

Wellhead Closure Checklist						
COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form						
Additional attachments (optional):		Pit Closure —		Tank Battery Closure —	Flowline Closure 07/07/23 - 07/12-23	Partially Buried Vault Closure —
Site Name & COGCC Facility Number: Pedro State G #36-20		Date: 06/09/23				Remediation Project #: 28228
Associated Wells: 05-123-25356		Age of Site: Years				Number of Photos Attached: 2
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)					40.268878 / -104.616361	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)						
Good Condition						
USCS Soil Type: Clayey SAND				Estimated Depth to Groundwater: Approx. 20-30'		
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	05-123-25356					
Age	Years					
Condition of surface around wellhead	Good - No Odor/Staining					
PID Readings	WH-N: 4.8	WH-E: 3.3	WH-S: 5.9	WH-W: 6.4		
Condition of subsurface (staining present)	Good - No Odor/Staining					
PID Readings	18.2	33.8	70.5	31.4	44.7	
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: 9				Total number of samples collected: 9		
Highest PID Reading: 70.5				Total number of samples submitted to lab for analysis: 5		
If more than 10 cubic yards of impacted soil were observed:						
Vertical extent:				Estimated spill volume:		
Lateral extent:				Volume of soil removed:		
N/A						
Is additional investigation required?						
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:		
N/A						
Total number of samples collected:				Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:						



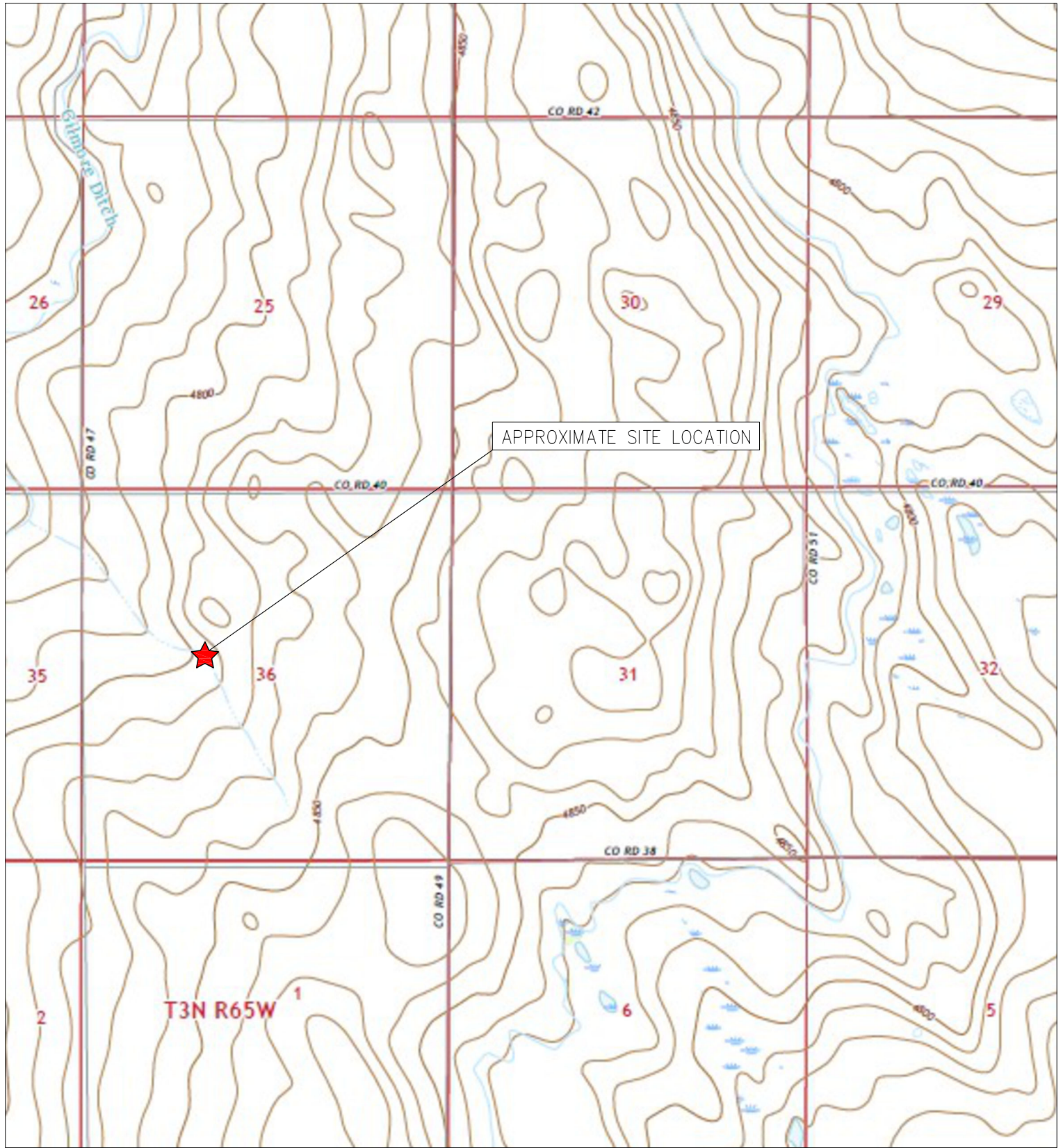
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Sample Location Map

Figure 4: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 PEDRO STATE G #36-20
 CLOSURE ASSESSMENT
 40.268878 / -104.616361
 SE¼ NW¼ SEC.36 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-25356
 REMEDIATION # 28228



