

April Stegall
Dominion Energy Wexpro
PO Box 458
Rock Springs, WY 82901

Date: November 15, 2018
Request Number: 37789R
Date Received: 10/25/18
Matrix: Soil

REPORT OF ANALYSIS

Lab Number: R5024

Sample ID: PW Central Facility 116578 Sample #1 10/25/18 10:15

	Result	Units	Method	Date Analyzed	Analyst
pH	7.74	std. units	USDA 60-2,3/150.1	11/5/2018	DA
Conductivity	595	μ /cm	USDA 60-2,3/120.1	11/5/2018	DA
Calcium	670	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Magnesium	38.2	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium	382	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium Absorption Ratio	3.89	Ratio	Calculated	11/15/18	TB

BTEX, GRO, DRO & PAH Analyzed by ALS Lab in Fort Collins Colorado. See attached Report.
ALS Lab Sample ID: 1810615-1



WYOMING ANALYTICAL LABORATORIES, INC

1660 Harrison Street
Laramie, WY 82070

www.wal-lab.com
laramie@wal-lab.com

ph: 307-742-7995
fax: 307-721-8956

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Date: November 15, 2018
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REPORT OF ANALYSIS

Lab Number: R5025

Sample ID: PW Central Facility 116578 Sample #2 10/25/18 10:27

	Result	Units	Method	Date Analyzed	Analyst
pH	7.82	std. units	USDA 60-2,3/150.1	11/5/2018	DA
Conductivity	596	μ/cm	USDA 60-2,3/120.1	11/5/2018	DA
Calcium	119	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Magnesium	20.3	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium	127	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium Absorption Ratio	2.83	Ratio	Calculated	11/15/18	TB

BTEX, GRO, DRO & PAH Analyzed by ALS Lab in Fort Collins Colorado. See attached Report.
ALS Lab Sample ID: 1810615-2



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REPORT OF ANALYSIS

Lab Number: R5026

Sample ID: PW Central Facility 116578 Sample #3 10/25/18 10:30

	Result	Units	Method	Date Analyzed	Analyst
pH	7.59	std. units	USDA 60-2,3/150.1	11/5/2018	DA
Conductivity	1,662	µ/cm	USDA 60-2,3/120.1	11/5/2018	DA
Calcium	582	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Magnesium	77.8	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium	661	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium Absorption Ratio	6.83	Ratio	Calculated	11/15/18	TB

BTEX, GRO, DRO & PAH Analyzed by ALS Lab in Fort Collins Colorado. See attached Report.
ALS Lab Sample ID: 1810615-3



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REPORT OF ANALYSIS

Lab Number: R5027

Sample ID: PW Central Facility 116578 Sample #4 10/25/18 10:35

	Result	Units	Method	Date Analyzed	Analyst
pH	7.68	std. units	USDA 60-2,3/150.1	11/5/2018	DA
Conductivity	682	μ /cm	USDA 60-2,3/120.1	11/5/2018	DA
Calcium	147	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Magnesium	21.3	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium	140	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium Absorption Ratio	2.86	Ratio	Calculated	11/15/18	TB

BTEX, GRO, DRO & PAH Analyzed by ALS Lab in Fort Collins Colorado. See attached Report.
ALS Lab Sample ID: 1810615-4



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Date: November 15, 2018
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Matrix: Soil

REPORT OF ANALYSIS

Lab Number: R5028

Sample ID: PW Central Facility 116578 Sample #5 10/25/18 10:49

	Result	Units	Method	Date Analyzed	Analyst
pH	7.82	std. units	USDA 60-2,3/150.1	11/5/2018	DA
Conductivity	1,151	µ/cm	USDA 60-2,3/120.1	11/5/2018	DA
Calcium	153	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Magnesium	21.5	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium	241	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium Absorption Ratio	4.83	Ratio	Calculated	11/15/18	TB

BTEX, GRO, DRO & PAH Analyzed by ALS Lab in Fort Collins Colorado. See attached Report.
ALS Lab Sample ID: 1810615-5



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Date: November 15, 2018
Request Number: 37789R
Date Received: 10/25/18
Matrix: Soil

