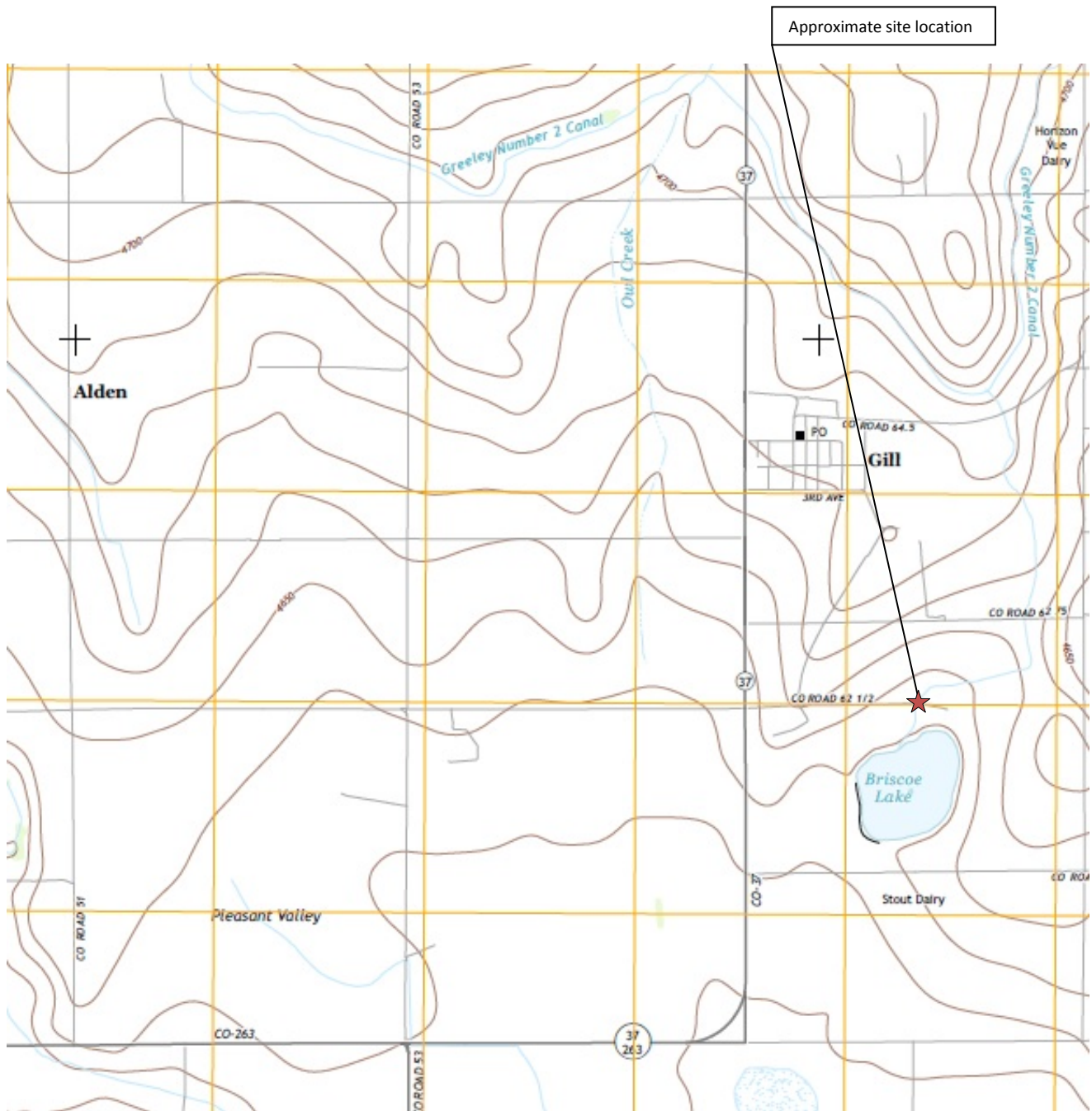


## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Sample Analytical Map**



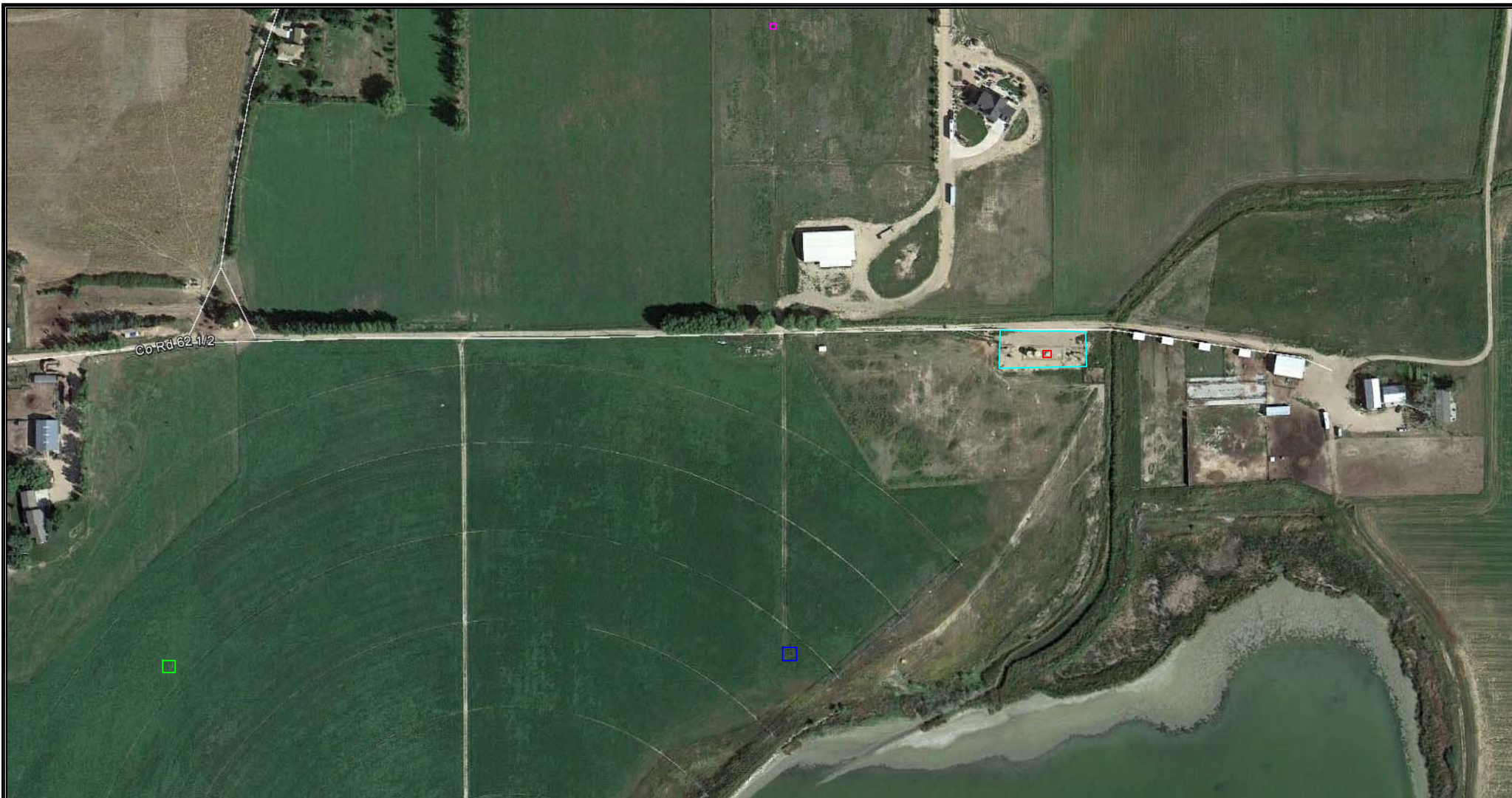
**Site Location Map**  
 Petrikin #A34-6, 11, 12  
 Water Vault Removal  
 40.442592 / -104.536769  
 SENW SEC.34 T6N R64W 6PM  
 Weld County, CO  
 API # 05-123-13726, 05-123-13530, 05-123-13728