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

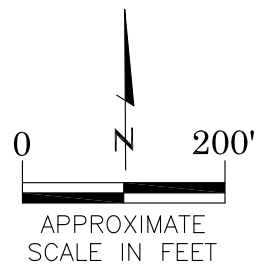
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER PEDRO STATE G #36-20 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



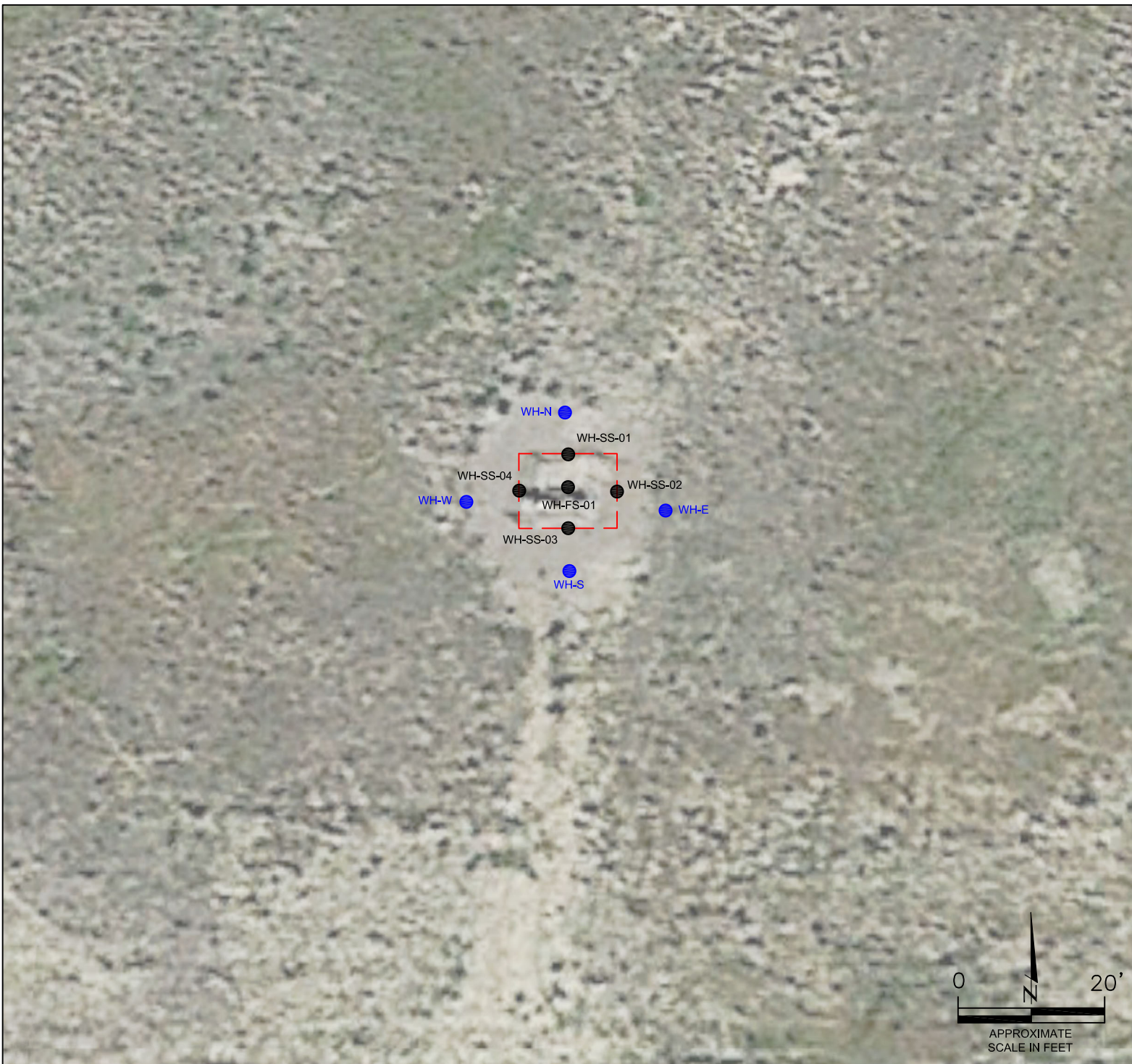
AERIAL SITE LOCATION MAP
 PEDRO STATE G #36-20
 CLOSURE ASSESSMENT
 40.268878 / -104.616361
 SE¼ NW¼ SEC.36 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-25356
 REMEDIATION # 28228

