



Eagle Environmental Consulting, LLC

January 02, 2025

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble Pad PW Dumpline Release Project Number - [none]

Attached are your analytical results for Noble Pad PW Dumpline Release received by Origins Laboratory November 11, 2024. This project is associated with Origins project number E4K0266-01.

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
303.433.1322
projectmanager@originslab.com



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

David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-SS-01@4'	E4K0266-01	Soil	November 11, 2024 9:35	11/11/2024 13:26
EX-SS-02@4'	E4K0266-02	Soil	November 11, 2024 9:40	11/11/2024 13:26
EX-SS-03@4'	E4K0266-03	Soil	November 11, 2024 9:47	11/11/2024 13:26
EX-SS-04@4'	E4K0266-04	Soil	November 11, 2024 9:53	11/11/2024 13:26
EX-FS-01@6'	E4K0266-05	Soil	November 11, 2024 10:00	11/11/2024 13:26

Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Client: Eagle Environmental Consulting
 Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-433-0479
 Email Address: dcastro@eagle-environment.com
 Project Manager: David Castro
 Project Name: Noble Pad PW Dumpline Release
 Project Number: ---
 Collected By: DA
 Invoice/Billing Info: Private Property
 S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide
 L=Liquid
 W=Water
 GW=Groundwater
 SW=Surface Water
 WW=Waste Water

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis		Comments
1	EX-55-01(EU)	11/11/24	0645	3	S	UNP	X		EC/SMP/PL/2
2	EX-55-02(EU)		0940						sampled in ice bag
3	EX-55-03(EU)		0947						
4	EX-55-04(EU)		0853						
5	EX-55-01(EU)		1000						to HPLC needed
6									
7									
8									
9									
10									

Relinquished By: [Signature] Date: 11/11/24 Time: 1516
 Received By: [Signature] Date: 11/11/24 Time: 1320
 Relequished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Temp Received - 4.3 Received On Ice? Yes No
 Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr
 Standard

Origins Laboratory

[Signature]

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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E440206

Client: Eagle
 Client Project ID: Noble Pad

Checklist Completed by: SHD
 Date/time completed: 11/11/12

Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1143 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: 1007

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

Date/Time Reviewed: 11/11/12

Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-01@4'

11/11/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E4K0266-01 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.250		0.0993	mg/L	1	B4K1203	11/12/2024	11/13/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K1101	11/11/2024	11/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	74.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K1134	11/11/2024	11/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
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Origins Laboratory



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8000 W 44th Ave
Wheat Ridge CO 80033

David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

EX-SS-01@4'

11/11/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0266-01 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4K11 34	11/11/2024	11/11/2024	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	20.9		0.499	meq/L	10	[CALC]	11/12/2024	11/13/2024	
Magnesium	20.3		0.823	"	"	"	"	"	
Sodium	0.905		0.435	"	"	"	"	"	

PAH by 8270E SIM

1-Methylnaphthalene	ND	0.00134	0.00406	mg/kg dry	1	2726909	12/27/2024	12/30/2024	hU
2-Methylnaphthalene	ND	0.00134	0.00406	"	"	"	"	"	hU
Acenaphthene	ND	0.00134	0.00406	"	"	"	"	"	hU
Anthracene	ND	0.00134	0.00406	"	"	"	"	"	hU
Benzo(a)anthracene	ND	0.00134	0.00406	"	"	"	"	"	hU
Benzo(a)pyrene	ND	0.00134	0.00406	"	"	"	"	"	hU
Benzo(b)fluoranthene	ND	0.00134	0.00406	"	"	"	"	"	hU
Benzo(k)fluoranthene	ND	0.00134	0.00406	"	"	"	"	"	hU
Chrysene	ND	0.00134	0.00406	"	"	"	"	"	hU
Dibenzo(a,h)anthracene	ND	0.00134	0.00406	"	"	"	"	"	hU
Fluoranthene	ND	0.00134	0.00406	"	"	"	"	"	hU

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David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

EX-SS-01@4'

11/11/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

E4K0266-01 (Soil)

PAH by 8270E SIM

Fluorene	ND	0.00134	0.00406	mg/kg dry	1	2726909	12/27/2024	12/30/2024	hU
Indeno(1,2,3-cd)pyrene	ND	0.00134	0.00406	"	"	"	"	"	hU
Naphthalene	ND	0.00134	0.00406	"	"	"	"	"	hU
Pyrene	ND	0.00134	0.00406	"	"	"	"	"	hU

Surrogate: 5-alpha-Androstane	80 %		22-135			"	"	"	
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pH in Soil by 9045D

pH	7.56			pH Units	1	B4K1210	11/12/2024	11/13/2024	
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SAR by 20B Saturated Paste

