

# Wellhead Closure Checklist

## COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Hansen O #1-23		Date: 06/26/23					Remediation Project #: 22536	
Associated Wells: 05-123-26612		Age of Site: Years					Number of Photos Attached: 1	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							Estimated Facility Size (acres): N/A	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Good condition								
USCS Soil Type: Clayey SAND					Estimated Depth to Groundwater: Approx. 10-15'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed.								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed.								
Wellhead(s)								
Well API	05-123-26612							
Age	Years							
Condition of surface around wellhead	Good - Per Crew							
PID Readings	N/A - Excavated Upon Arrival							
Condition of subsurface (staining present)	Good - No odor/no staining							
PID Readings	7.9	2.2	6.7	5.8	8.1			
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01			
Photo Number(s)	See photolog							
Other observations regarding wellheads:								
Well casing cut/capped following assessment.								
Summary								
Was impacted soil identified?								
<input checked="" type="checkbox"/> No         Yes - less than 10 cubic yards         Yes - more than 10 cubic yards								
Total number of samples field screened: 5				Total number of samples collected: 5				
Highest PID Reading: 8.1				Total number of samples submitted to lab for analysis: 1				
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:				Estimated spill volume:				
Lateral extent:				Volume of soil removed:				
Is additional investigation required? N/A								
Was groundwater encountered during the investigation?								
<input checked="" type="checkbox"/> No         Yes - not impacted or in contact with impacted soils         Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No				
Date Groundwater was encountered:				Commencement date of removal:				
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:				
Free product observed? Yes No				Volume of groundwater removed post sampling:				
Total number of samples collected:				Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis:								

