



RE: Swearingen #1 SWD - (Incident #NAB1927155176) (2RP-5628)

Robert,

Based on the results from the attached analysis, WPX would like to propose the installation of additional borings (Attached Proposed Boring Locations Figure) to further:

1. Investigate the groundwater conditions; and
2. Evaluate the potential presence of a paleo channel(s)/disconnected groundwater at the Site based on the advancement activities associated with MW02.

Proposed Work

- (Green – near MW02) advance one boring with double casing to determine if deeper water correlated with MW01 and MW03 is present
 - DTW @ MW01: 30.9' (South)
 - DTW @ MW02: 18.5' (On pad)
 - DTW @ MW03: 30.6' (North)
 - Water in MW02 went dry during well development. We would like to investigate if the water bearing zones in MW01 and MW03 are connected to MW02 or if there is a secondary, connected groundwater source beneath the shallow groundwater observed in MW02.
- (Red) advance borings to delineate chloride in soil, identify the presence or absence of conglomerate, identify groundwater and determine if groundwater content is similar to MW02 or MW01/MW03.
 - Elevated chloride concentrations limits were documented from 11' to 26' (4,210 mg/kg to 823 mg/kg)
 - Conglomerate was absent in MW01 and MW03 but present in MW02 (11.5'-19.5'). Advancement perpendicular to MW02 will determine if lithology and chloride concentrations are similar
 - Stiff Diagram (attached) shows chemistry content in MW01 and MW03 is comparable and MW02 is very different. Chloride and sodium + potassium, calcium and magnesium are increased in MW02.
- (Blue) advance borings to investigate potential upgradient locations and correlation of groundwater and/or paleo channels

Water analysis associated with chloride indicate background concentrations range from 864 mg/L (MW01) and 1,110 mg/L (MW03), which is below the 36,000 mg/L identified in MW02. Additional investigation will allow WPX to determine if the higher concentrations of chloride is situated in perched zone, rather than in the water bearing zone. WPX respectfully requests NMOCD to evaluate this work proposal and allow investigation to continue to be performed before a decision for remediation is determined.

A handwritten signature in black ink, appearing to read "Jim Raley".

Jim Raley

Environmental Specialist – WPX Energy/Devon Energy

575-689-7597 (jim.raley@devonenergy.com)



LEGEND

⊗ MONITORING WELL

IMAGE COURTESY OF ESRI

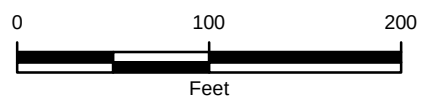


FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
SWEARINGEN #001
UNIT J SEC 4 T23S R28E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PREMIA, LLC.



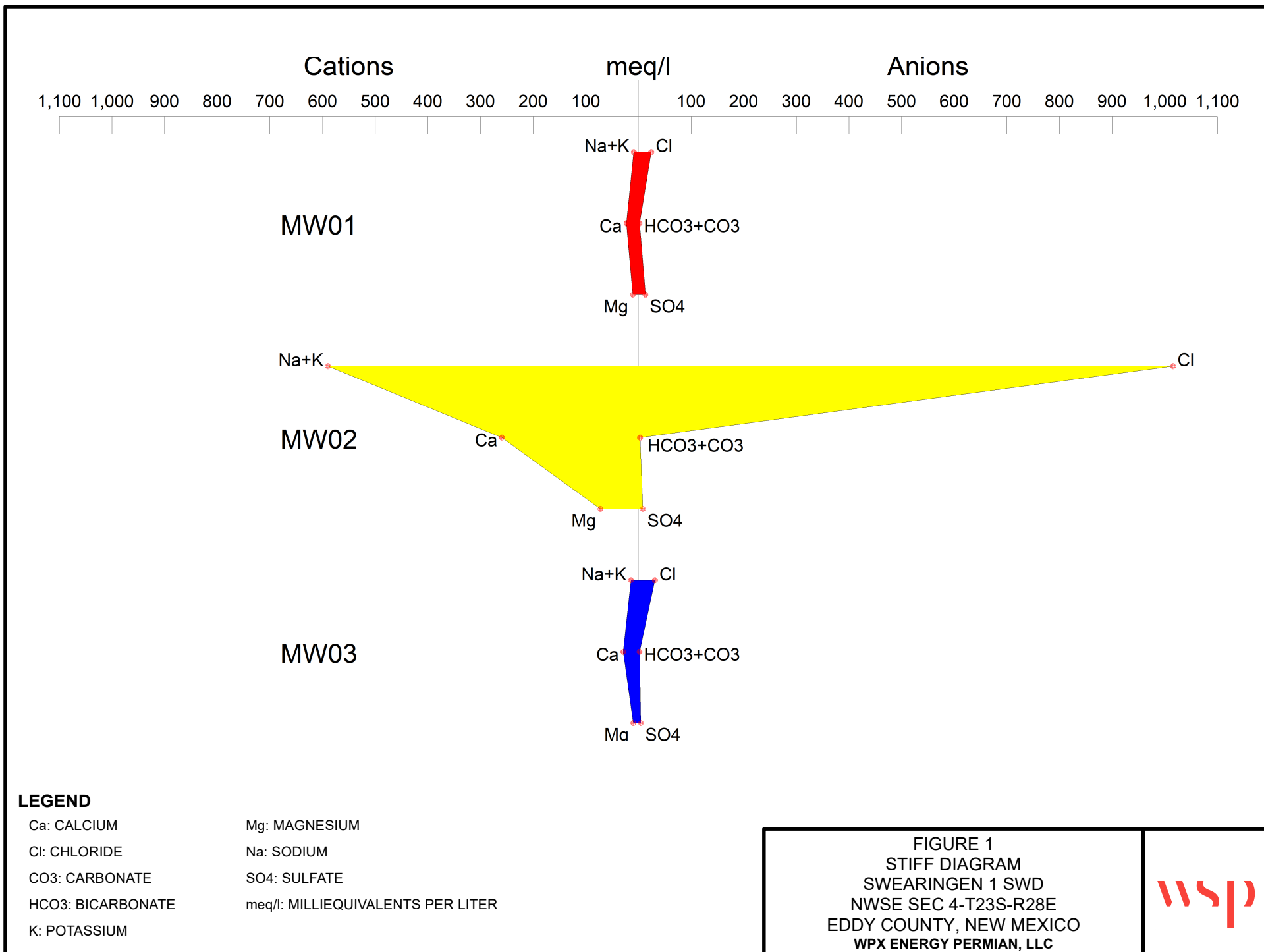


FIGURE 1
STIFF DIAGRAM
SWEARINGEN 1 SWD
NWSE SEC 4-T23S-R28E
EDDY COUNTY, NEW MEXICO
WPX ENERGY PERMIAN, LLC



Swearingen 1 SWD
 Remediation Permit Number 2RP-5628
 WPX Energy Permian, LLC.
 Eddy County, New Mexico

Sample Name Sample Date		Standard Method 2320g: Alkalinity										USEPA Method 300.0: Anions					SY946 6010C: Total Metals				
		bicarbonate (As CaCO3)	carbonate (As CaCO3)	total alkalinity	Carbon Dioxide (Free)	Carbon Dioxide	Carbon-Anton Balance	Iron	Manganese	Total Dissolved Solids	chloride	sulfate	Nitrogen, Nitrite as N	Nitrogen, Nitrate as N	calcium	magnesium	potassium	sodium			
Unit		mg/L	mg/L	mg/L	mg/L	mg/L	%	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	
NMWQCC Standard		NE	NE	NE	NE	NE	NE	1.0	0.2	NE		250	600	NE	NE		NE	NE	NE	NE	
MW01	07/15/2021	129	<4.00	129	9.10	122	-1.39	<0.200	0.0269	2,960		864	638	8.77	<0.100		455	132	8.46	200	
MW02	07/15/2021	190	<4.00	190	105	271	-6.11	<2.00	0.358	52,900		36,000	398	116	<2.00		5,200	875	441	13,300	
MW03	07/15/2021	123	<4.00	123	6.92	115	11.7	<0.200	<0.0200	2,740		1,110	221	7.75	<0.100		577	119	12.8	327	

Notes:

% - percent

+ - NELAC certification not offered for this compound

--- - not analyzed

BOLD - indicates concentration exceeds the NMWQCC standard

cfu/ml - colony-forming units per milliliter

D - samples diluted due to targets detected over the highest point of calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

K - sample analyzed outside of recommended hold time

µg/L - micrograms per liter

mg/L - milligrams per liter

NE - not established

NMWQCC - New Mexico Water Quality Control Commission

USEPA - United States Environmental Protection Agency

Table 1

Swearingen #001
Remediation Number 2RP-5628
WPX Energy Permian, LLC.
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Monitoring Well Samples										
MW01	07/13/2021	1 - 3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	27.2
MW01	07/13/2021	4 - 6	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	74.1
MW01	07/13/2021	7 - 9	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	8.80
MW01	07/13/2021	10 - 12	<0.00202	<0.00404	140	<50.0	<50.0	140	140	86.8
MW01	07/13/2021	12 - 14	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	41.1
MW01	07/13/2021	14 - 16	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	88.1
MW01	07/13/2021	16 - 18	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	344
MW01	07/13/2021	18 - 20	<0.00202	0.0186	<50.0	<50.0	<50.0	<50.0	<50.0	302
MW01	07/13/2021	20 - 22	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	177
MW01	07/13/2021	22 - 24	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	130
MW01	07/13/2021	24 - 26	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	77.6
MW01	07/13/2021	26 - 28	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	106
MW01	07/13/2021	28 - 30	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	62.4
MW01	07/13/2021	30 - 32	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	57.2
MW01	07/13/2021	32 - 34	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	64.7
MW01	07/13/2021	34 - 36	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	70.7
MW01	07/13/2021	36 - 38	<0.00199	0.00467	<50.0	<50.0	<50.0	<50.0	<50.0	107
MW01	07/13/2021	38 - 40	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	111