REPORT OF ANALYSIS

Lab Number: R5029

Sample ID: PW Central Facility 116578 Sample #6 10/25/18 10:55

	Result	Units	Method	Date Analyzed	Analyst
pH	7.69	std. units	USDA 60-2,3/150.1	11/5/2018	DA
Conductivity	860	μ /cm	USDA 60-2,3/120.1	11/5/2018	DA
Calcium	194*	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Magnesium	26.3*	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium	154*	mg/kg Dry Basis	USDA 60-2,3/6010	11/8/2018	CB
Sodium Absorption Ratio	2.75	Ratio	Calculated	11/15/18	TB

*Results are the average of 2 runs

BTEX, GRO, DRO & PAH Analyzed by ALS Lab in Fort Collins Colorado. See attached Report.
ALS Lab Sample ID: 1810615-6

End of Report
MLE/tab



Monte L. Ellis
Laboratory Manager



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Date: November 15, 2018
Request Number: 37789R
Date Received: 10/25/18
Matrix: Soil

QUALITY CONTROL

	Reference	Expected	Value	% Recovery
pH	iv-pH QC	5.67	5.73	101
Conductivity	Hach QC	718	723	101
Calcium	ESI QC	20.0	19.7	99
Magnesium	ESI QC	50.0	49.6	99
Sodium	ESI QC	50.0	48.8	98

BTEX, GRO, DRO & PAH Analyzed by ALS Lab in Fort Collins Colorado. See attached Report.
ALS Lab Sample ID: 1810615-1-6

End of QC Report
MLE/tab



Monte L. Ellis
Laboratory Manager



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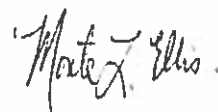
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Date: November 15, 2018
Request Number: 37789R
Date Received: 10/25/18
Matrix: Soil

BTEX, GRO, DRO Analyzed by ALS Lab in Fort Collins Colorado.
The following pages apply to the samples listed below.

WAL Lab Number	ALS Lab Number	Dominion Sample ID
R5024	1810615-1	PW Central Facility 116578 Sample #1 10/25/18 10:15
R5025	1810615-2	PW Central Facility 116578 Sample #2 10/25/18 10:27
R5026	1810615-3	PW Central Facility 116578 Sample #3 10/25/18 10:30
R5027	1810615-4	PW Central Facility 116578 Sample #4 10/25/18 10:35
R5028	1810615-5	PW Central Facility 116578 Sample #5 10/25/18 10:49
R5029	1810615-6	PW Central Facility 116578 Sample #6 10/25/18 10:55



Monte L. Ellis
Laboratory Manager



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Monday, November 12, 2018

Monte Ellis
Wyoming Analytical Laboratories, Inc.
1660 Harrison St.
Laramie, WY 82070

Re: ALS Workorder: 1810615
Project Name:
Project Number: R37789

Dear Mr. Ellis:

Six soil samples were received from Wyoming Analytical Laboratories, Inc., on 10/27/2018. The samples were scheduled for the following analyses:

GC/MS Volatiles

Total Extractable Petroleum Hydrocarbons (Diesel)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. O'Brien
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
AIHA	214884
Alaska (AK)	UST-086
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1810615

GC/MS Volatiles:

The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C. The samples were also analyzed for Gasoline Range Organics (GRO).

All acceptance criteria were met.

DRO:

The samples were analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

Client: Wyoming Analytical Laboratories, Inc.

Date: 12-Nov-18

Project: R37789

Work Order: 1810615

Sample ID: R5024

Lab ID: 1810615-1

Legal Location:

Matrix: SOIL

Collection Date: 10/25/2018 10:15

Percent Moisture: 8.6

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 11/1/2018	PrepBy: LML
Diesel Range Organics	440	DM	43	MG/KG	10	11/1/2018 23:27
Surr: O-TERPHENYL	89		49-114	%REC	10	11/1/2018 23:27
GC/MS Volatiles			SW8260		Prep Date: 10/31/2018	PrepBy: JXK
BENZENE	ND		5.4	UG/KG	1	10/31/2018 13:00
TOLUENE	ND		5.4	UG/KG	1	10/31/2018 13:00
ETHYLBENZENE	ND		5.4	UG/KG	1	10/31/2018 13:00
M+P-XYLENE	ND		5.4	UG/KG	1	10/31/2018 13:00
O-XYLENE	ND		5.4	UG/KG	1	10/31/2018 13:00
TOTAL XYLENES	ND		5	UG/KG	1	10/31/2018 13:00
Surr: DIBROMOFLUOROMETHANE	105		61-134	%REC	1	10/31/2018 13:00
Surr: TOLUENE-D8	91		57-135	%REC	1	10/31/2018 13:00
Surr: 4-BROMOFLUOROBENZENE	90		52-151	%REC	1	10/31/2018 13:00
GASOLINE RANGE ORGANICS	ND		540	UG/KG	1	10/31/2018 13:00

Client: Wyoming Analytical Laboratories, Inc.