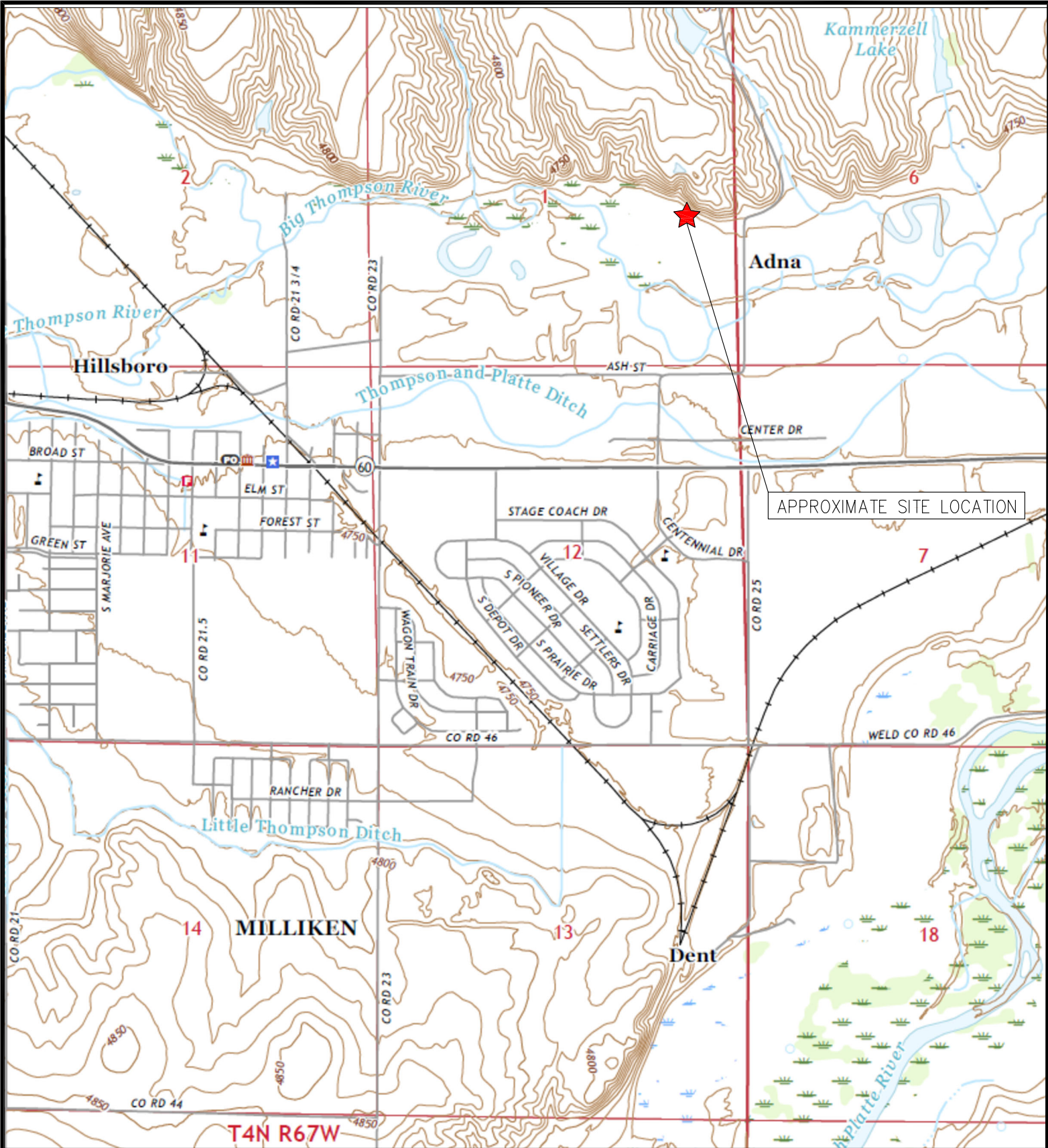


## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**



**TOPOGRAPHIC SITE LOCATION MAP**

HANSEN O #1-23  
 CLOSURE ASSESSMENT  
 40.339344 / -104.832572  
 NE¼ SE¼ SEC.1 T4N R67W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-26612  
 REMEDIATION # 22536



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

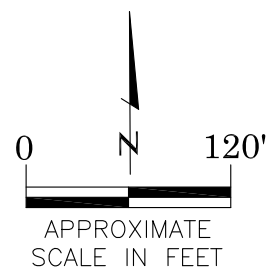
8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449





# LEGEND

- FORMER HANSEN O #1-23 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP  
HANSEN O #1-23  
CLOSURE ASSESSMENT  
40.339344 / -104.832572  
NE¼ SE¼ SEC.1 T4N R67W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-26612  
REMEDATION # 22536

FIGURE NO.  
2

DRAWN BY:  
EL



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449





#### LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

#### 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-CRO (mg/kg)  
D = TPH-DRO (mg/kg)  
R = TPH-RRO (mg/kg)  
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)  
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)  
Brn= BORON (mg/L)  
EC = SPECIFIC CONDUCTANCE (mmhos/cm)  
SAR= SODIUM ADSORPTION RATIO  
pH = pH (pH UNITS)  
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM  
mg/L = MILLIGRAMS PER LITER  
mmhos/cm = MILLIHOS PER CENTIMETER

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

TPH-CRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

#### NOTES:

VALUES PRESENTED IN **BOLD** EXCEED ECOM TABLE 915-1 REGULATORY LIMITS

ECMC = ENERGY AND CARBON MANAGEMENT COMMISSION

#### SOIL ANALYTICAL MAP

HANSEN O #1-23  
CLOSURE ASSESSMENT  
40.339344 / -104.832572  
NE¼ SE¼ SEC.1 T4N R6W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-26612  
REMEDATION # 22536

FIGURE NO.  
3

DRAWN BY:  
TC



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ENVIRONMENTAL  
CONSULTING, LLC  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**HANSEN O #1-23**  
**CLOSURE ASSESSMENT**  
**40.339344 / -104.832572**  
**NE¼ SE¼ SEC.1 T4N R67W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-26612**  
**REMEDATION # 22536**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.339354 / -104.832586)	06/26/23	5	7.9	N
WH-SS-02 @ 5' (40.339336 / -104.832556)	06/26/23	5	2.2	N
WH-SS-03 @ 5' (40.339319 / -104.832582)	06/26/23	5	6.7	N
WH-SS-04 @ 5' (40.339335 / -104.832608)	06/26/23	5	5.8	N
WH-FS-01 @ 6' (40.339334 / -104.832584)	06/26/23	6	8.1	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
HANSEN O #1-23  
CLOSURE ASSESSMENT  
40.339344 / -104.832572  
NE¼ SEC.1 T4N R67W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-26612  
REMEDATION # 22536