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NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
MW02	07/13/2021	1 - 3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	140
MW02	07/13/2021	3 - 5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	135
MW02	07/13/2021	5 - 7	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	217
MW02	07/13/2021	7 - 9	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	20.7
MW02	07/13/2021	9 - 11	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	502
MW02	07/13/2021	11 - 12	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	2,520
MW02	07/13/2021	13 - 14	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	3,110
MW02	07/13/2021	14 - 16	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	4,210
MW02	07/13/2021	16 - 18	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	3,660
MW02	07/13/2021	20 - 22	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	3,420
MW02	07/13/2021	22 - 24	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,970
MW02	07/13/2021	24 - 26	<0.00198	0.0305	<49.9	<49.9	<49.9	<49.9	<49.9	823
MW03	07/13/2021	1 - 3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	346
MW03	07/13/2021	4 - 6	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	425
MW03	07/13/2021	7 - 9	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	182
MW03	07/13/2021	10 - 12	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	213
MW03	07/13/2021	12 - 14	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	470
MW03	07/13/2021	14 - 16	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	433
MW03	07/13/2021	16 - 18	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	542

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Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
MW03	07/13/2021	18 - 20	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	558
MW03	07/13/2021	20 - 22	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	451
MW03	07/13/2021	22 - 24	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	501
MW03	07/13/2021	24 - 26	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	1,570
MW03	07/13/2021	26 - 28	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	396
MW03	07/13/2021	28 - 30	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	155
MW03	07/13/2021	30 - 32	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	66.4
MW03	07/13/2021	34 - 36	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	46.8
MW03	07/13/2021	36 - 38	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	182
MW03	07/13/2021	38 - 40	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	112

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

Greyed data represents samples that were excavated

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-948-1

Laboratory Sample Delivery Group: Eddy County
Client Project/Site: Swearingen SWD #001

For:

WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Joseph Hernandez



Authorized for release by:
7/26/2021 10:48:11 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Job ID: 890-948-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-948-1

Receipt

The samples were received on 7/15/2021 9:06 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: MW01 (890-948-1), MW01 (890-948-2), MW01 (890-948-3), MW01 (890-948-4), MW01 (890-948-5), MW01 (890-948-6), MW01 (890-948-7), MW01 (890-948-8), MW01 (890-948-9), MW01 (890-948-10), MW01 (890-948-11), MW01 (890-948-12), MW01 (890-948-13), MW01 (890-948-14), MW01 (890-948-15), MW01 (890-948-16), MW01 (890-948-17), MW01 (890-948-18), MW02 (890-948-19), MW02 (890-948-20), MW02 (890-948-21), MW02 (890-948-22), MW02 (890-948-23), MW02 (890-948-24), MW02 (890-948-25), MW02 (890-948-26), MW02 (890-948-27), MW02 (890-948-28), MW02 (890-948-29), MW02 (890-948-30), MW03 (890-948-31), MW03 (890-948-32), MW03 (890-948-33), MW03 (890-948-34), MW03 (890-948-35), MW03 (890-948-36), MW03 (890-948-37), MW03 (890-948-38), MW03 (890-948-39), MW03 (890-948-40), MW03 (890-948-41), MW03 (890-948-42), MW03 (890-948-43), MW03 (890-948-44), MW03 (890-948-45), MW03 (890-948-46) and MW03 (890-948-47).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: MW01 (890-948-1), MW01 (890-948-6), (890-946-A-6-D) and (890-946-A-6-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-5336 and analytical batch 880-5232 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-5277 and analytical batch 880-5356 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-1

Date Collected: 07/13/21 14:37

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 1 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:10	07/19/21 05:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:10	07/19/21 05:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:10	07/19/21 05:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/21 12:10	07/19/21 05:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:10	07/19/21 05:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/21 12:10	07/19/21 05:53	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/18/21 12:10	07/19/21 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	07/18/21 12:10	07/19/21 05:53	1
1,4-Difluorobenzene (Surr)	72		70 - 130	07/18/21 12:10	07/19/21 05:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 13:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 13:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 13:10	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	07/19/21 08:26	07/22/21 13:10	1
o-Terphenyl	82		70 - 130	07/19/21 08:26	07/22/21 13:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.2		4.95		mg/Kg			07/18/21 18:23	1

Client Sample ID: MW01

Lab Sample ID: 890-948-2

Date Collected: 07/13/21 14:40

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 4 - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:10	07/19/21 06:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:10	07/19/21 06:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:10	07/19/21 06:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/21 12:10	07/19/21 06:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:10	07/19/21 06:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/21 12:10	07/19/21 06:13	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/18/21 12:10	07/19/21 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/18/21 12:10	07/19/21 06:13	1
1,4-Difluorobenzene (Surr)	102		70 - 130	07/18/21 12:10	07/19/21 06:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-2

Date Collected: 07/13/21 14:40

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 4 - 6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/19/21 08:26	07/22/21 14:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/19/21 08:26	07/22/21 14:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/19/21 08:26	07/22/21 14:12	1
Total TPH	<49.8	U	49.8		mg/Kg		07/19/21 08:26	07/22/21 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	07/19/21 08:26	07/22/21 14:12	1
o-Terphenyl	88		70 - 130	07/19/21 08:26	07/22/21 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.1		5.00		mg/Kg			07/18/21 18:28	1

Client Sample ID: MW01

Lab Sample ID: 890-948-3

Date Collected: 07/13/21 14:45

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 7 - 9

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 06:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 06:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 06:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/18/21 12:10	07/19/21 06:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 06:34	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/18/21 12:10	07/19/21 06:34	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		07/18/21 12:10	07/19/21 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/18/21 12:10	07/19/21 06:34	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/18/21 12:10	07/19/21 06:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 14:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 14:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 14:33	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	07/19/21 08:26	07/22/21 14:33	1
o-Terphenyl	85		70 - 130	07/19/21 08:26	07/22/21 14:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.80		4.95		mg/Kg			07/18/21 18:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-4

Date Collected: 07/13/21 14:50

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 10 - 12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 06:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 06:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 06:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/18/21 12:10	07/19/21 06:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 06:54	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/18/21 12:10	07/19/21 06:54	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		07/18/21 12:10	07/19/21 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	07/18/21 12:10	07/19/21 06:54	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/18/21 12:10	07/19/21 06:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 14:54	1
Diesel Range Organics (Over C10-C28)	140		50.0		mg/Kg		07/19/21 08:26	07/22/21 14:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 14:54	1
Total TPH	140		50.0		mg/Kg		07/19/21 08:26	07/22/21 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	07/19/21 08:26	07/22/21 14:54	1
o-Terphenyl	80		70 - 130	07/19/21 08:26	07/22/21 14:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.8		5.00		mg/Kg			07/18/21 18:39	1

Client Sample ID: MW01

Lab Sample ID: 890-948-5

Date Collected: 07/13/21 15:00

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 12 - 14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 07:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 07:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 07:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 12:10	07/19/21 07:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 07:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 12:10	07/19/21 07:14	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 12:10	07/19/21 07:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/18/21 12:10	07/19/21 07:14	1
1,4-Difluorobenzene (Surr)	101		70 - 130	07/18/21 12:10	07/19/21 07:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-5

Date Collected: 07/13/21 15:00

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 12 - 14

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/19/21 08:26	07/22/21 15:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/19/21 08:26	07/22/21 15:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/19/21 08:26	07/22/21 15:15	1
Total TPH	<49.8	U	49.8		mg/Kg		07/19/21 08:26	07/22/21 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	07/19/21 08:26	07/22/21 15:15	1
o-Terphenyl	83		70 - 130	07/19/21 08:26	07/22/21 15:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.1		5.01		mg/Kg			07/18/21 18:44	1

Client Sample ID: MW01

Lab Sample ID: 890-948-6

Date Collected: 07/13/21 15:05

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 14 - 16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 07:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 07:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 07:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/21 12:10	07/19/21 07:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 07:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/21 12:10	07/19/21 07:35	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/18/21 12:10	07/19/21 07:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	07/18/21 12:10	07/19/21 07:35	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/18/21 12:10	07/19/21 07:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/19/21 08:26	07/22/21 15:36	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/19/21 08:26	07/22/21 15:36	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/19/21 08:26	07/22/21 15:36	1
Total TPH	<49.7	U	49.7		mg/Kg		07/19/21 08:26	07/22/21 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	07/19/21 08:26	07/22/21 15:36	1
o-Terphenyl	86		70 - 130	07/19/21 08:26	07/22/21 15:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.1		5.04		mg/Kg			07/19/21 11:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-7

Date Collected: 07/13/21 15:15

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 16 - 18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 09:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 09:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 09:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/21 12:10	07/19/21 09:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 09:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/21 12:10	07/19/21 09:24	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/18/21 12:10	07/19/21 09:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/18/21 12:10	07/19/21 09:24	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/18/21 12:10	07/19/21 09:24	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 15:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 15:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 15:57	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	07/19/21 08:26	07/22/21 15:57	1
o-Terphenyl	93		70 - 130	07/19/21 08:26	07/22/21 15:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	344		4.99		mg/Kg			07/19/21 11:26	1

Client Sample ID: MW01

Lab Sample ID: 890-948-8

Date Collected: 07/13/21 15:18

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 18 - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 09:45	1
Toluene	0.00573		0.00202		mg/Kg		07/18/21 12:10	07/19/21 09:45	1
Ethylbenzene	0.00311		0.00202		mg/Kg		07/18/21 12:10	07/19/21 09:45	1
m-Xylene & p-Xylene	0.00673		0.00403		mg/Kg		07/18/21 12:10	07/19/21 09:45	1
o-Xylene	0.00300		0.00202		mg/Kg		07/18/21 12:10	07/19/21 09:45	1
Xylenes, Total	0.00973		0.00403		mg/Kg		07/18/21 12:10	07/19/21 09:45	1
Total BTEX	0.0186		0.00403		mg/Kg		07/18/21 12:10	07/19/21 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	07/18/21 12:10	07/19/21 09:45	1
1,4-Difluorobenzene (Surr)	76		70 - 130	07/18/21 12:10	07/19/21 09:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-8

Date Collected: 07/13/21 15:18

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 18 - 20

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 16:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 16:18	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				07/19/21 08:26	07/22/21 16:18	1
o-Terphenyl	86		70 - 130				07/19/21 08:26	07/22/21 16:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		4.96		mg/Kg			07/19/21 11:32	1