FIGURE NO.
2

DRAWN BY:
JF



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LEGEND

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

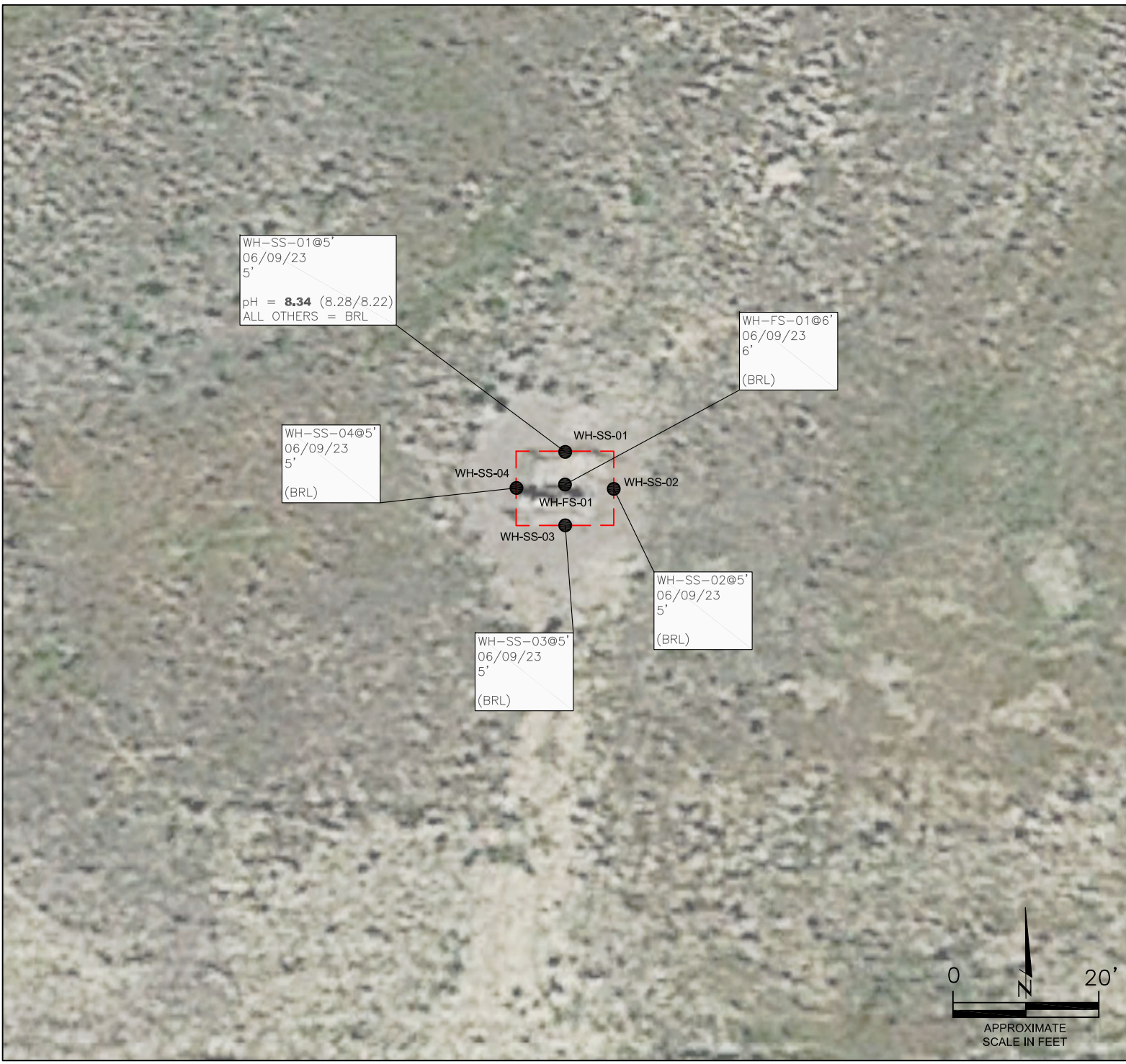
SOIL SAMPLE LOCATION MAP
PEDRO STATE G #36-20
CLOSURE ASSESSMENT
40.268878 / -104.616361
SE¼ NW¼ SEC.36 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-25356
REMEDATION # 28228

FIGURE NO.
3

DRAWN BY:
JF



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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES
SS-02 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-GRO (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 = MILLIMHOS PER CENTIMETER

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS – GASOLINE
RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS – DIESEL
RANGE ORGANICS

TPH-RRO = TOTAL PETROLEUM HYDROCARBONS – RESIDUAL
RANGE ORGANICS

NOTES:
LABORATORY RERUNS WERE COMPLETED AS APPLICABLE ON
SAMPLES WITH pH VALUES OUTSIDE ECMC TABLE 915-1
REGULATORY RANGE. RESULTS OF THE RERUNS ARE
PRESENTED IN PARENTHESES.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
PEDRO STATE 'G' #36-20
CLOSURE ASSESSMENT
40.268878 / -104.616361
SE¼ NW¼ SEC.36 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-25356
REMEDIATION # 28228

FIGURE NO.
4

DRAWN BY:
JF



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
PEDRO STATE G #36-20
CLOSURE ASSESSMENT
40.268878/-104.616361
SE¼ NW¼ SEC.36 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-25356
REMEDATION # 28228

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.268904 / -104.616362)	06/09/23	5	18.2	Y
WH-SS-02 @ 5' (40.268892 / -104.616344)	06/09/23	5	33.8	Y
WH-SS-03 @ 5' (40.268878 / -104.616362)	06/09/23	5	70.5	Y
WH-SS-04 @ 5' (40.268893 / -104.616381)	06/09/23	5	31.4	Y
WH-FS-01 @ 6' (40.268890 / -104.616366)	06/09/23	6	44.7	Y
WH-N @ 0.5' (40.268924 / -104.616356)	06/09/23	0.5	4.8	N
WH-E @ 0.5' (40.268886 / -104.616311)	06/09/23	0.5	3.3	N
WH-S @ 0.5' (40.268856 / -104.616365)	06/09/23	0.5	5.9	N
WH-W @ 0.5' (40.268889 / -104.616422)	06/09/23	0.5	6.4	N
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
PEDRO STATE G #36-20
CLOSURE ASSESSMENT
40.268878 / -104.616361
SE¼ NW¼ SEC.36 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-25356
REMEDATION # 28228