Sample Location				WH-FS-01 @ 6'
(Latitude / Longitude)				(40.339334 / -104.832584)
Sample Date				6/26/2023
Sample Depth				6'
PID Reading (ppm-v)				8.1
Regulatory Limits				
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	
VOCs				
Benzene	mg/kg	1.2	0.0026	<0.00200
Toluene	mg/kg	490	0.69	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200
Naphthalene	mg/kg	2	0.0038	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200
TOTAL PETROLEUM HYDROCARBONS				
TPH-GRO	mg/kg	500	--	<0.200
TPH-DRO	mg/kg	500	--	<25.0
TPH-RRO	mg/kg	500	--	<100
POLYCYCLIC AROMATIC HYDROCARBONS				
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201
Acenaphthene	mg/kg	360	0.55	<0.00067
Anthracene	mg/kg	1800	5.8	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	0.000688
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067
Chrysene	mg/kg	110	9	0.00133
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067
Fluoranthene	mg/kg	240	8.9	0.00159
Fluorene	mg/kg	240	0.54	<0.00067
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067
Pyrene	mg/kg	180	1.3	0.00125
SOIL SUITABILITY (Inorganics)				
Boron	mg/L	2	--	0.560
pH	standard unit	6-8.3	--	8.11
Sodium Adsorption Ratio (SAR)	--	<6	--	0.431
Specific Conductance (EC)	mmhos/cm	<4	--	1.79
ECMC = Energy and Carbon Management Commission		VOCs - Volatile Organic Compounds		
mg/kg = milligrams per kilogram				
mmhos/cm = millimhos per centimeter		RSSLs = Residential Soil Screening Levels		
PID = Photoionization Detector		GSSLs = Protection of Groundwater Soil Screening Levels		
ppm-v = parts per million by volume		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics		
mg/L = milligrams per liter		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics		
SAR = Sodium Adsorption Ratio		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics		
Notes:				
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.				
Values presented in <b>BOLD</b> exceed ECMC Table 915-1 Regulatory Limits.				





## **ATTACHMENT A**

### **Photo Log**

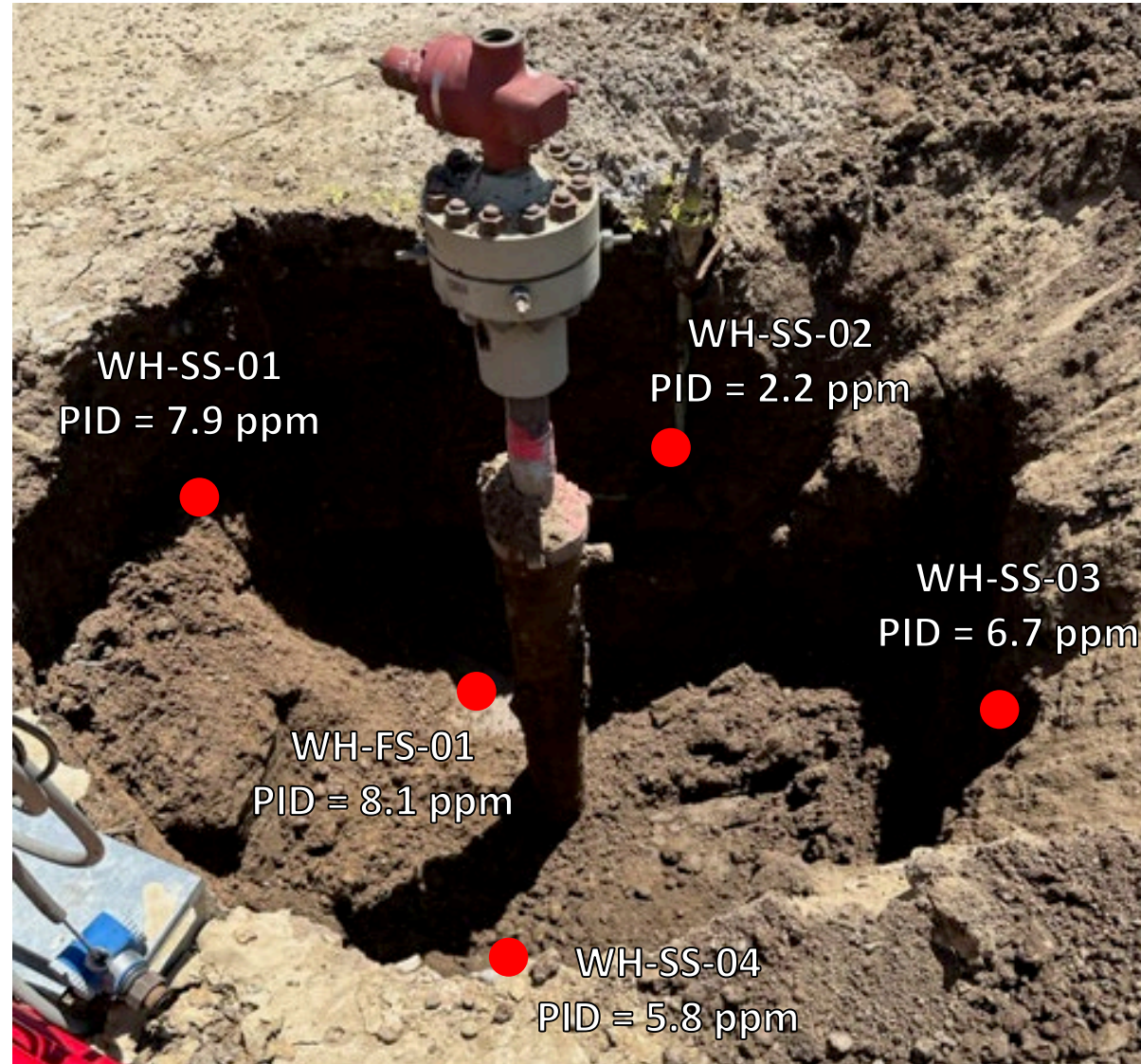
Hansen O #1-23  
API # 05-123-26612  
Remediation # 22536

