-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
2,2-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:43	EPA 8260B	171205L044
2-Chlorotoluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
4-Chlorotoluene	ND		mg/L	0.00036	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
4-Methyl-2-Pentanone	ND		mg/L	0.0020	0.0050	1.00	12/05/17 17:43	EPA 8260B	171205L044

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Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Acetone	0.0068	J	mg/L	0.0040	0.010	1.00	12/05/17 17:43	EPA 8260B	171205L044
Bromobenzene	ND		mg/L	0.00032	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Bromochloromethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:43	EPA 8260B	171205L044
Bromoform	ND		mg/L	0.00025	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Bromomethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:43	EPA 8260B	171205L044
Carbon Disulfide	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:43	EPA 8260B	171205L044
Carbon Tetrachloride	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Chlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Dibromochloromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Chloroethane	ND		mg/L	0.00032	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Chloroform	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Chloromethane	ND		mg/L	0.00029	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Dibromomethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Bromodichloromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Dichlorodifluoromethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 17:43	EPA 8260B	171205L044
Hexachloro-1,3-Butadiene	ND		mg/L	0.00080	0.0020	1.00	12/05/17 17:43	EPA 8260B	171205L044
Isopropylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
2-Butanone	ND		mg/L	0.0020	0.0050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Methylene Chloride	ND		mg/L	0.00080	0.0010	1.00	12/05/17 17:43	EPA 8260B	171205L044
2-Hexanone	ND		mg/L	0.0040	0.010	1.00	12/05/17 17:43	EPA 8260B	171205L044
Naphthalene	ND		mg/L	0.00040	0.010	1.00	12/05/17 17:43	EPA 8260B	171205L044
n-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
n-Propylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
p-Isopropyltoluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
sec-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Styrene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
tert-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Tetrachloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Trichloroethene	ND		mg/L	0.00029	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Trichlorofluoromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044
Vinyl Chloride	ND		mg/L	0.00020	0.00050	1.00	12/05/17 17:43	EPA 8260B	171205L044

Surr: 1,4-Bromofluorobenzene (68-120%)	98%	12/05/17 17:43	EPA 8260B	171205L044
Surr: Dibromofluoromethane (80-127%)	97%	12/05/17 17:43	EPA 8260B	171205L044
Surr: 1,2-Dichloroethane-d4 (80-128%)	106%	12/05/17 17:43	EPA 8260B	171205L044
Surr: Toluene-d8 (80-120%)	102%	12/05/17 17:43	EPA 8260B	171205L044

Sample ID: 4 (W-39-MW-6, Aqueous) Sampled: 11/29/17 14:00

EPA 300.0 Anions (Extraction Method: N/A) Container - F

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Sulfate	19	mg/L	0.27	1.0	1.00	12/02/17 00:37	EPA 300.0	171201L01
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Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
SM 2320B Alkalinity (Extraction Method: N/A) Container - G									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Alkalinity, Total (as CaCO3)	460		mg/L	0.848	5.00	1.00	12/05/17 17:00	SM 2320B	H1205ALKB1
SM 2540 C Total Dissolved Solids (Extraction Method: N/A) Container - K									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Solids, Total Dissolved	570		mg/L	0.870	1.00	1.00	12/01/17 17:00	SM 2540 C	H1201TDSL1
SM 4500-CL C Chloride (Extraction Method: N/A) Container - G									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Chloride	13		mg/L	0.76	2.0	1.00	12/04/17 16:35	SM 4500-CL C	H1204CLCL1
EPA 6010B ICP Metals (Extraction Method: EPA 3010A Total) Container - H									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Arsenic	ND		mg/L	0.00438	0.0100	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Barium	0.212		mg/L	0.00296	0.0100	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Cadmium	ND		mg/L	0.00269	0.0100	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Chromium	ND		mg/L	0.00271	0.0100	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Lead	ND		mg/L	0.00406	0.0100	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Selenium	ND		mg/L	0.00699	0.0150	1.00	12/06/17 13:43	EPA 6010B	171205LA6
Silver	ND		mg/L	0.00139	0.00500	1.00	12/06/17 13:43	EPA 6010B	171205LA6
EPA 7470A Mercury (Extraction Method: EPA 7470A Total) Container - H									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Mercury	ND		mg/L	0.000045 3	0.000200	1.00	12/08/17 15:01	EPA 7470A	171208LA1M
EPA 8270C SIM PAHs (Extraction Method: EPA 3510C) Container - J									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Naphthalene	ND		mg/L	0.000071	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
2-Methylnaphthalene	ND		mg/L	0.000073	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
1-Methylnaphthalene	ND		mg/L	0.000072	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Acenaphthylene	ND		mg/L	0.000072	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Acenaphthene	ND		mg/L	0.000059	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Fluorene	0.00017	J	mg/L	0.000071	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Phenanthrene	ND		mg/L	0.000065	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Anthracene	ND		mg/L	0.000066	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Fluoranthene	ND		mg/L	0.000072	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Pyrene	ND		mg/L	0.000069	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Benzo (a) Anthracene	ND		mg/L	0.000075	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09

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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Chrysene	ND		mg/L	0.000064	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Benzo (k) Fluoranthene	ND		mg/L	0.000078	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Benzo (b) Fluoranthene	ND		mg/L	0.000083	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Benzo (a) Pyrene	ND		mg/L	0.000099	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Indeno (1,2,3-c,d) Pyrene	ND		mg/L	0.000080	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Dibenz (a,h) Anthracene	ND		mg/L	0.000075	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Benzo (g,h,i) Perylene	ND		mg/L	0.000092	0.00019	1.00	12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Surr: Nitrobenzene-d5 (28-139%)	81%						12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Surr: 2-Fluorobiphenyl (33-144%)	76%						12/12/17 01:23	EPA 8270C SIM PAHs	171201L09
Surr: p-Terphenyl-d14 (23-160%)	83%						12/12/17 01:23	EPA 8270C SIM PAHs	171201L09

EPA 8260B Volatile Organics (Extraction Method: EPA 5030C) Container - A

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Benzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Toluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Ethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
o-Xylene	ND		mg/L	0.00032	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
p/m-Xylene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Xylenes (total)	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Methyl-t-Butyl Ether (MTBE)	ND		mg/L	0.00020	0.0010	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,1,1,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,1,1-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,1,2,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,1,2-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/L	0.00024	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,1-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,1-Dichloroethene	ND		mg/L	0.00028	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,1-Dichloropropene	ND		mg/L	0.00030	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,2,3-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,2,3-Trichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,2,4-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,2,4-Trimethylbenzene	0.0011		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,3,5-Trimethylbenzene	0.0017		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
c-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,2-Dibromo-3-Chloropropane	ND		mg/L	0.0020	0.0050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,2-Dibromoethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044



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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
1,2-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,2-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,2-Dichloropropane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
t-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
c-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,3-Dichlorobenzene	ND		mg/L	0.00028	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,3-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 18:13	EPA 8260B	171205L044
t-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
1,4-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
2,2-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 18:13	EPA 8260B	171205L044
2-Chlorotoluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
4-Chlorotoluene	ND		mg/L	0.00036	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
4-Methyl-2-Pentanone	ND		mg/L	0.0020	0.0050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Acetone	0.0045	J	mg/L	0.0040	0.010	1.00	12/05/17 18:13	EPA 8260B	171205L044
Bromobenzene	ND		mg/L	0.00032	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Bromochloromethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 18:13	EPA 8260B	171205L044
Bromoform	ND		mg/L	0.00025	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Bromomethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 18:13	EPA 8260B	171205L044
Carbon Disulfide	ND		mg/L	0.00040	0.0010	1.00	12/05/17 18:13	EPA 8260B	171205L044
Carbon Tetrachloride	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Chlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Dibromochloromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Chloroethane	ND		mg/L	0.00032	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Chloroform	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Chloromethane	ND		mg/L	0.00029	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Dibromomethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Bromodichloromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Dichlorodifluoromethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 18:13	EPA 8260B	171205L044
Hexachloro-1,3-Butadiene	ND		mg/L	0.00080	0.0020	1.00	12/05/17 18:13	EPA 8260B	171205L044
Isopropylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
2-Butanone	ND		mg/L	0.0020	0.0050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Methylene Chloride	ND		mg/L	0.00080	0.0010	1.00	12/05/17 18:13	EPA 8260B	171205L044
2-Hexanone	ND		mg/L	0.0040	0.010	1.00	12/05/17 18:13	EPA 8260B	171205L044
Naphthalene	ND		mg/L	0.00040	0.010	1.00	12/05/17 18:13	EPA 8260B	171205L044
n-Butylbenzene	0.00022	J	mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
n-Propylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
p-Isopropyltoluene	0.00077		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
sec-Butylbenzene	0.00047	J	mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Styrene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
tert-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Tetrachloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Trichloroethene	ND		mg/L	0.00029	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044

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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Trichlorofluoromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Vinyl Chloride	ND		mg/L	0.00020	0.00050	1.00	12/05/17 18:13	EPA 8260B	171205L044
Surr: 1,4-Bromofluorobenzene (68-120%)	99%						12/05/17 18:13	EPA 8260B	171205L044
Surr: Dibromofluoromethane (80-127%)	98%						12/05/17 18:13	EPA 8260B	171205L044
Surr: 1,2-Dichloroethane-d4 (80-128%)	106%						12/05/17 18:13	EPA 8260B	171205L044
Surr: Toluene-d8 (80-120%)	102%						12/05/17 18:13	EPA 8260B	171205L044
Sample ID: 5 (W-42-MW-17, Aqueous) Sampled: 11/29/17 14:08									
EPA 300.0 Anions (Extraction Method: N/A) Container - F									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Sulfate	0.55	J	mg/L	0.27	1.0	1.00	12/02/17 04:06	EPA 300.0	171201L01
SM 2320B Alkalinity (Extraction Method: N/A) Container - G									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Alkalinity, Total (as CaCO3)	896		mg/L	0.848	5.00	1.00	12/05/17 17:00	SM 2320B	H1205ALKB1
SM 2540 C Total Dissolved Solids (Extraction Method: N/A) Container - K									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Solids, Total Dissolved	815		mg/L	0.870	1.00	1.00	12/01/17 17:00	SM 2540 C	H1201TDSL1
SM 4500-CL C Chloride (Extraction Method: N/A) Container - G									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Chloride	14		mg/L	0.76	2.0	1.00	12/04/17 16:35	SM 4500-CL C	H1204CLCL1
EPA 6010B ICP Metals (Extraction Method: EPA 3010A Total) Container - H									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Arsenic	0.0192		mg/L	0.00438	0.0100	1.00	12/06/17 13:44	EPA 6010B	171205LA6
Barium	10.2		mg/L	0.00296	0.0100	1.00	12/06/17 13:44	EPA 6010B	171205LA6
Cadmium	ND		mg/L	0.00269	0.0100	1.00	12/06/17 13:44	EPA 6010B	171205LA6
Chromium	ND		mg/L	0.00271	0.0100	1.00	12/06/17 13:44	EPA 6010B	171205LA6
Lead	ND		mg/L	0.00406	0.0100	1.00	12/06/17 13:44	EPA 6010B	171205LA6
Selenium	ND		mg/L	0.00699	0.0150	1.00	12/06/17 13:44	EPA 6010B	171205LA6
Silver	ND		mg/L	0.00139	0.00500	1.00	12/06/17 13:44	EPA 6010B	171205LA6
EPA 7470A Mercury (Extraction Method: EPA 7470A Total) Container - H									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Mercury	ND		mg/L	0.000045 3	0.000200	1.00	12/08/17 15:03	EPA 7470A	171208LA1M
EPA 8270C SIM PAHs (Extraction Method: EPA 3510C) Container - J									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Acenaphthylene	ND		mg/L	0.000073	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Acenaphthene	ND		mg/L	0.000059	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Fluorene	0.0016		mg/L	0.000071	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Phenanthrene	0.0013		mg/L	0.000066	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09