Client Sample ID: MW01

Lab Sample ID: 890-948-9

Date Collected: 07/13/21 15:22

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 20 - 22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 10:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 10:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 10:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 12:10	07/19/21 10:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 10:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 12:10	07/19/21 10:05	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 12:10	07/19/21 10:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				07/18/21 12:10	07/19/21 10:05	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/18/21 12:10	07/19/21 10:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 16:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 16:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 16:39	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				07/19/21 08:26	07/22/21 16:39	1
o-Terphenyl	86		70 - 130				07/19/21 08:26	07/22/21 16:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177		4.96		mg/Kg			07/19/21 11:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-10

Date Collected: 07/13/21 15:27

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 22 - 24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/21 12:10	07/19/21 10:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/21 12:10	07/19/21 10:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/21 12:10	07/19/21 10:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/18/21 12:10	07/19/21 10:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/21 12:10	07/19/21 10:25	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/18/21 12:10	07/19/21 10:25	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/18/21 12:10	07/19/21 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/18/21 12:10	07/19/21 10:25	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/18/21 12:10	07/19/21 10:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 17:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 17:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 17:00	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	07/19/21 08:26	07/22/21 17:00	1
o-Terphenyl	87		70 - 130	07/19/21 08:26	07/22/21 17:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		4.99		mg/Kg			07/19/21 11:43	1

Client Sample ID: MW01

Lab Sample ID: 890-948-11

Date Collected: 07/13/21 15:35

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 24 - 26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 10:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 10:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 10:46	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/18/21 12:10	07/19/21 10:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:10	07/19/21 10:46	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/18/21 12:10	07/19/21 10:46	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/18/21 12:10	07/19/21 10:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	07/18/21 12:10	07/19/21 10:46	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/18/21 12:10	07/19/21 10:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-11

Date Collected: 07/13/21 15:35

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 24 - 26

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 17:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 17:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 17:42	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	07/19/21 08:26	07/22/21 17:42	1
o-Terphenyl	88		70 - 130	07/19/21 08:26	07/22/21 17:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.6		5.05		mg/Kg			07/19/21 11:59	1

Client Sample ID: MW01

Lab Sample ID: 890-948-12

Date Collected: 07/13/21 15:45

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 26 - 28

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 11:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 11:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 11:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/21 12:10	07/19/21 11:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 11:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/21 12:10	07/19/21 11:06	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/18/21 12:10	07/19/21 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	07/18/21 12:10	07/19/21 11:06	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/18/21 12:10	07/19/21 11:06	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 18:03	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	07/19/21 08:26	07/22/21 18:03	1
o-Terphenyl	84		70 - 130	07/19/21 08:26	07/22/21 18:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		5.03		mg/Kg			07/19/21 12:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-13

Date Collected: 07/13/21 15:50

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 28 - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 11:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/21 12:10	07/19/21 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 11:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/21 12:10	07/19/21 11:27	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/18/21 12:10	07/19/21 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	07/18/21 12:10	07/19/21 11:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/18/21 12:10	07/19/21 11:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 18:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 18:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 18:24	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	07/19/21 08:26	07/22/21 18:24	1
o-Terphenyl	83		70 - 130	07/19/21 08:26	07/22/21 18:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.4		5.02		mg/Kg			07/19/21 12:10	1

Client Sample ID: MW01

Lab Sample ID: 890-948-14

Date Collected: 07/13/21 16:00

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 30 - 32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 11:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 11:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 11:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 12:10	07/19/21 11:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:10	07/19/21 11:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 12:10	07/19/21 11:47	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 12:10	07/19/21 11:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	07/18/21 12:10	07/19/21 11:47	1
1,4-Difluorobenzene (Surr)	81		70 - 130	07/18/21 12:10	07/19/21 11:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-14

Date Collected: 07/13/21 16:00

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 30 - 32

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 18:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 18:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 18:45	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	07/19/21 08:26	07/22/21 18:45	1
o-Terphenyl	84		70 - 130	07/19/21 08:26	07/22/21 18:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.2		5.00		mg/Kg			07/19/21 12:15	1

Client Sample ID: MW01

Lab Sample ID: 890-948-15

Date Collected: 07/13/21 16:05

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 32 - 34

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/21 12:10	07/19/21 12:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/21 12:10	07/19/21 12:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/21 12:10	07/19/21 12:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/18/21 12:10	07/19/21 12:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/21 12:10	07/19/21 12:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/18/21 12:10	07/19/21 12:07	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/18/21 12:10	07/19/21 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/18/21 12:10	07/19/21 12:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/18/21 12:10	07/19/21 12:07	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 19:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 19:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 19:06	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	07/19/21 08:26	07/22/21 19:06	1
o-Terphenyl	86		70 - 130	07/19/21 08:26	07/22/21 19:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.7		4.98		mg/Kg			07/19/21 12:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-16

Date Collected: 07/13/21 16:10

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 34 - 36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 12:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 12:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 12:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/21 12:10	07/19/21 12:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 12:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/21 12:10	07/19/21 12:28	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/18/21 12:10	07/19/21 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	07/18/21 12:10	07/19/21 12:28	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/18/21 12:10	07/19/21 12:28	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 19:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 19:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 19:27	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	07/19/21 08:26	07/22/21 19:27	1
o-Terphenyl	85		70 - 130	07/19/21 08:26	07/22/21 19:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.7		4.95		mg/Kg			07/19/21 12:26	1

Client Sample ID: MW01

Lab Sample ID: 890-948-17

Date Collected: 07/13/21 16:20

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 36 - 38

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 17:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 17:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 17:19	1
m-Xylene & p-Xylene	0.00467	F1	0.00398		mg/Kg		07/18/21 11:57	07/18/21 17:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 17:19	1
Xylenes, Total	0.00467		0.00398		mg/Kg		07/18/21 11:57	07/18/21 17:19	1
Total BTEX	0.00467		0.00398		mg/Kg		07/18/21 11:57	07/18/21 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	204	S1+	70 - 130	07/18/21 11:57	07/18/21 17:19	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/18/21 11:57	07/18/21 17:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-17

Date Collected: 07/13/21 16:20

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 36 - 38

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 19:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 19:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 19:48	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/19/21 08:26	07/22/21 19:48	1
o-Terphenyl	97		70 - 130	07/19/21 08:26	07/22/21 19:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.95		mg/Kg			07/19/21 12:42	1

Client Sample ID: MW01

Lab Sample ID: 890-948-18

Date Collected: 07/13/21 16:30

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 38 - 40

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 17:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 17:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 17:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/18/21 17:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 17:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/18/21 17:46	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/18/21 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	07/18/21 11:57	07/18/21 17:46	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	07/18/21 11:57	07/18/21 17:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 20:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 20:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 20:09	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	07/19/21 08:26	07/22/21 20:09	1
o-Terphenyl	86		70 - 130	07/19/21 08:26	07/22/21 20:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.04		mg/Kg			07/19/21 12:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-19

Date Collected: 07/13/21 11:50

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 1 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 18:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 18:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 18:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/18/21 18:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 18:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/18/21 18:12	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/18/21 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/18/21 11:57	07/18/21 18:12	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/18/21 11:57	07/18/21 18:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 20:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 20:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 20:30	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 08:26	07/22/21 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	07/19/21 08:26	07/22/21 20:30	1
o-Terphenyl	87		70 - 130	07/19/21 08:26	07/22/21 20:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		5.03		mg/Kg			07/19/21 13:03	1

Client Sample ID: MW02

Lab Sample ID: 890-948-20

Date Collected: 07/13/21 11:54

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 3 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 18:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 18:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 18:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/21 11:57	07/18/21 18:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 18:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/21 11:57	07/18/21 18:39	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/18/21 11:57	07/18/21 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	07/18/21 11:57	07/18/21 18:39	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/18/21 11:57	07/18/21 18:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-20

Date Collected: 07/13/21 11:54

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 3 - 5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 20:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 20:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 20:51	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	07/19/21 08:26	07/22/21 20:51	1
o-Terphenyl	87		70 - 130	07/19/21 08:26	07/22/21 20:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		5.03		mg/Kg			07/19/21 13:09	1

Client Sample ID: MW02

Lab Sample ID: 890-948-21

Date Collected: 07/13/21 12:00

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 5 - 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/18/21 11:57	07/18/21 19:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/21 11:57	07/18/21 19:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/21 11:57	07/18/21 19:05	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/18/21 11:57	07/18/21 19:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/21 11:57	07/18/21 19:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/18/21 11:57	07/18/21 19:05	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		07/18/21 11:57	07/18/21 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	07/18/21 11:57	07/18/21 19:05	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/18/21 11:57	07/18/21 19:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 20:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 20:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 20:50	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	07/19/21 10:52	07/20/21 20:50	1
o-Terphenyl	120		70 - 130	07/19/21 10:52	07/20/21 20:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	217		5.03		mg/Kg			07/19/21 13:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-22

Date Collected: 07/13/21 12:10

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 7 - 9

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 19:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 19:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 19:32	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/21 11:57	07/18/21 19:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 19:32	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/21 11:57	07/18/21 19:32	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/18/21 11:57	07/18/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	07/18/21 11:57	07/18/21 19:32	1
1,4-Difluorobenzene (Surr)	86		70 - 130	07/18/21 11:57	07/18/21 19:32	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/19/21 10:52	07/20/21 21:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/19/21 10:52	07/20/21 21:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/19/21 10:52	07/20/21 21:53	1
Total TPH	<49.8	U	49.8		mg/Kg		07/19/21 10:52	07/20/21 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	07/19/21 10:52	07/20/21 21:53	1
o-Terphenyl	120		70 - 130	07/19/21 10:52	07/20/21 21:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		4.97		mg/Kg			07/19/21 13:20	1

Client Sample ID: MW02

Lab Sample ID: 890-948-23

Date Collected: 07/13/21 12:20

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 9 - 11

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 19:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 19:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 19:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/21 11:57	07/18/21 19:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 19:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/21 11:57	07/18/21 19:58	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/18/21 11:57	07/18/21 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/18/21 11:57	07/18/21 19:58	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/18/21 11:57	07/18/21 19:58	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-23