Sample Location		WH-SS-01 @ 5'	WH-SS-02 @ 5'	WH-SS-03 @ 5'	WH-SS-04 @ 5'	WH-FS-01 @ 6'
(Latitude / Longitude)		(40.268904 / -104.616362)	(40.268892 / -104.616344)	(40.268878 / -104.616362)	(40.268893 / -104.616381)	(40.268890 / -104.616366)
Sample Date		6/9/2023	6/9/2023	6/9/2023	6/9/2023	6/9/2023
Sample Depth		5'	5'	5'	5'	6'
PID Reading (ppm-v)		18.2	33.8	70.5	31.4	44.7
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	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	<0.00200	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	<0.00380	<0.00380	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	<0.200	<0.200	<0.200
TPH-DRO	mg/kg	500	--	<25.0	<25.0	<25.0
TPH-RRO	mg/kg	500	--	<100	<100	<100
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201	<0.00201	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201	<0.00201	<0.00201
Acenaphthene	mg/kg	360	0.55	<0.00067	<0.00067	<0.00067
Anthracene	mg/kg	1800	5.8	<0.00067	<0.00067	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067	<0.00067	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067	<0.00067	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067	<0.00067	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067	<0.00067	<0.00067
Chrysene	mg/kg	110	9	<0.00067	<0.00067	<0.00067
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067	<0.00067	<0.00067
Fluoranthene	mg/kg	240	8.9	<0.00067	<0.00067	<0.00067
Fluorene	mg/kg	240	0.54	<0.00067	<0.00067	<0.00067
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067	<0.00067	<0.00067
Pyrene	mg/kg	180	1.3	<0.00067	<0.00067	<0.00067
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	0.400	0.808	0.923
pH	standard unit	6-8.3	--	8.34 (8.28 / 8.22)	7.89	8.26
Sodium Adsorption Ratio (SAR)	--	<6	--	0.447	1.01	0.297
Specific Conductance (EC)	mmhos/cm	<4	--	0.766	0.683	0.761
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Laboratory reruns were completed on samples with pH values outside of ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses. Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits.						



ATTACHMENT A

Photo Log

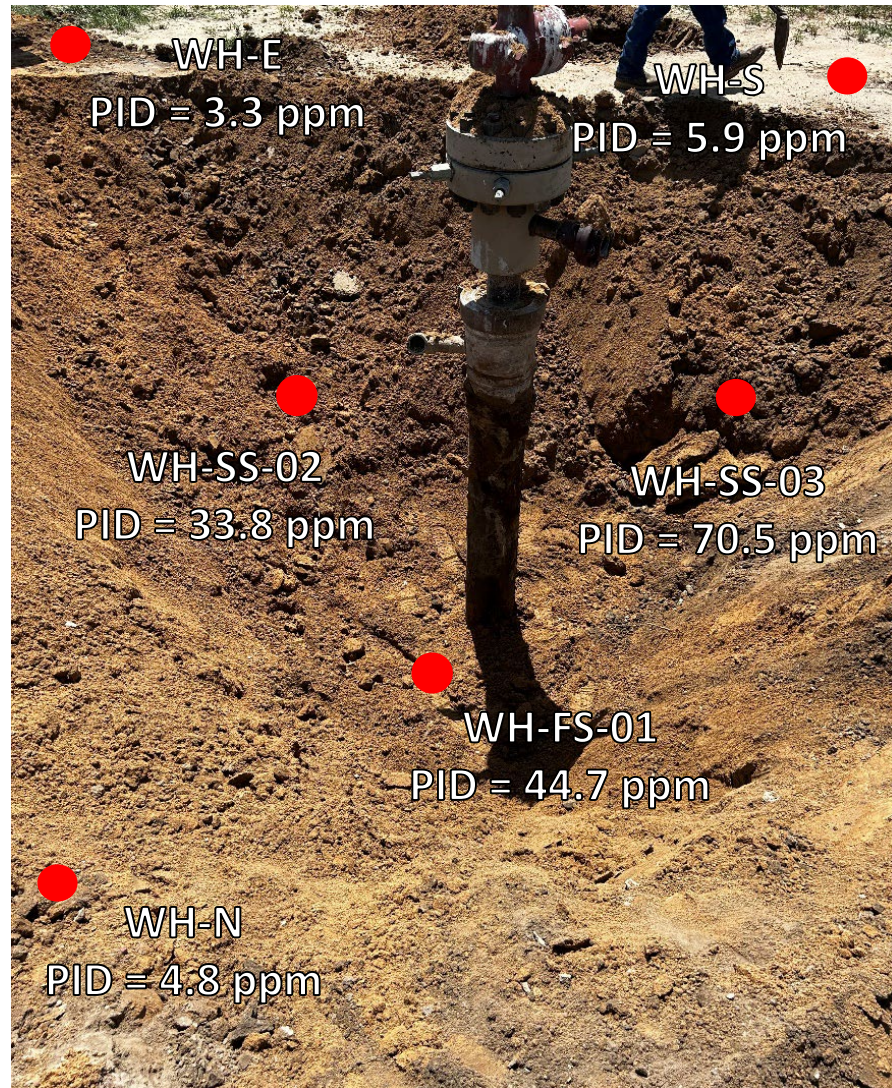
Pedro State G #36-20
API # 05-123-25356
Remediation # 28228

