



received 09/09/2016
REM 9419
Spill 442687
Document 2526893

July 26, 2016

Mr. Jacob Evans
Noble Energy, Inc.
1600 Broadway, Suite 2200
Denver, Colorado 80202

**RE: Groundwater Monitoring Report and No Further Action Recommendation
Bernhardt #18-32
Produced Water Release
40.306653 / -104.829028
NW¼ SW¼ SEC.18 T4N R66W 6PM
Weld County, Colorado
API # 05-123-20081
Remediation # 9419**

Dear Mr. Evans,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present this Groundwater Monitoring Report and No Further Action Recommendation for the above referenced site.

1.0 SITE BACKGROUND

The Bernhardt #18-32 site is located within the northwest quarter of the southwest quarter of Section 18, Township 4 north, Range 66 west of the 6th Prime Meridian. The removed water vault was located at latitude: 40.306653 and longitude: -104.829028. A topographic site location map is presented as Figure 1. An aerial site location map is presented in Figure 2.

EAGLE was requested by Noble Energy, Inc. (Noble) to perform subsurface assessment activities at the site in response to potential soil and groundwater impacts associated with a water vault removal at the Bernhardt #18-32 tank battery (site). On July 29, 2015, EAGLE collected soil sample SS-02@2.5 and groundwater sample GW-01 following removal of the associated water vault.

Based on laboratory analytical results, soil sample SS-02@2.5' did not contain concentrations of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, or total petroleum hydrocarbons (TPH) exceeding applicable Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 regulatory limits. The groundwater sample collected from the base of the water vault removal excavation contained concentrations of benzene (599 micrograms per liter (µg/L)) and toluene (864 µg/L) exceeding applicable COGCC Table 910-1 regulatory limits (5 µg/L and 560 µg/L, respectively), requiring additional assessment at the site.

To confirm soil impacts were not present on the remaining walls of the removed water vault location, and to assess dissolved BTEX impacts associated with the produced water release, a total of nine soil borings (SB-01 through SB-03, and MW-01 through MW-06) were advanced around the produced water release area and water vault removal excavation. Based on laboratory analytical results, the soil samples collected from SB-01 through SB-03, as well as SS-02@2.5', indicate the assumed source area was removed during decommissioning/excavation activities. Soil analytical results are summarized in Table 1 and presented in Figure 3.

On August 6, 2015, six soil borings (MW-01 through MW-06) were advanced around the produced water release area. Each soil boring was completed as a 1-inch, groundwater monitoring well to define the extents of dissolved petroleum hydrocarbon impacts beneath the site. Soil boring advancement/monitoring well installation activities were completed by EAGLE using a 7822DT Series Geoprobe track rig. Monitoring well locations are presented in Figure 4. EAGLE began quarterly groundwater monitoring activities at the site in August 2015.

1.1 Site Hydrogeology

The soil lithology observed beneath the release location consists of soft, sandy clay from the surface to approximately 3 feet below ground surface (bgs), underlain by a loose, gravelly sand from approximately 3 feet bgs to 10 feet bgs. Depth to groundwater was observed during initial assessment activities at 4.5 feet bgs. Depth to groundwater was observed during groundwater sampling activities ranging from approximately four to five feet bgs. A detailed description of the subsurface lithology beneath the site is presented within the boring logs included in Attachment A.

2.0 GROUNDWATER MONITORING ACTIVITIES

2.1 Groundwater Sampling Procedures

EAGLE developed newly installed monitoring wells the day of the installation. Prior to groundwater sample collection, MW-01 through MW-06 were purged six well volumes with a disposable poly vinyl chloride (PVC) bailer. Following recharge, groundwater samples were collected in 40 milliliter (mL) amber vials. Prior to groundwater sample collection, initial depth to groundwater was recorded to aid in groundwater flow elevation and direction calculations/determinations.

Groundwater samples were submitted to Origins Laboratory, Inc. (Origins) located in Denver, Colorado, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) following Environmental Protection Agency (EPA) Method 8260C. The groundwater samples were delivered to Origins under proposed chain-of-custody procedures for shipment to the laboratory, and the samples were received within quality assurance/quality control (QA/QC) parameters.

2.2 Summary of Groundwater Sampling Activities

Quarterly groundwater sampling activities began on the site in August 2015 and continued for four consecutive quarters, through May 2016. Dissolved BTEX concentrations have been observed below COGCC Table 910-1 regulatory limits in all monitoring wells (MW-01 thorough MW-06) since monitoring well installation.

2.3 2nd Quarter 2016 Groundwater Sampling Activities

On May 17, 2016, EAGLE completed quarterly groundwater sampling activities at the site. Groundwater samples were collected from monitoring wells MW-01 through MW-06. Prior to groundwater sample collection, depth to groundwater data was collected using a decontaminated interface probe capable of measuring the depth to groundwater or light non aqueous phase liquid (LNAPL) to an accuracy of 0.01 feet.

Relative groundwater elevations within each monitoring well ranged from 97.37 feet (MW-02) to 97.44 feet (MW-05 & MW-06). Groundwater flow direction beneath the site during the May 2016 sampling

event was predominantly to the northwest with an average hydraulic gradient of 0.0013 feet per foot across the site (measured from MW-05 to MW-02). Groundwater elevations across the site increased an average of 2.36 feet compared to February 2016 groundwater elevations.

2.4 2nd Quarter 2016 Groundwater Analytical Results

Based on laboratory analytical results, the groundwater samples collected from monitoring wells MW-01 through MW-06 did not contain concentrations of BTEX exceeding applicable COGCC Table 910-1 regulatory limits or laboratory reporting limits. Dissolved BTEX concentrations have not been observed exceeding COGCC Table 910-1 regulatory limits since monitoring well installation (3rd quarter 2015 to 2nd quarter 2016).

Groundwater analytical results for the May 17, 2016 groundwater sampling event are presented in Figure 5 and summarized in Table 2. Groundwater elevation data is summarized in Table 3, and groundwater elevations and flow direction is included in Figure 6. Laboratory analytical results from the last four quarters of groundwater sampling activities are included in Attachment B.

3.0 CONCLUSIONS

Based on the information presented in this report, EAGLE concludes the following:

- Soil sample SS-02@2.5', collected following removal of the water vault associated with the Bernhardt #18-32 well on July 29, 2015, did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits and/or laboratory reporting limits.
- Grab groundwater sample, GW-01, collected from the base of the water vault excavation on July 29, 2015, contained concentrations of benzene and toluene exceeding applicable COGCC Table 910-1 regulatory limits.
- Confirmation soil samples collected from soil borings SB-01 through SB-03 on August 6, 2015 adjacent to the Bernhardt #18-32 excavation, did not contain concentrations of BTEX, naphthalene, or TPH exceeding their respective COGCC Table 910-1 regulatory limits and/or laboratory reporting limits.
- On August 6, 2015, EAGLE installed six (6) groundwater monitoring wells (MW-01 through MW-06) at the site.
- Groundwater samples collected from monitoring wells MW-01 through MW-06 have not contained concentrations of BTEX exceeding applicable COGCC Table 910-1 regulatory limits or laboratory reporting limits for four (4) consecutive quarters (3rd quarter 2015 through 2nd quarter 2016).