Date Collected: 07/13/21 12:20

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 9 - 11

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 22:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 22:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 22:14	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				07/19/21 10:52	07/20/21 22:14	1
o-Terphenyl	130		70 - 130				07/19/21 10:52	07/20/21 22:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	502		4.95		mg/Kg			07/19/21 13:25	1

Client Sample ID: MW02

Lab Sample ID: 890-948-24

Date Collected: 07/13/21 12:25

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 11 - 12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/21 11:57	07/18/21 20:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/21 11:57	07/18/21 20:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/21 11:57	07/18/21 20:25	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/18/21 11:57	07/18/21 20:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/21 11:57	07/18/21 20:25	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/18/21 11:57	07/18/21 20:25	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/18/21 11:57	07/18/21 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				07/18/21 11:57	07/18/21 20:25	1
1,4-Difluorobenzene (Surr)	89		70 - 130				07/18/21 11:57	07/18/21 20:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 22:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 22:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 22:34	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				07/19/21 10:52	07/20/21 22:34	1
o-Terphenyl	121		70 - 130				07/19/21 10:52	07/20/21 22:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2520		25.0		mg/Kg			07/19/21 13:30	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-25

Date Collected: 07/13/21 12:35

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 13 - 14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/21 11:57	07/18/21 20:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/21 11:57	07/18/21 20:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/21 11:57	07/18/21 20:51	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/18/21 11:57	07/18/21 20:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/21 11:57	07/18/21 20:51	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/18/21 11:57	07/18/21 20:51	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/18/21 11:57	07/18/21 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130	07/18/21 11:57	07/18/21 20:51	1
1,4-Difluorobenzene (Surr)	107		70 - 130	07/18/21 11:57	07/18/21 20:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/19/21 10:52	07/20/21 22:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/19/21 10:52	07/20/21 22:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/19/21 10:52	07/20/21 22:55	1
Total TPH	<49.8	U	49.8		mg/Kg		07/19/21 10:52	07/20/21 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	07/19/21 10:52	07/20/21 22:55	1
o-Terphenyl	119		70 - 130	07/19/21 10:52	07/20/21 22:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3110		25.1		mg/Kg			07/19/21 13:36	5

Client Sample ID: MW02

Lab Sample ID: 890-948-26

Date Collected: 07/13/21 12:40

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 14 - 16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 21:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 21:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 21:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/18/21 21:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/18/21 21:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/18/21 21:18	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/18/21 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/18/21 11:57	07/18/21 21:18	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/18/21 11:57	07/18/21 21:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-26

Date Collected: 07/13/21 12:40

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 14 - 16

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/19/21 10:52	07/20/21 23:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/19/21 10:52	07/20/21 23:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/19/21 10:52	07/20/21 23:16	1
Total TPH	<49.7	U	49.7		mg/Kg		07/19/21 10:52	07/20/21 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	07/19/21 10:52	07/20/21 23:16	1
o-Terphenyl	110		70 - 130	07/19/21 10:52	07/20/21 23:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4210	F1	25.1		mg/Kg			07/20/21 14:07	5

Client Sample ID: MW02

Lab Sample ID: 890-948-27

Date Collected: 07/13/21 12:50

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 16 - 18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 08:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 08:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 08:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/19/21 08:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 08:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/19/21 08:39	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/19/21 08:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/18/21 11:57	07/19/21 08:39	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	07/18/21 11:57	07/19/21 08:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/20/21 23:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/20/21 23:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/20/21 23:37	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/20/21 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	07/19/21 10:52	07/20/21 23:37	1
o-Terphenyl	127		70 - 130	07/19/21 10:52	07/20/21 23:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3660		25.2		mg/Kg			07/20/21 14:23	5

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-28

Date Collected: 07/13/21 12:55

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 20 - 22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 09:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 09:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 09:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/21 11:57	07/19/21 09:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 09:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/21 11:57	07/19/21 09:04	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/18/21 11:57	07/19/21 09:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/18/21 11:57	07/19/21 09:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/18/21 11:57	07/19/21 09:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 17:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 17:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 17:00	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				07/19/21 10:52	07/20/21 17:00	1
o-Terphenyl	122		70 - 130				07/19/21 10:52	07/20/21 17:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3420		25.1		mg/Kg			07/20/21 14:28	5

Client Sample ID: MW02

Lab Sample ID: 890-948-29

Date Collected: 07/13/21 13:00

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 22 - 24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 09:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 09:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 09:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/19/21 09:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 09:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/19/21 09:30	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/19/21 09:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				07/18/21 11:57	07/19/21 09:30	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/18/21 11:57	07/19/21 09:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-29

Date Collected: 07/13/21 13:00

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 22 - 24

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 23:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 23:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 23:58	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				07/19/21 10:52	07/20/21 23:58	1
o-Terphenyl	121		70 - 130				07/19/21 10:52	07/20/21 23:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1970		24.8		mg/Kg			07/20/21 14:33	5

Client Sample ID: MW02

Lab Sample ID: 890-948-30

Date Collected: 07/13/21 13:10

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 24 - 26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/21 11:57	07/19/21 09:55	1
Toluene	0.0246		0.00198		mg/Kg		07/18/21 11:57	07/19/21 09:55	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/21 11:57	07/19/21 09:55	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/18/21 11:57	07/19/21 09:55	1
o-Xylene	0.00590		0.00198		mg/Kg		07/18/21 11:57	07/19/21 09:55	1
Xylenes, Total	0.00590		0.00397		mg/Kg		07/18/21 11:57	07/19/21 09:55	1
Total BTEX	0.0305		0.00397		mg/Kg		07/18/21 11:57	07/19/21 09:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	18312	S1+	70 - 130				07/18/21 11:57	07/19/21 09:55	1
1,4-Difluorobenzene (Surr)	94		70 - 130				07/18/21 11:57	07/19/21 09:55	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 00:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 00:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 00:19	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				07/19/21 10:52	07/21/21 00:19	1
o-Terphenyl	116		70 - 130				07/19/21 10:52	07/21/21 00:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	823		5.02		mg/Kg			07/20/21 14:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-31

Date Collected: 07/13/21 08:05

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 1 - 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 10:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 10:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 10:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/21 11:57	07/19/21 10:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 10:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/21 11:57	07/19/21 10:20	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/18/21 11:57	07/19/21 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/18/21 11:57	07/19/21 10:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130	07/18/21 11:57	07/19/21 10:20	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 01:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 01:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 01:00	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	07/19/21 10:52	07/21/21 01:00	1
o-Terphenyl	120		70 - 130	07/19/21 10:52	07/21/21 01:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	346		25.0		mg/Kg			07/20/21 14:55	5

Client Sample ID: MW03

Lab Sample ID: 890-948-32

Date Collected: 07/13/21 08:10

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 4 - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 10:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 10:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 10:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/21 11:57	07/19/21 10:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 10:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/21 11:57	07/19/21 10:44	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/18/21 11:57	07/19/21 10:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/18/21 11:57	07/19/21 10:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130	07/18/21 11:57	07/19/21 10:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-32

Date Collected: 07/13/21 08:10

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 4 - 6

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 01:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 01:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 01:21	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	07/19/21 10:52	07/21/21 01:21	1
o-Terphenyl	150	S1+	70 - 130	07/19/21 10:52	07/21/21 01:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	425		5.04		mg/Kg			07/20/21 15:00	1

Client Sample ID: MW03

Lab Sample ID: 890-948-33

Date Collected: 07/13/21 08:12

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 7 - 9

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/18/21 11:57	07/19/21 11:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/21 11:57	07/19/21 11:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/21 11:57	07/19/21 11:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/18/21 11:57	07/19/21 11:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/21 11:57	07/19/21 11:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/18/21 11:57	07/19/21 11:10	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/18/21 11:57	07/19/21 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/18/21 11:57	07/19/21 11:10	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/18/21 11:57	07/19/21 11:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 01:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 01:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 01:42	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	07/19/21 10:52	07/21/21 01:42	1
o-Terphenyl	129		70 - 130	07/19/21 10:52	07/21/21 01:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		4.96		mg/Kg			07/20/21 15:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-34

Date Collected: 07/13/21 08:15

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 10 - 12

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 11:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 11:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 11:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/19/21 11:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 11:57	07/19/21 11:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/19/21 11:35	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 11:57	07/19/21 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	07/18/21 11:57	07/19/21 11:35	1
1,4-Difluorobenzene (Surr)	77		70 - 130	07/18/21 11:57	07/19/21 11:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 02:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 02:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 02:03	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	07/19/21 10:52	07/21/21 02:03	1
o-Terphenyl	119		70 - 130	07/19/21 10:52	07/21/21 02:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		4.98		mg/Kg			07/20/21 15:11	1

Client Sample ID: MW03

Lab Sample ID: 890-948-35

Date Collected: 07/13/21 08:20

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 12 - 14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 12:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 12:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 12:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/21 11:57	07/19/21 12:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/19/21 12:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/21 11:57	07/19/21 12:01	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/18/21 11:57	07/19/21 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/18/21 11:57	07/19/21 12:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/18/21 11:57	07/19/21 12:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-35

Date Collected: 07/13/21 08:20

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 12 - 14

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 02:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 02:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 02:24	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	07/19/21 10:52	07/21/21 02:24	1
o-Terphenyl	125		70 - 130	07/19/21 10:52	07/21/21 02:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		4.98		mg/Kg			07/20/21 15:17	1

Client Sample ID: MW03

Lab Sample ID: 890-948-36

Date Collected: 07/13/21 08:40

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 14 - 16

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/18/21 11:57	07/19/21 12:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/21 11:57	07/19/21 12:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/21 11:57	07/19/21 12:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/21 11:57	07/19/21 12:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/21 11:57	07/19/21 12:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/21 11:57	07/19/21 12:26	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/18/21 11:57	07/19/21 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/18/21 11:57	07/19/21 12:26	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/18/21 11:57	07/19/21 12:26	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 02:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 02:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 02:44	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	07/19/21 10:52	07/21/21 02:44	1
o-Terphenyl	118		70 - 130	07/19/21 10:52	07/21/21 02:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	433		4.98		mg/Kg			07/20/21 15:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-37