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

**Figure 1**

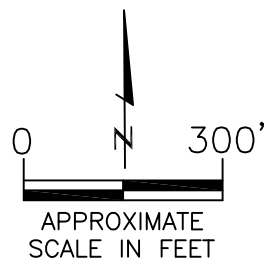


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# LEGEND

- PETRIKIN #A34-6, 11, 12 TANK BATTERY
- PETRIKIN #A34-6 WELL HEAD
- PETRIKIN #A34-11 WELL HEAD
- PETRIKIN #A34-12 WELL HEAD
- APPROXIMATE LOCATION OF WATER VAULT REMOVAL



AERIAL SITE LOCATION MAP  
 PETRIKIN #A34-6, 11, 12  
 WATER VAULT REMOVAL  
 40.442592 / -104.536769  
 SE1/4 NW1/4 SEC.34 T6N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13726, 05-123-13530,  
 05-123-13728

DATE:  
02/22/16

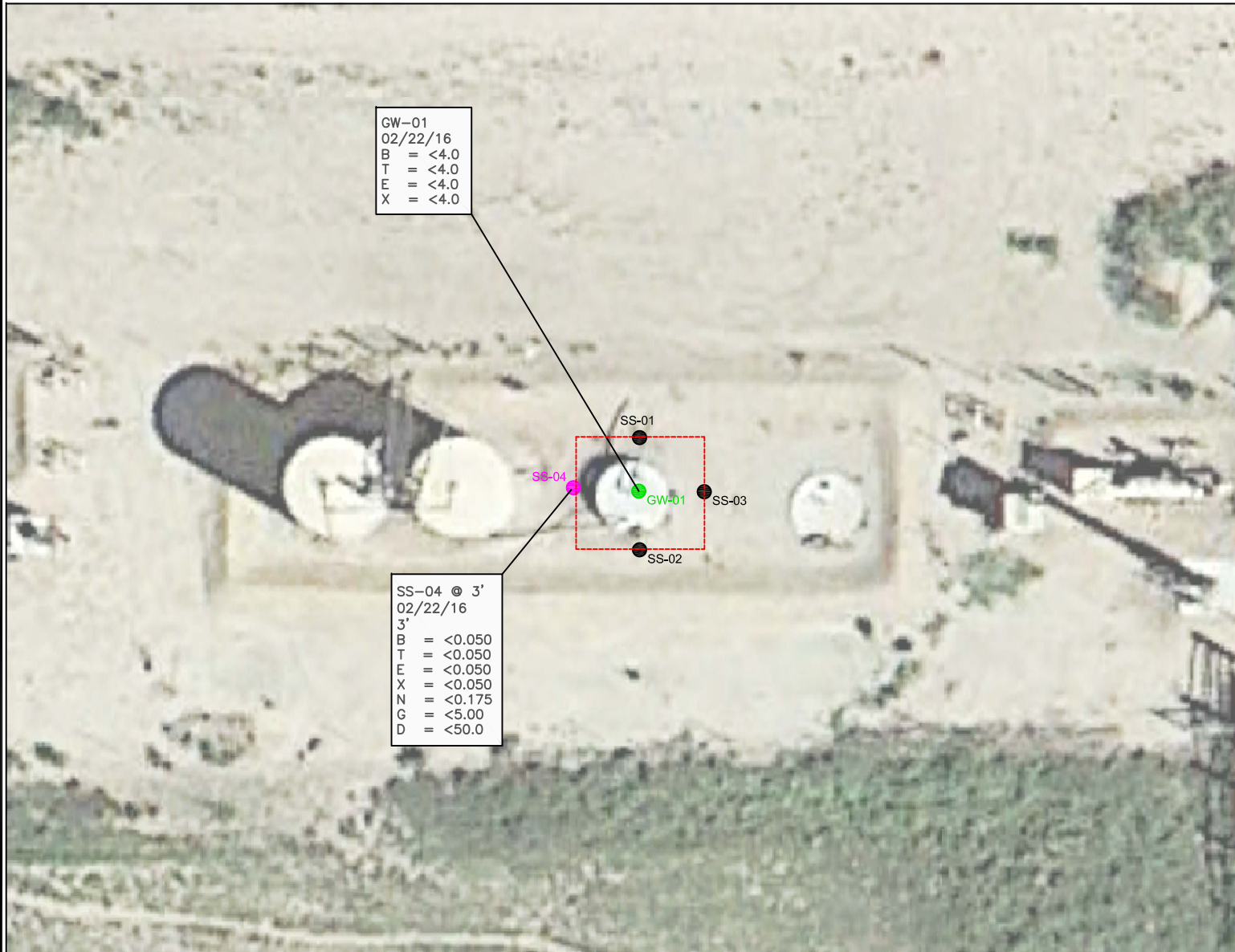
FIG. NO.  
2

DRAWN BY:  
AMN

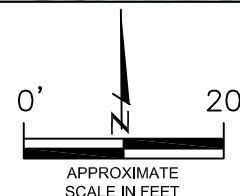


**EAGLE**  
 ENVIRONMENTAL  
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 4101 INCA STREET, DENVER, CO 80211  
 Ph: 303-433-4479 • F: 303-325-5449





NOTE: SITE UNDER DECOMMISSION. FACILITIES NOT OBSERVED ONSITE DURING TIME OF ASSESSMENT.



#### LEGEND

- APPROXIMATE EXCAVATION BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

#### PARAMETERS

SOIL 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

- GW-01 APPROXIMATE LOCATION OF GROUNDWATER SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

#### PARAMETERS

GROUNDWATER 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

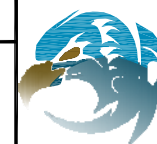
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SAMPLE ANALYTICAL MAP  
 PETRIKIN #A34-6, 11, 12  
 WATER VAULT REMOVAL  
 40.442592/-104.536769  
 SE1/4 NW1/4 SEC.34 T6N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13726, 05-123-13530, 05-123-13728

DATE: 02/23/16

FIG. NO. 3

DRAWN BY: amn



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 CONSULTING, INC.  