Closure Assessment

June 2023

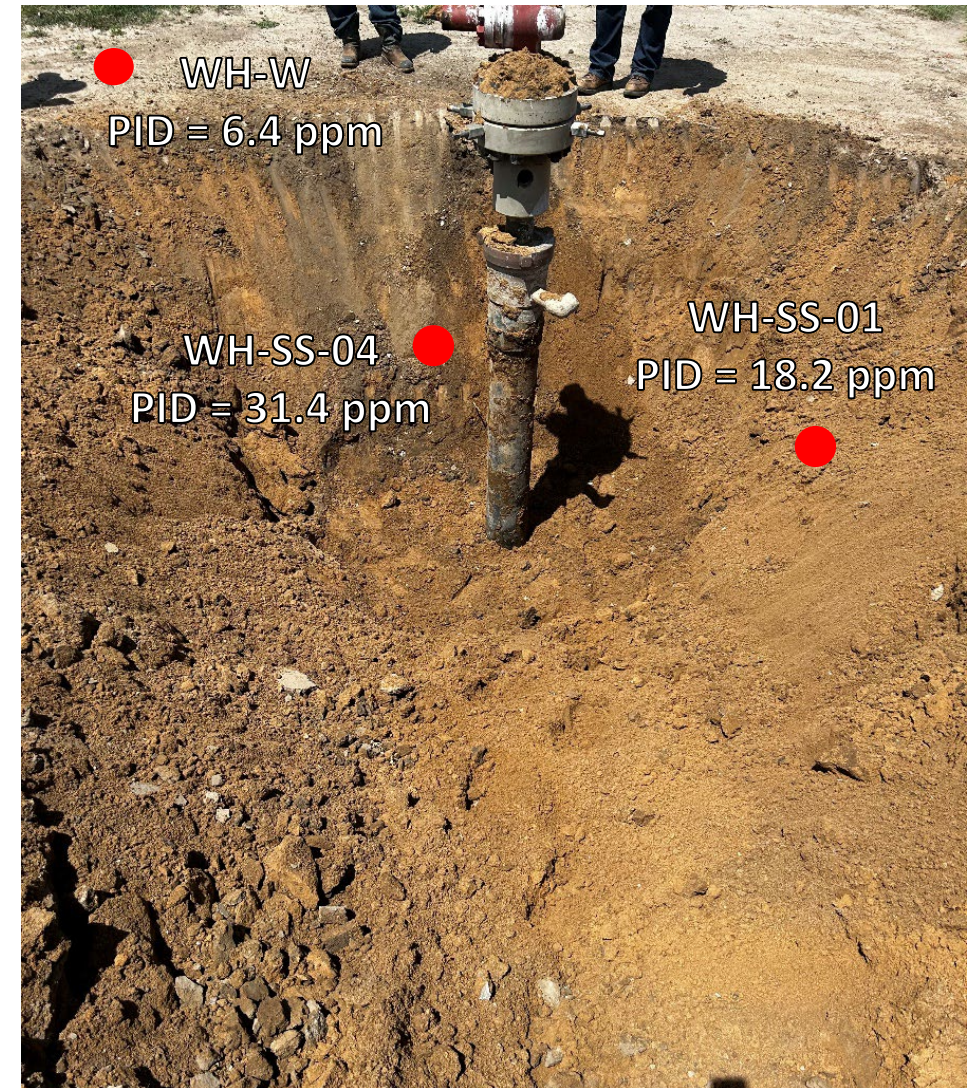


Wellhead Excavation – 06/09/23



Looking southeast

No petroleum hydrocarbon staining or odor observed



Looking west

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



June 23, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Pedro State G #36-20

Project Number - [none]

Attached are your analytical results for Noble - Pedro State G #36-20 received by Origins Laboratory, Inc. June 09, 2023. This project is associated with Origins project number Y306237-01.

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 - Pedro State G #36-20

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y306237-01	Soil	June 9, 2023 11:35	06/09/2023 15:35
WH-SS-02@5'	Y306237-02	Soil	June 9, 2023 11:37	06/09/2023 15:35
WH-SS-03@5'	Y306237-03	Soil	June 9, 2023 11:39	06/09/2023 15:35
WH-SS-04@5'	Y306237-04	Soil	June 9, 2023 11:41	06/09/2023 15:35
WH-FS-01@6'	Y306237-05	Soil	June 9, 2023 11:43	06/09/2023 15:35

A pH rerun was requested on WH-SS-01@5' per Kendra's email on 06/19/2023. No errors were found in the original data, all three results are reported. JAB

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pedro State G #36-20

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ✓ 306237

Client: Eagle

Client Project ID: Pedro State G 36-20

Checklist Completed by: SG/CHS

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

Date/time completed: 6/12/23

Airbill #: 514

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

Cooler Number/Temperature: 1 / 4.0 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T004

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"/>	<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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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)

Date/Time Reviewed

Origins Laboratory, Inc.

J. 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 - Pedro State G #36-20

WH-SS-01@5'
6/9/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.400	0.101	mg/L	1	B3F1405	06/14/2023	06/15/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1201	06/12/2023	06/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1223	06/12/2023	06/13/2023	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

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 - Pedro State G #36-20

WH-SS-01@5'
6/9/2023 11:35:00AM

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

Origins Laboratory, Inc.
Y306237-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	85.8 %	70-130	B3F12 23	06/12/2023	06/13/2023
Surrogate: Toluene-d8	96.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	82.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.71	0.499	meq/L	10	[CALC]	06/12/2023	06/14/2023
Magnesium	1.68	0.823	"	"	"	"	"
Sodium	0.733	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L687487	06/14/2023	06/14/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	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 - Pedro State G #36-20