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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Anthracene	ND		mg/L	0.000066	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Fluoranthene	ND		mg/L	0.000073	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Pyrene	ND		mg/L	0.000070	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Benzo (a) Anthracene	ND		mg/L	0.000076	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Chrysene	ND		mg/L	0.000065	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Benzo (k) Fluoranthene	ND		mg/L	0.000079	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Benzo (b) Fluoranthene	ND		mg/L	0.000084	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Benzo (a) Pyrene	ND		mg/L	0.00010	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Indeno (1,2,3-c,d) Pyrene	ND		mg/L	0.000081	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Dibenz (a,h) Anthracene	ND		mg/L	0.000076	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Benzo (g,h,i) Perylene	ND		mg/L	0.000093	0.00019	1.00	12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Surr: Nitrobenzene-d5 (28-139%)	98%						12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Surr: 2-Fluorobiphenyl (33-144%)	82%						12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
Surr: p-Terphenyl-d14 (23-160%)	93%						12/12/17 01:43	EPA 8270C SIM PAHs	171201L09
EPA 8270C SIM PAHs (Extraction Method: EPA 3510C) Container - A									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Naphthalene	0.044		mg/L	0.00072	0.0019	10.0	12/12/17 02:41	EPA 8270C SIM PAHs	171201L09
2-Methylnaphthalene	0.028		mg/L	0.00073	0.0019	10.0	12/12/17 02:41	EPA 8270C SIM PAHs	171201L09
1-Methylnaphthalene	0.022		mg/L	0.00073	0.0019	10.0	12/12/17 02:41	EPA 8270C SIM PAHs	171201L09
Surr: Nitrobenzene-d5 (28-139%)	54%						12/12/17 02:41	EPA 8270C SIM PAHs	171201L09
Surr: 2-Fluorobiphenyl (33-144%)	55%						12/12/17 02:41	EPA 8270C SIM PAHs	171201L09
Surr: p-Terphenyl-d14 (23-160%)	51%						12/12/17 02:41	EPA 8270C SIM PAHs	171201L09
EPA 8260B Volatile Organics (Extraction Method: EPA 5030C) Container - B									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Benzene	0.17		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Toluene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Ethylbenzene	0.77		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
o-Xylene	ND		mg/L	0.0079	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008



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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
p/m-Xylene	0.27		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Xylenes (total)	0.27		mg/L	0.0050	0.012	1.00	12/06/17 15:34	EPA 8260B	171206L008
Methyl-t-Butyl Ether (MTBE)	ND		mg/L	0.0050	0.025	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,1,1,2-Tetrachloroethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,1,1-Trichloroethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,1,2,2-Tetrachloroethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,1,2-Trichloroethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/L	0.0060	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,1-Dichloroethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,1-Dichloroethene	ND		mg/L	0.0070	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,1-Dichloropropene	ND		mg/L	0.0074	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,2,3-Trichlorobenzene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,2,3-Trichloropropane	ND		mg/L	0.010	0.025	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,2,4-Trichlorobenzene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,2,4-Trimethylbenzene	0.17		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,3,5-Trimethylbenzene	0.023		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
c-1,2-Dichloroethene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,2-Dibromo-3-Chloropropane	ND		mg/L	0.050	0.12	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,2-Dibromoethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,2-Dichlorobenzene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,2-Dichloroethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,2-Dichloropropane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
t-1,2-Dichloroethene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
c-1,3-Dichloropropene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,3-Dichlorobenzene	ND		mg/L	0.0069	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,3-Dichloropropane	ND		mg/L	0.010	0.025	25.0	12/06/17 15:34	EPA 8260B	171206L008
t-1,3-Dichloropropene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
1,4-Dichlorobenzene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
2,2-Dichloropropane	ND		mg/L	0.010	0.025	25.0	12/06/17 15:34	EPA 8260B	171206L008
2-Chlorotoluene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
4-Chlorotoluene	ND		mg/L	0.0089	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
4-Methyl-2-Pentanone	ND		mg/L	0.050	0.12	25.0	12/06/17 15:34	EPA 8260B	171206L008
Acetone	ND		mg/L	0.10	0.25	25.0	12/06/17 15:34	EPA 8260B	171206L008
Bromobenzene	ND		mg/L	0.0080	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Bromochloromethane	ND		mg/L	0.010	0.025	25.0	12/06/17 15:34	EPA 8260B	171206L008
Bromoform	ND		mg/L	0.0062	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Bromomethane	ND		mg/L	0.010	0.025	25.0	12/06/17 15:34	EPA 8260B	171206L008
Carbon Disulfide	ND		mg/L	0.010	0.025	25.0	12/06/17 15:34	EPA 8260B	171206L008
Carbon Tetrachloride	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Chlorobenzene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Dibromochloromethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Chloroethane	ND		mg/L	0.0079	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008

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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Chloroform	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Chloromethane	ND		mg/L	0.0074	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Dibromomethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Bromodichloromethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Dichlorodifluoromethane	ND		mg/L	0.010	0.025	25.0	12/06/17 15:34	EPA 8260B	171206L008
Hexachloro-1,3-Butadiene	ND		mg/L	0.020	0.050	25.0	12/06/17 15:34	EPA 8260B	171206L008
Isopropylbenzene	0.056		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
2-Butanone	ND		mg/L	0.050	0.12	25.0	12/06/17 15:34	EPA 8260B	171206L008
Methylene Chloride	ND		mg/L	0.020	0.025	25.0	12/06/17 15:34	EPA 8260B	171206L008
2-Hexanone	ND		mg/L	0.10	0.25	25.0	12/06/17 15:34	EPA 8260B	171206L008
Naphthalene	0.087	J	mg/L	0.010	0.25	25.0	12/06/17 15:34	EPA 8260B	171206L008
n-Butylbenzene	0.0058	J	mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
n-Propylbenzene	0.051		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
p-Isopropyltoluene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
sec-Butylbenzene	0.0070	J	mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Styrene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
tert-Butylbenzene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Tetrachloroethene	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Trichloroethene	ND		mg/L	0.0071	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Trichlorofluoromethane	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Vinyl Chloride	ND		mg/L	0.0050	0.012	25.0	12/06/17 15:34	EPA 8260B	171206L008
Surr: 1,4-Bromofluorobenzene (68-120%)							12/06/17 15:34	EPA 8260B	171206L008
Surr: Dibromofluoromethane (80-127%)							12/06/17 15:34	EPA 8260B	171206L008
Surr: 1,2-Dichloroethane-d4 (80-128%)							12/06/17 15:34	EPA 8260B	171206L008
Surr: Toluene-d8 (80-120%)							12/06/17 15:34	EPA 8260B	171206L008

Sample ID: 6 (W-40-MW-26, Aqueous) Sampled: 11/29/17 15:11

EPA 300.0 Anions (Extraction Method: N/A) Container - F

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Sulfate	200	mg/L	1.3	5.0	5.00	12/02/17 19:52	EPA 300.0	171202L01
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SM 2320B Alkalinity (Extraction Method: N/A) Container - G

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Alkalinity, Total (as CaCO3)	355	mg/L	0.848	5.00	1.00	12/05/17 17:00	SM 2320B	H1205ALKB1
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SM 2540 C Total Dissolved Solids (Extraction Method: N/A) Container - K

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Solids, Total Dissolved	735	mg/L	0.870	1.00	1.00	12/01/17 17:00	SM 2540 C	H1201TDSL1
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SM 4500-CL C Chloride (Extraction Method: N/A) Container - G

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Chloride	24	mg/L	0.76	2.0	1.00	12/04/17 16:35	SM 4500-CL C	H1204CLCL1
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EPA 6010B ICP Metals (Extraction Method: EPA 3010A Total) Container - H

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.



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Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Arsenic	0.0127		mg/L	0.00438	0.0100	1.00	12/06/17 13:45	EPA 6010B	171205LA6
Barium	0.0633		mg/L	0.00296	0.0100	1.00	12/06/17 13:45	EPA 6010B	171205LA6
Cadmium	ND		mg/L	0.00269	0.0100	1.00	12/06/17 13:45	EPA 6010B	171205LA6
Chromium	ND		mg/L	0.00271	0.0100	1.00	12/06/17 13:45	EPA 6010B	171205LA6
Lead	ND		mg/L	0.00406	0.0100	1.00	12/06/17 13:45	EPA 6010B	171205LA6
Selenium	ND		mg/L	0.00699	0.0150	1.00	12/06/17 13:45	EPA 6010B	171205LA6
Silver	ND		mg/L	0.00139	0.00500	1.00	12/06/17 13:45	EPA 6010B	171205LA6
EPA 7470A Mercury (Extraction Method: EPA 7470A Total) Container - H									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Mercury	ND		mg/L	0.000045 3	0.000200	1.00	12/08/17 15:10	EPA 7470A	171208LA1M
EPA 8270C SIM PAHs (Extraction Method: EPA 3510C) Container - J									
- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Naphthalene	0.00020		mg/L	0.000071	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
2-Methylnaphthalene	0.00015	J	mg/L	0.000073	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
1-Methylnaphthalene	0.00018	J	mg/L	0.000072	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Acenaphthylene	ND		mg/L	0.000072	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Acenaphthene	ND		mg/L	0.000059	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Fluorene	ND		mg/L	0.000071	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Phenanthrene	ND		mg/L	0.000065	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Anthracene	ND		mg/L	0.000066	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Fluoranthene	ND		mg/L	0.000072	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Pyrene	ND		mg/L	0.000069	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Benzo (a) Anthracene	ND		mg/L	0.000075	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Chrysene	ND		mg/L	0.000064	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Benzo (k) Fluoranthene	ND		mg/L	0.000078	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Benzo (b) Fluoranthene	ND		mg/L	0.000083	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Benzo (a) Pyrene	ND		mg/L	0.000099	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Indeno (1,2,3-c,d) Pyrene	ND		mg/L	0.000080	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Dibenz (a,h) Anthracene	ND		mg/L	0.000075	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Benzo (g,h,i) Perylene	ND		mg/L	0.000092	0.00019	1.00	12/12/17 02:02	EPA 8270C SIM PAHs	171201L09

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The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Surr: Nitrobenzene-d5 (28-139%)	79%						12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Surr: 2-Fluorobiphenyl (33-144%)	74%						12/12/17 02:02	EPA 8270C SIM PAHs	171201L09
Surr: p-Terphenyl-d14 (23-160%)	82%						12/12/17 02:02	EPA 8270C SIM PAHs	171201L09

EPA 8260B Volatile Organics (Extraction Method: EPA 5030C) Container - B

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Benzene	0.00061		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Toluene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Ethylbenzene	0.00025	J	mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
o-Xylene	ND		mg/L	0.00032	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
p/m-Xylene	0.00046	J	mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Xylenes (total)	0.00046	JA	mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Methyl-t-Butyl Ether (MTBE)	ND		mg/L	0.00020	0.0010	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,1,1,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,1,1-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,1,2,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,1,2-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/L	0.00024	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,1-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,1-Dichloroethene	ND		mg/L	0.00028	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,1-Dichloropropene	ND		mg/L	0.00030	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,2,3-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,2,3-Trichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,2,4-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,2,4-Trimethylbenzene	0.00045	J	mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,3,5-Trimethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
c-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,2-Dibromo-3-Chloropropane	ND		mg/L	0.0020	0.0050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,2-Dibromoethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,2-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,2-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,2-Dichloropropane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
t-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
c-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,3-Dichlorobenzene	ND		mg/L	0.00028	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,3-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 13:04	EPA 8260B	171206L008
t-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
1,4-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
2,2-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 13:04	EPA 8260B	171206L008
2-Chlorotoluene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008