SAR	0.199		0.0100	SAR	1	B4K1205	11/12/2024	11/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.90		0.00500	mmhos/cm	1	B4K1210	11/12/2024	11/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.20		0.245	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Barium	160		8.46	"	"	"	"	"	
Cadmium	0.165		0.0846	"	"	"	"	"	

Origins Laboratory



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David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-01@4'

11/11/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E4K0266-01 (Soil)**

Table 915 metals by EPA 6020B

Copper	11.0		8.46	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Lead	10.7		0.846	"	"	"	"	"	
Nickel	13.4		0.846	"	"	"	"	"	
Selenium	0.279		0.220	"	"	"	"	"	
Silver	ND		0.0846	"	"	"	"	"	
Zinc	46.3		31.3	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.191	0.477	mg/kg dry	1	2716868	12/06/2024	12/13/2024	U
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Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-02@4'

11/11/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E4K0266-02 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.536		0.102	mg/L	1	B4K1203	11/12/2024	11/13/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K1101	11/11/2024	11/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	77.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K1134	11/11/2024	11/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
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Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-02@4'

11/11/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0266-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.4 %		70-130			B4K11 34	11/11/2024	11/11/2024	
Surrogate: 4-Bromofluorobenzene	98.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.44		0.499	meq/L	10	[CALC]	11/12/2024	11/13/2024	
Magnesium	2.20		0.823	"	"	"	"	"	
Sodium	1.95		0.435	"	"	"	"	"	

PAH by 8270E SIM

1-Methylnaphthalene	ND	0.00134	0.00406	mg/kg dry	1	2726909	12/27/2024	12/30/2024	hU
2-Methylnaphthalene	ND	0.00134	0.00406	"	"	"	"	"	hU
Acenaphthene	ND	0.00134	0.00406	"	"	"	"	"	hU
Anthracene	ND	0.00134	0.00406	"	"	"	"	"	hU
Benzo(a)anthracene	ND	0.00134	0.00406	"	"	"	"	"	hU
Benzo(a)pyrene	ND	0.00134	0.00406	"	"	"	"	"	hU
Benzo(b)fluoranthene	ND	0.00134	0.00406	"	"	"	"	"	hU
Benzo(k)fluoranthene	ND	0.00134	0.00406	"	"	"	"	"	hU
Chrysene	ND	0.00134	0.00406	"	"	"	"	"	hU
Dibenzo(a,h)anthracene	ND	0.00134	0.00406	"	"	"	"	"	hU
Fluoranthene	ND	0.00134	0.00406	"	"	"	"	"	hU

Origins Laboratory



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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-02@4'

11/11/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

E4K0266-02 (Soil)

PAH by 8270E SIM

Fluorene	ND	0.00134	0.00406	mg/kg dry	1	2726909	12/27/2024	12/30/2024	hU
Indeno(1,2,3-cd)pyrene	ND	0.00134	0.00406	"	"	"	"	"	hU
Naphthalene	ND	0.00134	0.00406	"	"	"	"	"	hU
Pyrene	ND	0.00134	0.00406	"	"	"	"	"	hU

Surrogate: 5-alpha-Androstane 51 % 22-135 " " "

pH in Soil by 9045D

pH 7.93 pH Units 1 B4K1210 11/12/2024 11/13/2024

SAR by 20B Saturated Paste

SAR 1.28 0.0100 SAR 1 B4K1205 11/12/2024 11/13/2024

Specific Conductance Mod. 9050A

Specific Conductance (EC) 0.840 0.00500 mmhos/cm 1 B4K1210 11/12/2024 11/13/2024

Table 915 metals by EPA 6020B

Arsenic 5.62 0.258 mg/kg 10 B4K1133 11/11/2024 11/12/2024
 Barium 169 8.89 " " " " "
 Cadmium 0.180 0.0889 " " " " "

Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-02@4'

11/11/2024 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E4K0266-02 (Soil)**

Table 915 metals by EPA 6020B

Copper	12.3		8.89	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Lead	11.6		0.889	"	"	"	"	"	
Nickel	14.7		0.889	"	"	"	"	"	
Selenium	0.287		0.231	"	"	"	"	"	
Silver	ND		0.0889	"	"	"	"	"	
Zinc	50.8		32.9	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.190	0.475	mg/kg dry	1	2716868	12/06/2024	12/13/2024	U
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Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-03@4'

11/11/2024 9:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0266-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.86		0.0995	mg/L	1	B4K1203	11/12/2024	11/13/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K1101	11/11/2024	11/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	78.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K1134	11/11/2024	11/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-03@4'