WH-SS-01@5'
6/9/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306237-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L687487	06/14/2023	06/14/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.34	pH Units	1	B3F1220	06/12/2023	06/13/2023
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SAR by 20B Saturated Paste

SAR	0.447	SAR	1	B3F1219	06/12/2023	06/14/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.766	0.00500	mmhos/cm	1	B3F1220	06/12/2023	06/13/2023
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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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pedro State G #36-20

WH-SS-01@5'

6/9/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-01RE1 (Soil)

pH in Soil by 9045D

pH	8.28			pH Units	1	B3F2012	06/12/2023	06/21/2023	
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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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pedro State G #36-20

WH-SS-01@5'

6/9/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-01RE2 (Soil)

pH in Soil by 9045D

pH	8.22			pH Units	1	B3F2012	06/12/2023	06/21/2023	
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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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pedro State G #36-20

WH-SS-02@5'
6/9/2023 11:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.808	0.101	mg/L	1	B3F1405	06/14/2023	06/15/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1201	06/12/2023	06/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1223	06/12/2023	06/13/2023	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

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 - Pedro State G #36-20

WH-SS-02@5'
6/9/2023 11:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	88.3 %		70-130			B3F12 23	06/12/2023	06/13/2023	
Surrogate: Toluene-d8	97.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	85.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.87		0.499	meq/L	10	[CALC]	06/12/2023	06/14/2023	
Magnesium	0.896		0.823	"	"	"	"	"	
Sodium	1.38		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L687487	06/14/2023	06/14/2023	
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	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	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 - Pedro State G #36-20

WH-SS-02@5'
6/9/2023 11:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306237-02 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L687487	06/14/2023	06/14/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.8 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.89	pH Units	1	B3F1220	06/12/2023	06/13/2023
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SAR by 20B Saturated Paste

SAR	1.01	SAR	1	B3F1219	06/12/2023	06/14/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.683	0.00500	mmhos/cm	1	B3F1220	06/12/2023	06/13/2023
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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 - Pedro State G #36-20

WH-SS-03@5'
6/9/2023 11:39:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.923	0.102	mg/L	1	B3F1405	06/14/2023	06/15/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1201	06/12/2023	06/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1223	06/12/2023	06/13/2023	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

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 - Pedro State G #36-20

WH-SS-03@5'
6/9/2023 11:39:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	88.0 %		70-130			B3F12 23	06/12/2023	06/13/2023	
Surrogate: Toluene-d8	96.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	82.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.28		0.499	meq/L	10	[CALC]	06/12/2023	06/14/2023	
Magnesium	1.43		0.823	"	"	"	"	"	
Sodium	0.502		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L687487	06/14/2023	06/14/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000548	0.000493	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	0.00131	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000966	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00117	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000969	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 - Pedro State G #36-20

WH-SS-03@5'
6/9/2023 11:39:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306237-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L687487	06/14/2023	06/14/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00144	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.26	pH Units	1	B3F1220	06/12/2023	06/13/2023
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SAR by 20B Saturated Paste

SAR	0.297	SAR	1	B3F1219	06/12/2023	06/14/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.761	0.00500	mmhos/cm	1	B3F1220	06/12/2023	06/13/2023
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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 - Pedro State G #36-20

WH-SS-04@5'
6/9/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.328	0.0981	mg/L	1	B3F1405	06/14/2023	06/15/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1201	06/12/2023	06/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.6 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1223	06/12/2023	06/13/2023	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

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 - Pedro State G #36-20

WH-SS-04@5'
6/9/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	89.6 %	70-130	B3F12 23	06/12/2023	06/13/2023
Surrogate: Toluene-d8	96.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.22	0.499	meq/L	10	[CALC]	06/12/2023	06/14/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.63	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L687487	06/14/2023	06/14/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	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 - Pedro State G #36-20

WH-SS-04@5'
6/9/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306237-04 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L687487	06/14/2023	06/14/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	54.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.94	pH Units	1	B3F1220	06/12/2023	06/13/2023
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SAR by 20B Saturated Paste

SAR	3.95	SAR	1	B3F1219	06/12/2023	06/14/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.760	0.00500	mmhos/cm	1	B3F1220	06/12/2023	06/13/2023
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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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pedro State G #36-20

WH-FS-01@6'
6/9/2023 11:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.443	0.101	mg/L	1	B3F1405	06/14/2023	06/15/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F1201	06/12/2023	06/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F1223	06/12/2023	06/13/2023	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

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pedro State G #36-20

WH-FS-01@6'
6/9/2023 11:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306237-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	88.1 %	70-130	B3F12 23	06/12/2023	06/13/2023
Surrogate: Toluene-d8	96.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	83.0 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.68	0.499	meq/L	10	[CALC]	06/12/2023	06/14/2023
Magnesium	0.871	0.823	"	"	"	"	"
Sodium	0.840	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L687487	06/14/2023	06/14/2023
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	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	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 - Pedro State G #36-20

WH-FS-01@6'
6/9/2023 11:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306237-05 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L687487	06/14/2023	06/14/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.28	pH Units	1	B3F1220	06/12/2023	06/13/2023
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SAR by 20B Saturated Paste

SAR	0.743	SAR	1	B3F1219	06/12/2023	06/14/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.540	0.00500	mmhos/cm	1	B3F1220	06/12/2023	06/13/2023
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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 - Pedro State G #36-20

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 B3F1201 - EPA 3550B										
Blank (B3F1201-BLK1)					Prepared: 06/12/2023 Analyzed: 06/13/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		107	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 - Pedro State G #36-20