 4101 INCA STREET, DENVER, CO 80211  
 Ph: 303-433-0479 • F: 303-325-5449

## **TABLE**

**Table 1:     Soil Analytical Results Summary**

**Table 2:     Groundwater Analytical Results Summary**

TABLE 1  
SOIL ANALYTICAL RESULTS SUMMARY  
PETRIKIN #A34-6,11,12  
WATER VAULT REMOVAL  
40.442592 / -104.536769  
SE¼ NW¼ SEC.34 T6N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13726, 05-123-13530, 05-123-13728

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
<b>COGCC Table 910-1 Regulatory Limits (mg/kg)</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>23</b>	<b>500</b>		<b>&lt;4</b>	<b>6 to 9</b>	<b>&lt;12<sup>5</sup></b>
SS-04 @ 3' (40.442592 / -104.536792)	02/22/16	3	<0.050	<0.050	<0.050	<0.050	<0.175	<5.00	<50.0	0.284	7.88	0.96
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter 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 the laboratory reporting limit.												



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS SUMMARY**  
**PETRIKIN #A34-6,11,12**  
**WATER VAULT REMOVAL**  
**40.442592 / -104.536769**  
**SE¼ NW¼ SEC.34 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13726, 05-123-13530, 05-123-13728**

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>
GW-01 (40.442592 / -104.53669)	02/22/16	<4.0	<4.0	<4.0	<4.0
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.					

## **ATTACHMENT A**

### **Laboratory Analytical Reports**





February 29, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - Petrikin #A 34-6,11,12**

**Project Number - [none]**

Attached are your analytical results for Noble - Petrikin #A 34-6,11,12 received by Origins Laboratory, Inc. February 22, 2016. This project is associated with Origins project number X602254-01.