11/11/2024 9:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0266-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B4K11 34	11/11/2024	11/11/2024	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	14.8		0.499	meq/L	10	[CALC]	11/12/2024	11/13/2024	
Magnesium	8.29		0.823	"	"	"	"	"	
Sodium	75.1		0.435	"	"	"	"	"	

PAH by 8270E SIM

1-Methylnaphthalene	ND	0.00133	0.00403	mg/kg dry	1	2726909	12/27/2024	12/30/2024	hU
2-Methylnaphthalene	ND	0.00133	0.00403	"	"	"	"	"	hU
Acenaphthene	ND	0.00133	0.00403	"	"	"	"	"	hU
Anthracene	ND	0.00133	0.00403	"	"	"	"	"	hU
Benzo(a)anthracene	ND	0.00133	0.00403	"	"	"	"	"	hU
Benzo(a)pyrene	ND	0.00133	0.00403	"	"	"	"	"	hU
Benzo(b)fluoranthene	ND	0.00133	0.00403	"	"	"	"	"	hU
Benzo(k)fluoranthene	ND	0.00133	0.00403	"	"	"	"	"	hU
Chrysene	ND	0.00133	0.00403	"	"	"	"	"	hU
Dibenzo(a,h)anthracene	ND	0.00133	0.00403	"	"	"	"	"	hU
Fluoranthene	ND	0.00133	0.00403	"	"	"	"	"	hU

Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-03@4'

11/11/2024 9:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

E4K0266-03 (Soil)

PAH by 8270E SIM

Fluorene	ND	0.00133	0.00403	mg/kg dry	1	2726909	12/27/2024	12/30/2024	hU
Indeno(1,2,3-cd)pyrene	ND	0.00133	0.00403	"	"	"	"	"	hU
Naphthalene	ND	0.00133	0.00403	"	"	"	"	"	hU
Pyrene	ND	0.00133	0.00403	"	"	"	"	"	hU

Surrogate: 5-alpha-Androstane	72 %		22-135			"	"	"	
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pH in Soil by 9045D

pH	7.61			pH Units	1	B4K1210	11/12/2024	11/13/2024	
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SAR by 20B Saturated Paste

SAR	22.1		0.0100	SAR	1	B4K1205	11/12/2024	11/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	11.2		0.00500	mmhos/cm	1	B4K1210	11/12/2024	11/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.32		0.247	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Barium	153		8.52	"	"	"	"	"	
Cadmium	0.185		0.0852	"	"	"	"	"	

Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-03@4'

11/11/2024 9:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4K0266-03 (Soil)

Table 915 metals by EPA 6020B

Copper	12.5		8.52	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Lead	11.5		0.852	"	"	"	"	"	
Nickel	15.4		0.852	"	"	"	"	"	
Selenium	0.261		0.222	"	"	"	"	"	
Silver	ND		0.0852	"	"	"	"	"	
Zinc	51.7		31.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.200	0.500	mg/kg dry	1	2716868	12/06/2024	12/13/2024	U
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Origins Laboratory



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

David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

EX-SS-04@4'

11/11/2024 9:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0266-04 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.263		0.0999	mg/L	1	B4K1203	11/12/2024	11/13/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K1101	11/11/2024	11/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	82.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K1134	11/11/2024	11/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
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Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-04@4'

11/11/2024 9:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0266-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4K11 34	11/11/2024	11/11/2024	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	18.9		0.499	meq/L	10	[CALC]	11/12/2024	11/13/2024	
Magnesium	17.4		0.823	"	"	"	"	"	
Sodium	2.34		0.435	"	"	"	"	"	

PAH by 8270E SIM

1-Methylnaphthalene	ND	0.00134	0.00405	mg/kg dry	1	2726909	12/27/2024	12/30/2024	hU
2-Methylnaphthalene	ND	0.00134	0.00405	"	"	"	"	"	hU
Acenaphthene	ND	0.00134	0.00405	"	"	"	"	"	hU
Anthracene	ND	0.00134	0.00405	"	"	"	"	"	hU
Benzo(a)anthracene	ND	0.00134	0.00405	"	"	"	"	"	hU
Benzo(a)pyrene	ND	0.00134	0.00405	"	"	"	"	"	hU
Benzo(b)fluoranthene	ND	0.00134	0.00405	"	"	"	"	"	hU
Benzo(k)fluoranthene	ND	0.00134	0.00405	"	"	"	"	"	hU
Chrysene	ND	0.00134	0.00405	"	"	"	"	"	hU
Dibenzo(a,h)anthracene	ND	0.00134	0.00405	"	"	"	"	"	hU
Fluoranthene	ND	0.00134	0.00405	"	"	"	"	"	hU