Date Collected: 07/13/21 08:45

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 16 - 18

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F2 F1 *1	0.00198		mg/Kg		07/18/21 12:02	07/19/21 16:40	1
Toluene	<0.00198	U F2 F1	0.00198		mg/Kg		07/18/21 12:02	07/19/21 16:40	1
Ethylbenzene	<0.00198	U F2 F1	0.00198		mg/Kg		07/18/21 12:02	07/19/21 16:40	1
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.00397		mg/Kg		07/18/21 12:02	07/19/21 16:40	1
o-Xylene	<0.00198	U F2 F1	0.00198		mg/Kg		07/18/21 12:02	07/19/21 16:40	1
Xylenes, Total	<0.00397	U F2 F1	0.00397		mg/Kg		07/18/21 12:02	07/19/21 16:40	1
Total BTEX	<0.00397	U F2 F1	0.00397		mg/Kg		07/18/21 12:02	07/19/21 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	213	S1+	70 - 130				07/18/21 12:02	07/19/21 16:40	1
1,4-Difluorobenzene (Surr)	84		70 - 130				07/18/21 12:02	07/19/21 16:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 03:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 03:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 03:05	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 03:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				07/19/21 10:52	07/21/21 03:05	1
o-Terphenyl	148	S1+	70 - 130				07/19/21 10:52	07/21/21 03:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	542		5.00		mg/Kg			07/20/21 15:38	1

Client Sample ID: MW03

Lab Sample ID: 890-948-38

Date Collected: 07/13/21 08:50

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 18 - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		07/18/21 12:02	07/19/21 17:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 17:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 17:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/21 12:02	07/19/21 17:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 17:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/21 12:02	07/19/21 17:05	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/18/21 12:02	07/19/21 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				07/18/21 12:02	07/19/21 17:05	1
1,4-Difluorobenzene (Surr)	84		70 - 130				07/18/21 12:02	07/19/21 17:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-38

Date Collected: 07/13/21 08:50

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 18 - 20

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 03:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 03:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 03:26	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	07/19/21 10:52	07/21/21 03:26	1
o-Terphenyl	124		70 - 130	07/19/21 10:52	07/21/21 03:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	558		5.00		mg/Kg			07/20/21 15:44	1

Client Sample ID: MW03

Lab Sample ID: 890-948-39

Date Collected: 07/13/21 08:52

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 20 - 22

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		07/18/21 12:02	07/19/21 17:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 17:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 17:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/21 12:02	07/19/21 17:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 17:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/21 12:02	07/19/21 17:31	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/18/21 12:02	07/19/21 17:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	07/18/21 12:02	07/19/21 17:31	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/18/21 12:02	07/19/21 17:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 03:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 03:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 03:47	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 10:52	07/21/21 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	07/19/21 10:52	07/21/21 03:47	1
o-Terphenyl	116		70 - 130	07/19/21 10:52	07/21/21 03:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	451		5.04		mg/Kg			07/20/21 16:00	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-40

Date Collected: 07/13/21 09:00

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 22 - 24

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199		mg/Kg		07/18/21 12:02	07/19/21 17:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:02	07/19/21 17:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:02	07/19/21 17:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 12:02	07/19/21 17:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:02	07/19/21 17:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 12:02	07/19/21 17:55	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 12:02	07/19/21 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/18/21 12:02	07/19/21 17:55	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/18/21 12:02	07/19/21 17:55	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 04:08	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/21/21 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	07/19/21 10:52	07/21/21 04:08	1
o-Terphenyl	131	S1+	70 - 130	07/19/21 10:52	07/21/21 04:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	501		5.02		mg/Kg			07/20/21 16:05	1

Client Sample ID: MW03

Lab Sample ID: 890-948-41

Date Collected: 07/13/21 09:10

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 24 - 26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		07/18/21 12:02	07/19/21 18:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 18:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 18:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 18:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 18:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 18:20	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	07/18/21 12:02	07/19/21 18:20	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/18/21 12:02	07/19/21 18:20	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-41

Date Collected: 07/13/21 09:10

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 24 - 26

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/20/21 09:45	07/25/21 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/20/21 09:45	07/25/21 17:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/20/21 09:45	07/25/21 17:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/20/21 09:45	07/25/21 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	07/20/21 09:45	07/25/21 17:25	1
o-Terphenyl	108		70 - 130	07/20/21 09:45	07/25/21 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1570		25.0		mg/Kg			07/20/21 17:10	5

Client Sample ID: MW03

Lab Sample ID: 890-948-42

Date Collected: 07/13/21 09:26

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 26 - 28

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		07/18/21 12:02	07/19/21 18:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 18:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 18:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 18:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 18:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 18:46	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/18/21 12:02	07/19/21 18:46	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/18/21 12:02	07/19/21 18:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 16:07	07/24/21 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 16:07	07/24/21 18:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 16:07	07/24/21 18:09	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 16:07	07/24/21 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	07/19/21 16:07	07/24/21 18:09	1
o-Terphenyl	115		70 - 130	07/19/21 16:07	07/24/21 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	396		5.00		mg/Kg			07/20/21 16:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-43

Date Collected: 07/13/21 09:32

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 28 - 30

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		07/18/21 12:02	07/19/21 19:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 19:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 19:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 19:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 19:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 19:12	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/18/21 12:02	07/19/21 19:12	1
1,4-Difluorobenzene (Surr)	101		70 - 130	07/18/21 12:02	07/19/21 19:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/21/21 14:32	07/22/21 04:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/21/21 14:32	07/22/21 04:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/21/21 14:32	07/22/21 04:01	1
Total TPH	<50.0	U	50.0		mg/Kg		07/21/21 14:32	07/22/21 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	07/21/21 14:32	07/22/21 04:01	1
o-Terphenyl	106		70 - 130	07/21/21 14:32	07/22/21 04:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		5.00		mg/Kg			07/20/21 16:21	1

Client Sample ID: MW03

Lab Sample ID: 890-948-44

Date Collected: 07/13/21 09:42

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 30 - 32

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *1	0.00202		mg/Kg		07/18/21 12:02	07/19/21 19:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:02	07/19/21 19:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:02	07/19/21 19:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/18/21 12:02	07/19/21 19:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/21 12:02	07/19/21 19:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/18/21 12:02	07/19/21 19:38	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/18/21 12:02	07/19/21 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	07/18/21 12:02	07/19/21 19:38	1
1,4-Difluorobenzene (Surr)	107		70 - 130	07/18/21 12:02	07/19/21 19:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-44

Date Collected: 07/13/21 09:42

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 30 - 32

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/21/21 14:32	07/22/21 04:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/21/21 14:32	07/22/21 04:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/21/21 14:32	07/22/21 04:22	1
Total TPH	<50.0	U	50.0		mg/Kg		07/21/21 14:32	07/22/21 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	07/21/21 14:32	07/22/21 04:22	1
o-Terphenyl	111		70 - 130	07/21/21 14:32	07/22/21 04:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.4		5.04		mg/Kg			07/20/21 16:27	1

Client Sample ID: MW03

Lab Sample ID: 890-948-45

Date Collected: 07/13/21 09:50

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 34 - 36

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199		mg/Kg		07/18/21 12:02	07/19/21 20:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:02	07/19/21 20:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:02	07/19/21 20:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/21 12:02	07/19/21 20:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/21 12:02	07/19/21 20:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/21 12:02	07/19/21 20:04	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/18/21 12:02	07/19/21 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	07/18/21 12:02	07/19/21 20:04	1
1,4-Difluorobenzene (Surr)	105		70 - 130	07/18/21 12:02	07/19/21 20:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/23/21 14:29	07/25/21 02:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/23/21 14:29	07/25/21 02:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/23/21 14:29	07/25/21 02:09	1
Total TPH	<49.9	U	49.9		mg/Kg		07/23/21 14:29	07/25/21 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/23/21 14:29	07/25/21 02:09	1
o-Terphenyl	108		70 - 130	07/23/21 14:29	07/25/21 02:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.8		5.02		mg/Kg			07/20/21 16:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-46

Date Collected: 07/13/21 10:00

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 36 - 38

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200		mg/Kg		07/18/21 12:02	07/19/21 20:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 20:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 20:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 20:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 20:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 20:29	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/18/21 12:02	07/19/21 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				07/18/21 12:02	07/19/21 20:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/18/21 12:02	07/19/21 20:29	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		07/16/21 11:53	07/19/21 20:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/16/21 11:53	07/19/21 20:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/16/21 11:53	07/19/21 20:49	1
Total TPH	<49.9	U	49.9		mg/Kg		07/16/21 11:53	07/19/21 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				07/16/21 11:53	07/19/21 20:49	1
o-Terphenyl	88		70 - 130				07/16/21 11:53	07/19/21 20:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		5.03		mg/Kg			07/19/21 18:05	1

Client Sample ID: MW03

Lab Sample ID: 890-948-47

Date Collected: 07/13/21 10:10

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 38 - 40

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201		mg/Kg		07/18/21 12:02	07/19/21 22:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:02	07/19/21 22:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:02	07/19/21 22:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/21 12:02	07/19/21 22:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/21 12:02	07/19/21 22:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/21 12:02	07/19/21 22:13	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/18/21 12:02	07/19/21 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/18/21 12:02	07/19/21 22:13	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				07/18/21 12:02	07/19/21 22:13	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-47