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Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
4-Chlorotoluene	ND		mg/L	0.00036	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
4-Methyl-2-Pentanone	ND		mg/L	0.0020	0.0050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Acetone	ND		mg/L	0.0040	0.010	1.00	12/06/17 13:04	EPA 8260B	171206L008
Bromobenzene	ND		mg/L	0.00032	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Bromochloromethane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 13:04	EPA 8260B	171206L008
Bromoform	ND		mg/L	0.00025	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Bromomethane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 13:04	EPA 8260B	171206L008
Carbon Disulfide	ND		mg/L	0.00040	0.0010	1.00	12/06/17 13:04	EPA 8260B	171206L008
Carbon Tetrachloride	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Chlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Dibromochloromethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Chloroethane	ND		mg/L	0.00032	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Chloroform	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Chloromethane	ND		mg/L	0.00029	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Dibromomethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Bromodichloromethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Dichlorodifluoromethane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 13:04	EPA 8260B	171206L008
Hexachloro-1,3-Butadiene	ND		mg/L	0.00080	0.0020	1.00	12/06/17 13:04	EPA 8260B	171206L008
Isopropylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
2-Butanone	ND		mg/L	0.0020	0.0050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Methylene Chloride	ND		mg/L	0.00080	0.0010	1.00	12/06/17 13:04	EPA 8260B	171206L008
2-Hexanone	ND		mg/L	0.0040	0.010	1.00	12/06/17 13:04	EPA 8260B	171206L008
Naphthalene	ND		mg/L	0.00040	0.010	1.00	12/06/17 13:04	EPA 8260B	171206L008
n-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
n-Propylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
p-Isopropyltoluene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
sec-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Styrene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
tert-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Tetrachloroethene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Trichloroethene	ND		mg/L	0.00029	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Trichlorofluoromethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Vinyl Chloride	ND		mg/L	0.00020	0.00050	1.00	12/06/17 13:04	EPA 8260B	171206L008
Surr: 1,4-Bromofluorobenzene (68-120%)							12/06/17 13:04	EPA 8260B	171206L008
Surr: Dibromofluoromethane (80-127%)							12/06/17 13:04	EPA 8260B	171206L008
Surr: 1,2-Dichloroethane-d4 (80-128%)							12/06/17 13:04	EPA 8260B	171206L008
Surr: Toluene-d8 (80-120%)							12/06/17 13:04	EPA 8260B	171206L008

Sample ID: 7 (W-41-MW-19, Aqueous) Sampled: 11/29/17 16:04

EPA 300.0 Anions (Extraction Method: N/A) Container - F

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.



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The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Sulfate	130		mg/L	0.54	2.0	2.00	12/02/17 20:11	EPA 300.0	171202L01
SM 2320B Alkalinity (Extraction Method: N/A) Container - G - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Alkalinity, Total (as CaCO3)	361		mg/L	0.848	5.00	1.00	12/05/17 17:00	SM 2320B	H1205ALKB1
SM 2540 C Total Dissolved Solids (Extraction Method: N/A) Container - K - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Solids, Total Dissolved	605		mg/L	0.870	1.00	1.00	12/01/17 17:00	SM 2540 C	H1201TDSL1
SM 4500-CL C Chloride (Extraction Method: N/A) Container - G - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Chloride	23		mg/L	0.76	2.0	1.00	12/04/17 16:35	SM 4500-CL C	H1204CLCL1
EPA 6010B ICP Metals (Extraction Method: EPA 3010A Total) Container - H - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Arsenic	0.0382		mg/L	0.00438	0.0100	1.00	12/06/17 13:46	EPA 6010B	171205LA6
Barium	0.0579		mg/L	0.00296	0.0100	1.00	12/06/17 13:46	EPA 6010B	171205LA6
Cadmium	ND		mg/L	0.00269	0.0100	1.00	12/06/17 13:46	EPA 6010B	171205LA6
Chromium	0.116		mg/L	0.00271	0.0100	1.00	12/06/17 13:46	EPA 6010B	171205LA6
Lead	ND		mg/L	0.00406	0.0100	1.00	12/06/17 13:46	EPA 6010B	171205LA6
Selenium	0.00751	J	mg/L	0.00699	0.0150	1.00	12/06/17 13:46	EPA 6010B	171205LA6
Silver	ND		mg/L	0.00139	0.00500	1.00	12/06/17 13:46	EPA 6010B	171205LA6
EPA 7470A Mercury (Extraction Method: EPA 7470A Total) Container - H - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Mercury	ND		mg/L	0.000045 3	0.000200	1.00	12/08/17 15:12	EPA 7470A	171208LA1M
EPA 8270C SIM PAHs (Extraction Method: EPA 3510C) Container - J - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.									
Naphthalene	0.00045		mg/L	0.000071	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
2-Methylnaphthalene	0.00025		mg/L	0.000073	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
1-Methylnaphthalene	0.0013		mg/L	0.000072	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Acenaphthylene	ND		mg/L	0.000072	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Acenaphthene	ND		mg/L	0.000059	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Fluorene	0.00068		mg/L	0.000071	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Phenanthrene	0.00018	J	mg/L	0.000065	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Anthracene	ND		mg/L	0.000066	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Fluoranthene	ND		mg/L	0.000072	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Pyrene	ND		mg/L	0.000069	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09

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The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Benzo (a) Anthracene	ND		mg/L	0.000075	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Chrysene	ND		mg/L	0.000064	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Benzo (k) Fluoranthene	ND		mg/L	0.000078	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Benzo (b) Fluoranthene	ND		mg/L	0.000083	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Benzo (a) Pyrene	ND		mg/L	0.000099	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Indeno (1,2,3-c,d) Pyrene	ND		mg/L	0.000080	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Dibenz (a,h) Anthracene	ND		mg/L	0.000075	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Benzo (g,h,i) Perylene	ND		mg/L	0.000092	0.00019	1.00	12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Surr: Nitrobenzene-d5 (28-139%)	82%						12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Surr: 2-Fluorobiphenyl (33-144%)	76%						12/12/17 02:21	EPA 8270C SIM PAHs	171201L09
Surr: p-Terphenyl-d14 (23-160%)	88%						12/12/17 02:21	EPA 8270C SIM PAHs	171201L09

EPA 8260B Volatile Organics (Extraction Method: EPA 5030C) Container - B

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Benzene	0.0010		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Toluene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Ethylbenzene	0.00098		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
o-Xylene	ND		mg/L	0.00032	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
p/m-Xylene	0.00053		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Xylenes (total)	0.00053		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Methyl-t-Butyl Ether (MTBE)	ND		mg/L	0.00020	0.0010	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,1,1,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,1,1-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,1,2,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,1,2-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/L	0.00024	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,1-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,1-Dichloroethene	ND		mg/L	0.00028	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,1-Dichloropropene	ND		mg/L	0.00030	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,2,3-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,2,3-Trichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,2,4-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,2,4-Trimethylbenzene	0.026		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,3,5-Trimethylbenzene	0.021		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
c-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008



Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
1,2-Dibromo-3-Chloropropane	ND		mg/L	0.0020	0.0050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,2-Dibromoethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,2-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,2-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,2-Dichloropropane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
t-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
c-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,3-Dichlorobenzene	ND		mg/L	0.00028	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,3-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 15:04	EPA 8260B	171206L008
t-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
1,4-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
2,2-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 15:04	EPA 8260B	171206L008
2-Chlorotoluene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
4-Chlorotoluene	ND		mg/L	0.00036	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
4-Methyl-2-Pentanone	ND		mg/L	0.0020	0.0050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Acetone	0.0052	J	mg/L	0.0040	0.010	1.00	12/06/17 15:04	EPA 8260B	171206L008
Bromobenzene	ND		mg/L	0.00032	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Bromochloromethane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 15:04	EPA 8260B	171206L008
Bromoform	ND		mg/L	0.00025	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Bromomethane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 15:04	EPA 8260B	171206L008
Carbon Disulfide	0.0018		mg/L	0.00040	0.0010	1.00	12/06/17 15:04	EPA 8260B	171206L008
Carbon Tetrachloride	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Chlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Dibromochloromethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Chloroethane	ND		mg/L	0.00032	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Chloroform	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Chloromethane	ND		mg/L	0.00029	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Dibromomethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Bromodichloromethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Dichlorodifluoromethane	ND		mg/L	0.00040	0.0010	1.00	12/06/17 15:04	EPA 8260B	171206L008
Hexachloro-1,3-Butadiene	ND		mg/L	0.00080	0.0020	1.00	12/06/17 15:04	EPA 8260B	171206L008
Isopropylbenzene	0.0057		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
2-Butanone	0.0023	J	mg/L	0.0020	0.0050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Methylene Chloride	ND		mg/L	0.00080	0.0010	1.00	12/06/17 15:04	EPA 8260B	171206L008
2-Hexanone	ND		mg/L	0.0040	0.010	1.00	12/06/17 15:04	EPA 8260B	171206L008
Naphthalene	0.00055	J	mg/L	0.00040	0.010	1.00	12/06/17 15:04	EPA 8260B	171206L008
n-Butylbenzene	0.0023		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
n-Propylbenzene	0.0036		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
p-Isopropyltoluene	0.0024		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
sec-Butylbenzene	0.0023		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Styrene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
tert-Butylbenzene	0.00068		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008

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Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Tetrachloroethene	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Trichloroethene	ND		mg/L	0.00029	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Trichlorofluoromethane	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Vinyl Chloride	ND		mg/L	0.00020	0.00050	1.00	12/06/17 15:04	EPA 8260B	171206L008
Surr: 1,4-Bromofluorobenzene (68-120%)							12/06/17 15:04	EPA 8260B	171206L008
Surr: Dibromofluoromethane (80-127%)							12/06/17 15:04	EPA 8260B	171206L008
Surr: 1,2-Dichloroethane-d4 (80-128%)							12/06/17 15:04	EPA 8260B	171206L008
Surr: Toluene-d8 (80-120%)							12/06/17 15:04	EPA 8260B	171206L008

Sample ID: 8 (Trip Blank, Aqueous) Sampled: 11/29/17 00:00

EPA 8260B Volatile Organics (Extraction Method: EPA 5030C) Container - A

- Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Benzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Toluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Ethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
o-Xylene	ND		mg/L	0.00032	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
p/m-Xylene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Xylenes (total)	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Methyl-t-Butyl Ether (MTBE)	ND		mg/L	0.00020	0.0010	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,1,1,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,1,1-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,1,2,2-Tetrachloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,1,2-Trichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/L	0.00024	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,1-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,1-Dichloroethene	ND		mg/L	0.00028	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,1-Dichloropropene	ND		mg/L	0.00030	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,2,3-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,2,3-Trichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,2,4-Trichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,2,4-Trimethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,3,5-Trimethylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
c-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,2-Dibromo-3-Chloropropane	ND		mg/L	0.0020	0.0050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,2-Dibromoethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,2-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,2-Dichloroethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,2-Dichloropropane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
t-1,2-Dichloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
c-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,3-Dichlorobenzene	ND		mg/L	0.00028	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044



Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
1,3-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 20:12	EPA 8260B	171205L044
t-1,3-Dichloropropene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
1,4-Dichlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
2,2-Dichloropropane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 20:12	EPA 8260B	171205L044
2-Chlorotoluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
4-Chlorotoluene	ND		mg/L	0.00036	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
4-Methyl-2-Pentanone	ND		mg/L	0.0020	0.0050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Acetone	ND		mg/L	0.0040	0.010	1.00	12/05/17 20:12	EPA 8260B	171205L044
Bromobenzene	ND		mg/L	0.00032	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Bromochloromethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 20:12	EPA 8260B	171205L044
Bromoform	ND		mg/L	0.00025	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Bromomethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 20:12	EPA 8260B	171205L044
Carbon Disulfide	ND		mg/L	0.00040	0.0010	1.00	12/05/17 20:12	EPA 8260B	171205L044
Carbon Tetrachloride	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Chlorobenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Dibromochloromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Chloroethane	ND		mg/L	0.00032	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Chloroform	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Chloromethane	ND		mg/L	0.00029	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Dibromomethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Bromodichloromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Dichlorodifluoromethane	ND		mg/L	0.00040	0.0010	1.00	12/05/17 20:12	EPA 8260B	171205L044
Hexachloro-1,3-Butadiene	ND		mg/L	0.00080	0.0020	1.00	12/05/17 20:12	EPA 8260B	171205L044
Isopropylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
2-Butanone	ND		mg/L	0.0020	0.0050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Methylene Chloride	ND		mg/L	0.00080	0.0010	1.00	12/05/17 20:12	EPA 8260B	171205L044
2-Hexanone	ND		mg/L	0.0040	0.010	1.00	12/05/17 20:12	EPA 8260B	171205L044
Naphthalene	ND		mg/L	0.00040	0.010	1.00	12/05/17 20:12	EPA 8260B	171205L044
n-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
n-Propylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
p-Isopropyltoluene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
sec-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Styrene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
tert-Butylbenzene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Tetrachloroethene	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Trichloroethene	ND		mg/L	0.00029	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Trichlorofluoromethane	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Vinyl Chloride	ND		mg/L	0.00020	0.00050	1.00	12/05/17 20:12	EPA 8260B	171205L044
Surr: 1,4-Bromofluorobenzene (68-120%)							12/05/17 20:12	EPA 8260B	171205L044
Surr: Dibromofluoromethane (80-127%)							12/05/17 20:12	EPA 8260B	171205L044
Surr: 1,2-Dichloroethane-d4 (80-128%)							12/05/17 20:12	EPA 8260B	171205L044

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Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

Analytical Report

Analyte	Result	Flag	Units	MDL	RL	Dilution Factor	Analysis Date/Time	Method	Batch
Surr: Toluene-d8 (80-120%)	101%						12/05/17 20:12	EPA 8260B	171205L044

Return to Contents



Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Qualifiers	Units	QC Batch	Lab Number	Analysis Date/Time
EPA 300.0 Anions						
099-12-906-8108						
Sulfate	ND		mg/L	171201L01	099-12-906-8108	12/01/17 21:09
EPA 300.0 Anions						
099-12-906-8109						
Sulfate	ND		mg/L	171202L01	099-12-906-8109	12/02/17 10:54
SM 2320B Alkalinity						
099-15-859-1379						
Alkalinity, Total (as CaCO3)	ND		mg/L	H1205ALKB1	099-15-859-1379	12/05/17 17:00
SM 2540 C Total Dissolved Solids						
099-12-180-5895						
Solids, Total Dissolved	ND		mg/L	H1201TDSL1	099-12-180-5895	12/01/17 17:00
SM 4500-CL C Chloride						
099-05-057-2206						
Chloride	ND		mg/L	H1204CLCL1	099-05-057-2206	12/04/17 16:35
EPA 6010B ICP Metals						
097-01-003-16711						
Arsenic	ND		mg/L	171205LA6	097-01-003-16711	12/06/17 12:43
Barium	ND		mg/L	171205LA6	097-01-003-16711	12/06/17 12:43
Cadmium	ND		mg/L	171205LA6	097-01-003-16711	12/06/17 12:43
Chromium	ND		mg/L	171205LA6	097-01-003-16711	12/06/17 12:43
Lead	ND		mg/L	171205LA6	097-01-003-16711	12/06/17 12:43
Selenium	ND		mg/L	171205LA6	097-01-003-16711	12/06/17 12:43
Silver	ND		mg/L	171205LA6	097-01-003-16711	12/06/17 12:43
EPA 7470A Mercury						
099-12-457-378						
Mercury	ND		mg/L	171208LA1M	099-12-457-378	12/08/17 14:42
EPA 8270C SIM PAHs						
099-06-008-1015						
Naphthalene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
2-Methylnaphthalene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
1-Methylnaphthalene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Acenaphthylene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Acenaphthene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Fluorene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Phenanthrene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Anthracene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Fluoranthene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27



Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

PROJECT QUALITY CONTROL DATA Blank

Analyte	Blank Value	Qualifiers	Units	QC Batch	Lab Number	Analysis Date/Time
Pyrene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Benzo (a) Anthracene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Chrysene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Benzo (k) Fluoranthene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Benzo (b) Fluoranthene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Benzo (a) Pyrene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Indeno (1,2,3-c,d) Pyrene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Dibenz (a,h) Anthracene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Benzo (g,h,i) Perylene	ND		mg/L	171201L09	099-06-008-1015	12/11/17 23:27
Surr: Nitrobenzene-d5 (28-139%)	97%			171201L09	099-06-008-1015	12/11/17 23:27
Surr: 2-Fluorobiphenyl (33-144%)	82%			171201L09	099-06-008-1015	12/11/17 23:27
Surr: p-Terphenyl-d14 (23-160%)	85%			171201L09	099-06-008-1015	12/11/17 23:27

EPA 8260B Volatile Organics

099-12-878-705

Benzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Toluene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Ethylbenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
o-Xylene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
p/m-Xylene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Xylenes (total)	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Methyl-t-Butyl Ether (MTBE)	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,1,1,2-Tetrachloroethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,1,1-Trichloroethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,1,2,2-Tetrachloroethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,1,2-Trichloroethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,1-Dichloroethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,1-Dichloroethene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,1-Dichloropropene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,2,3-Trichlorobenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,2,3-Trichloropropane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,2,4-Trichlorobenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,2,4-Trimethylbenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,3,5-Trimethylbenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
c-1,2-Dichloroethene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,2-Dibromo-3-Chloropropane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,2-Dibromoethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,2-Dichlorobenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,2-Dichloroethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,2-Dichloropropane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13



Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

PROJECT QUALITY CONTROL DATA Blank

Analyte	Blank Value	Qualifiers	Units	QC Batch	Lab Number	Analysis Date/Time
t-1,2-Dichloroethene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
c-1,3-Dichloropropene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,3-Dichlorobenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,3-Dichloropropane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
t-1,3-Dichloropropene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
1,4-Dichlorobenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
2,2-Dichloropropane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
2-Chlorotoluene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
4-Chlorotoluene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
4-Methyl-2-Pentanone	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Acetone	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Bromobenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Bromochloromethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Bromoform	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Bromomethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Carbon Disulfide	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Carbon Tetrachloride	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Chlorobenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Dibromochloromethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Chloroethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Chloroform	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Chloromethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Dibromomethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Bromodichloromethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Dichlorodifluoromethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Hexachloro-1,3-Butadiene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Isopropylbenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
2-Butanone	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Methylene Chloride	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
2-Hexanone	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Naphthalene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
n-Butylbenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
n-Propylbenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
p-Isopropyltoluene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
sec-Butylbenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Styrene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
tert-Butylbenzene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Tetrachloroethene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Trichloroethene	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Trichlorofluoromethane	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13
Vinyl Chloride	ND		mg/L	171205L044	099-12-878-705	12/05/17 13:13

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Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

PROJECT QUALITY CONTROL DATA Blank

Analyte	Blank Value	Qualifiers	Units	QC Batch	Lab Number	Analysis Date/Time
Surr: 1,4-Bromofluorobenzene (68-120%)	99%			171205L044	099-12-878-705	12/05/17 13:13
Surr: Dibromofluoromethane (80-127%)	100%			171205L044	099-12-878-705	12/05/17 13:13
Surr: 1,2-Dichloroethane-d4 (80-128%)	107%			171205L044	099-12-878-705	12/05/17 13:13
Surr: Toluene-d8 (80-120%)	99%			171205L044	099-12-878-705	12/05/17 13:13
EPA 8260B Volatile Organics						
099-12-878-704						
Benzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Toluene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Ethylbenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
o-Xylene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
p/m-Xylene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Xylenes (total)	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Methyl-t-Butyl Ether (MTBE)	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,1,1,2-Tetrachloroethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,1,1-Trichloroethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,1,2,2-Tetrachloroethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,1,2-Trichloroethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,1-Dichloroethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,1-Dichloroethene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,1-Dichloropropene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,2,3-Trichlorobenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,2,3-Trichloropropane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,2,4-Trichlorobenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,2,4-Trimethylbenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,3,5-Trimethylbenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
c-1,2-Dichloroethene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,2-Dibromo-3-Chloropropane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,2-Dibromoethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,2-Dichlorobenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,2-Dichloroethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,2-Dichloropropane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
t-1,2-Dichloroethene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
c-1,3-Dichloropropene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,3-Dichlorobenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,3-Dichloropropane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
t-1,3-Dichloropropene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
1,4-Dichlorobenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
2,2-Dichloropropane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
2-Chlorotoluene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36


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Calscience

The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

Attn: David Purdy

PROJECT QUALITY CONTROL DATA Blank

Analyte	Blank Value	Qualifiers	Units	QC Batch	Lab Number	Analysis Date/Time
4-Chlorotoluene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
4-Methyl-2-Pentanone	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Acetone	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Bromobenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Bromochloromethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Bromoform	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Bromomethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Carbon Disulfide	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Carbon Tetrachloride	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Chlorobenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Dibromochloromethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Chloroethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Chloroform	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Chloromethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Dibromomethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Bromodichloromethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Dichlorodifluoromethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Hexachloro-1,3-Butadiene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Isopropylbenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
2-Butanone	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Methylene Chloride	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
2-Hexanone	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Naphthalene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
n-Butylbenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
n-Propylbenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
p-Isopropyltoluene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
sec-Butylbenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Styrene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
tert-Butylbenzene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Tetrachloroethene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Trichloroethene	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Trichlorofluoromethane	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Vinyl Chloride	ND		mg/L	171206L008	099-12-878-704	12/06/17 09:36
Surr: 1,4-Bromofluorobenzene (68-120%)	97%			171206L008	099-12-878-704	12/06/17 09:36
Surr: Dibromofluoromethane (80-127%)	101%			171206L008	099-12-878-704	12/06/17 09:36
Surr: 1,2-Dichloroethane-d4 (80-128%)	106%			171206L008	099-12-878-704	12/06/17 09:36
Surr: Toluene-d8 (80-120%)	101%			171206L008	099-12-878-704	12/06/17 09:36

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Calscience

The difference is service

Client: Cardno	Work Order: 17-12-0006
20505 Crescent Bay Drive	Project Name: ExxonMobil Gladiola Station
Lake Forest, CA 92630-8825	Date Received: 12/01/17