Date: 12-Nov-18

Project: R37789

Work Order: 1810615

Sample ID: R5025

Lab ID: 1810615-2

Legal Location:

Matrix: SOIL

Collection Date: 10/25/2018 10:27

Percent Moisture: 8.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 11/1/2018	PrepBy: LML
Diesel Range Organics	450	DM	43	MG/KG	10	11/1/2018 23:49
Surr: O-TERPHENYL	86		49-114	%REC	10	11/1/2018 23:49
GC/MS Volatiles			SW8260		Prep Date: 10/31/2018	PrepBy: JXK
BENZENE	ND		5.4	UG/KG	1	10/31/2018 13:25
TOLUENE	ND		5.4	UG/KG	1	10/31/2018 13:25
ETHYLBENZENE	ND		5.4	UG/KG	1	10/31/2018 13:25
M+P-XYLENE	ND		5.4	UG/KG	1	10/31/2018 13:25
O-XYLENE	ND		5.4	UG/KG	1	10/31/2018 13:25
TOTAL XYLENES	ND		5	UG/KG	1	10/31/2018 13:25
Surr: DIBROMOFLUOROMETHANE	102		61-134	%REC	1	10/31/2018 13:25
Surr: TOLUENE-D8	92		57-135	%REC	1	10/31/2018 13:25
Surr: 4-BROMOFLUOROBENZENE	90		52-151	%REC	1	10/31/2018 13:25
GASOLINE RANGE ORGANICS	ND		540	UG/KG	1	10/31/2018 13:25

Client: Wyoming Analytical Laboratories, Inc.

Date: 12-Nov-18

Project: R37789

Work Order: 1810615

Sample ID: R5026

Lab ID: 1810615-3

Legal Location:

Matrix: SOIL

Collection Date: 10/25/2018 10:30

Percent Moisture: 7.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 11/1/2018	PrepBy: LML
Diesel Range Organics	290	DM	42	MG/KG	10	11/2/2018 00:10
Surr: O-TERPHENYL	85		49-114	%REC	10	11/2/2018 00:10
GC/MS Volatiles			SW8260		Prep Date: 10/31/2018	PrepBy: JXK
BENZENE	ND		5.4	UG/KG	1	10/31/2018 13:51
TOLUENE	ND		5.4	UG/KG	1	10/31/2018 13:51
ETHYLBENZENE	ND		5.4	UG/KG	1	10/31/2018 13:51
M+P-XYLENE	ND		5.4	UG/KG	1	10/31/2018 13:51
O-XYLENE	ND		5.4	UG/KG	1	10/31/2018 13:51
TOTAL XYLENES	ND		5	UG/KG	1	10/31/2018 13:51
Surr: DIBROMOFLUOROMETHANE	104		61-134	%REC	1	10/31/2018 13:51
Surr: TOLUENE-D8	91		57-135	%REC	1	10/31/2018 13:51
Surr: 4-BROMOFLUOROBENZENE	90		52-151	%REC	1	10/31/2018 13:51
GASOLINE RANGE ORGANICS	ND		540	UG/KG	1	10/31/2018 13:51

Client: Wyoming Analytical Laboratories, Inc.
Project: R37789
Sample ID: R5027
Legal Location:
Collection Date: 10/25/2018 10:35