Date Collected: 07/13/21 10:10

Matrix: Solid

Date Received: 07/15/21 09:06

Sample Depth: 38 - 40

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		07/16/21 11:53	07/19/21 21:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/16/21 11:53	07/19/21 21:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/16/21 11:53	07/19/21 21:10	1
Total TPH	<50.0	U	50.0		mg/Kg		07/16/21 11:53	07/19/21 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	07/16/21 11:53	07/19/21 21:10	1
o-Terphenyl	104		70 - 130	07/16/21 11:53	07/19/21 21:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		4.95		mg/Kg			07/19/21 18:22	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-948-1	MW01	129	72
890-948-2	MW01	110	102
890-948-3	MW01	112	100
890-948-4	MW01	119	99
890-948-5	MW01	112	101
890-948-6	MW01	133 S1+	94
890-948-7	MW01	104	97
890-948-8	MW01	74	76
890-948-9	MW01	115	100
890-948-10	MW01	110	98
890-948-11	MW01	144 S1+	89
890-948-12	MW01	126	92
890-948-13	MW01	121	95
890-948-14	MW01	141 S1+	81
890-948-15	MW01	115	103
890-948-16	MW01	125	91
890-948-17	MW01	204 S1+	92
890-948-17 MS	MW01	95	101
890-948-17 MSD	MW01	95	103
890-948-18	MW01	118	67 S1-
890-948-19	MW02	102	98
890-948-20	MW02	86	92
890-948-21	MW02	88	95
890-948-22	MW02	119	86
890-948-23	MW02	90	87
890-948-24	MW02	87	89
890-948-25	MW02	197 S1+	107
890-948-26	MW02	104	103
890-948-27	MW02	111	66 S1-
890-948-28	MW02	105	96
890-948-29	MW02	89	95
890-948-30	MW02	18312 S1+	94
890-948-31	MW03	109	101
890-948-32	MW03	110	101
890-948-33	MW03	99	98
890-948-34	MW03	76	77
890-948-35	MW03	106	99
890-948-36	MW03	92	91
890-948-37	MW03	213 S1+	84
890-948-37 MS	MW03	117	113
890-948-37 MSD	MW03	121	104
890-948-38	MW03	94	84
890-948-39	MW03	113	98
890-948-40	MW03	106	98
890-948-41	MW03	126	103
890-948-42	MW03	102	95
890-948-43	MW03	110	101
890-948-44	MW03	134 S1+	107
890-948-45	MW03	118	105

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-948-46	MW03	121	101
890-948-47	MW03	109	69 S1-
LCS 880-5335/1-A	Lab Control Sample	90	99
LCS 880-5336/1-A	Lab Control Sample	103	129
LCS 880-5338/1-A	Lab Control Sample	96	96
LCSD 880-5335/2-A	Lab Control Sample Dup	87	101
LCSD 880-5336/2-A	Lab Control Sample Dup	104	106
LCSD 880-5338/2-A	Lab Control Sample Dup	99	93
MB 880-5334/5-A	Method Blank	107	95
MB 880-5335/5-A	Method Blank	75	82
MB 880-5336/5-A	Method Blank	75	84
MB 880-5338/5-A	Method Blank	107	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-948-1	MW01	78	82
890-948-1 MS	MW01	84	86
890-948-1 MSD	MW01	83	84
890-948-2	MW01	81	88
890-948-3	MW01	78	85
890-948-4	MW01	77	80
890-948-5	MW01	77	83
890-948-6	MW01	80	86
890-948-7	MW01	83	93
890-948-8	MW01	79	86
890-948-9	MW01	79	86
890-948-10	MW01	80	87
890-948-11	MW01	81	88
890-948-12	MW01	79	84
890-948-13	MW01	77	83
890-948-14	MW01	77	84
890-948-15	MW01	78	86
890-948-16	MW01	79	85
890-948-17	MW01	87	97
890-948-18	MW01	80	86
890-948-19	MW02	79	87
890-948-20	MW02	79	87
890-948-21	MW02	111	120
890-948-21 MS	MW02	100	101
890-948-21 MSD	MW02	97	99
890-948-22	MW02	108	120
890-948-23	MW02	114	130
890-948-24	MW02	108	121

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-948-25	MW02	107	119
890-948-26	MW02	100	110
890-948-27	MW02	115	127
890-948-28	MW02	107	122
890-948-29	MW02	110	121
890-948-30	MW02	105	116
890-948-31	MW03	106	120
890-948-32	MW03	129	150 S1+
890-948-33	MW03	111	129
890-948-34	MW03	106	119
890-948-35	MW03	110	125
890-948-36	MW03	105	118
890-948-37	MW03	136 S1+	148 S1+
890-948-38	MW03	112	124
890-948-39	MW03	102	116
890-948-40	MW03	113	131 S1+
890-948-41	MW03	96	108
890-948-42	MW03	96	115
890-948-43	MW03	101	106
890-948-44	MW03	105	111
890-948-45	MW03	92	108
890-948-46	MW03	81	88
890-948-47	MW03	97	104
LCS 880-5277/2-A	Lab Control Sample	84	82
LCS 880-5349/2-A	Lab Control Sample	86	90
LCS 880-5360/2-A	Lab Control Sample	113	117
LCS 880-5397/2-A	Lab Control Sample	100	112
LCS 880-5409/2-A	Lab Control Sample	95	105
LCS 880-5482/2-A	Lab Control Sample	106	100
LCS 880-5603/2-A	Lab Control Sample	99	111
LCSD 880-5277/3-A	Lab Control Sample Dup	88	88
LCSD 880-5349/3-A	Lab Control Sample Dup	89	93
LCSD 880-5360/3-A	Lab Control Sample Dup	112	113
LCSD 880-5397/3-A	Lab Control Sample Dup	97	108
LCSD 880-5409/3-A	Lab Control Sample Dup	99	107
LCSD 880-5482/3-A	Lab Control Sample Dup	95	91
LCSD 880-5603/3-A	Lab Control Sample Dup	97	109
MB 880-5277/1-A	Method Blank	87	95
MB 880-5349/1-A	Method Blank	79	87
MB 880-5360/1-A	Method Blank	102	113
MB 880-5397/1-A	Method Blank	89	104
MB 880-5409/1-A	Method Blank	92	109
MB 880-5482/1-A	Method Blank	110	118
MB 880-5603/1-A	Method Blank	92	114

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5334/5-A
Matrix: Solid
Analysis Batch: 5337

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:54	07/18/21 16:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:54	07/18/21 16:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:54	07/18/21 16:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/21 11:54	07/18/21 16:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:54	07/18/21 16:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/21 11:54	07/18/21 16:28	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/18/21 11:54	07/18/21 16:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/18/21 11:54	07/18/21 16:28	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/18/21 11:54	07/18/21 16:28	1

Lab Sample ID: MB 880-5335/5-A
Matrix: Solid
Analysis Batch: 5232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 16:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 16:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 16:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/21 11:57	07/18/21 16:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 11:57	07/18/21 16:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/21 11:57	07/18/21 16:52	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/18/21 11:57	07/18/21 16:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	07/18/21 11:57	07/18/21 16:52	1
1,4-Difluorobenzene (Surr)	82		70 - 130	07/18/21 11:57	07/18/21 16:52	1

Lab Sample ID: LCS 880-5335/1-A
Matrix: Solid
Analysis Batch: 5232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09542		mg/Kg		95	70 - 130
Toluene	0.100	0.1081		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1094		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.1919		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09517		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5335/2-A

Matrix: Solid

Analysis Batch: 5232

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5335

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09360		mg/Kg		94	70 - 130	2	35
Toluene	0.100	0.09841		mg/Kg		98	70 - 130	9	35
Ethylbenzene	0.100	0.1001		mg/Kg		100	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1752		mg/Kg		88	70 - 130	9	35
o-Xylene	0.100	0.08673		mg/Kg		87	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-948-17 MS

Matrix: Solid

Analysis Batch: 5232

Client Sample ID: MW01

Prep Type: Total/NA

Prep Batch: 5335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0998	0.07378		mg/Kg		74	70 - 130
Toluene	<0.00199	U	0.0998	0.08338		mg/Kg		84	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.08218		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.00467	F1	0.200	0.1431	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00199	U	0.0998	0.07084		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-948-17 MSD

Matrix: Solid

Analysis Batch: 5232

Client Sample ID: MW01

Prep Type: Total/NA

Prep Batch: 5335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09073		mg/Kg		91	70 - 130	21	35
Toluene	<0.00199	U	0.100	0.08703		mg/Kg		87	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.08667		mg/Kg		87	70 - 130	5	35
m-Xylene & p-Xylene	0.00467	F1	0.200	0.1510		mg/Kg		73	70 - 130	5	35
o-Xylene	<0.00199	U	0.100	0.07448		mg/Kg		74	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-5336/5-A

Matrix: Solid

Analysis Batch: 5232

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 16:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 16:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 16:14	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-5336/5-A

Matrix: Solid

Analysis Batch: 5232

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/21 12:02	07/19/21 16:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:02	07/19/21 16:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/21 12:02	07/19/21 16:14	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/18/21 12:02	07/19/21 16:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	07/18/21 12:02	07/19/21 16:14	1
1,4-Difluorobenzene (Surr)	84		70 - 130	07/18/21 12:02	07/19/21 16:14	1

Lab Sample ID: LCS 880-5336/1-A

Matrix: Solid

Analysis Batch: 5232

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08285		mg/Kg		83	70 - 130
Toluene	0.100	0.1068		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1094		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.1911		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09390		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	129		70 - 130

Lab Sample ID: LCSD 880-5336/2-A

Matrix: Solid

Analysis Batch: 5232

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5336

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1209	*1	mg/Kg		121	70 - 130	37	35
Toluene	0.100	0.1094		mg/Kg		109	70 - 130	2	35
Ethylbenzene	0.100	0.1291		mg/Kg		129	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.2289		mg/Kg		114	70 - 130	18	35
o-Xylene	0.100	0.1119		mg/Kg		112	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-948-37 MS

Matrix: Solid

Analysis Batch: 5232

Client Sample ID: MW03

Prep Type: Total/NA

Prep Batch: 5336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U F2 F1	0.101	0.09562		mg/Kg		93	70 - 130
Toluene	<0.00198	U F2 F1	0.101	0.1024		mg/Kg		102	70 - 130
Ethylbenzene	<0.00198	U F2 F1	0.101	0.1037		mg/Kg		103	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-948-37 MS

Matrix: Solid

Analysis Batch: 5232

Client Sample ID: MW03

Prep Type: Total/NA

Prep Batch: 5336

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.202	0.1805		mg/Kg		90	70 - 130
o-Xylene	<0.00198	U F2 F1	0.101	0.09352		mg/Kg		93	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	117		70 - 130						
1,4-Difluorobenzene (Surr)	113		70 - 130						