Origins Laboratory



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

David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

EX-SS-04@4'

11/11/2024 9:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

E4K0266-04 (Soil)

PAH by 8270E SIM

Fluorene	ND	0.00134	0.00405	mg/kg dry	1	2726909	12/27/2024	12/30/2024	hU
Indeno(1,2,3-cd)pyrene	ND	0.00134	0.00405	"	"	"	"	"	hU
Naphthalene	ND	0.00134	0.00405	"	"	"	"	"	hU
Pyrene	ND	0.00134	0.00405	"	"	"	"	"	hU

Surrogate: 5-alpha-Androstane	82 %		22-135			"	"	"	
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pH in Soil by 9045D

pH	7.59			pH Units	1	B4K1210	11/12/2024	11/13/2024	
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SAR by 20B Saturated Paste

SAR	0.549		0.0100	SAR	1	B4K1205	11/12/2024	11/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.53		0.00500	mmhos/cm	1	B4K1210	11/12/2024	11/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.39		0.286	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Barium	156		9.88	"	"	"	"	"	
Cadmium	0.170		0.0988	"	"	"	"	"	

Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-SS-04@4'

11/11/2024 9:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
 E4K0266-04 (Soil)**

Table 915 metals by EPA 6020B

Copper	11.8		9.88	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Lead	11.4		0.988	"	"	"	"	"	
Nickel	14.6		0.988	"	"	"	"	"	
Selenium	0.288		0.257	"	"	"	"	"	
Silver	ND		0.0988	"	"	"	"	"	
Zinc	49.7		36.5	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.189	0.472	mg/kg dry	1	2716868	12/06/2024	12/13/2024	U
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Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-FS-01@6'

11/11/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0266-05 (Soil)

Boron (DTPA Sorbitol)

Boron	11.1		0.0998	mg/L	1	B4K1203	11/12/2024	11/13/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4K1101	11/11/2024	11/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	82.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4K1134	11/11/2024	11/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	0.0863		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	0.0334		0.00200	"	"	"	"	"	
Xylenes, total	0.0125		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	

Origins Laboratory



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

David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

EX-FS-01@6'

11/11/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory
E4K0266-05 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	98.2 %		70-130			B4K11 34	11/11/2024	11/11/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.66		0.499	meq/L	10	[CALC]	11/12/2024	11/13/2024	
Magnesium	1.09		0.823	"	"	"	"	"	
Sodium	128		4.35	"	100	"	"	11/14/2024	

PAH by 8270E SIM

1-Methylnaphthalene	0.00200	0.00132	0.00400	mg/kg dry	1	2726909	12/27/2024	12/30/2024	hJ
2-Methylnaphthalene	ND	0.00132	0.00400	"	"	"	"	"	hU
Acenaphthene	ND	0.00132	0.00400	"	"	"	"	"	hU
Anthracene	ND	0.00132	0.00400	"	"	"	"	"	hU
Benzo(a)anthracene	ND	0.00132	0.00400	"	"	"	"	"	hU
Benzo(a)pyrene	ND	0.00132	0.00400	"	"	"	"	"	hU
Benzo(b)fluoranthene	ND	0.00132	0.00400	"	"	"	"	"	hU
Benzo(k)fluoranthene	ND	0.00132	0.00400	"	"	"	"	"	hU
Chrysene	ND	0.00132	0.00400	"	"	"	"	"	hU
Dibenzo(a,h)anthracene	ND	0.00132	0.00400	"	"	"	"	"	hU
Fluoranthene	ND	0.00132	0.00400	"	"	"	"	"	hU
Fluorene	ND	0.00132	0.00400	"	"	"	"	"	hU

Origins Laboratory



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8000 W 44th Ave
Wheat Ridge CO 80033

David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

EX-FS-01@6'

11/11/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

E4K0266-05 (Soil)

PAH by 8270E SIM

Indeno(1,2,3-cd)pyrene	ND	0.00132	0.00400	mg/kg dry	1	2726909	12/27/2024	12/30/2024	hU
Naphthalene	ND	0.00132	0.00400	"	"	"	"	"	hU
Pyrene	ND	0.00132	0.00400	"	"	"	"	"	hU

Surrogate: 5-alpha-Androstane 71 % 22-135 " " "

pH in Soil by 9045D

pH 7.99 pH Units 1 B4K1210 11/12/2024 11/13/2024

SAR by 20B Saturated Paste

SAR 75.7 0.0100 SAR 1 B4K1205 11/12/2024 11/13/2024

Specific Conductance Mod. 9050A

Specific Conductance (EC) 12.9 0.00500 mmhos/cm 1 B4K1210 11/12/2024 11/13/2024

Table 915 metals by EPA 6020B

Arsenic	6.97	0.267	mg/kg	10	B4K1133	11/11/2024	11/12/2024
Barium	168	9.20	"	"	"	"	"
Cadmium	0.134	0.0920	"	"	"	"	"
Copper	11.8	9.20	"	"	"	"	"

Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

EX-FS-01@6'

11/11/2024 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4K0266-05 (Soil)

Table 915 metals by EPA 6020B

Lead	12.2		0.920	mg/kg	10	B4K1133	11/11/2024	11/12/2024	
Nickel	14.6		0.920	"	"	"	"	"	
Selenium	0.371		0.239	"	"	"	"	"	
Silver	ND		0.0920	"	"	"	"	"	
Zinc	50.9		34.1	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.194	0.484	mg/kg dry	1	2716868	12/06/2024	12/13/2024	U
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Origins Laboratory



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4K1101 - EPA 3550B										
Blank (B4K1101-BLK1)										
					Prepared: 11/11/2024 Analyzed: 11/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.4	50-150			

Origins Laboratory

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Jordan A. Bynon, Project Manager



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1101 - EPA 3550B

LCS (B4K1101-BS1)

Prepared: 11/11/2024 Analyzed: 11/11/2024

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.2	50-150			

Origins Laboratory

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Jordan A. Bynon, Project Manager



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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1101 - EPA 3550B

Matrix Spike (B4K1101-MS1)

Source: E4K0264-01

Prepared: 11/11/2024 Analyzed: 11/11/2024

Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	70-130			
Residual Range Organics (C28-C40)	1260	200	"	1000	ND	126	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Jordan A. Bynon, Project Manager



Eagle Environmental Consulting, LLC
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David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4K1101 - EPA 3550B										
Matrix Spike Dup (B4K1101-MSD1)					Source: E4K0264-01					Prepared: 11/11/2024 Analyzed: 11/11/2024
Diesel (C10-C28)	904	50.0	mg/kg	1000	ND	90.4	70-130	22.8	35	
Residual Range Organics (C28-C40)	968	200	"	1000	ND	96.8	70-130	26.6	35	
Surrogate: o-Terphenyl	36		"	49.8		72.6	50-150			

Origins Laboratory

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

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1134 - EPA 5030 (soil)

Blank (B4K1134-BLK1)

Prepared: 11/11/2024 Analyzed: 11/11/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	112		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

Origins Laboratory

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 8000 W 44th Ave
 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1134 - EPA 5030 (soil)

LCS (B4K1134-BS1)

Prepared: 11/11/2024 Analyzed: 11/11/2024

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.112	0.00380	"	0.100		112	70-130			
Toluene	0.100	0.00200	"	0.100		100	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.212	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory



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 Wheat Ridge CO 80033

David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1134 - EPA 5030 (soil)

Matrix Spike (B4K1134-MS1)	Source: E4K0264-01			Prepared: 11/11/2024 Analyzed: 11/11/2024						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Benzene	0.105	0.00200	"	0.100	ND	105	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Naphthalene	0.115	0.00380	"	0.100	ND	115	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.212	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Wheat Ridge CO 80033

David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1134 - EPA 5030 (soil)

Matrix Spike Dup (B4K1134-MSD1)	Source: E4K0264-01			Prepared: 11/11/2024 Analyzed: 11/11/2024						
1,2,4-Trimethylbenzene	0.0984	0.00200	mg/kg	0.100	ND	98.4	70-130	9.13	20	
1,3,5-Trimethylbenzene	0.0982	0.00200	"	0.100	ND	98.2	70-130	9.89	20	
Benzene	0.100	0.00200	"	0.100	ND	100	70-130	4.60	20	
Ethylbenzene	0.0974	0.00200	"	0.100	ND	97.4	70-130	8.25	20	
Naphthalene	0.108	0.00380	"	0.100	ND	108	70-130	5.83	20	
Toluene	0.0950	0.00200	"	0.100	ND	95.0	70-130	7.54	20	
o-Xylene	0.0989	0.00200	"	0.100	ND	98.9	70-130	8.87	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.3	70-130	7.46	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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David Castro
 Project Number: [none]
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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1133 - EPA 3050B

Blank (B4K1133-BLK1)

Prepared: 11/11/2024 Analyzed: 11/12/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4K1133-BS1)