Date: 12-Nov-18
Work Order: 1810615
Lab ID: 1810615-4
Matrix: SOIL
Percent Moisture: 6.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 11/1/2018	PrepBy: LML
Diesel Range Organics	370	DM	42	MG/KG	10	11/2/2018 00:32
Surr: O-TERPHENYL	90		49-114	%REC	10	11/2/2018 00:32
GC/MS Volatiles			SW8260		Prep Date: 10/31/2018	PrepBy: JJK
BENZENE	ND		5.3	UG/KG	1	10/31/2018 14:13
TOLUENE	ND		5.3	UG/KG	1	10/31/2018 14:13
ETHYLBENZENE	ND		5.3	UG/KG	1	10/31/2018 14:13
M+P-XYLENE	ND		5.3	UG/KG	1	10/31/2018 14:13
O-XYLENE	ND		5.3	UG/KG	1	10/31/2018 14:13
TOTAL XYLENES	ND		5	UG/KG	1	10/31/2018 14:13
Surr: DIBROMOFLUOROMETHANE	105		61-134	%REC	1	10/31/2018 14:13
Surr: TOLUENE-D8	87		57-135	%REC	1	10/31/2018 14:13
Surr: 4-BROMOFLUOROBENZENE	97		52-151	%REC	1	10/31/2018 14:13
GASOLINE RANGE ORGANICS	ND		530	UG/KG	1	10/31/2018 14:13

Client: Wyoming Analytical Laboratories, Inc.

Date: 12-Nov-18

Project: R37789

Work Order: 1810615

Sample ID: R5028

Lab ID: 1810615-5

Legal Location:

Matrix: SOIL

Collection Date: 10/25/2018 10:49

Percent Moisture: 7.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 11/1/2018	PrepBy: LML
Diesel Range Organics	260	DM	43	MG/KG	10	11/2/2018 00:54
Surr: O-TERPHENYL	87		49-114	%REC	10	11/2/2018 00:54
GC/MS Volatiles			SW8260		Prep Date: 10/31/2018	PrepBy: JXK
BENZENE	ND		5.3	UG/KG	1	10/31/2018 14:39
TOLUENE	ND		5.3	UG/KG	1	10/31/2018 14:39
ETHYLBENZENE	ND		5.3	UG/KG	1	10/31/2018 14:39
M+P-XYLENE	ND		5.3	UG/KG	1	10/31/2018 14:39
O-XYLENE	ND		5.3	UG/KG	1	10/31/2018 14:39
TOTAL XYLENES	ND		5	UG/KG	1	10/31/2018 14:39
Surr: DIBROMOFLUOROMETHANE	102		61-134	%REC	1	10/31/2018 14:39
Surr: TOLUENE-D8	94		57-135	%REC	1	10/31/2018 14:39
Surr: 4-BROMOFLUOROBENZENE	85		52-151	%REC	1	10/31/2018 14:39
GASOLINE RANGE ORGANICS	ND		530	UG/KG	1	10/31/2018 14:39

Client: Wyoming Analytical Laboratories, Inc.

Date: 12-Nov-18

Project: R37789

Work Order: 1810615

Sample ID: R5029

Lab ID: 1810615-6

Legal Location:

Matrix: SOIL

Collection Date: 10/25/2018 10:55

Percent Moisture: 10.4

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 11/1/2018	PrepBy: LML
Diesel Range Organics	64	MH	4.5	MG/KG	1	11/2/2018 13:23
Surr: O-TERPHENYL	96		49-114	%REC	1	11/2/2018 13:23
GC/MS Volatiles			SW8260		Prep Date: 10/31/2018	PrepBy: JJK
BENZENE	ND		5.6	UG/KG	1	10/31/2018 15:03
TOLUENE	ND		5.6	UG/KG	1	10/31/2018 15:03
ETHYLBENZENE	ND		5.6	UG/KG	1	10/31/2018 15:03
M+P-XYLENE	ND		5.6	UG/KG	1	10/31/2018 15:03
O-XYLENE	ND		5.6	UG/KG	1	10/31/2018 15:03
TOTAL XYLENES	ND		5	UG/KG	1	10/31/2018 15:03
Surr: DIBROMOFLUOROMETHANE	104		61-134	%REC	1	10/31/2018 15:03
Surr: TOLUENE-D8	90		57-135	%REC	1	10/31/2018 15:03
Surr: 4-BROMOFLUOROBENZENE	97		52-151	%REC	1	10/31/2018 15:03
GASOLINE RANGE ORGANICS	ND		560	UG/KG	1	10/31/2018 15:03

Client: Wyoming Analytical Laboratories, Inc.
Project: R37789
Sample ID: R5029
Legal Location:
Collection Date: 10/25/2018 10:55