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 - Petrikin #A 34-6,11,12

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-04 @ 3'	X602254-01	Soil	February 22, 2016 16:20	02/22/2016 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.*

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 - Petrikin #A 34-6,11,12

www.originslaboratory.com

page 1 of 1

**ORIGINS** LABORATORY, INC

Client: MOBILE ENV CONSULTING

Address: 4101 INCA ST  
DENVER, CO 80211

Telephone Number: 303 433 0479

Email Address: MCE3@eagle-enviro.com

Project Manager: MARTIN ECKERT III

Project Name: PETRIKIN #A 34-6, 11, 12

Project Number:                     

Samples Collected By: A. ZANUSKY

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	IC	P	5260		542
55-0403	2/22/16	1620	2	X						X				X	X	
Relinquished By: <u>[Signature]</u>	Date: <u>2/22/16</u>	Time: <u>1750</u>						Received By: <u>[Signature]</u>	Date: <u>2/22/16</u>	Time: <u>1750</u>						
Relinquished By: <u>[Signature]</u>	Date: <u> </u>	Time: <u> </u>						Received By: <u> </u>	Date: <u> </u>	Time: <u> </u>						

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Temp Received: 4.6 Date Results Needed: NBLC

Recd to HOWARD

Origins Laboratory, Inc.

Jefe 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 - Petrikin #A 34-6,11,12

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: X602254

Client: Eagle

Client Project ID: Petrikin #A34-6,11,12

Checklist Completed by: Jefe Smith

Shipped Via: H/D  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/22/16

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 4.6 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<u>2/22/16</u> <input checked="" type="checkbox"/>		<u>PH</u>
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup> 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) Jefe Smith

Date/Time Reviewed 2/22/16

Origins Laboratory, Inc.

*Jefe 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 - Petrikin #A 34-6,11,12

SS-04 @ 3'  
2/22/2016 4:20:00PM

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

Origins Laboratory, Inc.  
X602254-01 (Soil)

## Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6B2213	02/22/2016	02/22/2016	U
Surrogate: o-Terphenyl	76.6 %	59-131			"	"	"	

## GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6B2214	02/22/2016	02/23/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Naphthalene	ND	0.175	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"	

## Metals by 6010

Calcium	27.00		me/L	1	'[none]'	02/24/2016	02/26/2016	
Magnesium	10.50		"	"	"	"	"	
Sodium	4.15		"	"	"	"	"	

## pH in Soil by EPA 9045D

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 - Petrikin #A 34-6,11,12

SS-04 @ 3'

2/22/2016 4:20:00PM

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

**Origins Laboratory, Inc.**  
**X602254-01 (Soil)**

**pH in Soil by EPA 9045D**

pH	7.88	pH Units	1	B6B2203	02/22/2016	02/22/2016
----	------	----------	---	---------	------------	------------

**SAR by 20B Saturated Paste**

SAR	0.96		1	'[none]'	02/24/2016	02/26/2016
-----	------	--	---	----------	------------	------------

**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.284	mmhos/cm	1	B6B2204	02/22/2016	02/22/2016
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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 - Petrikin #A 34-6,11,12

**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
<b>Batch B6B2214 - EPA 5030 (soil)</b>										
<b>Blank (B6B2214-BLK1)</b>					Prepared: 02/22/2016 Analyzed: 02/22/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	70-130			

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 - Petrikin #A 34-6,11,12

**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
<b>Batch B6B2214 - EPA 5030 (soil)</b>										
<b>LCS (B6B2214-BS1)</b>					Prepared: 02/22/2016 Analyzed: 02/22/2016					
Benzene	0.109	0.002	mg/kg	0.100		109	70-130			
Toluene	0.106	0.002	"	0.100		106	70-130			
Ethylbenzene	0.102	0.002	"	0.100		102	70-130			
m,p-Xylene	0.200	0.004	"	0.200		100	70-130			
o-Xylene	0.101	0.002	"	0.100		101	70-130			
Naphthalene	0.120	0.007	"	0.100		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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 - Petrikin #A 34-6,11,12

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B6B2214 - EPA 5030 (soil)

Matrix Spike (B6B2214-MS1)		Source: X602253-01			Prepared: 02/22/2016 Analyzed: 02/22/2016					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	70-130			
Toluene	0.091	0.002	"	0.100	ND	91.1	70-130			
Ethylbenzene	0.107	0.002	"	0.100	ND	107	70-130			
m,p-Xylene	0.216	0.004	"	0.200	ND	108	70-130			
o-Xylene	0.108	0.002	"	0.100	ND	108	70-130			
Naphthalene	0.108	0.007	"	0.100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	53		"	62.5		85.0	70-130			
Surrogate: 4-Bromofluorobenzene	75		"	62.5		120	70-130			