Lab Sample ID: 890-948-37 MSD

Matrix: Solid

Analysis Batch: 5232

Client Sample ID: MW03

Prep Type: Total/NA

Prep Batch: 5336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F2 F1	0.0994	<0.00199	U F2 F1	mg/Kg		-0.09	70 - 130	194	35
		*1									
Toluene	<0.00198	U F2 F1	0.0994	<0.00199	U F2 F1	mg/Kg		2	70 - 130	193	35
Ethylbenzene	<0.00198	U F2 F1	0.0994	<0.00199	U F2 F1	mg/Kg		2	70 - 130	194	35
m-Xylene & p-Xylene	<0.00397	U F2 F1	0.199	0.004295	F2 F1	mg/Kg		2	70 - 130	191	35
o-Xylene	<0.00198	U F2 F1	0.0994	<0.00199	U F2 F1	mg/Kg		2	70 - 130	193	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	121		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

Lab Sample ID: MB 880-5338/5-A

Matrix: Solid

Analysis Batch: 5337

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 04:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 04:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 04:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/21 12:10	07/19/21 04:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/21 12:10	07/19/21 04:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/21 12:10	07/19/21 04:03	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/18/21 12:10	07/19/21 04:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/18/21 12:10	07/19/21 04:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130				07/18/21 12:10	07/19/21 04:03	1

Lab Sample ID: LCS 880-5338/1-A

Matrix: Solid

Analysis Batch: 5337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09518		mg/Kg		95	70 - 130
Toluene	0.100	0.09522		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09775		mg/Kg		98	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-5338/1-A

Matrix: Solid

Analysis Batch: 5337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	0.200	0.1959		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09369		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-5338/2-A

Matrix: Solid

Analysis Batch: 5337

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5338

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09415		mg/Kg		94	70 - 130	1	35
Toluene	0.100	0.09497		mg/Kg		95	70 - 130	0	35
Ethylbenzene	0.100	0.09893		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1981		mg/Kg		99	70 - 130	1	35
o-Xylene	0.100	0.09494		mg/Kg		95	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5277/1-A

Matrix: Solid

Analysis Batch: 5356

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/16/21 11:53	07/19/21 12:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/16/21 11:53	07/19/21 12:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/16/21 11:53	07/19/21 12:31	1
Total TPH	<50.0	U	50.0		mg/Kg		07/16/21 11:53	07/19/21 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/16/21 11:53	07/19/21 12:31	1
o-Terphenyl	95		70 - 130	07/16/21 11:53	07/19/21 12:31	1

Lab Sample ID: LCS 880-5277/2-A

Matrix: Solid

Analysis Batch: 5356

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	681.7	*-	mg/Kg		68	70 - 130
Diesel Range Organics (Over C10-C28)	1000	801.6		mg/Kg		80	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-5277/2-A
Matrix: Solid
Analysis Batch: 5356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5277

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-5277/3-A
Matrix: Solid
Analysis Batch: 5356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	681.5	*-	mg/Kg		68	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	862.5		mg/Kg		86	70 - 130	7	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: MB 880-5349/1-A
Matrix: Solid
Analysis Batch: 5508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 12:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 12:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 12:07	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 08:26	07/22/21 12:07	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	79		70 - 130				07/19/21 08:26	07/22/21 12:07	1
o-Terphenyl	87		70 - 130				07/19/21 08:26	07/22/21 12:07	1

Lab Sample ID: LCS 880-5349/2-A
Matrix: Solid
Analysis Batch: 5508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5349

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	749.5		mg/Kg		75	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	812.1		mg/Kg		81	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	90		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-5349/3-A

Matrix: Solid

Analysis Batch: 5508

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5349

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	721.4		mg/Kg		72	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	860.4		mg/Kg		86	70 - 130	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	89		70 - 130						
o-Terphenyl	93		70 - 130						

Lab Sample ID: 890-948-1 MS

Matrix: Solid

Analysis Batch: 5508

Client Sample ID: MW01

Prep Type: Total/NA

Prep Batch: 5349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	781.3		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	996	867.1		mg/Kg		87	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	84		70 - 130								
o-Terphenyl	86		70 - 130								

Lab Sample ID: 890-948-1 MSD

Matrix: Solid

Analysis Batch: 5508

Client Sample ID: MW01

Prep Type: Total/NA

Prep Batch: 5349

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	769.0		mg/Kg		76	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	856.5		mg/Kg		86	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	83		70 - 130								
o-Terphenyl	84		70 - 130								

Lab Sample ID: MB 880-5360/1-A

Matrix: Solid

Analysis Batch: 5403

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 19:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 19:47	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 10:52	07/20/21 19:47	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-5360/1-A

Matrix: Solid

Analysis Batch: 5403

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5360

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	102		70 - 130	07/19/21 10:52	07/20/21 19:47	1				
o-Terphenyl	113		70 - 130	07/19/21 10:52	07/20/21 19:47	1				

Lab Sample ID: LCS 880-5360/2-A

Matrix: Solid

Analysis Batch: 5403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5360

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	943.6		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1122		mg/Kg		112	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	117		70 - 130								

Lab Sample ID: LCSD 880-5360/3-A

Matrix: Solid

Analysis Batch: 5403

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5360

			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1020		mg/Kg		102	70 - 130	8	20	
Diesel Range Organics (Over C10-C28)			1000	1088		mg/Kg		109	70 - 130	3	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	112		70 - 130									
o-Terphenyl	113		70 - 130									

Lab Sample ID: 890-948-21 MS

Matrix: Solid

Analysis Batch: 5403

Client Sample ID: MW02

Prep Type: Total/NA

Prep Batch: 5360

	Sample	Sample	Spike	MS	MS				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	928.0		mg/Kg		93	70 - 130			
Diesel Range Organics (Over C10-C28)	<50.0	U	996	1008		mg/Kg		101	70 - 130			

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	100		70 - 130									
o-Terphenyl	101		70 - 130									

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-948-21 MSD

Matrix: Solid

Analysis Batch: 5403

Client Sample ID: MW02

Prep Type: Total/NA

Prep Batch: 5360

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	925.6		mg/Kg		93	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	992.3		mg/Kg		100	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	99		70 - 130								

Lab Sample ID: MB 880-5397/1-A

Matrix: Solid

Analysis Batch: 5611

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/19/21 16:07	07/24/21 09:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 16:07	07/24/21 09:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 16:07	07/24/21 09:24	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 16:07	07/24/21 09:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/19/21 16:07	07/24/21 09:24	1
o-Terphenyl	104		70 - 130				07/19/21 16:07	07/24/21 09:24	1

Lab Sample ID: LCS 880-5397/2-A

Matrix: Solid

Analysis Batch: 5611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5397

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	874.1		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1000		mg/Kg		100	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: LCSD 880-5397/3-A

Matrix: Solid

Analysis Batch: 5611

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5397

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	838.4		mg/Kg		84	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	965.0		mg/Kg		97	70 - 130	4	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-5397/3-A
Matrix: Solid
Analysis Batch: 5611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5397

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: MB 880-5409/1-A
Matrix: Solid
Analysis Batch: 5629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5409

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/20/21 09:45	07/25/21 11:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/20/21 09:45	07/25/21 11:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/20/21 09:45	07/25/21 11:26	1
Total TPH	<50.0	U	50.0		mg/Kg		07/20/21 09:45	07/25/21 11:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/20/21 09:45	07/25/21 11:26	1
o-Terphenyl	109		70 - 130	07/20/21 09:45	07/25/21 11:26	1

Lab Sample ID: LCS 880-5409/2-A
Matrix: Solid
Analysis Batch: 5629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	803.4		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	932.2		mg/Kg		93	70 - 130

Surrogate	LCS	LCS	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-5409/3-A
Matrix: Solid
Analysis Batch: 5629

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5409

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	884.3		mg/Kg		88	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	959.6		mg/Kg		96	70 - 130	3	20

Surrogate	LCSD	LCSD	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	107		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-5482/1-A
Matrix: Solid
Analysis Batch: 5450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/21/21 14:31	07/21/21 19:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/21/21 14:31	07/21/21 19:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/21/21 14:31	07/21/21 19:42	1
Total TPH	<50.0	U	50.0		mg/Kg		07/21/21 14:31	07/21/21 19:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	07/21/21 14:31	07/21/21 19:42	1
o-Terphenyl	118		70 - 130	07/21/21 14:31	07/21/21 19:42	1

Lab Sample ID: LCS 880-5482/2-A
Matrix: Solid
Analysis Batch: 5450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5482

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	860.7		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	999.1		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-5482/3-A
Matrix: Solid
Analysis Batch: 5450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5482

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	776.6		mg/Kg		78	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	885.6		mg/Kg		89	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: MB 880-5603/1-A
Matrix: Solid
Analysis Batch: 5611

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/23/21 14:29	07/24/21 18:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/23/21 14:29	07/24/21 18:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/23/21 14:29	07/24/21 18:51	1
Total TPH	<50.0	U	50.0		mg/Kg		07/23/21 14:29	07/24/21 18:51	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/23/21 14:29	07/24/21 18:51	1
o-Terphenyl	114		70 - 130	07/23/21 14:29	07/24/21 18:51	1

Lab Sample ID: LCS 880-5603/2-A
Matrix: Solid
Analysis Batch: 5611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	853.2		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	988.2		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: LCSD 880-5603/3-A
Matrix: Solid
Analysis Batch: 5611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5603

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	815.3		mg/Kg		82	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	984.0		mg/Kg		98	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	109		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5297/1-A
Matrix: Solid
Analysis Batch: 5344

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/18/21 16:02	1

Lab Sample ID: LCS 880-5297/2-A
Matrix: Solid
Analysis Batch: 5344

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	244.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-5297/3-A
Matrix: Solid
Analysis Batch: 5344

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	245.0		mg/Kg		98	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5305/1-A
Matrix: Solid
Analysis Batch: 5346