Date: 12-Nov-18
Work Order: 1810615
Lab ID: 1810615-6
Matrix: SOIL
Percent Moisture: 10.4

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC
 U or ND - Result is less than the sample specific MDC.
 Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
 Y2 - Chemical Yield outside default limits.
 W - DER is greater than Warning Limit of 1.42
 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
 # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
 G - Sample density differs by more than 15% of LCS density.
 D - DER is greater than Control Limit
 M - Requested MDC not met.
 LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 L - LCS Recovery below lower control limit.
 H - LCS Recovery above upper control limit.
 P - LCS, Matrix Spike Recovery within control limits.
 N - Matrix Spike Recovery outside control limits
 NC - Not Calculated for duplicate results less than 5 times MDC
 B - Analyte concentration greater than MDC.
 B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U or ND - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.
 S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 +- - The relative percent difference (RPD) equals or exceeds the control criteria.
 G - A pattern resembling gasoline was detected in this sample.
 D - A pattern resembling diesel was detected in this sample.
 M - A pattern resembling motor oil was detected in this sample.
 C - A pattern resembling crude oil was detected in this sample.
 4 - A pattern resembling JP-4 was detected in this sample.
 5 - A pattern resembling JP-5 was detected in this sample.
 H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
 L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
 Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
 - gasoline
 - JP-8
 - diesel
 - mineral spirits
 - motor oil
 - Stoddard solvent
 - bunker C

ALS -- Fort Collins

Date: 11/12/2018 10:0

Client: Wyoming Analytical Laboratories, Inc.

Work Order: 1810615

Project: R37789

QC BATCH REPORT

Batch ID: HC181101-81-1 Instrument ID FUELS-1 Method: SW8015M

LCS Sample ID: HC181101-81 Units: MG/KG Analysis Date: 11/2/2018 01:37

Client ID: Run ID: HC181101-8A Prep Date: 11/1/2018 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	60.7	4	62.5		97	81-129				20	
Surr: O-TERPHENYL	10.5		12.5		84	49-114					

MB Sample ID: HC181101-81 Units: MG/KG Analysis Date: 11/1/2018 17:39

Client ID: Run ID: HC181101-8A Prep Date: 11/1/2018 DF: 1

Analyte	Result	ReportLimit									Qual
Diesel Range Organics	ND	4									
Surr: O-TERPHENYL	10.7				86	49-114					

The following samples were analyzed in this batch:

1810615-1	1810615-2	1810615-3
1810615-4	1810615-5	1810615-6

Client: Wyoming Analytical Laboratories, Inc.
 Work Order: 1810615
 Project: R37789

QC BATCH REPORT

Batch ID: VL181031-2-1 Instrument ID: HPV2 Method: SW8260

LCS Sample ID: VL181031-2 Units: UG/KG Analysis Date: 10/31/2018 09:55
 Client ID: Run ID: VL181031-2A Prep Date: 10/31/2018 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	40.1	5	40		100	73-126				30	
TOLUENE	35.1	5	40		88	71-127				30	
ETHYLBENZENE	37.7	5	40		94	74-127				30	
M+P-XYLENE	76	5	80		95	79-126				30	
O-XYLENE	37.5	5	40		94	77-125				30	
Surr: DIBROMOFLUOROMETHANE	52.3		50		105	61-134					
Surr: TOLUENE-D8	44.6		50		89	57-135					
Surr: 4-BROMOFLUOROBENZENE	51.3		50		103	52-151					

LCSD Sample ID: VL181031-2 Units: UG/KG Analysis Date: 10/31/2018 10:17
 Client ID: Run ID: VL181031-2A Prep Date: 10/31/2018 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	39.9	5	40		100	73-126		40.1	1	30	
TOLUENE	34.2	5	40		85	71-127		35.1	3	30	
ETHYLBENZENE	37.1	5	40		93	74-127		37.7	2	30	
M+P-XYLENE	74.2	5	80		93	79-126		76	2	30	
O-XYLENE	37.2	5	40		93	77-125		37.5	1	30	
Surr: DIBROMOFLUOROMETHANE	53.1		50		106	61-134			2		
Surr: TOLUENE-D8	44.2		50		88	57-135			1		
Surr: 4-BROMOFLUOROBENZENE	50.9		50		102	52-151			1		