4.0 RECOMMENDATIONS

Based on the information presented in this report, EAGLE recommends the following:

- No further action appears warranted for the Bernhardt #18-32 produced water release at this time.

EAGLE sincerely appreciates the opportunity to provide our services. If you have any questions or require further information, please contact us at (303) 433-0479.

Sincerely,

EAGLE ENVIRONMENTAL CONSULTING, INC.



Andrew Newberry
Project Geologist



Robin Lockwood
Project Scientist

FIGURES

Figure 1: Topographic Site Location Map

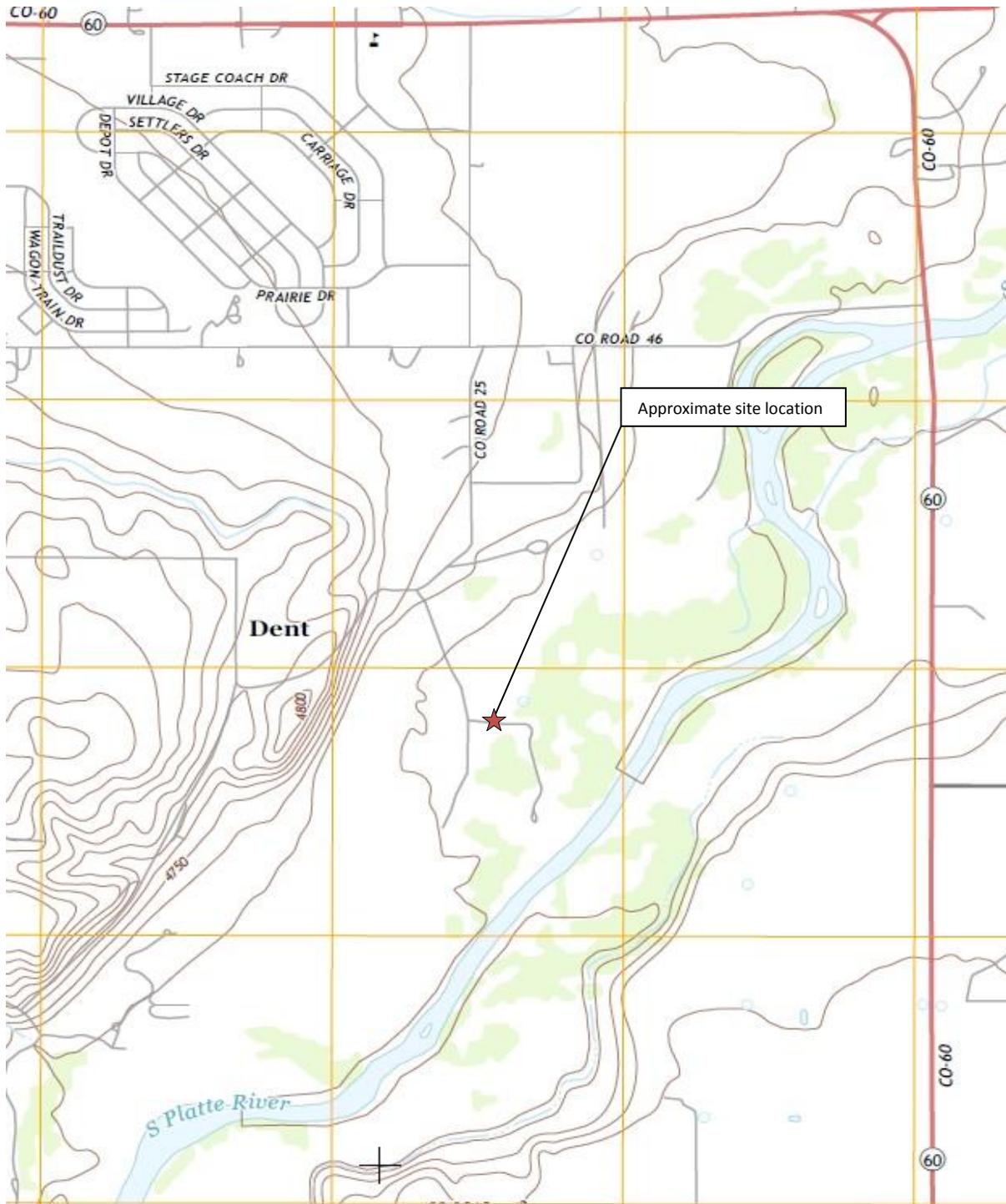
Figure 2: Aerial Site Location Map

Figure 3: Soil Sample Analytical Map

Figure 4: Monitoring Well Soil Sample Analytical Map

Figure 5: Groundwater Analytical Map

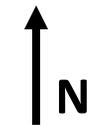
Figure 6: Groundwater Elevation Map



Topographic Site Location Map
 Bernhardt #18-32
 Produced Water Release
 40.306653/-104.829028
 NW¼ SW¼ SEC.18 T4N R66W 6PM
 Weld County, Colorado
 API # 05-123-20081