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 B3F1201 - EPA 3550B

LCS (B3F1201-BS1)

Prepared: 06/12/2023 Analyzed: 06/13/2023

Diesel (C10-C28)	1170	50.0	mg/kg	1000		117	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000		116	70-130			
Surrogate: o-Terphenyl	65		"	49.8		130	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 - Pedro State G #36-20

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 B3F1201 - EPA 3550B

Matrix Spike (B3F1201-MS1)		Source: Y306236-01			Prepared: 06/12/2023 Analyzed: 06/13/2023					
Diesel (C10-C28)	1130	50.0	mg/kg	1000	ND	113	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	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 - Pedro State G #36-20

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 B3F1201 - EPA 3550B										
Matrix Spike Dup (B3F1201-MSD1)		Source: Y306236-01			Prepared: 06/12/2023 Analyzed: 06/13/2023					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130	3.25	35	
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130	0.641	35	
Surrogate: o-Terphenyl	57		"	49.8		114	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 - Pedro State G #36-20

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 B3F1223 - EPA 5030 (soil)										
Blank (B3F1223-BLK1)					Prepared: 06/12/2023 Analyzed: 06/13/2023					
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	0.11		"	0.125		84.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.7	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 - Pedro State G #36-20

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 B3F1223 - EPA 5030 (soil)										
LCS (B3F1223-BS1)					Prepared: 06/12/2023 Analyzed: 06/13/2023					
1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Benzene	0.116	0.00200	"	0.100		116	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.0979	0.00380	"	0.100		97.9	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.234	0.00400	"	0.200		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.1	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 - Pedro State G #36-20

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 B3F1223 - EPA 5030 (soil)										
Matrix Spike (B3F1223-MS1)		Source: Y306236-01			Prepared: 06/12/2023 Analyzed: 06/13/2023					
1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	ND	113	70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130			
Benzene	0.113	0.00200	"	0.100	ND	113	70-130			
Ethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130			
Naphthalene	0.0840	0.00380	"	0.100	ND	84.0	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130			
m,p-Xylene	0.239	0.00400	"	0.200	ND	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.3	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pedro State G #36-20

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 B3F1223 - EPA 5030 (soil)										
Matrix Spike Dup (B3F1223-MSD1)			Source: Y306236-01		Prepared: 06/12/2023 Analyzed: 06/13/2023					
1,2,4-Trimethylbenzene	0.120	0.00200	mg/kg	0.100	ND	120	70-130	5.60	20	
1,3,5-Trimethylbenzene	0.122	0.00200	"	0.100	ND	122	70-130	2.67	20	
Benzene	0.119	0.00200	"	0.100	ND	119	70-130	5.76	20	
Ethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130	0.467	20	
Naphthalene	0.110	0.00380	"	0.100	ND	110	70-130	27.1	20	QR-02
Toluene	0.110	0.00200	"	0.100	ND	110	70-130	2.83	20	
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130	2.76	20	
m,p-Xylene	0.241	0.00400	"	0.200	ND	120	70-130	0.592	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.0	70-130			

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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 - Pedro State G #36-20

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 B3F1219 - Saturated Paste Metals

Blank (B3F1219-BLK1)

Prepared: 06/12/2023 Analyzed: 06/14/2023

SAR	0.00		SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

Duplicate (B3F1219-DUP1)

Source: Y306236-01

Prepared: 06/12/2023 Analyzed: 06/14/2023

SAR	0.00		SAR	1.40	200	200
Calcium PPM	17.8	10.0	mg/L	18.0	1.51	50
Magnesium PPM	3.19	10.0	"	3.28	2.78	50
Sodium PPM	21.8	10.0	"	24.6	12.3	50

Batch B3F1405 - DTPA Sorbitol Preparation

Blank (B3F1405-BLK1)

Prepared: 06/14/2023 Analyzed: 06/15/2023

Boron	ND	0.100	mg/L
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Duplicate (B3F1405-DUP1)

Source: Y306237-01

Prepared: 06/14/2023 Analyzed: 06/15/2023

Boron	0.360	0.101	mg/L	0.400	10.7	50
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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 - Pedro State G #36-20

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F1220 - Saturated Paste pH/EC										
Blank (B3F1220-BLK1)					Prepared: 06/12/2023 Analyzed: 06/13/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3F1220-DUP1)					Source: Y306236-01 Prepared: 06/12/2023 Analyzed: 06/13/2023					
Specific Conductance (EC)	0.231	0.00500	mmhos/cm		0.269			15.2	25	
pH	8.33		pH Units		8.41			0.956	25	
Batch B3F2012 - Saturated Paste pH/EC										
Duplicate (B3F2012-DUP1)					Source: Y306443-01 Prepared: 06/20/2023 Analyzed: 06/21/2023					
pH	8.02		pH Units		7.96			0.751	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 - Pedro State G #36-20