Prepared: 11/11/2024 Analyzed: 11/12/2024

Arsenic	5.20	0.290	mg/kg	5.00		104	80-120			
Barium	525	10.0	"	500		105	80-120			
Cadmium	5.09	0.100	"	5.00		102	80-120			
Copper	55.1	10.0	"	50.0		110	80-120			
Lead	5.17	1.00	"	5.00		103	80-120			
Nickel	5.42	1.00	"	5.00		108	80-120			
Selenium	5.44	0.260	"	5.00		109	80-120			
Silver	5.62	0.100	"	5.00		112	80-120			
Zinc	52.0	37.0	"	50.0		104	80-120			

Matrix Spike (B4K1133-MS1)

Source: E4K0266-01

Prepared: 11/11/2024 Analyzed: 11/12/2024

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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1133 - EPA 3050B

Matrix Spike (B4K1133-MS1)	Source: E4K0266-01				Prepared: 11/11/2024 Analyzed: 11/12/2024					
Arsenic	9.89	0.262	mg/kg	4.53	5.20	103	75-125			
Barium	701	9.05	"	453	160	119	75-125			
Cadmium	4.96	0.0905	"	4.53	0.165	106	75-125			
Copper	58.8	9.05	"	45.3	11.0	106	75-125			
Lead	15.6	0.905	"	4.53	10.7	109	75-125			
Nickel	18.6	0.905	"	4.53	13.4	116	75-125			
Selenium	5.25	0.235	"	4.53	0.279	110	75-125			
Silver	5.27	0.0905	"	4.53	0.0415	115	75-125			
Zinc	92.2	33.5	"	45.3	46.3	101	75-125			

Matrix Spike Dup (B4K1133-MSD1)	Source: E4K0266-01				Prepared: 11/11/2024 Analyzed: 11/12/2024					
Arsenic	9.81	0.244	mg/kg	4.20	5.20	110	75-125	0.763	20	
Barium	580	8.41	"	420	160	99.9	75-125	18.8	20	
Cadmium	4.53	0.0841	"	4.20	0.165	104	75-125	9.01	20	
Copper	55.2	8.41	"	42.0	11.0	105	75-125	6.40	20	
Lead	15.8	0.841	"	4.20	10.7	121	75-125	0.846	20	
Nickel	18.3	0.841	"	4.20	13.4	116	75-125	2.00	20	
Selenium	4.77	0.219	"	4.20	0.279	107	75-125	9.58	20	
Silver	4.80	0.0841	"	4.20	0.0415	113	75-125	9.25	20	
Zinc	90.5	31.1	"	42.0	46.3	105	75-125	1.84	20	

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David Castro
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 Project: Noble Pad PW Dumpline Release

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1203 - DTPA Sorbitol Preparation

Blank (B4K1203-BLK1)

Prepared: 11/12/2024 Analyzed: 11/13/2024

Boron ND 0.100 mg/L

Duplicate (B4K1203-DUP1)

Source: E4K0264-01

Prepared: 11/12/2024 Analyzed: 11/13/2024

Boron 0.724 0.0998 mg/L 0.632 13.5 50

Batch B4K1205 - Saturated Paste Metals

Blank (B4K1205-BLK1)

Prepared: 11/12/2024 Analyzed: 11/13/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4K1205-DUP1)

Source: E4K0264-01

Prepared: 11/12/2024 Analyzed: 11/13/2024

Calcium PPM 21.8 10.0 mg/L 24.8 12.9 50

SAR ND 0.0100 SAR 0.444 200

Magnesium PPM 13.1 10.0 mg/L 15.3 15.4 50

Sodium PPM 9.29 10.0 " 11.4 20.5 50

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David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4K1210 - Saturated Paste pH/EC

Blank (B4K1210-BLK1)

Prepared: 11/12/2024 Analyzed: 11/13/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4K1210-DUP1)

Source: E4K0264-01

Prepared: 11/12/2024 Analyzed: 11/13/2024

pH	8.29		pH Units		8.24		0.605	25	
Specific Conductance (EC)	0.301	0.00500	mmhos/cm		0.341		12.3	25	

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David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2716868 - SW846 3060A										
BLANK (1205941351-BLK)					Prepared: 12/06/2024 Analyzed: 12/13/2024					
Hexavalent Chromium	ND	0.400	mg/kg				-			U
LCS (1205941352-BKS)					Prepared: 12/06/2024 Analyzed: 12/13/2024					
Hexavalent Chromium	3.99	0.400	mg/kg	4.00		99.7	80-120			
DUP (1205941353 D)					Source: 695065001 Prepared: 12/06/2024 Analyzed: 12/13/2024					
Hexavalent Chromium	ND	0.491	mg/kg dry		<0.196		0-50	N/A	50	U
MS (1205941354 S)					Source: 695065001 Prepared: 12/06/2024 Analyzed: 12/13/2024					
Hexavalent Chromium	2.80	0.464	mg/kg dry	4.64	<0.186	58.3	75-125			
DUP (1205941355 D)					Source: 695086001 Prepared: 12/06/2024 Analyzed: 12/13/2024					
Hexavalent Chromium	ND	0.413	mg/kg dry		<0.165		0-50	N/A	50	U
MS (1205941356 S)					Source: 695086001 Prepared: 12/06/2024 Analyzed: 12/13/2024					
Hexavalent Chromium	2.90	0.473	mg/kg dry	4.73	<0.189	59.5	75-125			
ILCS (1205941357-ILCS)					Prepared: 12/06/2024 Analyzed: 12/13/2024					
Hexavalent Chromium	8.62	0.400	mg/kg	8.04		107	80-120			