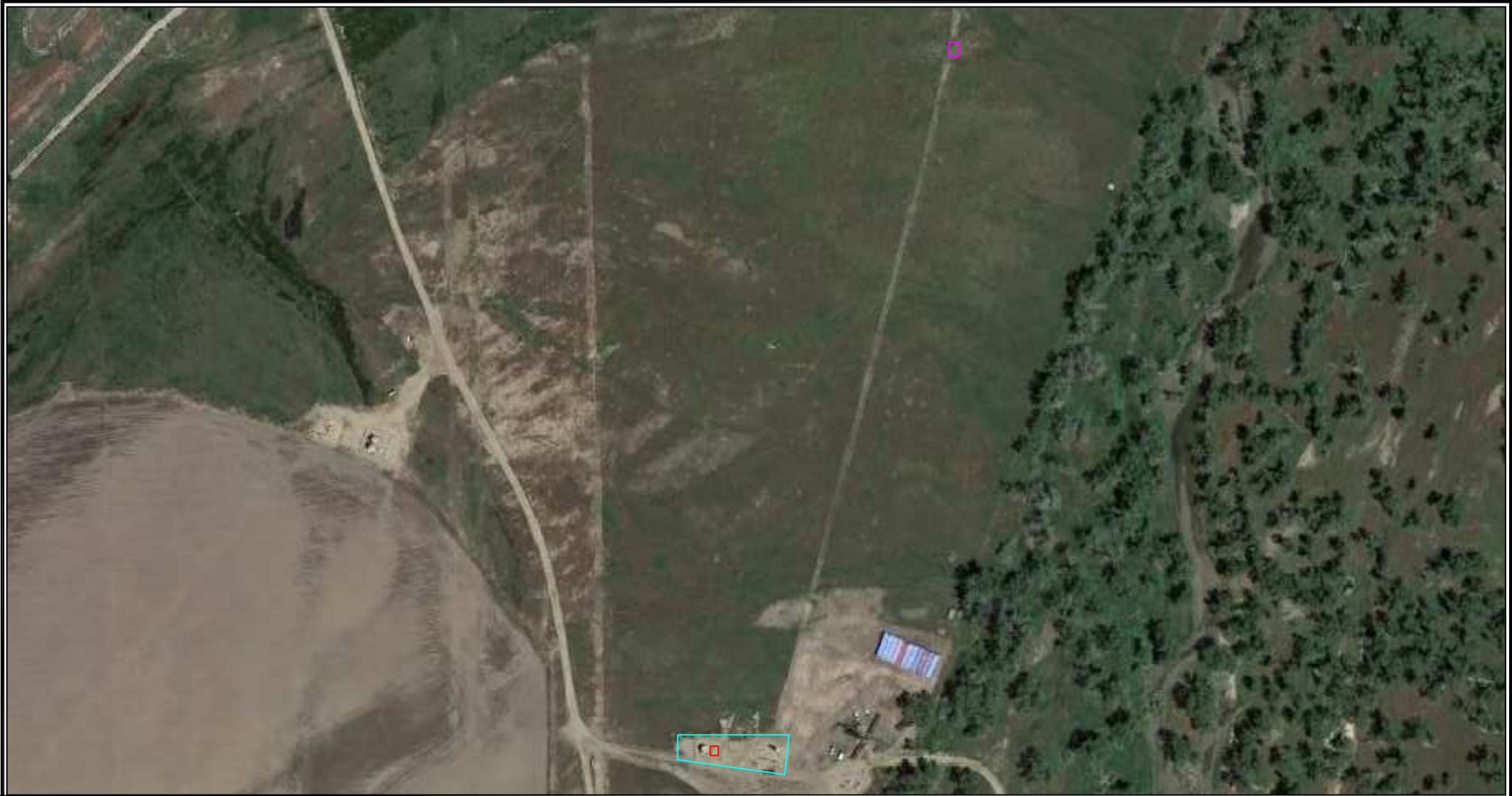


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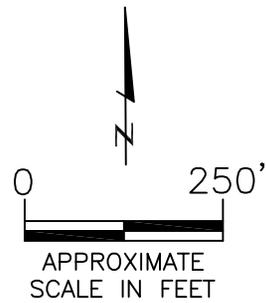
Source: USGS 7.5 Minute Topographic Map, Milliken, CO Quadrangle 2013

Figure 1



LEGEND

- BERNHARDT #18-32 TANK BATTERY
- BERNHARDT #18-32 WELL PAD (40.310156 / -104.8274)
- APPROXIMATE LOCATION OF WATER VAULT REMOVAL/EXCAVATION



AERIAL SITE LOCATION MAP
 BERNHARDT #18-32
 PRODUCED WATER RELEASE
 40.306653 / -104.829028
 NW1/4 SW1/4 SEC.18 T4N R66W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-20081

DATE:
07/29/15

FIG. NO. 2	DRAWN BY: AMN
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EAGLE

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CONSULTING, INC.

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SB-01@2.5-3'
08/06/15
2.5-3'
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.007
G = <0.200
D = <50.0

SB-02@2.5-3'
08/06/15
2.5-3'
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.007
G = <0.200
D = <50.0

SB-03@2.5-3'
08/06/15
2.5-3'
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.007
G = <0.200
D = <50.0

SS-02@2.5'
07/29/15
2.5'
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.007
G = <0.200
D = <50.0

LEGEND

- APPROXIMATE EXCAVATION BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- SB-01 APPROXIMATE SOIL BORING LOCATION

PARAMETERS

SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B	= BENZENE (mg/kg)
T	= TOLUENE (mg/kg)
E	= ETHYLBENZENE (mg/kg)
X	= TOTAL XYLENES (mg/kg)
N	= NAPHTHALENE (mg/kg)
G	= TPH-GRO (mg/kg)
D	= TPH-DRO (mg/kg)

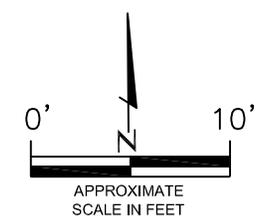
mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

NOTE: AERIAL IS NOT REPRESENTATIVE OF CURRENT INFRASTRUCTURE AND TOPOGRAPHY. SITE WAS UNDER DECOMMISSIONING DURING TIME OF ASSESSMENT.



SOIL SAMPLE ANALYTICAL MAP
BERNHARDT #18-32
PRODUCED WATER RELEASE
40.306653/-104.829028
NW1/4 SW1/4 SEC.18 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-20081

DATE:	08/18/15
FIG. NO.	3
DRAWN BY:	arn

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LEGEND

- APPROXIMATE EXCAVATION BOUNDARIES
- APPROXIMATE MONITORING WELL LOCATION

PARAMETERS

SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B =	BENZENE (mg/kg)
T =	TOLUENE (mg/kg)
E =	ETHYLBENZENE (mg/kg)
X =	TOTAL XYLENES (mg/kg)
N =	NAPHTHALENE (mg/kg)
G =	TPH-GRO (mg/kg)
D =	TPH-DRO (mg/kg)

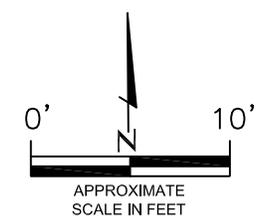
mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

NOTE: AERIAL IS NOT REPRESENTATIVE OF CURRENT INFRASTRUCTURE AND TOPOGRAPHY. SITE WAS UNDER DECOMMISSIONING DURING TIME OF ASSESSMENT.



MONITORING WELL SOIL ANALYTICAL MAP
BERNHARDT #18-32
PRODUCED WATER RELEASE
40.306653/-104.829028
NW1/4 SW1/4 SEC.18 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-20081

DATE:	07/13/16
FIG. NO.	4
DRAWN BY:	amn

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MW-02
05/17/16
B = <1.0
T = <1.0
E = <1.0
X = <1.0

GW-01
07/29/15
B = **599**
T = **864**
E = 25.3
X = 500

MW-01
05/17/16
B = <1.0
T = <1.0
E = <1.0
X = <1.0

MW-06
05/17/16
B = <1.0
T = <1.0
E = <1.0
X = <1.0

MW-03
05/17/16
B = <1.0
T = <1.0
E = <1.0
X = <1.0

MW-05
05/17/16
B = <1.0
T = <1.0
E = <1.0
X = <1.0

MW-04
05/17/16
B = <1.0
T = <1.0
E = <1.0
X = <1.0

LEGEND

- APPROXIMATE EXCAVATION BOUNDARIES
- APPROXIMATE MONITORING WELL LOCATION
- APPROXIMATE LOCATION OF GROUNDWATER SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

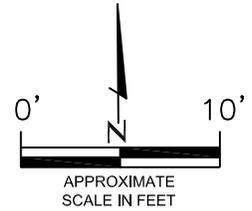
SAMPLE LOCATION
DATE
B = BENZENE (ug/l)
T = TOLUENE (ug/l)
E = ETHYLBENZENE (ug/l)
X = TOTAL XYLENES (ug/l)

ug/l = MICROGRAMS PER LITER
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 910-1 REGULATORY LIMITS FOR THAT COMPOUND

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

NOTE: AERIAL IS NOT REPRESENTATIVE OF CURRENT INFRASTRUCTURE AND TOPOGRAPHY. SITE WAS UNDER DECOMMISSIONING DURING TIME OF ASSESSMENT.