MB Sample ID: VL181031-2 Units: UG/KG Analysis Date: 10/31/2018 12:14
 Client ID: Run ID: VL181031-2A Prep Date: 10/31/2018 DF: 1

Analyte	Result	ReportLimit	Qual
BENZENE	ND	5	
TOLUENE	ND	5	
ETHYLBENZENE	ND	5	
M+P-XYLENE	ND	5	
O-XYLENE	ND	5	
TOTAL XYLENES	ND	5	
Surr: DIBROMOFLUOROMETHANE	51.7		103 61-134
Surr: TOLUENE-D8	44.7		89 57-135
Surr: 4-BROMOFLUOROBENZENE	49		98 52-151

Client: Wyoming Analytical Laboratories, Inc.
Work Order: 1810615
Project: R37789

QC BATCH REPORT

Batch ID: VL181031-2-1

Instrument ID HPV2

Method: SW8260

The following samples were analyzed in this batch:

1810615-1	1810615-2	1810615-3
1810615-4	1810615-5	1810615-6

Client: Wyoming Analytical Laboratories, Inc.
Work Order: 1810615
Project: R37789

QC BATCH REPORT

Batch ID: VL181031-2-3 Instrument ID HPV2 Method: SW8260

LCS Sample ID: VL181031-5 Units: UG/KG Analysis Date: 10/31/2018 11:03

Client ID: Run ID: VL181031-2A Prep Date: 10/31/2018 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1960	500	2000		98	80-120				20	

LCSD Sample ID: VL181031-5 Units: UG/KG Analysis Date: 10/31/2018 11:27

Client ID: Run ID: VL181031-2A Prep Date: 10/31/2018 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1960	500	2000		98	80-120		1960	0	20	

MB Sample ID: VL181031-2 Units: UG/KG Analysis Date: 10/31/2018 12:14

Client ID: Run ID: VL181031-2A Prep Date: 10/31/2018 DF: 1

Analyte	Result	ReportLimit									Qual
GASOLINE RANGE ORGANICS	ND	500									

The following samples were analyzed in this batch:

1810615-1	1810615-2	1810615-3
1810615-4	1810615-5	1810615-6

Report to: APRIL STEGALL		Please PRINT all information		Wyoming Analytical Laboratories, Inc 1660 Harrison St Laramie, WY 82070 307-742-7995 Fax 307-721-8956 wallaramie@aol.com walrspgs@aol.com	
Company: DOMINION ENERGY WEXPRO		Address: PO Box 488, 8221 WESTGATE DRIVE		City, ST Zip: ROCK SPRINGS, WY 82901	
Phone: 307.352.7681		Fax: 307.352.7683		Email: april.stegall@dominionenergy.com	
Prefer Results by: Fax / (Email) Hard Copy (circle all that apply)		*Matrix: W-water, S-soil, SL-sludge, O-oil, G-gaseous, X-other: _____		**Preservation: T-4°C, A-acid, F-filtered, N-none, X-other: _____	
TAT: Standard / Expedite		days (subject to fee/availability)		Project: Public Central Facility PO#:	
Sample ID	Date/Time	Matrix*	# of containers	Preservation**	Custody seals?
1110570 sample #1	10-26 10:15	S	5		
2110570 sample #2	10-26 10:17	S	5		
3110570 sample #3	10-26 10:30	S	5		
4110570 sample #4	10-26 10:35	S	5		
5110570 sample #5	10-26 10:40	S	5		
6110570 sample #6	10-26 10:45	S	5		
7					
8					
9					
10					

Print Name: April Stegall	Print Name:
Signature: [Signature]	Signature:
Date/Time: 10-26-10 4:00pm	Date/Time:
Shipped VIA: etc	Shipped VIA:
Print Name: Kate Stegall	Print Name:
Signature: [Signature]	Signature:
Date/Time: 10/26/10 10:00	Date/Time:
Received 1st	Received 2nd
Relinquished 1st	Relinquished 2nd

Special Instructions / Comments:
KEEP COOL
Metals: soluble boron, total (RCRA, Ni, Cu, Zn), Cr4, calculate Cr3
Inorganics: (saturated paste) Ca, Mg, Na, SAR, pH, conductivity
0.49

WAL use only: Record discrepancies in sample condition upon receipt on WAL Doc#228 - SCUR