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 8000 W 44th Ave
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David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

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GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2726909 - SW846 3541

BLANK (1205962449-BLK)

Prepared: 12/27/2024 Analyzed: 12/30/2024

Benzo(k)fluoranthene	ND	0.00332	mg/kg				-			U
Fluoranthene	ND	0.00332	"				-			U
Pyrene	ND	0.00332	"				-			U
Naphthalene	ND	0.00332	"				-			U
Fluorene	ND	0.00332	"				-			U
Dibenzo(a,h)anthracene	ND	0.00332	"				-			U
Chrysene	ND	0.00332	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00332	"				-			U
Benzo(b)fluoranthene	ND	0.00332	"				-			U
2-Methylnaphthalene	ND	0.00332	"				-			U
Acenaphthene	ND	0.00332	"				-			U
1-Methylnaphthalene	ND	0.00332	"				-			U
Anthracene	ND	0.00332	"				-			U
Benzo(a)anthracene	ND	0.00332	"				-			U
Benzo(a)pyrene	ND	0.00332	"				-			U

Surrogate: 5-alpha-Androstane

0.130

"

0.166

79

22-135

LCS (1205962450-BKS)

Prepared: 12/27/2024 Analyzed: 12/30/2024

Naphthalene	0.236	0.00329	mg/kg	0.329		72	38-109			
Benzo(a)pyrene	0.293	0.00329	"	0.329		89	39-127			
Fluorene	0.248	0.00329	"	0.329		75	37-115			
Fluoranthene	0.272	0.00329	"	0.329		83	39-119			
Dibenzo(a,h)anthracene	0.273	0.00329	"	0.329		83	38-132			
Chrysene	0.284	0.00329	"	0.329		86	42-117			
Indeno(1,2,3-cd)pyrene	0.275	0.00329	"	0.329		84	38-133			
Benzo(a)anthracene	0.289	0.00329	"	0.329		88	42-120			
Anthracene	0.272	0.00329	"	0.329		83	41-117			

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David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

PAH by 8270E SIM - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2726909 - SW846 3541

LCS (1205962450-BKS)

Prepared: 12/27/2024 Analyzed: 12/30/2024

Acenaphthene	0.250	0.00329	mg/kg	0.329		76	41-112			
2-Methylnaphthalene	0.238	0.00329	"	0.329		72	39-110			
1-Methylnaphthalene	0.231	0.00329	"	0.329		70	39-109			
Benzo(b)fluoranthene	0.272	0.00329	"	0.329		83	39-123			
Benzo(k)fluoranthene	0.268	0.00329	"	0.329		81	40-122			
Pyrene	0.267	0.00329	"	0.329		81	38-117			

Surrogate: 5-alpha-Androstane

0.147

"

0.165

89

22-135

LCS D (1205962451-BKSD)

Prepared: 12/27/2024 Analyzed: 12/30/2024

Benzo(k)fluoranthene	0.246	0.00330	mg/kg	0.330		75	40-122	8	30	
Chrysene	0.260	0.00330	"	0.330		79	42-117	9	30	
Dibenzo(a,h)anthracene	0.254	0.00330	"	0.330		77	38-132	7	30	
Fluoranthene	0.248	0.00330	"	0.330		75	39-119	9	30	
Fluorene	0.223	0.00330	"	0.330		67	37-115	11	30	
Indeno(1,2,3-cd)pyrene	0.253	0.00330	"	0.330		76	38-133	8	30	
Pyrene	0.243	0.00330	"	0.330		74	38-117	9	30	
Naphthalene	0.216	0.00330	"	0.330		65	38-109	9	30	
Benzo(a)pyrene	0.274	0.00330	"	0.330		83	39-127	7	30	
Benzo(a)anthracene	0.271	0.00330	"	0.330		82	42-120	6	30	
Anthracene	0.248	0.00330	"	0.330		75	41-117	9	30	
Acenaphthene	0.225	0.00330	"	0.330		68	41-112	11	30	
1-Methylnaphthalene	0.211	0.00330	"	0.330		64	39-109	9	30	
2-Methylnaphthalene	0.217	0.00330	"	0.330		66	39-110	9	30	
Benzo(b)fluoranthene	0.254	0.00330	"	0.330		77	39-123	7	30	