GROUNDWATER ANALYTICAL MAP
BERNHARDT #18-32
PRODUCED WATER RELEASE
40.306653/-104.829028
NW1/4 SW1/4 SEC.18 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-20081

DATE:	07/13/16
FIG. NO.	5
DRAWN BY:	amn

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Ph: 303-433-0479 • F: 303-325-5449



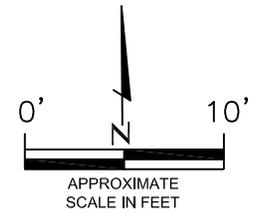
LEGEND

- APPROXIMATE EXCAVATION BOUNDARIES
- APPROXIMATE MONITORING WELL LOCATION
- (4748.25) GROUNDWATER ELEVATION (FT.)
- INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE: GROUNDWATER ELEVATION DATA COLLECTED ON MAY 17, 2016 FROM ALL MONITORING WELLS.

NOTE: AERIAL IS NOT REPRESENTATIVE OF CURRENT INFRASTRUCTURE AND TOPOGRAPHY. SITE WAS UNDER DECOMMISSIONING DURING TIME OF ASSESSMENT.



GROUNDWATER ELEVATION MAP
 BERNHARDT #18-32
 PRODUCED WATER RELEASE
 40.306653/-104.829028
 NW1/4 SW1/4 SEC.18 T4N R66W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-20081

DATE:	07/13/16
FIG. NO.	DRAWN BY:
6	amn



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TABLES

Table 1: Soil Analytical Results Summary

Table 2: Groundwater Analytical Results Summary

Table 3: Groundwater Elevation Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
BERNHARDT #18-32
PRODUCED WATER RELEASE
40.306653 / -104.829028
NW¼ SW¼ SEC.18 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-20081

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		<4	6 to 9	<12[^]5
SS-02 @ 2.5' (40.306639 / -104.829032)	07/29/15	2.5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	0.0435	8.52	0.04
SB-01 @ 2.5-3' (40.306655 / -104.829050)	08/06/15	2.5-3	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
SB-02 @ 2.5-3' (40.306664 / -104.829025)	08/06/15	2.5-3	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
SB-03 @ 2.5-3' (40.306647 / -104.829011)	08/06/15	2.5-3	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
MW-01 @ 2.5-5' (40.306650 / -104.829028)	08/06/15	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
MW-02 @ 2.5-5' (40.306719 / -104.829030)	08/06/15	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
MW-03 @ 2.5-5' (40.306647 / -104.828922)	08/06/15	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
MW-04 @ 2.5-5' (40.306586 / -104.828960)	08/06/15	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
MW-05 @ 2.5-5' (40.306589 / -104.829109)	08/06/15	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
MW-06 @ 2.5-5' (40.306663 / -104.829133)	08/06/15	2.5-5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

mmhos/cm = millimhos per centimeter

NA = Not Analyzed

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

SAR = Sodium Adsorption Ratio

Note: Values presented with a less than symbol (<) did not contain concentrations at or above laboratory detection limits.



TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
BERNHARDT #18-32
PRODUCED WATER RELEASE
40.306653 / -104.829028
NW¼ SW¼ SEC.18 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-20081

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Regulatory Limits (µg/L)		5	560	700	1400
GW-01 (40.306651 / -104.829027)	07/29/15	599	864	25.3	500
MW-01 (40.306650 / -104.829028)	08/13/15	<1.0	<1.0	<1.0	<1.0
	11/02/15	<1.0	<1.0	<1.0	<1.0
	02/09/16	<1.0	<1.0	<1.0	<1.0
	05/17/16	<1.0	<1.0	<1.0	<1.0
MW-02 (40.306719 / -104.829030)	08/13/15	<1.0	<1.0	<1.0	<1.0
	11/02/15	<1.0	<1.0	<1.0	<1.0
	02/09/16	<1.0	<1.0	<1.0	<1.0
	05/17/16	<1.0	<1.0	<1.0	<1.0
MW-03 (40.306647 / -104.828922)	08/13/15	<1.0	<1.0	<1.0	<1.0
	11/02/15	<1.0	<1.0	<1.0	<1.0
	02/09/16	<1.0	<1.0	<1.0	<1.0
	05/17/16	<1.0	<1.0	<1.0	<1.0
MW-04 (40.306586 / -104.828960)	08/13/15	<1.0	<1.0	<1.0	<1.0
	11/02/15	<1.0	<1.0	<1.0	<1.0
	02/09/16	<1.0	<1.0	<1.0	<1.0
	05/17/16	<1.0	<1.0	<1.0	<1.0
MW-05 (40.306589 / -104.829109)	08/13/15	<1.0	<1.0	<1.0	<1.0
	11/02/15	<1.0	<1.0	<1.0	<1.0
	02/09/16	<1.0	<1.0	<1.0	<1.0
	05/17/16	<1.0	<1.0	<1.0	<1.0
MW-06 (40.306663 / -104.829133)	08/13/15	<1.0	<1.0	<1.0	<1.0
	11/02/15	<1.0	<1.0	<1.0	<1.0
	02/09/16	<1.0	<1.0	<1.0	<1.0
	05/17/16	<1.0	<1.0	<1.0	<1.0
COGCC = Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit. Values presented in bold typeface exceed their respective COGCC - Regulatory Limits (Table 910-1).					