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 L687487 - 3550B

MSD (L 86230-MSD-L687487)		Source: 86230			Prepared: 06/14/2023 Analyzed: 06/14/2023					
Dibenz(a,h)anthracene	0.144	0.00067	mg/Kg	0.163	<0.000614	88.3	30-130	9.4	30	
2-Methylnaphthalene	0.105	0.00201	"	0.163	0.00726	59.9	30-130	0.9	30	
Pyrene	0.106	0.00067	"	0.163	0.0031	63.1	30-130	8.1	30	
Indeno(1,2,3-cd)pyrene	0.131	0.00067	"	0.163	<0.000627	80.3	30-130	7.9	30	
Fluoranthene	0.107	0.00067	"	0.163	0.000887	65.1	30-130	5.4	30	
Chrysene	0.107	0.00067	"	0.163	0.00707	61.3	30-130	3.6	30	
Acenaphthene	0.11	0.00067	"	0.163	0.00784	62.6	30-130	1.8	30	
Fluorene	0.131	0.00067	"	0.163	0.026	64.4	30-130	7.1	30	
Benzo(k)fluoranthene	0.0922	0.00067	"	0.163	<0.000437	56.5	30-130	4.4	30	
Anthracene	0.0814	0.00067	"	0.163	<0.000334	49.9	30-130	6.1	30	
Benzo(a)anthracene	0.122	0.00067	"	0.163	0.00269	73.1	30-130	3.3	30	
Benzo(a)pyrene	0.118	0.00067	"	0.163	<0.000468	72.3	30-130	0.8	30	
Benzo(b)fluoranthene	0.0847	0.00067	"	0.163	<0.000585	51.9	30-130	11.8	30	
1-Methylnaphthalene	0.161	0.00201	"	0.163	0.0492	68.5	30-130	15.3	30	
Surrogate: Nitrobenzene-d5	61.4		"	0.327	181	61.4	29-110			
Surrogate: 2-Fluorobiphenyl	61.4		"	0.327	170	61.4	33-115			
Surrogate: 4-Terphenyl-d14	62.6		"	0.327	190	62.6	33-122			

MS (L 86230-MS-L687487)		Source: 86230			Prepared: 06/14/2023 Analyzed: 06/14/2023					
Chrysene	0.111	0.00067	mg/Kg	0.163	0.00707	63.7	30-130			
Indeno(1,2,3-cd)pyrene	0.121	0.00067	"	0.163	<0.000627	74.2	30-130			
Fluorene	0.122	0.00067	"	0.163	0.026	58.8	30-130			
Fluoranthene	0.113	0.00067	"	0.163	0.000887	68.7	30-130			
Dibenz(a,h)anthracene	0.131	0.00067	"	0.163	<0.000614	80.3	30-130			
2-Methylnaphthalene	0.106	0.00201	"	0.163	0.00726	60.5	30-130			
Benzo(b)fluoranthene	0.0954	0.00067	"	0.163	<0.000585	58.5	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.163	<0.000468	71.7	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 - Pedro State G #36-20

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 L687487 - 3550B

MS (L 86230-MS-L687487)		Source: 86230			Prepared: 06/14/2023 Analyzed: 06/14/2023					
Benzo(a)anthracene	0.118	0.00067	mg/Kg	0.163	0.00269	70.7	30-130			
Acenaphthene	0.108	0.00067	"	0.163	0.00784	61.4	30-130			
Pyrene	0.115	0.00067	"	0.163	0.0031	68.6	30-130			
Benzo(k)fluoranthene	0.0964	0.00067	"	0.163	<0.000437	59.1	30-130			
Anthracene	0.0866	0.00067	"	0.163	<0.000334	53.1	30-130			
1-Methylnaphthalene	0.138	0.00201	"	0.163	0.0492	54.4	30-130			
Surrogate: 4-Terphenyl-d14	65.7		"	0.327	190	65.7	33-122			
Surrogate: Nitrobenzene-d5	59.3		"	0.327	181	59.3	29-110			
Surrogate: 2-Fluorobiphenyl	56.8		"	0.327	170	56.8	33-115			

LCS (LCS-L687487)		Prepared: 06/14/2023 Analyzed: 06/14/2023								
Dibenz(a,h)anthracene	0.115	0.00067	mg/Kg	0.167		68.8	30-130			
Fluoranthene	0.131	0.00067	"	0.167		78.4	30-130			
Pyrene	0.134	0.00067	"	0.167		80.2	30-130			
Fluorene	0.129	0.00067	"	0.167		77.2	30-130			
Chrysene	0.115	0.00067	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.103	0.00067	"	0.167		61.6	30-130			
1-Methylnaphthalene	0.107	0.00201	"	0.167		64	30-130			
Benzo(b)fluoranthene	0.111	0.00067	"	0.167		66.4	30-130			
Benzo(a)pyrene	0.125	0.00067	"	0.167		74.8	30-130			
Benzo(a)anthracene	0.128	0.00067	"	0.167		76.6	30-130			
Anthracene	0.123	0.00067	"	0.167		73.6	30-130			
Acenaphthene	0.114	0.00067	"	0.167		68.2	30-130			
2-Methylnaphthalene	0.106	0.00201	"	0.167		63.4	30-130			
Benzo(k)fluoranthene	0.116	0.00067	"	0.167		69.4	30-130			
Surrogate: Nitrobenzene-d5	65.1		"	0.333		65.1	29-110			
Surrogate: 4-Terphenyl-d14	79.5		"	0.333		79.5	33-122			

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 - Pedro State G #36-20

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
Batch L687487 - 3550B										
LCS (LCS-L687487)					Prepared: 06/14/2023 Analyzed: 06/14/2023					
Surrogate: 2-Fluorobiphenyl	64.2		mg/Kg	0.333		64.2	33-115			
LRB (LRB-L687487)					Prepared: 06/14/2023 Analyzed: 06/14/2023					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333		69.6	33-122			
Surrogate: 2-Fluorobiphenyl	58.2		"	0.333		58.2	33-115			

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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 - Pedro State G #36-20

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

J Estimated Value. Analyte below reported quantitation limit.

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.

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Jordan A. Bynon, Project Manager