Surrogate: 5-alpha-Androstane

0.121

"

0.165

73

22-135

MS (1205962452 S)

Source: 702079001

Prepared: 12/27/2024 Analyzed: 12/30/2024

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David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2726909 - SW846 3541

MS (1205962452 S)	Source: 702079001			Prepared: 12/27/2024 Analyzed: 12/30/2024						
Fluoranthene	0.246	0.00375	mg/kg dry	0.375	<0.00124	66	14-136			
Pyrene	0.243	0.00375	"	0.375	<0.00124	65	12-139			
Naphthalene	0.216	0.00375	"	0.375	<0.00124	57	16-126			
Fluorene	0.230	0.00375	"	0.375	<0.00124	61	16-134			
Dibenzo(a,h)anthracene	0.245	0.00375	"	0.375	<0.00124	65	11-134			
Chrysene	0.251	0.00375	"	0.375	<0.00124	67	19-129			
Benzo(k)fluoranthene	0.237	0.00375	"	0.375	<0.00124	63	18-138			
1-Methylnaphthalene	0.213	0.00375	"	0.375	<0.00124	57	15-129			
Benzo(a)pyrene	0.261	0.00375	"	0.375	<0.00124	70	16-133			
Benzo(a)anthracene	0.259	0.00375	"	0.375	<0.00124	69	20-132			
Anthracene	0.250	0.00375	"	0.375	<0.00124	67	18-136			
Acenaphthene	0.231	0.00375	"	0.375	<0.00124	61	17-129			
2-Methylnaphthalene	0.221	0.00375	"	0.375	<0.00124	59	15-132			
Indeno(1,2,3-cd)pyrene	0.242	0.00375	"	0.375	<0.00124	64	13-134			
Benzo(b)fluoranthene	0.241	0.00375	"	0.375	<0.00124	64	14-136			

Surrogate: 5-alpha-Androstane 0.131 " 0.188 0.126 70 22-135

MSD (1205962453 SD)	Source: 702079001			Prepared: 12/27/2024 Analyzed: 12/30/2024						
Chrysene	0.224	0.00371	mg/kg dry	0.371	<0.00122	60	19-129	11	30	
Dibenzo(a,h)anthracene	0.215	0.00371	"	0.371	<0.00122	58	11-134	13	30	
Fluoranthene	0.215	0.00371	"	0.371	<0.00122	58	14-136	13	30	
Fluorene	0.199	0.00371	"	0.371	<0.00122	54	16-134	14	30	
Benzo(k)fluoranthene	0.212	0.00371	"	0.371	<0.00122	57	18-138	11	30	
Naphthalene	0.185	0.00371	"	0.371	<0.00122	50	16-126	15	30	
Indeno(1,2,3-cd)pyrene	0.219	0.00371	"	0.371	<0.00122	59	13-134	10	30	
Benzo(b)fluoranthene	0.224	0.00371	"	0.371	<0.00122	60	14-136	7	30	
Benzo(a)pyrene	0.238	0.00371	"	0.371	<0.00122	64	16-133	9	30	

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David Castro
 Project Number: [none]
 Project: Noble Pad PW Dumpline Release

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2726909 - SW846 3541

MSD (1205962453 SD)	Source: 702079001			Prepared: 12/27/2024 Analyzed: 12/30/2024						
Benzo(a)anthracene	0.234	0.00371	mg/kg dry	0.371	<0.00122	63	20-132	10	30	
Acenaphthene	0.198	0.00371	"	0.371	<0.00122	53	17-129	15	30	
2-Methylnaphthalene	0.189	0.00371	"	0.371	<0.00122	51	15-132	15	30	
1-Methylnaphthalene	0.185	0.00371	"	0.371	<0.00122	50	15-129	14	30	
Pyrene	0.212	0.00371	"	0.371	<0.00122	57	12-139	14	30	
Anthracene	0.216	0.00371	"	0.371	<0.00122	58	18-136	15	30	
Surrogate: 5-alpha-Androstane	0.120		"	0.185	0.126	65	22-135			

Origins Laboratory



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

David Castro
Project Number: [none]
Project: Noble Pad PW Dumpline Release

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

hU Preparation or preservation holding time was exceeded. Result not detected above the detection limit.

hJ Preparation or preservation holding time was exceeded. Value is estimated.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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