**TABLE 3
GROUNDWATER ELEVATION SUMMARY
BERNHARDT #18-32
PRODUCED WATER RELEASE
40.306653 / -104.829028
NW¼ SW¼ SEC.18 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-20081**

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)
MW-01 (40.306650 / -104.829028)	08/13/15	100.00	5.06	94.94
	11/02/15		5.10	94.90
	02/09/16		4.74	95.26
	05/17/17		2.60	97.40
MW-02 (40.306719 / -104.829030)	08/13/15	99.75	4.63	95.12
	11/02/15		4.87	94.88
	02/09/16		4.70	95.05
	05/17/16		2.38	97.37
MW-03 (40.306647 / -104.828922)	08/13/15	99.67	4.60	95.07
	11/02/15		4.80	94.87
	02/09/16		4.63	95.04
	05/17/16		2.29	97.38
MW-04 (40.306586 / -104.828960)	08/13/15	99.93	4.11	95.82
	11/02/15		5.02	94.91
	02/09/16		4.84	95.09
	05/17/16		2.52	97.41
MW-05 (40.306589 / -104.829109)	08/13/15	99.73	4.67	95.06
	11/02/15		4.79	94.94
	02/09/16		4.63	95.10
	05/17/16		2.29	97.44
MW-06 (40.306663 / -104.829133)	08/13/15	99.70	4.56	95.14
	11/02/15		4.77	94.93
	02/09/16		4.95	94.75
	05/17/16		2.26	97.44
NOTES:				



ATTACHMENT A

Boring Logs and Monitoring Well Completion Diagrams

Boring Log/Well Completion Diagram: MW-01

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-4') sandy CLAY - dark brown, moist, soft, moderate to high plasticity, poorly graded with 15-20% medium to coarse grained sand N/O N/S	CL	GP	1	60	2.2	N/A		Wet @ 5'	
5	(4-10') gravelly SAND - light brown, moist to wet, loose, medium to coarse grained, poorly graded with 20% gravel N/O N/S	SP	GP	2	20	3.8				5
10	BoB @ 10'						10			
15							15			
20							20			
25							25			
30							30			

HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 08/06/2015		SAND PACK INTERVAL (FEET): 1-10	
PROJECT: BERNHARDT #18-32		BENTONITE/GROUT INTERVAL (FEET): 0.5-1	
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): 2-10	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 2000 - PID #5			
TIME STARTED/COMPLETED: 1325/1400			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1340			

Boring Log/Well Completion Diagram: MW-02

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG TYPE	NUMBER	RECOVERY %						
0	(0-3') sandy CLAY - dark brown, moist, soft, moderate to high plasticity, poorly graded with 20% medium to coarse grained sand N/O N/S	CL	GP 1	70	1.5	N/A	5		Wet @ 5'	
5	(3-10') gravelly SAND - light brown, moist to wet, loose, medium to coarse grained, poorly graded with 15% gravel N/O N/S	SP	GP 2	30	2.3					5-10' - Limited recovery
10	BoB @ 10'									
15										
20										
25										
30										

HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 08/06/2015		SAND PACK INTERVAL (FEET): 1-10	
PROJECT: BERNHARDT #18-32		BENTONITE/GROUT INTERVAL (FEET): 0.5-1	
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): 2-10	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449	
PID INSTRUMENT: MiniRAE 2000 - PID #5			
TIME STARTED/COMPLETED: 1105/1140			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5/1120			

Boring Log/Well Completion Diagram: MW-03

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG TYPE	NUMBER	RECOVERY %						
0	(0-3.5') sandy CLAY - dark brown, moist, soft, high plasticity, poorly graded with 10% medium to coarse grained sand N/O N/S	CL	GP 1	70	1.0	N/A	5		Wet @ 5'	
5	(3.5-10') gravelly SAND - light brown, moist to wet, loose, medium to coarse grained, poorly graded with 20% gravel N/O N/S	SP	GP 2	30	0.8					N/A
10	BoB @ 10'									
15										
20										
25										
30									HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface	

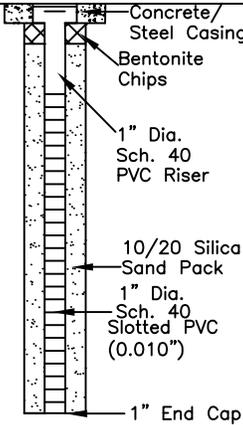
START/COMPLETION DATE: 08/06/2015		SAND PACK INTERVAL (FEET): 1-10	
PROJECT: BERNHARDT #18-32		BENTONITE/GROUT INTERVAL (FEET): 0.5-1	
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): 2-10	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> <p>4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 2000 - PID #5			
TIME STARTED/COMPLETED: 1200/1240			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5'/1215			

Boring Log/Well Completion Diagram: MW-04

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG TYPE	NUMBER	RECOVERY %						
0	(0-3.5') gravelly sandy CLAY - dark brown, moist, moderately stiff, moderate plasticity, poorly graded with 20% medium to coarse grained sand N/O N/S	CL	GP 1	75	0.7	N/A	5		Wet @ 5'	
5	(3.5-10') gravelly SAND - light brown, moist to wet, loose, medium to coarse grained, poorly graded with 15-20% gravel N/O N/S	SP	GP 2	30	1.1					N/A
10	BoB @ 10'									
15										
20										
25										
30									HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface	

START/COMPLETION DATE: 08/06/2015		SAND PACK INTERVAL (FEET): 1-10	
PROJECT: BERNHARDT #18-32		BENTONITE/GROUT INTERVAL (FEET): 0.5-1	
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): 2-10	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> <p>4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 2000 - PID #5			
TIME STARTED/COMPLETED: 1245/1320			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5'/1300			

Boring Log/Well Completion Diagram: MW-05

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG TYPE	NUMBER	RECOVERY %						
0	(0-3') gravelly sandy CLAY - dark brown, moist, soft, moderate to high plasticity, poorly graded with 25% medium to coarse grained sand and 15% gravel N/O N/S	CL	GP 1	75	8.2	N/A	5	 <p>Concrete/Steel Casing Bentonite Chips 1" Dia. Sch. 40 PVC Riser 10/20 Silica Sand Pack 1" Dia. Sch. 40 Slotted PVC (0.010") 1" End Cap</p>	Wet @ 5-5.5'	
5	(3-10') gravelly SAND - light brown, moist to wet, loose, medium to coarse grained, poorly graded with 20% gravel N/O N/S	SP	GP 2	30	10.1					
10	BoB @ 10'				0.8	N/A	10		5-10' - Limited recovery	
15							15			
20							20			
25							25			
30							30		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface	

START/COMPLETION DATE: 08/06/2015		SAND PACK INTERVAL (FEET): 1-10	
PROJECT: BERNHARDT #18-32		BENTONITE/GROUT INTERVAL (FEET): 0.5-1	
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): 2-10	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 2000 - PID #5			
TIME STARTED/COMPLETED: 940/1015			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5'/955			

Boring Log/Well Completion Diagram: MW-06

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG TYPE	NUMBER	RECOVERY %						
0	(0-3.5') sandy CLAY - dark brown, moist, soft, moderate to high plasticity, poorly graded with 20% medium to coarse grained sand N/O N/S	CL	GP 1	75	2.2	N/A	5		Wet @ 5'	
5	(3.5-10') gravelly SAND - light brown, moist to wet, loose, medium to coarse grained, poorly graded with 20% gravel N/O N/S	SP	GP 2	30	2.7					5-10' - Limited recovery
10	BoB @ 10'									
15										
20										
25										
30									HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface	

START/COMPLETION DATE: 08/06/2015		SAND PACK INTERVAL (FEET): 1-10	
PROJECT: BERNHARDT #18-32		BENTONITE/GROUT INTERVAL (FEET): 0.5-1	
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): 2-10	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): 10	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p> <p>4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 2000 - PID #5			
TIME STARTED/COMPLETED: 1020/1100			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-5'/1040			