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Petrikin #A 34-6,11,12

**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
<b>Batch B6B2214 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B6B2214-MSD1)</b>			<b>Source: X602253-01</b>		Prepared: 02/22/2016 Analyzed: 02/22/2016					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	70-130	0.185	20	
Toluene	0.108	0.002	"	0.100	ND	108	70-130	17.3	20	
Ethylbenzene	0.104	0.002	"	0.100	ND	104	70-130	2.33	20	
m,p-Xylene	0.209	0.004	"	0.200	ND	105	70-130	3.18	20	
o-Xylene	0.100	0.002	"	0.100	ND	100	70-130	7.66	20	
Naphthalene	0.123	0.007	"	0.100	ND	123	70-130	12.9	20	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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 - Petrikin #A 34-6,11,12

## 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

## Extractable Petroleum Hydrocarbons by 8015C - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch B6B2213 - EPA 3580

#### Blank (B6B2213-BLK1)

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	44		"	50.0		87.8	59-131			

#### LCS (B6B2213-BS1)

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	856	50.0	mg/kg	1000		85.6	64-121			
Surrogate: o-Terphenyl	42		"	50.0		84.3	59-131			

#### Matrix Spike (B6B2213-MS1)

Source: X602253-01

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	856	50.0	mg/kg	1000	ND	85.6	53-125			
Surrogate: o-Terphenyl	38		"	50.0		76.7	59-131			

#### Matrix Spike Dup (B6B2213-MSD1)

Source: X602253-01

Prepared: 02/22/2016 Analyzed: 02/22/2016

Diesel (C10-C28)	880	50.0	mg/kg	1000	ND	88.0	53-125	2.77	20	
Surrogate: o-Terphenyl	44		"	50.0		87.2	59-131			

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 - Petrikin #A 34-6,11,12

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B6B2203 - NO PREP</b>										
<b>Duplicate (B6B2203-DUP1)</b>		<b>Source: X602220-05</b>			Prepared: 02/22/2016 Analyzed: 02/22/2016					
pH	7.86		pH Units		7.56			3.89	25	
<b>Duplicate (B6B2203-DUP2)</b>		<b>Source: X602253-01</b>			Prepared: 02/22/2016 Analyzed: 02/22/2016					
pH	8.02		pH Units		8.72			8.36	25	
<b>Batch B6B2204 - NO PREP</b>										
<b>Blank (B6B2204-BLK1)</b>		Prepared: 02/22/2016 Analyzed: 02/22/2016								
Specific Conductance (EC)	0.00300		mmhos/cm							
<b>Duplicate (B6B2204-DUP1)</b>		<b>Source: X602220-05</b>			Prepared: 02/22/2016 Analyzed: 02/22/2016					
Specific Conductance (EC)	0.0661		mmhos/cm		0.0668			1.05	25	

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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Petrikin #A 34-6,11,12

### 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.



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Jen Pellegrini For Noelle Doyle Mathis, President



February 23, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - Petrikin #A 34-6,11,12**

**Project Number - [none]**

Attached are your analytical results for Noble - Petrikin #A 34-6,11,12 received by Origins Laboratory, Inc. February 22, 2016. This project is associated with Origins project number X602255-01.

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 - Petrikin #A 34-6,11,12

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-01	X602255-01	Water	February 22, 2016 15:50	02/22/2016 17:50

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 - Petrikin #A 34-6,11,12

www.originslaboratory.com

**X602255**

**ORIGINS**  
LABORATORY, INC

Client: EAGLE ENV CONSULTING

Address: 4101 INCA ST  
DENVER, CO 80211

Telephone Number: 303 433 0479

Email Address: NCE3@eagle-env.com

Project Manager: MARTIN ECKERT III

Project Name: PETRIKIN #A 34-6,11,12

Project Number: ---

Samples Collected By: A RONAUSKI

page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other		
GW-01	2/22/16	1550	3	X				X				BTEX	1
													2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: [Signature]