Closure Assessment

June 2023



## Wellhead Excavation – 06/26/23



Looking east

No petroleum hydrocarbon staining or odor observed





## **ATTACHMENT B**

### **Laboratory Analytical Report**



July 10, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Hansen O #1-23

Project Number - [none]

Attached are your analytical results for Noble - Hansen O #1-23 received by Origins Laboratory, Inc. June 27, 2023. This project is associated with Origins project number Y306745-01.

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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y306745-01	Soil	June 26, 2023 12:10	06/27/2023 09:10

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.*

Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

www.originslaboratory.com

page 1 of 1

4306745

ORIGINS  
LABORATORY, INC

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Telephone Number: 303-433-0479  
Email Address: mce3@eagle-enviro.com  
Project Manager: Martin Eckert III  
Project Name: Hansen O #1-23  
Project Number: —  
Samples Collected By: len

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	CE-MS, Naphthalene	CE-MS, PAHs	
WH-F3-01 @ 6'	6/26/23	1210	5	X				X						MDs needed
														EG, SAG, PHL -
														saturated probe
														pup

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Kate Miller	6/27/23	0910	EMS	6/27/23	910	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

Date Results Needed: Noble

Temp Received: 5.3

\* Bill to Cash

Origins Laboratory, Inc.

*Bynon*

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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: U306745

Client: Eagle

Client Project ID: Hansen O #1-23

Checklist Completed by: EHS

Shipped Via: HD

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

Date/time completed: 6/27/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 153 °C        °C        °C (Describe)

Thermometer ID: 7004

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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) [Signature]

Date/Time Reviewed 6/29/23

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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

WH-FS-01@6'

6/26/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y306745-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.560	0.0997	mg/L	1	B3F2912	06/29/2023	06/30/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F2804	06/28/2023	07/01/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	103 %	50-150			"	"	"	
------------------------	-------	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F2927	06/29/2023	07/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	07/07/2023	U
Toluene	ND	0.00200	"	"	"	"	07/03/2023	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

WH-FS-01@6'

6/26/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y306745-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			B3F29 27	06/29/2023	07/03/2023	
Surrogate: Toluene-d8	89.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	75.7 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	10.6		0.499	meq/L	10	[CALC]	06/29/2023	06/30/2023	
Magnesium	7.03		0.823	"	"	"	"	"	
Sodium	1.28		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L690893	07/05/2023	07/05/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000688	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00133	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00159	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