Boring Log/Well Completion Diagram: SB-01

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG TYPE	NUMBER	RECOVERY %						
0	(0-3') sandy CLAY - dark brown, moist, soft, moderate to high plasticity, poorly graded with 15% medium to coarse grained sand N/O N/S	CL	GP	1	60	1.4	N/A			
						1.8				
	(3-5') gravelly SAND - light brown, moist to wet, loose, medium to coarse grained, poorly graded with 20% gravel, N/O N/S	SP			0.4					
5	BoB @ 5'									
10										
15										
20										
25										
30										

HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 08/06/2015		SAND PACK INTERVAL (FEET): N/A	
PROJECT: BERNHARDT #18-32		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 2000 - PID #5			
TIME STARTED/COMPLETED: 1425/1435			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-3'/1430			

Boring Log/Well Completion Diagram: SB-02

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG TYPE	NUMBER	RECOVERY %						
0	(0-3.5') sandy CLAY - dark brown, moist, soft, moderate to high plasticity, poorly graded with 20% medium to coarse grained sand N/O N/S	CL	GP	1	50	0.1	N/A			
					0.6					
5	(3.5-5') gravelly SAND - light brown, moist to wet, loose, medium to coarse grained, poorly graded with 15-20% gravel, N/O N/S	SP			0.4					
	BoB @ 5'									

HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 08/06/2015		SAND PACK INTERVAL (FEET): N/A
PROJECT: BERNHARDT #18-32		BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY		WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>
PID INSTRUMENT: MiniRAE 2000 - PID #5		
TIME STARTED/COMPLETED: 1420/1425		
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-3'/1425		

Boring Log/Well Completion Diagram: SB-03

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG TYPE	NUMBER	RECOVERY %						
0	(0-3') sandy CLAY - dark brown, moist, soft, moderate to high plasticity, poorly graded with 20% medium to coarse grained sand N/O N/S	CL	GP	1	60	2.4	N/A			
						2.1				
5	(3-5') gravelly SAND - light brown, moist-wet, loose, medium to coarse grained, poorly graded with 15-20% gravel, N/O N/S	SP				1.6				
5	BoB @ 5'									
10										
15										
20										
25										
30										

HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 08/06/2015	SAND PACK INTERVAL (FEET): N/A
PROJECT: BERNHARDT #18-32	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: A. ROMANSKY	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 5	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 2000 - PID #5	 <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>
TIME STARTED/COMPLETED: 1410/1420	
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5-3'/1415	

ATTACHMENT B

Laboratory Analytical Reports



August 17, 2015

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Bernhardt #18-32

Project Number - [none]

Attached are your analytical results for Noble - Bernhardt #18-32 received by Origins Laboratory, Inc. August 13, 2015. This project is associated with Origins project number X508164-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	X508164-01	Water	August 13, 2015 16:15	08/13/2015 17:50
MW-02	X508164-02	Water	August 13, 2015 15:30	08/13/2015 17:50
MW-03	X508164-03	Water	August 13, 2015 15:20	08/13/2015 17:50
MW-04	X508164-04	Water	August 13, 2015 15:05	08/13/2015 17:50
MW-05	X508164-05	Water	August 13, 2015 16:00	08/13/2015 17:50
MW-06	X508164-06	Water	August 13, 2015 15:45	08/13/2015 17:50

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: XSC08164

Client: Eagle
 Client Project ID: Bernhardt 18-32

Checklist Completed by: KRUSH
 Date/time completed: 8.13.15 @ 1755

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 4.4 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/ (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			HCC
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

[Signature]
 Reviewed by (Project Manager)

8/14/15
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-01
8/13/2015 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508164-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5H14008	08/14/2015	08/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-02
8/13/2015 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X508164-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5H14008	08/14/2015	08/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-03
8/13/2015 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X508164-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5H14008	08/14/2015	08/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-04
8/13/2015 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508164-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5H14008	08/14/2015	08/14/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	95.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-05
8/13/2015 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508164-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5H14008	08/14/2015	08/15/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-06
8/13/2015 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X508164-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	5H14008	08/14/2015	08/15/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	94.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5H14008 - EPA 5030B (Water)

Blank (5H14008-BLK1)

Prepared: 08/14/2015 Analyzed: 08/14/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	97.9		84-121			
Surrogate: Toluene-d8	64		"	62.5	102		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.0		84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5H14008 - EPA 5030B (Water)

LCS (5H14008-BS1)

Prepared: 08/14/2015 Analyzed: 08/14/2015

Benzene	47.2	1.0	ug/L	50.0		94.5	75-126			
Toluene	48.1	1.0	"	50.0		96.3	78.7-126			
Ethylbenzene	46.3	1.0	"	50.0		92.7	80-130			
m,p-Xylene	91.4	2.0	"	100		91.4	77.2-133			
o-Xylene	45.8	1.0	"	50.0		91.6	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5H14008 - EPA 5030B (Water)

Matrix Spike (5H14008-MS1)	Source: X508160-01			Prepared: 08/14/2015 Analyzed: 08/14/2015						
Benzene	51.0	1.0	ug/L	50.0	ND	102	74-130			
Toluene	52.2	1.0	"	50.0	ND	104	73-131			
Ethylbenzene	50.0	1.0	"	50.0	ND	100	76-132			
m,p-Xylene	96.4	2.0	"	100	ND	96.4	69-139			
o-Xylene	48.2	1.0	"	50.0	ND	96.5	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.7	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.7	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5H14008 - EPA 5030B (Water)

Matrix Spike Dup (5H14008-MSD1)	Source: X508160-01			Prepared: 08/14/2015 Analyzed: 08/14/2015						
Benzene	51.1	1.0	ug/L	50.0	ND	102	74-130	0.0783	20	
Toluene	52.9	1.0	"	50.0	ND	106	73-131	1.45	20	
Ethylbenzene	51.1	1.0	"	50.0	ND	102	76-132	2.08	20	
m,p-Xylene	98.6	2.0	"	100	ND	98.6	69-139	2.22	20	
o-Xylene	49.7	1.0	"	50.0	ND	99.3	74-131	2.90	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.9	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



November 06, 2015

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Bernhardt #18-32

Project Number - [none]

Attached are your analytical results for Noble - Bernhardt #18-32 received by Origins Laboratory, Inc. November 02, 2015. This project is associated with Origins project number X511035-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	X511035-01	Water	November 2, 2015 12:45	11/02/2015 14:00
MW-02	X511035-02	Water	November 2, 2015 11:55	11/02/2015 14:00
MW-03	X511035-03	Water	November 2, 2015 12:05	11/02/2015 14:00
MW-04	X511035-04	Water	November 2, 2015 12:15	11/02/2015 14:00
MW-05	X511035-05	Water	November 2, 2015 12:25	11/02/2015 14:00
MW-06	X511035-06	Water	November 2, 2015 12:35	11/02/2015 14:00