**QUALITY CONTROL
Matrix Spike**

Analyte	Orig. Val.	MS Val.	Qual.	Units	Spike Conc.	% Rec.	Target Range	Batch	Sample Spiked	Analysis Date/Time
EPA 300.0 Anions										
17-12-0006-4										
Sulfate	18.53	74.60		mg/L	50.00	112	80-120	171201S01	17-12-0006-4	12/02/17 00:56
SM 4500-CL C Chloride										
17-12-0006-6										
Chloride	24.19	101.5	HX	mg/L	100.0	77	80-120	H1204CLCS1	17-12-0006-6	12/04/17 16:35
EPA 6010B ICP Metals										
17-12-0006-1										
Arsenic	0.02942	0.5857		mg/L	0.5000	111	80-140	171205SA6	17-12-0006-1	12/06/17 13:37
Barium	0.3212	0.8721		mg/L	0.5000	110	87-123	171205SA6	17-12-0006-1	12/06/17 13:37
Cadmium	ND	0.5577		mg/L	0.5000	112	82-124	171205SA6	17-12-0006-1	12/06/17 13:37
Chromium	0.01538	0.5816		mg/L	0.5000	113	86-122	171205SA6	17-12-0006-1	12/06/17 13:37
Lead	ND	0.5449		mg/L	0.5000	109	84-120	171205SA6	17-12-0006-1	12/06/17 13:37
Selenium	0.01844	0.5670		mg/L	0.5000	110	79-127	171205SA6	17-12-0006-1	12/06/17 13:37
Silver	ND	0.2895		mg/L	0.2500	116	86-128	171205SA6	17-12-0006-1	12/06/17 13:37
EPA 7470A Mercury										
17-12-0552-1										
Mercury	ND	0.01807		mg/L	0.02000	90	55-133	171208SA1	17-12-0552-1	12/08/17 14:49
EPA 8260B Volatile Organics										
17-12-0177-1										
Benzene	ND	0.009758		mg/L	0.01000	98	75-125	171205S005	17-12-0177-1	12/05/17 14:13
Toluene	ND	0.01030		mg/L	0.01000	103	75-125	171205S005	17-12-0177-1	12/05/17 14:13
Ethylbenzene	ND	0.01029		mg/L	0.01000	103	75-125	171205S005	17-12-0177-1	12/05/17 14:13
o-Xylene	ND	0.01008		mg/L	0.01000	101	75-127	171205S005	17-12-0177-1	12/05/17 14:13
p/m-Xylene	ND	0.01985		mg/L	0.02000	99	75-125	171205S005	17-12-0177-1	12/05/17 14:13
Methyl-t-Butyl Ether (MTBE)	ND	0.009514		mg/L	0.01000	95	71-131	171205S005	17-12-0177-1	12/05/17 14:13
1,1-Dichloroethene	0.003195	0.01319		mg/L	0.01000	100	66-126	171205S005	17-12-0177-1	12/05/17 14:13
1,2-Dibromoethane	ND	0.01006		mg/L	0.01000	101	75-126	171205S005	17-12-0177-1	12/05/17 14:13
1,2-Dichlorobenzene	ND	0.009745		mg/L	0.01000	97	75-125	171205S005	17-12-0177-1	12/05/17 14:13
1,2-Dichloroethane	ND	0.01049		mg/L	0.01000	105	75-127	171205S005	17-12-0177-1	12/05/17 14:13
Carbon Tetrachloride	ND	0.01099		mg/L	0.01000	110	69-135	171205S005	17-12-0177-1	12/05/17 14:13
Chlorobenzene	ND	0.009455		mg/L	0.01000	95	75-125	171205S005	17-12-0177-1	12/05/17 14:13
Trichloroethene	0.0008057	0.01040		mg/L	0.01000	96	75-125	171205S005	17-12-0177-1	12/05/17 14:13
Vinyl Chloride	0.01080	0.01982		mg/L	0.01000	90	52-142	171205S005	17-12-0177-1	12/05/17 14:13
EPA 8260B Volatile Organics										
17-12-0006-6										
Benzene	0.0006067	0.01161		mg/L	0.01000	110	75-125	171206S004	17-12-0006-6	12/06/17 13:34
Toluene	ND	0.01099		mg/L	0.01000	110	75-125	171206S004	17-12-0006-6	12/06/17 13:34
Ethylbenzene	ND	0.01140		mg/L	0.01000	114	75-125	171206S004	17-12-0006-6	12/06/17 13:34
o-Xylene	ND	0.01093		mg/L	0.01000	109	75-127	171206S004	17-12-0006-6	12/06/17 13:34

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Client: Cardno	Work Order: 17-12-0006
20505 Crescent Bay Drive	Project Name: ExxonMobil Gladiola Station
Lake Forest, CA 92630-8825	Date Received: 12/01/17

QUALITY CONTROL
Matrix Spike

Analyte	Orig. Val.	MS Val.	Qual.	Units	Spike Conc.	% Rec.	Target Range	Batch	Sample Spiked	Analysis Date/Time
p/m-Xylene	ND	0.02212		mg/L	0.02000	111	75-125	171206S004	17-12-0006-6	12/06/17 13:34
Methyl-t-Butyl Ether (MTBE)	ND	0.009626		mg/L	0.01000	96	71-131	171206S004	17-12-0006-6	12/06/17 13:34
1,1-Dichloroethene	ND	0.01106		mg/L	0.01000	111	66-126	171206S004	17-12-0006-6	12/06/17 13:34
1,2-Dibromoethane	ND	0.01056		mg/L	0.01000	106	75-126	171206S004	17-12-0006-6	12/06/17 13:34
1,2-Dichlorobenzene	ND	0.01032		mg/L	0.01000	103	75-125	171206S004	17-12-0006-6	12/06/17 13:34
1,2-Dichloroethane	ND	0.01082		mg/L	0.01000	108	75-127	171206S004	17-12-0006-6	12/06/17 13:34
Carbon Tetrachloride	ND	0.01213		mg/L	0.01000	121	69-135	171206S004	17-12-0006-6	12/06/17 13:34
Chlorobenzene	ND	0.01060		mg/L	0.01000	106	75-125	171206S004	17-12-0006-6	12/06/17 13:34
Trichloroethene	ND	0.01080		mg/L	0.01000	108	75-125	171206S004	17-12-0006-6	12/06/17 13:34
Vinyl Chloride	ND	0.01092		mg/L	0.01000	109	52-142	171206S004	17-12-0006-6	12/06/17 13:34

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Calscience

The difference is service

Client: Cardno	Work Order: 17-12-0006
20505 Crescent Bay Drive	Project Name: ExxonMobil Gladiola Station
Lake Forest, CA 92630-8825	Date Received: 12/01/17

QUALITY CONTROL Matrix Spike Duplicate

Analyte	Orig. Val.	Duplicate	Qual.	Units	Spike Conc.	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analysis Date/Time
EPA 300.0 Anions												
17-12-0006-4												
Sulfate	18.53	74.69		mg/L	50.00	112	80-120	0	0-20	171201S01	17-12-0006-4	12/02/17 01:15
SM 4500-CL C Chloride												
17-12-0006-6												
Chloride	24.19	102.0	HX	mg/L	100.0	78	80-120	0	0-25	H1204CLCS 1	17-12-0006-6	12/04/17 16:35
EPA 6010B ICP Metals												
17-12-0006-1												
Arsenic	0.02942	0.5588		mg/L	0.5000	106	80-140	5	0-11	171205SA6	17-12-0006-1	12/06/17 13:38
Barium	0.3212	0.8221		mg/L	0.5000	100	87-123	6	0-6	171205SA6	17-12-0006-1	12/06/17 13:38
Cadmium	ND	0.5277		mg/L	0.5000	106	82-124	6	0-7	171205SA6	17-12-0006-1	12/06/17 13:38
Chromium	0.01538	0.5478		mg/L	0.5000	106	86-122	6	0-8	171205SA6	17-12-0006-1	12/06/17 13:38
Lead	ND	0.5194		mg/L	0.5000	104	84-120	5	0-7	171205SA6	17-12-0006-1	12/06/17 13:38
Selenium	0.01844	0.5413		mg/L	0.5000	105	79-127	5	0-9	171205SA6	17-12-0006-1	12/06/17 13:38
Silver	ND	0.2761		mg/L	0.2500	110	86-128	5	0-7	171205SA6	17-12-0006-1	12/06/17 13:38
EPA 7470A Mercury												
17-12-0552-1												
Mercury	ND	0.01875		mg/L	0.02000	94	55-133	4	0-20	171208SA1	17-12-0552-1	12/08/17 14:51
EPA 8260B Volatile Organics												
17-12-0177-1												
Benzene	ND	0.009761		mg/L	0.01000	98	75-125	0	0-20	171205S005	17-12-0177-1	12/05/17 14:43
Toluene	ND	0.01008		mg/L	0.01000	101	75-125	2	0-20	171205S005	17-12-0177-1	12/05/17 14:43
Ethylbenzene	ND	0.01000		mg/L	0.01000	100	75-125	3	0-20	171205S005	17-12-0177-1	12/05/17 14:43
o-Xylene	ND	0.009770		mg/L	0.01000	98	75-127	3	0-20	171205S005	17-12-0177-1	12/05/17 14:43
p/m-Xylene	ND	0.01950		mg/L	0.02000	98	75-125	2	0-20	171205S005	17-12-0177-1	12/05/17 14:43
Methyl-t-Butyl Ether (MTBE)	ND	0.01001		mg/L	0.01000	100	71-131	5	0-20	171205S005	17-12-0177-1	12/05/17 14:43
1,1-Dichloroethene	0.003195	0.01275		mg/L	0.01000	96	66-126	3	0-20	171205S005	17-12-0177-1	12/05/17 14:43
1,2-Dibromoethane	ND	0.01046		mg/L	0.01000	105	75-126	4	0-20	171205S005	17-12-0177-1	12/05/17 14:43
1,2-Dichlorobenzene	ND	0.009810		mg/L	0.01000	98	75-125	1	0-20	171205S005	17-12-0177-1	12/05/17 14:43
1,2-Dichloroethane	ND	0.01051		mg/L	0.01000	105	75-127	0	0-20	171205S005	17-12-0177-1	12/05/17 14:43
Carbon Tetrachloride	ND	0.01070		mg/L	0.01000	107	69-135	3	0-20	171205S005	17-12-0177-1	12/05/17 14:43
Chlorobenzene	ND	0.009490		mg/L	0.01000	95	75-125	0	0-20	171205S005	17-12-0177-1	12/05/17 14:43
Trichloroethene	0.000805 7	0.01027		mg/L	0.01000	95	75-125	1	0-20	171205S005	17-12-0177-1	12/05/17 14:43
Vinyl Chloride	0.01080	0.01945		mg/L	0.01000	86	52-142	2	0-20	171205S005	17-12-0177-1	12/05/17 14:43
EPA 8260B Volatile Organics												
17-12-0006-6												
Benzene	0.000606 7	0.01138		mg/L	0.01000	108	75-125	2	0-20	171206S004	17-12-0006-6	12/06/17 14:04
Toluene	ND	0.01076		mg/L	0.01000	108	75-125	2	0-20	171206S004	17-12-0006-6	12/06/17 14:04

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The difference is service

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

**QUALITY CONTROL
Matrix Spike Duplicate**

Analyte	Orig. Val.	Duplicate	Qual.	Units	Spike Conc.	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analysis Date/Time
Ethylbenzene	ND	0.01137		mg/L	0.01000	114	75-125	0	0-20	171206S004	17-12-0006-6	12/06/17 14:04
o-Xylene	ND	0.01083		mg/L	0.01000	108	75-127	1	0-20	171206S004	17-12-0006-6	12/06/17 14:04
p/m-Xylene	ND	0.02182		mg/L	0.02000	109	75-125	1	0-20	171206S004	17-12-0006-6	12/06/17 14:04
Methyl-t-Butyl Ether (MTBE)	ND	0.01054		mg/L	0.01000	105	71-131	9	0-20	171206S004	17-12-0006-6	12/06/17 14:04
1,1-Dichloroethene	ND	0.01139		mg/L	0.01000	114	66-126	3	0-20	171206S004	17-12-0006-6	12/06/17 14:04
1,2-Dibromoethane	ND	0.01089		mg/L	0.01000	109	75-126	3	0-20	171206S004	17-12-0006-6	12/06/17 14:04
1,2-Dichlorobenzene	ND	0.01046		mg/L	0.01000	105	75-125	1	0-20	171206S004	17-12-0006-6	12/06/17 14:04
1,2-Dichloroethane	ND	0.01088		mg/L	0.01000	109	75-127	0	0-20	171206S004	17-12-0006-6	12/06/17 14:04
Carbon Tetrachloride	ND	0.01241		mg/L	0.01000	124	69-135	2	0-20	171206S004	17-12-0006-6	12/06/17 14:04
Chlorobenzene	ND	0.01036		mg/L	0.01000	104	75-125	2	0-20	171206S004	17-12-0006-6	12/06/17 14:04
Trichloroethene	ND	0.01043		mg/L	0.01000	104	75-125	3	0-20	171206S004	17-12-0006-6	12/06/17 14:04
Vinyl Chloride	ND	0.01137		mg/L	0.01000	114	52-142	4	0-20	171206S004	17-12-0006-6	12/06/17 14:04

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Client:	Cardno	Work Order:	17-12-0006
	20505 Crescent Bay Drive	Project Name:	ExxonMobil Gladiola Station
	Lake Forest, CA 92630-8825	Date Received:	12/01/17

QUALITY CONTROL
Sample Duplicate

Analyte	Orig. Val.	Duplicate	Qual.	Units	RPD	Limit	Batch	Sample Duplicated	Analysis Date/Time
SM 2320B Alkalinity									
17-11-2279-1									
Alkalinity, Total (as CaCO3)	720.0	736.0		mg/L	2	0-25	H1205ALKD1	17-11-2279-1	12/05/17 17:00
SM 2540 C Total Dissolved Solids									
17-12-0006-1									
Solids, Total Dissolved	1085	1090		mg/L	0	0-20	H1201TDSD1	17-12-0006-1	12/01/17 17:00

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RPD: Relative Percent Difference.