WH-FS-01@6'

6/26/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y306745-01 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L690893	07/05/2023	07/05/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00125	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	44.5 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.11	pH Units	1	B3F2918	06/29/2023	06/30/2023
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## SAR by 20B Saturated Paste

SAR	0.431	SAR	1	B3F2915	06/29/2023	06/30/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.79	0.00500 mmhos/cm	1	B3F2918	06/29/2023	06/30/2023
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F2804 - EPA 3550B										
Blank (B3F2804-BLK1)					Prepared: 06/28/2023 Analyzed: 07/01/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		98.7	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

## Extractable Petroleum Hydrocarbons by 8015D - 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 B3F2804 - EPA 3550B

#### LCS (B3F2804-BS1)

Prepared: 06/28/2023 Analyzed: 07/01/2023

Diesel (C10-C28)	943	50.0	mg/kg	1000		94.3	70-130			
Residual Range Organics (C28-C40)	958	200	"	1000		95.8	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

Extractable Petroleum Hydrocarbons by 8015D - 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 B3F2804 - EPA 3550B

Matrix Spike (B3F2804-MS1)		Source: Y306716-04			Prepared: 06/28/2023 Analyzed: 07/01/2023					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F2804 - EPA 3550B										
Matrix Spike Dup (B3F2804-MSD1)			Source: Y306716-04			Prepared: 06/28/2023 Analyzed: 07/01/2023				
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130	7.92	35	
Residual Range Organics (C28-C40)	951	200	"	1000	ND	95.1	70-130	8.33	35	
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F2927 - EPA 5030 (soil)										
Blank (B3F2927-BLK1)					Prepared: 06/29/2023 Analyzed: 07/02/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	110		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	87.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.098		"	0.125	78.4		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

**Volatile Organic Compounds by GC/MS SW846 8260D - 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 B3F2927 - EPA 5030 (soil)**

**LCS (B3F2927-BS1)**

Prepared: 06/29/2023 Analyzed: 07/02/2023

1,2,4-Trimethylbenzene	0.0874	0.00200	mg/kg	0.100		87.4	70-130			
1,3,5-Trimethylbenzene	0.0878	0.00200	"	0.100		87.8	70-130			
Benzene	0.0998	0.00200	"	0.100		99.8	70-130			
Ethylbenzene	0.0823	0.00200	"	0.100		82.3	70-130			
Naphthalene	0.100	0.00380	"	0.100		100	70-130			
Toluene	0.0863	0.00200	"	0.100		86.3	70-130			
o-Xylene	0.0847	0.00200	"	0.100		84.7	70-130			
m,p-Xylene	0.167	0.00400	"	0.200		83.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.8	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F2927 - EPA 5030 (soil)										
Matrix Spike (B3F2927-MS1)		Source: Y306716-01			Prepared: 06/29/2023 Analyzed: 07/02/2023					
1,2,4-Trimethylbenzene	0.0702	0.00200	mg/kg	0.100	ND	70.2	70-130			
1,3,5-Trimethylbenzene	0.0823	0.00200	"	0.100	ND	82.3	70-130			
Benzene	0.0950	0.00200	"	0.100	ND	95.0	70-130			
Ethylbenzene	0.0745	0.00200	"	0.100	ND	74.5	70-130			
Naphthalene	0.0739	0.00380	"	0.100	ND	73.9	70-130			
Toluene	0.0800	0.00200	"	0.100	ND	80.0	70-130			
o-Xylene	0.0793	0.00200	"	0.100	ND	79.3	70-130			
m,p-Xylene	0.145	0.00400	"	0.200	ND	72.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.8	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F2927 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3F2927-MSD1)</b>		<b>Source: Y306716-01</b>			Prepared: 06/29/2023 Analyzed: 07/02/2023					
1,2,4-Trimethylbenzene	0.0633	0.00200	mg/kg	0.100	ND	63.3	70-130	10.3	20	QM-07
1,3,5-Trimethylbenzene	0.0809	0.00200	"	0.100	ND	80.9	70-130	1.76	20	
Benzene	0.0925	0.00200	"	0.100	ND	92.5	70-130	2.62	20	
Ethylbenzene	0.0719	0.00200	"	0.100	ND	71.9	70-130	3.50	20	
Naphthalene	0.0768	0.00380	"	0.100	ND	76.8	70-130	3.74	20	
Toluene	0.0776	0.00200	"	0.100	ND	77.6	70-130	3.05	20	
o-Xylene	0.0781	0.00200	"	0.100	ND	78.1	70-130	1.50	20	
m,p-Xylene	0.136	0.00400	"	0.200	ND	68.0	70-130	6.19	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.5	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