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: XS11035 Client: Eagle Env.
 Client Project ID: Noble - Bernhardt
 Checklist Completed by: Joe Henderson Shipped Via: HD
 Date/time completed: 11/3/15 1448 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 18.1 °C _____ °C _____ °C (Describe) _____ °C
 Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		sampled same day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		✓		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	X			HCL
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Joe Henderson Reviewed by (Project Manager) 11/4/15 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-01
11/2/2015 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X511035-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B5K0303	11/03/2015	11/03/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	99.2 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-02

11/2/2015 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X511035-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B5K0303	11/03/2015	11/03/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-03

11/2/2015 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X511035-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B5K0303	11/03/2015	11/03/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-04

11/2/2015 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X511035-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B5K0303	11/03/2015	11/03/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-05
11/2/2015 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X511035-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B5K0303	11/03/2015	11/03/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-06
11/2/2015 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X511035-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B5K0303	11/03/2015	11/03/2015	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5K0303 - EPA 5030B (Water)

Blank (B5K0303-BLK1)

Prepared: 11/03/2015 Analyzed: 11/03/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	97.3		84-121			
Surrogate: Toluene-d8	64		"	62.5	102		85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5K0303 - EPA 5030B (Water)

LCS (B5K0303-BS1)

Prepared: 11/03/2015 Analyzed: 11/03/2015

Benzene	48.6	1.0	ug/L	50.0		97.3	75-126			
Toluene	49.6	1.0	"	50.0		99.3	78.7-126			
Ethylbenzene	53.5	1.0	"	50.0		107	80-130			
m,p-Xylene	107	2.0	"	100		107	77.2-133			
o-Xylene	50.2	1.0	"	50.0		100	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.4	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5K0303 - EPA 5030B (Water)

Matrix Spike (B5K0303-MS1)	Source: X511028-01			Prepared: 11/03/2015 Analyzed: 11/03/2015						
Benzene	32.1	1.0	ug/L	50.0	ND	64.3	74-130			QM-07
Toluene	32.4	1.0	"	50.0	ND	64.8	73-131			QM-07
Ethylbenzene	35.1	1.0	"	50.0	ND	70.3	76-132			QM-07
m,p-Xylene	67.9	2.0	"	100	ND	67.9	69-139			QM-07
o-Xylene	33.2	1.0	"	50.0	ND	66.5	74-131			QM-07
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.5	84-121			
Surrogate: Toluene-d8	65		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5K0303 - EPA 5030B (Water)

Matrix Spike Dup (B5K0303-MSD1)	Source: X511028-01			Prepared: 11/03/2015 Analyzed: 11/03/2015						
Benzene	36.3	1.0	ug/L	50.0	ND	72.7	74-130	12.3	20	QM-07
Toluene	36.1	1.0	"	50.0	ND	72.3	73-131	10.8	20	QM-07
Ethylbenzene	38.1	1.0	"	50.0	ND	76.2	76-132	8.06	20	
m,p-Xylene	72.4	2.0	"	100	ND	72.4	69-139	6.40	20	
o-Xylene	36.2	1.0	"	50.0	ND	72.4	74-131	8.50	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.4	84-121			
Surrogate: Toluene-d8	66		"	62.5		105	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



February 16, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Bernhardt #18-32

Project Number - [none]

Attached are your analytical results for Noble - Bernhardt #18-32 received by Origins Laboratory, Inc. February 11, 2016. This project is associated with Origins project number X602103-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	X602103-01	Water	February 9, 2016 12:00	02/11/2016 08:45
MW-02	X602103-02	Water	February 9, 2016 11:20	02/11/2016 08:45
MW-03	X602103-03	Water	February 9, 2016 11:40	02/11/2016 08:45
MW-04	X602103-04	Water	February 9, 2016 11:55	02/11/2016 08:45
MW-05	X602103-05	Water	February 9, 2016 10:55	02/11/2016 08:45
MW-06	X602103-06	Water	February 9, 2016 11:05	02/11/2016 08:45

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X602103

Client: Eagle
 Client Project ID: Bernhardt #18-32

Checklist Completed by: Jose Smith
 Date/time completed: 2/11/12

Shipped Via: HTD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 2 / 3 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	X			HCL
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.


 Reviewed by: (Project Manager)

02/11/12
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-01
2/9/2016 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X602103-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6B1101	02/11/2016	02/12/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	113 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-02
2/9/2016 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X602103-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6B1101	02/11/2016	02/12/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-03
2/9/2016 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X602103-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6B1101	02/11/2016	02/12/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	112 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-04
2/9/2016 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X602103-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6B1101	02/11/2016	02/12/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	114 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-05
2/9/2016 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X602103-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6B1101	02/11/2016	02/12/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	112 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-06
2/9/2016 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X602103-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6B1101	02/11/2016	02/12/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	112 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6B1101 - EPA 5030B (Water)

Blank (B6B1101-BLK1)

Prepared: 02/11/2016 Analyzed: 02/12/2016

Benzene	ND	1.0	ug/L							U
Toluene	ND	1.0	"							U
Ethylbenzene	ND	1.0	"							U
Xylenes, total	ND	1.0	"							U
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5	108		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.6		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100		84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6B1101 - EPA 5030B (Water)

Blank (B6B1101-BLK2)

Prepared: 02/11/2016 Analyzed: 02/12/2016

Benzene	ND	1.0	ug/L							U
Toluene	ND	1.0	"							U
Ethylbenzene	ND	1.0	"							U
Xylenes, total	ND	1.0	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	107		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.3		85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5	95.1		84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6B1101 - EPA 5030B (Water)

LCS (B6B1101-BS1)

Prepared: 02/11/2016 Analyzed: 02/12/2016

Benzene	50.2	1.0	ug/L	50.0		100	73.3-129			
Toluene	48.1	1.0	"	50.0		96.1	76.2-123			
Ethylbenzene	48.0	1.0	"	50.0		96.0	73.6-130			
m,p-Xylene	97.4	2.0	"	100		97.4	76.1-126			
o-Xylene	49.8	1.0	"	50.0		99.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		108	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.6	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6B1101 - EPA 5030B (Water)

LCS (B6B1101-BS2)

Prepared: 02/11/2016 Analyzed: 02/12/2016

Benzene	42.4	1.0	ug/L	50.0		84.8	73.3-129			
Toluene	42.2	1.0	"	50.0		84.5	76.2-123			
Ethylbenzene	42.4	1.0	"	50.0		84.9	73.6-130			
m,p-Xylene	84.2	2.0	"	100		84.2	76.1-126			
o-Xylene	42.6	1.0	"	50.0		85.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6B1101 - EPA 5030B (Water)

Matrix Spike (B6B1101-MS1)	Source: X602081-01			Prepared: 02/11/2016 Analyzed: 02/12/2016						
Benzene	46.3	1.0	ug/L	50.0	ND	92.7	74-130			
Toluene	45.8	1.0	"	50.0	ND	91.6	73-131			
Ethylbenzene	46.5	1.0	"	50.0	ND	93.0	76-132			
m,p-Xylene	94.8	2.0	"	100	ND	94.8	69-139			
o-Xylene	48.2	1.0	"	50.0	ND	96.4	74-131			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.9	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6B1101 - EPA 5030B (Water)