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The difference is service

Client: Cardno	Work Order: 17-12-0006
20505 Crescent Bay Drive	Project Name: ExxonMobil Gladiola Station
Lake Forest, CA 92630-8825	Date Received: 12/01/17

PROJECT QUALITY CONTROL DATA

Laboratory Control Sample

Analyte	Known Val.	Analyzed	Qual.	Units	% Rec.	Target Range	Batch	Analysis Date/Time
EPA 300.0 Anions								
099-12-906-8108								
Sulfate	50.00	51.78		mg/L	104	90-110	171201L01	12/01/17 21:28
EPA 300.0 Anions								
099-12-906-8109								
Sulfate	50.00	49.76		mg/L	100	90-110	171202L01	12/02/17 11:13
SM 2320B Alkalinity								
099-15-859-1379								
Alkalinity, Total (as CaCO3)	100.0	100.0		mg/L	100	80-120	H1205ALKB1	12/05/17 17:00
SM 2540 C Total Dissolved Solids								
099-12-180-5895								
Solids, Total Dissolved	100.0	100.0		mg/L	100	80-120	H1201TDSL1	12/01/17 17:00
SM 4500-CL C Chloride								
099-05-057-2206								
Chloride	100.0	99.67		mg/L	100	80-120	H1204CLCL1	12/04/17 16:35
EPA 6010B ICP Metals								
097-01-003-16711								
Arsenic	0.5000	0.4734		mg/L	95	80-120	171205LA6	12/06/17 12:44
Barium	0.5000	0.5173		mg/L	103	80-120	171205LA6	12/06/17 12:44
Cadmium	0.5000	0.5187		mg/L	104	80-120	171205LA6	12/06/17 12:44
Chromium	0.5000	0.5121		mg/L	102	80-120	171205LA6	12/06/17 12:44
Lead	0.5000	0.5310		mg/L	106	80-120	171205LA6	12/06/17 12:44
Selenium	0.5000	0.4775		mg/L	95	80-120	171205LA6	12/06/17 12:44
Silver	0.2500	0.2570		mg/L	103	80-120	171205LA6	12/06/17 12:44
EPA 7470A Mercury								
099-12-457-378								
Mercury	0.01000	0.009775		mg/L	98	80-120	171208LA1M	12/08/17 14:45
EPA 8270C SIM PAHs								
099-06-008-1015								
Naphthalene	0.002000	0.001508		mg/L	75	21-133	171201L09	12/11/17 23:46
2-Methylnaphthalene	0.002000	0.001615		mg/L	81	21-140	171201L09	12/11/17 23:46
1-Methylnaphthalene	0.002000	0.001562		mg/L	78	20-140	171201L09	12/11/17 23:46
Acenaphthylene	0.002000	0.001443		mg/L	72	33-145	171201L09	12/11/17 23:46
Acenaphthene	0.002000	0.001533		mg/L	77	55-121	171201L09	12/11/17 23:46
Fluorene	0.002000	0.001540		mg/L	77	59-121	171201L09	12/11/17 23:46
Phenanthrene	0.002000	0.001559		mg/L	78	54-120	171201L09	12/11/17 23:46
Anthracene	0.002000	0.001426		mg/L	71	27-133	171201L09	12/11/17 23:46
Fluoranthene	0.002000	0.001628		mg/L	81	26-137	171201L09	12/11/17 23:46
Pyrene	0.002000	0.001609		mg/L	80	45-129	171201L09	12/11/17 23:46



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The difference is service

Client: Cardno	Work Order: 17-12-0006
20505 Crescent Bay Drive	Project Name: ExxonMobil Gladiola Station
Lake Forest, CA 92630-8825	Date Received: 12/01/17

PROJECT QUALITY CONTROL DATA

Laboratory Control Sample

Analyte	Known Val.	Analyzed	Qual.	Units	% Rec.	Target Range	Batch	Analysis Date/Time
Benzo (a) Anthracene	0.002000	0.001572		mg/L	79	33-143	171201L09	12/11/17 23:46
Chrysene	0.002000	0.001531		mg/L	77	17-168	171201L09	12/11/17 23:46
Benzo (k) Fluoranthene	0.002000	0.001527		mg/L	76	24-159	171201L09	12/11/17 23:46
Benzo (b) Fluoranthene	0.002000	0.001815		mg/L	91	24-159	171201L09	12/11/17 23:46
Benzo (a) Pyrene	0.002000	0.001491		mg/L	75	17-163	171201L09	12/11/17 23:46
Indeno (1,2,3-c,d) Pyrene	0.002000	0.001547		mg/L	77	25-175	171201L09	12/11/17 23:46
Dibenz (a,h) Anthracene	0.002000	0.001576		mg/L	79	25-175	171201L09	12/11/17 23:46
Benzo (g,h,i) Perylene	0.002000	0.001502		mg/L	75	25-157	171201L09	12/11/17 23:46

Total number of LCS compounds: 18
 Total number of ME compounds: 0
 Total number of ME compounds allowed: 1
 LCS ME CL validation result: Pass

EPA 8260B Volatile Organics

099-12-878-705

Benzene	0.01000	0.01076		mg/L	108	80-120	171205L044	12/05/17 12:44
Toluene	0.01000	0.01078		mg/L	108	80-120	171205L044	12/05/17 12:44
Ethylbenzene	0.01000	0.01082		mg/L	108	80-120	171205L044	12/05/17 12:44
o-Xylene	0.01000	0.01055		mg/L	106	80-120	171205L044	12/05/17 12:44
p/m-Xylene	0.02000	0.02098		mg/L	105	80-120	171205L044	12/05/17 12:44
Methyl-t-Butyl Ether (MTBE)	0.01000	0.009783		mg/L	98	75-123	171205L044	12/05/17 12:44
1,1-Dichloroethene	0.01000	0.01102		mg/L	110	77-120	171205L044	12/05/17 12:44
1,2-Dibromoethane	0.01000	0.01041		mg/L	104	80-120	171205L044	12/05/17 12:44
1,2-Dichlorobenzene	0.01000	0.01007		mg/L	101	80-120	171205L044	12/05/17 12:44
1,2-Dichloroethane	0.01000	0.01123		mg/L	112	80-122	171205L044	12/05/17 12:44
Carbon Tetrachloride	0.01000	0.01209		mg/L	121	80-129	171205L044	12/05/17 12:44
Chlorobenzene	0.01000	0.01028		mg/L	103	80-120	171205L044	12/05/17 12:44
Trichloroethene	0.01000	0.01087		mg/L	109	80-120	171205L044	12/05/17 12:44
Vinyl Chloride	0.01000	0.01056		mg/L	106	63-135	171205L044	12/05/17 12:44

Total number of LCS compounds: 14
 Total number of ME compounds: 0
 Total number of ME compounds allowed: 1
 LCS ME CL validation result: Pass

EPA 8260B Volatile Organics

099-12-878-704

Benzene	0.01000	0.01051		mg/L	105	80-120	171206L008	12/06/17 09:06
Toluene	0.01000	0.01049		mg/L	105	80-120	171206L008	12/06/17 09:06
Ethylbenzene	0.01000	0.01087		mg/L	109	80-120	171206L008	12/06/17 09:06
o-Xylene	0.01000	0.01052		mg/L	105	80-120	171206L008	12/06/17 09:06
p/m-Xylene	0.02000	0.02107		mg/L	105	80-120	171206L008	12/06/17 09:06
Methyl-t-Butyl Ether (MTBE)	0.01000	0.009808		mg/L	98	75-123	171206L008	12/06/17 09:06

Client: Cardno
20505 Crescent Bay Drive
Lake Forest, CA 92630-8825

Work Order: 17-12-0006
Project Name: ExxonMobil Gladiola Station
Date Received: 12/01/17

PROJECT QUALITY CONTROL DATA
Laboratory Control Sample

Analyte	Known Val.	Analyzed	Qual.	Units	% Rec.	Target Range	Batch	Analysis Date/Time
1,1-Dichloroethene	0.01000	0.01115		mg/L	111	77-120	171206L008	12/06/17 09:06
1,2-Dibromoethane	0.01000	0.01022		mg/L	102	80-120	171206L008	12/06/17 09:06
1,2-Dichlorobenzene	0.01000	0.01016		mg/L	102	80-120	171206L008	12/06/17 09:06
1,2-Dichloroethane	0.01000	0.01057		mg/L	106	80-122	171206L008	12/06/17 09:06
Carbon Tetrachloride	0.01000	0.01193		mg/L	119	80-129	171206L008	12/06/17 09:06
Chlorobenzene	0.01000	0.01024		mg/L	102	80-120	171206L008	12/06/17 09:06
Trichloroethene	0.01000	0.01003		mg/L	100	80-120	171206L008	12/06/17 09:06
Vinyl Chloride	0.01000	0.01028		mg/L	103	63-135	171206L008	12/06/17 09:06

Total number of LCS compounds: 14
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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Client: Cardno	Work Order: 17-12-0006
20505 Crescent Bay Drive	Project Name: ExxonMobil Gladiola Station
Lake Forest, CA 92630-8825	Date Received: 12/01/17