Relinquished By: [Signature]

Date: 2/22/16

Date: 2/22/16

Time: 1750

Time: 1750

Received By: [Signature]

Received By: [Signature]

Date: 2/22/16

Date: 2/22/16

Time: 1750

Time: 1750

Turnaround Time: Same Day ☒ 24 Hr ☐  
48 Hr ☐ 72 Hr ☐  
Standard ☐

1725 Elk Place

Denver, CO 80211

Phone: 303.433.1322

Fax: 303.265.9645

Temp Received: 4.6

Date Results Needed: Noble

BILL TO HOWARD

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Petrikin #A 34-6,11,12

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: X602255

Client: Eagle

Client Project ID: Petrikin #A34-6,11,12

Checklist Completed by: Jeff Smith

Shipped Via: Hand

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/22/16

Airbill #: NA

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

Cooler Number/Temperature: 1 / 4.6 °C 1 / 1 °C 1 / 1 °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 <sup>(1)</sup> ?	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 <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	X			
Additional Comments (if any):				

<sup>(1)</sup> 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) Jeff Smith

Date/Time Reviewed 2/22/16

Origins Laboratory, Inc.

*Jen Pellegrini*

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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Petrikin #A 34-6,11,12

**GW-01**

**2/22/2016 3:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**

**X602255-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	4.0	ug/L	4	B6B2201	02/22/2016	02/22/2016	U
Toluene	ND	4.0	"	"	"	"	"	U
Ethylbenzene	ND	4.0	"	"	"	"	"	U
Xylenes, total	ND	4.0	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	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 - Petrikin #A 34-6,11,12

**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 B6B2201 - EPA 5030B (Water)**

**Blank (B6B2201-BLK1)**

Prepared: 02/22/2016 Analyzed: 02/22/2016

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	61		"	62.5		97.9	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.8	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	84-114			

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Petrikin #A 34-6,11,12

**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 B6B2201 - EPA 5030B (Water)**

**LCS (B6B2201-BS1)**

Prepared: 02/22/2016 Analyzed: 02/22/2016

Benzene	57.8	1.0	ug/L	50.0	116	73.3-129
Toluene	57.6	1.0	"	50.0	115	76.2-123
Ethylbenzene	59.9	1.0	"	50.0	120	73.6-130
m,p-Xylene	119	2.0	"	100	119	76.1-126
o-Xylene	57.8	1.0	"	50.0	116	76.6-124
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.9	84-121
Surrogate: Toluene-d8	62		"	62.5	99.3	85-115
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.1	84-114

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Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Petrikin #A 34-6,11,12

**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 B6B2201 - EPA 5030B (Water)**

Matrix Spike (B6B2201-MS1)		Source: X602214-01			Prepared: 02/22/2016 Analyzed: 02/22/2016					
Benzene	58.4	1.0	ug/L	50.0	ND	117	74-130			
Toluene	57.9	1.0	"	50.0	ND	116	73-131			
Ethylbenzene	56.6	1.0	"	50.0	ND	113	76-132			
m,p-Xylene	114	2.0	"	100	ND	114	69-139			
o-Xylene	55.1	1.0	"	50.0	ND	110	74-131			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	84-114			

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Petrikin #A 34-6,11,12

## 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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

#### Batch B6B2201 - EPA 5030B (Water)

Matrix Spike Dup (B6B2201-MSD1)		Source: X602214-01			Prepared: 02/22/2016 Analyzed: 02/22/2016					
Benzene	58.6	1.0	ug/L	50.0	ND	117	74-130	0.274	20	
Toluene	57.5	1.0	"	50.0	ND	115	73-131	0.728	20	
Ethylbenzene	60.0	1.0	"	50.0	ND	120	76-132	5.87	20	
m,p-Xylene	120	2.0	"	100	ND	120	69-139	4.49	20	
o-Xylene	57.8	1.0	"	50.0	ND	116	74-131	4.83	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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Martin C Eckert III

Project Number: [none]

Project: Noble - Petrikin #A 34-6,11,12

### 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.



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