Matrix Spike (B6B1101-MS2)	Source: X602081-02			Prepared: 02/11/2016 Analyzed: 02/12/2016						
Benzene	41.5	1.0	ug/L	50.0	ND	83.1	74-130			
Toluene	40.3	1.0	"	50.0	ND	80.5	73-131			
Ethylbenzene	40.0	1.0	"	50.0	ND	80.0	76-132			
m,p-Xylene	80.5	2.0	"	100	ND	80.5	69-139			
o-Xylene	41.4	1.0	"	50.0	ND	82.7	74-131			
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		108	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6B1101 - EPA 5030B (Water)

Matrix Spike Dup (B6B1101-MSD1)	Source: X602081-01			Prepared: 02/11/2016 Analyzed: 02/12/2016						
Benzene	43.2	1.0	ug/L	50.0	ND	86.5	74-130	6.92	20	
Toluene	41.9	1.0	"	50.0	ND	83.7	73-131	9.01	20	
Ethylbenzene	40.9	1.0	"	50.0	ND	81.8	76-132	12.8	20	
m,p-Xylene	83.7	2.0	"	100	ND	83.7	69-139	12.4	20	
o-Xylene	45.0	1.0	"	50.0	ND	90.0	74-131	6.87	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	61		"	62.5		98.2	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6B1101 - EPA 5030B (Water)

Matrix Spike Dup (B6B1101-MSD2)	Source: X602081-02			Prepared: 02/11/2016 Analyzed: 02/12/2016						
Benzene	48.0	1.0	ug/L	50.0	ND	96.0	74-130	14.4	20	
Toluene	46.4	1.0	"	50.0	ND	92.8	73-131	14.1	20	
Ethylbenzene	46.9	1.0	"	50.0	ND	93.9	76-132	16.0	20	
m,p-Xylene	92.6	2.0	"	100	ND	92.6	69-139	14.0	20	
o-Xylene	47.9	1.0	"	50.0	ND	95.8	74-131	14.7	20	
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		107	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



May 23, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Bernhardt #18-32

Project Number - [none]

Attached are your analytical results for Noble - Bernhardt #18-32 received by Origins Laboratory, Inc. May 17, 2016. This project is associated with Origins project number X605212-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	X605212-01	Water	May 17, 2016 11:00	05/17/2016 15:35
MW-02	X605212-02	Water	May 17, 2016 11:15	05/17/2016 15:35
MW-03	X605212-03	Water	May 17, 2016 11:30	05/17/2016 15:35
MW-04	X605212-04	Water	May 17, 2016 11:45	05/17/2016 15:35
MW-05	X605212-05	Water	May 17, 2016 12:00	05/17/2016 15:35
MW-06	X605212-06	Water	May 17, 2016 12:15	05/17/2016 15:35

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X605212

Client: Eagle

Client Project ID: Bernhardt #18-32

Checklist Completed by: Jeff Smith

Shipped Via: 4xD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/17/16

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 5.8 °C / °C / °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			HCL
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 5/18/16

Origins Laboratory, Inc.

[Signature: Jen Pellegrini]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-01
5/17/2016 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605212-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6E1805	05/18/2016	05/19/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	82.2 %	84-121			"	"	"	S-04
Surrogate: Toluene-d8	105 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-02
5/17/2016 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605212-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6E1805	05/18/2016	05/19/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	84.1 %	84-121			"	"	"	
Surrogate: Toluene-d8	105 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-03
5/17/2016 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605212-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6E1805	05/18/2016	05/19/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	84.5 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-04

5/17/2016 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605212-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6E1805	05/18/2016	05/19/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	86.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	108 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

MW-05

5/17/2016 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605212-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6E1805	05/18/2016	05/19/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	87.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

MW-06

5/17/2016 12:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X605212-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	B6E1805	05/18/2016	05/19/2016	U
Toluene	ND	1.0	"	"	"	"	"	U
Ethylbenzene	ND	1.0	"	"	"	"	"	U
Xylenes, total	ND	1.0	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	88.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6E1805 - EPA 5030B (Water)

Blank (B6E1805-BLK1)

Prepared: 05/18/2016 Analyzed: 05/19/2016

Benzene	ND	1.0	ug/L							U
Toluene	ND	1.0	"							U
Ethylbenzene	ND	1.0	"							U
Xylenes, total	ND	1.0	"							U
Surrogate: 1,2-Dichloroethane-d4	51		"	62.5	82.4		84-121			
Surrogate: Toluene-d8	72		"	62.5	115		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.3		84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6E1805 - EPA 5030B (Water)

LCS (B6E1805-BS1)

Prepared: 05/18/2016 Analyzed: 05/19/2016

Benzene	40.4	1.0	ug/L	50.0		80.8	73.3-129			
Toluene	46.8	1.0	"	50.0		93.7	76.2-123			
Ethylbenzene	46.6	1.0	"	50.0		93.3	73.6-130			
m,p-Xylene	91.2	2.0	"	100		91.2	76.1-126			
o-Xylene	46.0	1.0	"	50.0		92.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	50		"	62.5		80.5	84-121			
Surrogate: Toluene-d8	69		"	62.5		110	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6E1805 - EPA 5030B (Water)

Matrix Spike (B6E1805-MS1)	Source: X605212-06			Prepared: 05/18/2016 Analyzed: 05/19/2016						
Benzene	40.4	1.0	ug/L	50.0	ND	80.9	74-130			
Toluene	44.9	1.0	"	50.0	ND	89.9	73-131			
Ethylbenzene	44.1	1.0	"	50.0	ND	88.3	76-132			
m,p-Xylene	85.9	2.0	"	100	ND	85.9	69-139			
o-Xylene	43.6	1.0	"	50.0	ND	87.2	74-131			
Surrogate: 1,2-Dichloroethane-d4	53		"	62.5		84.8	84-121			
Surrogate: Toluene-d8	67		"	62.5		107	85-115			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.9	84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Bernhardt #18-32

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6E1805 - EPA 5030B (Water)

Matrix Spike Dup (B6E1805-MSD1)	Source: X605212-06			Prepared: 05/18/2016 Analyzed: 05/19/2016						
Benzene	54.2	1.0	ug/L	50.0	ND	108	74-130	29.0	20	QR-03
Toluene	58.9	1.0	"	50.0	ND	118	73-131	26.8	20	QR-03
Ethylbenzene	58.7	1.0	"	50.0	ND	117	76-132	28.3	20	QR-03
m,p-Xylene	115	2.0	"	100	ND	115	69-139	28.7	20	QR-03
o-Xylene	57.1	1.0	"	50.0	ND	114	74-131	26.9	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	51		"	62.5		81.9	84-121			
Surrogate: Toluene-d8	66		"	62.5		106	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Bernhardt #18-32

Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President