PROJECT QUALITY CONTROL DATA

Laboratory Control Sample Duplicate

Analyte	LCS Val.	Duplicate	Qual.	Units	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analysis Date/Time
EPA 300.0 Anions											
099-12-906-8109											
Sulfate	50.00	50.01		mg/L	100	90-110	1	0-15	171202L01	099-12-906-8109	12/02/17 11:36
SM 2320B Alkalinity											
099-15-859-1379											
Alkalinity, Total (as CaCO ₃)	100.0	101.0		mg/L	101	80-120	1	0-20	H1205ALKB1	099-15-859-1379	12/05/17 17:00
SM 2540 C Total Dissolved Solids											
099-12-180-5895											
Solids, Total Dissolved	100.0	95.00		mg/L	95	80-120	5	0-20	H1201TDSL1	099-12-180-5895	12/01/17 17:00
SM 4500-CL C Chloride											
099-05-057-2206											
Chloride	100.0	99.17		mg/L	99	80-120	1	0-20	H1204CLCL1	099-05-057-2206	12/04/17 16:35
EPA 8270C SIM PAHs											
099-06-008-1015											
Naphthalene	0.00200 0	0.001531		mg/L	77	21-133	2	0-25	171201L09	099-06-008-1015	12/12/17 00:06
2-Methylnaphthalene	0.00200 0	0.001640		mg/L	82	21-140	2	0-25	171201L09	099-06-008-1015	12/12/17 00:06
1-Methylnaphthalene	0.00200 0	0.001586		mg/L	79	20-140	2	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Acenaphthylene	0.00200 0	0.001510		mg/L	76	33-145	5	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Acenaphthene	0.00200 0	0.001578		mg/L	79	55-121	3	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Fluorene	0.00200 0	0.001601		mg/L	80	59-121	4	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Phenanthrene	0.00200 0	0.001662		mg/L	83	54-120	6	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Anthracene	0.00200 0	0.001591		mg/L	80	27-133	11	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Fluoranthene	0.00200 0	0.001723		mg/L	86	26-137	6	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Pyrene	0.00200 0	0.001706		mg/L	85	45-129	6	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Benzo (a) Anthracene	0.00200 0	0.001691		mg/L	85	33-143	7	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Chrysene	0.00200 0	0.001624		mg/L	81	17-168	6	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Benzo (k) Fluoranthene	0.00200 0	0.001722		mg/L	86	24-159	12	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Benzo (b) Fluoranthene	0.00200 0	0.001796		mg/L	90	24-159	1	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Benzo (a) Pyrene	0.00200 0	0.001657		mg/L	83	17-163	11	0-25	171201L09	099-06-008-1015	12/12/17 00:06

Qual - Qualifiers RPD: Relative Percent Difference



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The difference is service

Client: Cardno	Work Order: 17-12-0006
20505 Crescent Bay Drive	Project Name: ExxonMobil Gladiola Station
Lake Forest, CA 92630-8825	Date Received: 12/01/17

PROJECT QUALITY CONTROL DATA
Laboratory Control Sample Duplicate

Analyte	LCS Val.	Duplicate	Qual.	Units	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analysis Date/Time
Indeno (1,2,3-c,d) Pyrene	0.002000	0.001604		mg/L	80	25-175	4	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Dibenz (a,h) Anthracene	0.002000	0.001624		mg/L	81	25-175	3	0-25	171201L09	099-06-008-1015	12/12/17 00:06
Benzo (g,h,i) Perylene	0.002000	0.001569		mg/L	78	25-157	4	0-25	171201L09	099-06-008-1015	12/12/17 00:06

Total number of LCS compounds: 18
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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Qual - Qualifiers RPD: Relative Percent Difference



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Work Order: 17-12-0006

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Sample Analysis Summary Report

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 300.0	N/A	834	IC 9	1
EPA 300.0	N/A	834	IC 10	1
EPA 6010B	EPA 3010A Total	935	ICP 7300	1
EPA 7470A	EPA 7470A Total	868	Mercury 07	1
EPA 8260B	EPA 5030C	996	GC/MS UU	2
EPA 8270C SIM PAHs	EPA 3510C	907	GC/MS AAA	1
SM 2320B	N/A	1086	PH1/BUR03	1
SM 2540 C	N/A	1009	N/A	1
SM 4500-Cl C	N/A	1139	BUR02	1


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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841



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The difference is service

Work Order: 17-12-0006

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Glossary of Terms and Qualifiers

Qualifiers	Definition
AZ	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
BA	The MS/MSD RPD was out of control due to suspected matrix interference.
BB	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
DF	Reporting limits elevated due to matrix interferences.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
GE	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
HD	Chromat. profile inconsistent with pattern(s) of ref. fuel stdns.
HO	High concentration matrix spike recovery out of limits
HT	Analytical value calculated using results from associated tests.
HX	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS was in control.
IL	Relative percent difference out of control.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
LD	Analyte presence was not confirmed by second column or GC/MS analysis.
LP	The LCS and/or LCSD recoveries for this analyte were above the upper control limit. The associated sample was non-detected. Therefore, the sample data was reported without further clarification.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.
ND	Parameter not detected at the indicated reporting limit.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
RU	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
SG	A silica gel cleanup procedure was performed.
SN	See applicable analysis comment.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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Jonathan Diaz

From: Christine Capwell <christine.capwell@cardno.com>
Sent: Wednesday, December 20, 2017 9:11 AM
To: Jonathan Diaz
Subject: FW: ExxonMobil Gladiola Station / ECI 17-12-0006
Attachments: 17-12-0006.pdf; 17120006.xls

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Jonathan,

Can this report be revised so that all results are in mg/L? Normally, we prefer the PAH and VOC results in ug/L like they are in this report, but this particular site has different reporting requirements.

Thanks!

Christine Capwell

SENIOR TECHNICAL EDITOR
CARDNO

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Address 601 North McDowell Boulevard, Petaluma, California 94954

Email christine.capwell@cardno.com **Web** www.cardno.com

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From: Jonathan Diaz [mailto:JonathanDiaz@eurofinsUS.com]

Sent: Friday, December 15, 2017 2:53 PM

To: David Purdy <dave.purdy@cardno.com>

Cc: labs01 <labs01@cardno.com>

Subject: ExxonMobil Gladiola Station / ECI 17-12-0006

Analytical report & EDD for the above project is attached.

Jonathan Diaz

Assistant Project Manager

Eurofins Calscience, Inc.

7440 Lincoln Way
Garden Grove, CA 92841-1427
USA
Phone: (714) 895-5494

Jonathan Diaz

From: Vincent Nguyen <Vincent.Nguyen@cardno.com>
Sent: Monday, December 04, 2017 11:50 AM
To: Jonathan Diaz
Cc: Cecile L de Guia; David Purdy
Subject: RE: ExxonMobil Gladiola Station / ECI 17-12-0006

Jonathan,

Dave Purdy, the site project manager, has agreed that we should proceed with the analysis for those unlabeled vials.

Thanks,

Vincent Nguyen

ENVIRONMENTAL SCIENTIST I
CARDNO

Direct +1 949 273 6302 Mobile +1 949 532 3228 Fax +1 949 457 8956
Address 20505 Crescent Bay Drive, Lake Forest, CA 92630
Email vincent.nguyen@cardno.com Web www.cardno.com

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Return to Contents

From: Jonathan Diaz [<mailto:JonathanDiaz@eurofinsUS.com>]
Sent: Monday, December 4, 2017 11:37 AM
To: David Purdy <dave.purdy@cardno.com>
Cc: Vincent Nguyen <Vincent.Nguyen@cardno.com>; Cecile L de Guia <CecileLdeGuia@eurofinsUS.com>
Subject: ExxonMobil Gladiola Station / ECI 17-12-0006
Importance: High

Vincent,

All vials for sample -5 were not labeled. All other vials from each samples were accounted for. Let us know if you want us to proceed.

Thanks,

Jonathan Diaz
Assistant Project Manager

Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
USA
Phone: (714) 895-5494

CHAIN OF CUSTODY RECORD

DATE: 11/29/17
PAGE: 1 OF 1

Site Name	
Provide MRN for retail or AFE for major projects	
Retail Project (MRN)	
Major Project (AFE)	
Project Name	ExxonMobil Gladiola Station

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501



ExxonMobil Engr: **Maria Madden**

LABORATORY CLIENT: Cardno		GLOBAL ID # COELT LOG CODE:	
ADDRESS: 25371 Comemcentre Drive, Suite 250		PROJECT CONTACT: David Purdy	
CITY: Lake Forest, CA 92630		SAMPLER(S): Vincent Nguyen	
TEL: 949-457-8941	FAX: 949-457-8956	Temp = _____ °C	
TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 10 DAYS		COOLER RECEIPT	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____		17-12-00006	

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT.	MAT. RIX	CONTAINER TYPE									
			DATE	TIME			EPA 8270C SIM PAHs (TC# 4741)	EPA 6010B As, Ba, Cd, Cr, Pb, Se and Ag only (TC# 2516)	EPA 7470A Mercury (TC# 5096)	EPA 300.0 Sulfate (TC# 5431)	SM 2320B Alkalinity (TC# 6512) and SM 4500-Cl C Chloride (TC# 755)	SM 2540C Total Dissolved Solids (TC# 4942)				
1	W-41-MW-10	MW-10	11/29/17	1125	11	W	X	X	X	X	X	X	5 vials with HCL, 2-1L Amber Glass, 250mL Plastic with HNO ₃ , 125mL Plastic, 250mL Plastic, 1L Plastic			
2	W-41-MW-11	MW-11	11/29/17	1130	11	W	X	X	X	X	X	X	5 vials with HCL, 2-1L Amber Glass, 250mL Plastic with HNO ₃ , 125mL Plastic, 250mL Plastic, 1L Plastic			
3	W-42-MW-22	MW-22	11/29/17	1305	11	W	X	X	X	X	X	X	5 vials with HCL, 2-1L Amber Glass, 250mL Plastic with HNO ₃ , 125mL Plastic, 250mL Plastic, 1L Plastic			
4	W-39-MW-6	MW-6	11/29/17	1400	11	W	X	X	X	X	X	X	5 vials with HCL, 2-1L Amber Glass, 250mL Plastic with HNO ₃ , 125mL Plastic, 250mL Plastic, 1L Plastic			
5	W-42-MW-17	MW-17	11/29/17	1408	11	W	X	X	X	X	X	X	5 vials with HCL, 2-1L Amber Glass, 250mL Plastic with HNO ₃ , 125mL Plastic, 250mL Plastic, 1L Plastic			
6	W-40-MW-26	MW-26	11/29/17	1511	11	W	X	X	X	X	X	X	5 vials with HCL, 2-1L Amber Glass, 250mL Plastic with HNO ₃ , 125mL Plastic, 250mL Plastic, 1L Plastic			
7	W-41-MW-19	MW-19	11/29/17	1604	11	W	X	X	X	X	X	X	5 vials with HCL, 2-1L Amber Glass, 250mL Plastic with HNO ₃ , 125mL Plastic, 250mL Plastic, 1L Plastic			
8					11	W	X	X	X	X	X	X	5 vials with HCL, 2-1L Amber Glass, 250mL Plastic with HNO ₃ , 125mL Plastic, 250mL Plastic, 1L Plastic			
9	Trip Blank	QCTB			3	W	X						3 vials with HCL			

Relinquished by (Signature) <i>Vincent Nguyen</i>	Received by (Signature) <i>FedEx</i>	Date & Time: 11/30/17
Relinquished by (Signature) <i>Vincent Nguyen</i>	Received by (Signature) <i>FedEx</i>	Date & Time: 11/30/17
Relinquished by (Signature) <i>Vincent Nguyen</i>	Received by (Signature) <i>FedEx</i>	Date & Time: 11/30/17

0000

ORIGIN ID:H0BA (949) 532-3228
VINCENT
CARDNO
25371 COMMERCECENTRE DR STE 250
LAKE FOREST, CA 92630
UNITED STATES US

SHIP DATE: 30NOV17
ACTWGT: 57.10 LB
CAD: 006994246/SSFE1822
DIMS: 22x17x14 IN
BILL THIRD PARTY

TO EUROFINS
EUROFINS
7440 LINCOLN WAY

GARDEN GROVE CA 92841

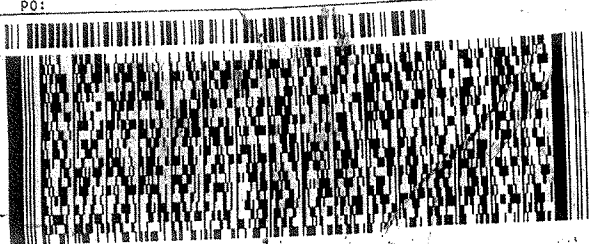
(714) 895-5494

REF:

DEPT:

INU:

PO:



JT2211709130104

1 of 2
TRK# 7886 9954 6862
0201
MASTER

A7 APVA

92841
CA-US SNA



ORIGIN ID:H0BA (949) 532-3228
VINCENT
CARDNO
25371 COMMERCECENTRE DR STE 250
LAKE FOREST, CA 92630
UNITED STATES US

SHIP DATE: 30NOV17
ACTWGT: 66.80 LB
CAD: 006994246/SSFE1822
DIMS: 22x17x14 IN
BILL THIRD PARTY

TO EUROFINS
EUROFINS
7440 LINCOLN WAY

GARDEN GROVE CA 92841

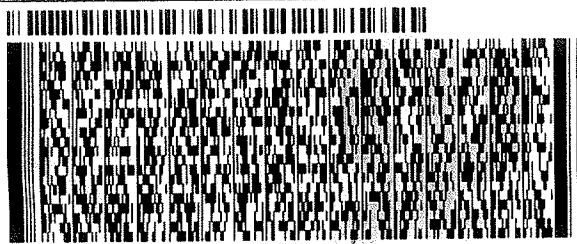
(714) 895-5494

REF:

DEPT:

INU:

PO:



AT1031602112412

2 of 2
MPS# 7886 9954 6873
0263
Mstr# 7886 9954 6862

A7 APVA

92841
CA-US SNA





Calscience

WORK ORDER NUMBER: 17-12-8006

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2CLIENT: CardnoDATE: 12/01/2017

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.4°C); Temperature (w/o CF): 2.2 °C (w/ CF): 1.8 °C; ☒ Blank ☐ Sample☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling☐ Sample(s) received at ambient temperature; placed on ice for transport by courierAmbient Temperature: ☐ Air ☐ FilterChecked by: IS

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: ISSample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 836

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples ☒ Yes ☐ No ☐ N/ACOC document(s) received complete ☒ Yes ☐ No ☐ N/A☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished timeSampler's name indicated on COC ☒ Yes ☐ No ☐ N/ASample container label(s) consistent with COC ☐ Yes ☒ No ☐ N/ASample container(s) intact and in good condition ☐ Yes ☒ No ☐ N/AProper containers for analyses requested ☒ Yes ☐ No ☐ N/ASufficient volume/mass for analyses requested ☒ Yes ☐ No ☐ N/ASamples received within holding time ☒ Yes ☐ No ☐ N/A

Aqueous samples for certain analyses received within 15-minute holding time

☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen ☐ Yes ☐ No ☒ N/AProper preservation chemical(s) noted on COC and/or sample container ☒ Yes ☐ No ☐ N/A

Unpreserved aqueous sample(s) received for certain analyses

☐ Volatile Organics ☐ Total Metals ☐ Dissolved MetalsAcid/base preserved samples - pH within acceptable range ☒ Yes ☐ No ☐ N/AContainer(s) for certain analysis free of headspace ☒ Yes ☐ No ☐ N/A☒ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)Tedlar™ bag(s) free of condensation ☐ Yes ☐ No ☒ N/A

CONTAINER TYPE:

(Trip Blank Lot Number: 1711/SA)Aqueous: ☐ VOA ☒ VOA_h ☐ VOA_{na2} ☐ 100PJ ☐ 100PJ_{na2} ☐ 125AGB ☐ 125AGB_h ☐ 125AGB_p ☒ 125PB ☐ 125PB_{znna} (pH 9)☐ 250AGB ☐ 250CGB ☐ 250CGB_s (pH 2) ☐ 250PB ☒ 250PB_n (pH 2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ_s (pH 2) ☐ 500PB☒ 1AGB ☒ 1AGB_{na2} ☐ 1AGB_s (pH 2) ☐ 1AGB_s (O&G) ☒ 1PB ☐ 1PB_{na} (pH 12) ☐ _____ ☐ _____ ☐ _____Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (____) ☐ EnCores® (____) ☐ TerraCores® (____) ☐ _____ ☐ _____ ☐ _____Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ Other Matrix (____): ☐ _____ ☐ _____ ☐ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 836s = H₂SO₄, u = ultra-pure, x = Na₂SO₃+NaHSO₄.H₂O, znna = Zn (CH₃CO₂)₂ + NaOHReviewed by: 836



Calscience

WORK ORDER NUMBER: 17-12-0006

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2CLIENT: CardnoDATE: 12/01/2017

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.4°C); Temperature (w/o CF): 2.0 °C (w/ CF): 1.6 °C; ☒ Blank ☐ Sample☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling☐ Sample(s) received at ambient temperature; placed on ice for transport by courierAmbient Temperature: ☐ Air ☐ FilterChecked by: IS

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: ISSample(s) ☐ Present and Intact ☐ Present but Not Intact ☒ Not Present ☐ N/A Checked by: 826

SAMPLE CONDITION:

Chain-of-Custody (COC) document(s) received with samples ☒ Yes ☐ No ☐ N/ACOC document(s) received complete ☒ Yes ☐ No ☐ N/A☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished timeSampler's name indicated on COC ☒ Yes ☐ No ☐ N/ASample container label(s) consistent with COC ☒ Yes ☐ No ☐ N/ASample container(s) intact and in good condition ☒ Yes ☐ No ☐ N/AProper containers for analyses requested ☒ Yes ☐ No ☐ N/ASufficient volume/mass for analyses requested ☒ Yes ☐ No ☐ N/ASamples received within holding time ☒ Yes ☐ No ☐ N/A

Aqueous samples for certain analyses received within 15-minute holding time

☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen ☐ Yes ☐ No ☒ N/AProper preservation chemical(s) noted on COC and/or sample container ☒ Yes ☐ No ☐ N/A

Unpreserved aqueous sample(s) received for certain analyses

☐ Volatile Organics ☐ Total Metals ☐ Dissolved MetalsAcid/base preserved samples - pH within acceptable range ☒ Yes ☐ No ☐ N/AContainer(s) for certain analysis free of headspace ☒ Yes ☐ No ☐ N/A☒ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)Tedlar™ bag(s) free of condensation ☐ Yes ☐ No ☒ N/A

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☒ VOAh ☐ VOAna₂ ☐ 100PJ ☐ 100PJna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☒ 125PB ☐ 125PBznna (pH__9)☐ 250AGB ☐ 250CGB ☐ 250CGBs (pH__2) ☐ 250PB ☒ 250PBn (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJs (pH__2) ☐ 500PB☒ 1AGB ☐ 1AGBna₂ ☐ 1AGBs (pH__2) ☐ 1AGBs (O&G) ☒ 1PB ☐ 1PBna (pH__12) ☐ _____ ☐ _____ ☐ _____Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (____) ☐ EnCores® (____) ☐ TerraCores® (____) ☐ _____ ☐ _____ ☐ _____Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ Other Matrix (____): ☐ _____ ☐ _____ ☐ _____

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 826s = H₂SO₄, u = ultra-pure, x = Na₂SO₃+NaHSO₄.H₂O, znna = Zn (CH₃CO₂)₂ + NaOHReviewed by: 826



eurofins

Calscience

Page 54 of 54
WORK ORDER NUMBER: 17-12-0006

SAMPLE ANOMALY REPORT

DATE: 12/01/2017

SAMPLES, CONTAINERS, AND LABELS:

- ☐ Sample(s) NOT RECEIVED but listed on COC
- ☐ Sample(s) received but NOT LISTED on COC
- ☐ Holding time expired (list client or ECI sample ID and analysis)
- ☐ Insufficient sample amount for requested analysis (list analysis)
- ☐ Improper container(s) used (list analysis)
- ☐ Improper preservative used (list analysis)
- ☐ pH outside acceptable range (list analysis)
- ☐ No preservative noted on COC or label (list analysis and notify lab)
- ☒ Sample container(s) not labeled
- ☐ Client sample label(s) illegible (list container type and analysis)
- ☐ Client sample label(s) do not match COC (comment)
- ☐ Project information
- ☐ Client sample ID
- ☐ Sampling date and/or time
- ☐ Number of container(s)
- ☐ Requested analysis
- ☒ Sample container(s) compromised (comment)
- ☒ Broken
- ☐ Water present in sample container
- ☐ Air sample container(s) compromised (comment)
- ☐ Flat
- ☐ Very low in volume
- ☐ Leaking (not transferred; duplicate bag submitted)
- ☐ Leaking (transferred into ECI Tedlar™ bags*)
- ☐ Leaking (transferred into client's Tedlar™ bags*)

* Transferred at client's request.

MISCELLANEOUS: (Describe)

HEADSPACE:

(Containers with bubble > 6 mm or ¼ inch for volatile organic or dissolved gas analysis)

ECI Sample ID	ECI Container ID	Total Number**	ECI Sample ID	ECI Container ID	Total Number**

Comments: _____

** Record the total number of containers (i.e., vials or bottles) for the affected sample.

Comments

(-5) All vials

(-7) 1 of 5-vials / hcl received broken.

Comments

(Containers with bubble for other analysis)

ECI Sample ID	ECI Container ID	Total Number**	Requested Analysis

Reported by: 836Reviewed by: 836

APPENDIX C

WASTE DISPOSAL DOCUMENTATION

ALAMO 1**BILL OF LADING 5934**

AR17-01343

GENERATOR

GENERATOR NAME AND ADDRESS

ExxonMobil Oil Corporation

c/o Cardno

25371 Commercentre Dr., Suite 250

PHONE NO. ()
Lake Forest, CA 92630

GENERATOR'S US EPA ID NO.

GENERATOR LOCATION/ADDRESS

Gladiola Station

Copeland Road 3 Miles North of the Intersection
of Copeland Road & Hwy 380PHONE NO. ()
Tatum, NM

STATE GENERATOR'S ID:

DESCRIPTION OF WASTE	WASTE CODE	QUANTITY	UNITS	CONTAINERS	
				NO.	TYPE
Water		1 drum 55 gal	55 gal	1	DM

GENERATOR AUTHORIZED AGENT NAME

Vincent Nguyen

SIGNATURE

X Vint Nguyen

SHIPMENT DATE

11/29/17

TRANSPORTER

TRUCK NO.

PHONE NO.

TRANSPORTER'S NAME

Alamo 1

DRIVER'S NAME (PRINT)

Yancey Isidro

800-322-5085

ADDRESS

12400 San Pedro Ave. Suite 200

VEHICLE LICENSE NO./STATE

San Antonio, TX 78216

VEHICLE CERTIFICATION

US EPA ID NO.

TXD000060442

STATE TRANSPORTER'S ID:

87517

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED
UP AT THE GENERATOR SITE LISTED ABOVE.I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIV-
ERED WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.

DRIVER SIGNATURE

SHIPMENT DATE

DRIVER SIGNATURE

SHIPMENT DATE

DESTINATION

SITE NAME

Sundance Services, Inc.

PHONE

575-390-0342

ADDRESS

5 Miles East of Eunice, NM on Sundance Road
(off Wallah Rd. near Intersection of Hwy 18 & Hwy 234)

Eunice, NM

US EPA ID NO.

STATE FACILITIES ID:

I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED AND TO THE BEST OF MY KNOWLEDGE THE FOREGOING IS TRUE AND ACCURATE.

NAME OF AUTHORIZED AGENT

SIGNATURE

RECEIPT DATE

11.30.17

WHITE - GENERATOR'S SECOND COPY

YELLOW - FACILITY

PINK - TRANSPORTER

GOLD - GENERATOR'S FIRST COPY

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 409543

CONDITIONS

Operator: EXXON MOBIL CORPORATION P.O. Box 4358 Houston, TX 77210	OGRID: 7673
	Action Number: 409543
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Third and Fourth Quarter 2017 Semi-Annual Groundwater Monitoring Report has been accepted for the record; App ID: 409543	12/16/2024