## Volatile Organic Compounds by GC/MS SW846 8260D - 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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## Classical Chemistry Parameters - 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 B3F2912 - DTPA Sorbitol Preparation

##### Blank (B3F2912-BLK1)

Prepared: 06/29/2023 Analyzed: 06/30/2023

Boron ND 0.100 mg/L

##### Duplicate (B3F2912-DUP1)

Source: Y306745-01

Prepared: 06/29/2023 Analyzed: 06/30/2023

Boron 0.448 0.101 mg/L 0.560 22.1 50

#### Batch B3F2915 - Saturated Paste Metals

##### Blank (B3F2915-BLK1)

Prepared: 06/29/2023 Analyzed: 06/30/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

##### Duplicate (B3F2915-DUP1)

Source: Y306745-01

Prepared: 06/29/2023 Analyzed: 06/30/2023

SAR 0.00 SAR 0.431 200 200

Calcium PPM 180 10.0 mg/L 213 16.7 50

Magnesium PPM 75.9 10.0 " 85.4 11.8 50

Sodium PPM 31.7 10.0 " 29.4 7.48 50

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F2918 - Saturated Paste pH/EC</b>										
<b>Blank (B3F2918-BLK1)</b>					Prepared: 06/29/2023 Analyzed: 06/30/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3F2918-DUP1)</b>					<b>Source: Y306745-01</b> Prepared: 06/29/2023 Analyzed: 06/30/2023					
Specific Conductance (EC)	1.63	0.00500	mmhos/cm		1.79			9.31	25	
pH	8.19		pH Units		8.11			0.982	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L690893 - 3550B**

MSD (L 94751-MSD-L690893)		Source: 94751			Prepared: 07/05/2023 Analyzed: 07/05/2023					
Indeno(1,2,3-cd)pyrene	0.0875	0.00067	mg/Kg	0.163	<0.000627	53.6	30-130	6	30	
Dibenz(a,h)anthracene	0.121	0.00067	"	0.163	<0.000614	74.2	30-130	10.1	30	
1-Methylnaphthalene	0.0822	0.00201	"	0.163	<0.00109	50.4	30-130	2.1	30	
Chrysene	0.101	0.00067	"	0.163	<0.000624	61.9	30-130	12.9	30	
Benzo(k)fluoranthene	0.0826	0.00067	"	0.163	<0.000437	50.6	30-130	8	30	
Benzo(b)fluoranthene	0.0769	0.00067	"	0.163	<0.000585	47.1	30-130	8.8	30	
Benzo(a)pyrene	0.104	0.00067	"	0.163	<0.000468	63.8	30-130	14.2	30	
Benzo(a)anthracene	0.0974	0.00067	"	0.163	<0.000493	59.7	30-130	13.9	30	
Pyrene	0.096	0.00067	"	0.163	<0.000643	58.8	30-130	8	30	
Acenaphthene	0.0885	0.00067	"	0.163	<0.000304	54.2	30-130	7.2	30	
2-Methylnaphthalene	0.084	0.00201	"	0.163	<0.00194	51.5	30-130	2	30	
Fluoranthene	0.0978	0.00067	"	0.163	<0.000394	60	30-130	7.1	30	
Fluorene	0.101	0.00067	"	0.163	<0.000286	61.9	30-130	8.5	30	
Anthracene	0.107	0.00067	"	0.163	<0.000334	65.6	30-130	6.3	30	
Surrogate: 4-Terphenyl-d14	47.2		"	0.326	183	47.2	33-122			
Surrogate: Nitrobenzene-d5	29.8		"	0.326	124	29.8	29-110			
Surrogate: 2-Fluorobiphenyl	28.8		"	0.326	129	28.8	33-115			*

MS (L 94751-MS-L690893)		Source: 94751			Prepared: 07/05/2023 Analyzed: 07/05/2023					
Benzo(a)anthracene	0.112	0.00067	mg/Kg	0.166	<0.000493	67.4	30-130			
Pyrene	0.104	0.00067	"	0.166	<0.000643	62.6	30-130			
Benzo(a)pyrene	0.12	0.00067	"	0.166	<0.000468	72.2	30-130			
1-Methylnaphthalene	0.084	0.00201	"	0.166	<0.00109	50.6	30-130			
2-Methylnaphthalene	0.0857	0.00201	"	0.166	<0.00194	51.6	30-130			
Acenaphthene	0.0952	0.00067	"	0.166	<0.000304	57.3	30-130			
Benzo(b)fluoranthene	0.084	0.00067	"	0.166	<0.000585	50.6	30-130			
Anthracene	0.114	0.00067	"	0.166	<0.000334	68.6	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L690893 - 3550B**

MS (L 94751-MS-L690893)		Source: 94751			Prepared: 07/05/2023 Analyzed: 07/05/2023					
Indeno(1,2,3-cd)pyrene	0.093	0.00067	mg/Kg	0.166	<0.000627	56	30-130			
Benzo(k)fluoranthene	0.0895	0.00067	"	0.166	<0.000437	53.9	30-130			
Chrysene	0.115	0.00067	"	0.166	<0.000624	69.2	30-130			
Dibenz(a,h)anthracene	0.134	0.00067	"	0.166	<0.000614	80.7	30-130			
Fluoranthene	0.105	0.00067	"	0.166	<0.000394	63.2	30-130			
Fluorene	0.11	0.00067	"	0.166	<0.000286	66.2	30-130			
Surrogate: Nitrobenzene-d5	39.7		"	0.332	124	39.7	29-110			
Surrogate: 2-Fluorobiphenyl	43.9		"	0.332	129	43.9	33-115			
Surrogate: 4-Terphenyl-d14	57.2		"	0.332	183	57.2	33-122			

LCS (LCS-L690893)		Prepared: 07/05/2023 Analyzed: 07/05/2023								
Pyrene	0.11	0.00067	mg/Kg	0.167		65.8	30-130			
Acenaphthene	0.107	0.00067	"	0.167		64	30-130			
2-Methylnaphthalene	0.104	0.00201	"	0.167		62.2	30-130			
Benzo(a)anthracene	0.111	0.00067	"	0.167		66.4	30-130			
Indeno(1,2,3-cd)pyrene	0.102	0.00067	"	0.167		61	30-130			
Anthracene	0.124	0.00067	"	0.167		74.2	30-130			
Benzo(a)pyrene	0.121	0.00067	"	0.167		72.4	30-130			
Benzo(b)fluoranthene	0.0869	0.00067	"	0.167		52	30-130			
Benzo(k)fluoranthene	0.0966	0.00067	"	0.167		57.8	30-130			
Dibenz(a,h)anthracene	0.141	0.00067	"	0.167		84.4	30-130			
Fluoranthene	0.112	0.00067	"	0.167		67	30-130			
Fluorene	0.12	0.00067	"	0.167		71.8	30-130			
Chrysene	0.115	0.00067	"	0.167		68.8	30-130			
1-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Surrogate: Nitrobenzene-d5	45.3		"	0.333		45.3	29-110			
Surrogate: 2-Fluorobiphenyl	55.5		"	0.333		55.5	33-115			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L690893 - 3550B</b>										
<b>LCS (LCS-L690893)</b>					Prepared: 07/05/2023 Analyzed: 07/05/2023					
Surrogate: 4-Terphenyl-d14	60.9		mg/Kg	0.333		60.9	33-122			
<b>LRB (LRB-L690893)</b>					Prepared: 07/05/2023 Analyzed: 07/05/2023					
Anthracene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	42.3		"	0.333		42.3	29-110			
Surrogate: 2-Fluorobiphenyl	52.8		"	0.333		52.8	33-115			
Surrogate: 4-Terphenyl-d14	62.1		"	0.333		62.1	33-122			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Hansen O #1-23

## Notes and Definitions

U Sample is Non-Detect.

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

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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