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/19/21 10:54	1

Lab Sample ID: LCS 880-5305/2-A
Matrix: Solid
Analysis Batch: 5346

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	248.5		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-5305/3-A
Matrix: Solid
Analysis Batch: 5346

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	249.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-948-6 MS
Matrix: Solid
Analysis Batch: 5346

Client Sample ID: MW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	88.1		252	341.9		mg/Kg		101	90 - 110

Lab Sample ID: 890-948-6 MSD
Matrix: Solid
Analysis Batch: 5346

Client Sample ID: MW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	88.1		252	342.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-948-16 MS
Matrix: Solid
Analysis Batch: 5346

Client Sample ID: MW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	70.7		248	321.3		mg/Kg		101	90 - 110

Lab Sample ID: 890-948-16 MSD
Matrix: Solid
Analysis Batch: 5346

Client Sample ID: MW01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	70.7		248	321.0		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-5308/1-A
Matrix: Solid
Analysis Batch: 5398

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/19/21 17:49	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-5308/2-A

Matrix: Solid

Analysis Batch: 5398

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.9		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-5308/3-A

Matrix: Solid

Analysis Batch: 5398

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	251.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-948-46 MS

Matrix: Solid

Analysis Batch: 5398

Client Sample ID: MW03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	182		252	422.9		mg/Kg		96	90 - 110

Lab Sample ID: 890-948-46 MSD

Matrix: Solid

Analysis Batch: 5398

Client Sample ID: MW03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	182		252	429.2		mg/Kg		98	90 - 110	1	20

Lab Sample ID: MB 880-5306/1-A

Matrix: Solid

Analysis Batch: 5430

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/20/21 13:50	1

Lab Sample ID: LCS 880-5306/2-A

Matrix: Solid

Analysis Batch: 5430

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	244.3		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-5306/3-A

Matrix: Solid

Analysis Batch: 5430

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	244.7		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-948-26 MS

Matrix: Solid

Analysis Batch: 5430

Client Sample ID: MW02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4210	F1	1250	1507	F1	mg/Kg		-216	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-948-26 MSD

Matrix: Solid

Analysis Batch: 5430

Client Sample ID: MW02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4210	F1	1250	1510	F1	mg/Kg		-215	90 - 110	0	20

Lab Sample ID: 890-948-36 MS

Matrix: Solid

Analysis Batch: 5430

Client Sample ID: MW03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	433		249	656.9		mg/Kg		90	90 - 110		

Lab Sample ID: 890-948-36 MSD

Matrix: Solid

Analysis Batch: 5430

Client Sample ID: MW03

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	433		249	657.1		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

GC VOA

Analysis Batch: 5232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-17	MW01	Total/NA	Solid	8021B	5335
890-948-18	MW01	Total/NA	Solid	8021B	5335
890-948-19	MW02	Total/NA	Solid	8021B	5335
890-948-20	MW02	Total/NA	Solid	8021B	5335
890-948-21	MW02	Total/NA	Solid	8021B	5335
890-948-22	MW02	Total/NA	Solid	8021B	5335
890-948-23	MW02	Total/NA	Solid	8021B	5335
890-948-24	MW02	Total/NA	Solid	8021B	5335
890-948-25	MW02	Total/NA	Solid	8021B	5335
890-948-26	MW02	Total/NA	Solid	8021B	5335
890-948-27	MW02	Total/NA	Solid	8021B	5335
890-948-28	MW02	Total/NA	Solid	8021B	5335
890-948-29	MW02	Total/NA	Solid	8021B	5335
890-948-30	MW02	Total/NA	Solid	8021B	5335
890-948-31	MW03	Total/NA	Solid	8021B	5335
890-948-32	MW03	Total/NA	Solid	8021B	5335
890-948-33	MW03	Total/NA	Solid	8021B	5335
890-948-34	MW03	Total/NA	Solid	8021B	5335
890-948-35	MW03	Total/NA	Solid	8021B	5335
890-948-36	MW03	Total/NA	Solid	8021B	5335
890-948-37	MW03	Total/NA	Solid	8021B	5336
890-948-38	MW03	Total/NA	Solid	8021B	5336
890-948-39	MW03	Total/NA	Solid	8021B	5336
890-948-40	MW03	Total/NA	Solid	8021B	5336
890-948-41	MW03	Total/NA	Solid	8021B	5336
890-948-42	MW03	Total/NA	Solid	8021B	5336
890-948-43	MW03	Total/NA	Solid	8021B	5336
890-948-44	MW03	Total/NA	Solid	8021B	5336
890-948-45	MW03	Total/NA	Solid	8021B	5336
890-948-46	MW03	Total/NA	Solid	8021B	5336
890-948-47	MW03	Total/NA	Solid	8021B	5336
MB 880-5335/5-A	Method Blank	Total/NA	Solid	8021B	5335
MB 880-5336/5-A	Method Blank	Total/NA	Solid	8021B	5336
LCS 880-5335/1-A	Lab Control Sample	Total/NA	Solid	8021B	5335
LCS 880-5336/1-A	Lab Control Sample	Total/NA	Solid	8021B	5336
LCSD 880-5335/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5335
LCSD 880-5336/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5336
890-948-17 MS	MW01	Total/NA	Solid	8021B	5335
890-948-17 MSD	MW01	Total/NA	Solid	8021B	5335
890-948-37 MS	MW03	Total/NA	Solid	8021B	5336
890-948-37 MSD	MW03	Total/NA	Solid	8021B	5336

Prep Batch: 5334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5334/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-17	MW01	Total/NA	Solid	5035	
890-948-18	MW01	Total/NA	Solid	5035	
890-948-19	MW02	Total/NA	Solid	5035	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 5335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-20	MW02	Total/NA	Solid	5035	
890-948-21	MW02	Total/NA	Solid	5035	
890-948-22	MW02	Total/NA	Solid	5035	
890-948-23	MW02	Total/NA	Solid	5035	
890-948-24	MW02	Total/NA	Solid	5035	
890-948-25	MW02	Total/NA	Solid	5035	
890-948-26	MW02	Total/NA	Solid	5035	
890-948-27	MW02	Total/NA	Solid	5035	
890-948-28	MW02	Total/NA	Solid	5035	
890-948-29	MW02	Total/NA	Solid	5035	
890-948-30	MW02	Total/NA	Solid	5035	
890-948-31	MW03	Total/NA	Solid	5035	
890-948-32	MW03	Total/NA	Solid	5035	
890-948-33	MW03	Total/NA	Solid	5035	
890-948-34	MW03	Total/NA	Solid	5035	
890-948-35	MW03	Total/NA	Solid	5035	
890-948-36	MW03	Total/NA	Solid	5035	
MB 880-5335/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5335/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5335/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-948-17 MS	MW01	Total/NA	Solid	5035	
890-948-17 MSD	MW01	Total/NA	Solid	5035	

Prep Batch: 5336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-37	MW03	Total/NA	Solid	5035	
890-948-38	MW03	Total/NA	Solid	5035	
890-948-39	MW03	Total/NA	Solid	5035	
890-948-40	MW03	Total/NA	Solid	5035	
890-948-41	MW03	Total/NA	Solid	5035	
890-948-42	MW03	Total/NA	Solid	5035	
890-948-43	MW03	Total/NA	Solid	5035	
890-948-44	MW03	Total/NA	Solid	5035	
890-948-45	MW03	Total/NA	Solid	5035	
890-948-46	MW03	Total/NA	Solid	5035	
890-948-47	MW03	Total/NA	Solid	5035	
MB 880-5336/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5336/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5336/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-948-37 MS	MW03	Total/NA	Solid	5035	
890-948-37 MSD	MW03	Total/NA	Solid	5035	

Analysis Batch: 5337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-1	MW01	Total/NA	Solid	8021B	5338
890-948-2	MW01	Total/NA	Solid	8021B	5338
890-948-3	MW01	Total/NA	Solid	8021B	5338
890-948-4	MW01	Total/NA	Solid	8021B	5338
890-948-5	MW01	Total/NA	Solid	8021B	5338
890-948-6	MW01	Total/NA	Solid	8021B	5338
890-948-7	MW01	Total/NA	Solid	8021B	5338

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 5337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-8	MW01	Total/NA	Solid	8021B	5338
890-948-9	MW01	Total/NA	Solid	8021B	5338
890-948-10	MW01	Total/NA	Solid	8021B	5338
890-948-11	MW01	Total/NA	Solid	8021B	5338
890-948-12	MW01	Total/NA	Solid	8021B	5338
890-948-13	MW01	Total/NA	Solid	8021B	5338
890-948-14	MW01	Total/NA	Solid	8021B	5338
890-948-15	MW01	Total/NA	Solid	8021B	5338
890-948-16	MW01	Total/NA	Solid	8021B	5338
MB 880-5334/5-A	Method Blank	Total/NA	Solid	8021B	5334
MB 880-5338/5-A	Method Blank	Total/NA	Solid	8021B	5338
LCS 880-5338/1-A	Lab Control Sample	Total/NA	Solid	8021B	5338
LCSD 880-5338/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5338

Prep Batch: 5338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-1	MW01	Total/NA	Solid	5035	
890-948-2	MW01	Total/NA	Solid	5035	
890-948-3	MW01	Total/NA	Solid	5035	
890-948-4	MW01	Total/NA	Solid	5035	
890-948-5	MW01	Total/NA	Solid	5035	
890-948-6	MW01	Total/NA	Solid	5035	
890-948-7	MW01	Total/NA	Solid	5035	
890-948-8	MW01	Total/NA	Solid	5035	
890-948-9	MW01	Total/NA	Solid	5035	
890-948-10	MW01	Total/NA	Solid	5035	
890-948-11	MW01	Total/NA	Solid	5035	
890-948-12	MW01	Total/NA	Solid	5035	
890-948-13	MW01	Total/NA	Solid	5035	
890-948-14	MW01	Total/NA	Solid	5035	
890-948-15	MW01	Total/NA	Solid	5035	
890-948-16	MW01	Total/NA	Solid	5035	
MB 880-5338/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5338/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5338/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 5277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-46	MW03	Total/NA	Solid	8015NM Prep	
890-948-47	MW03	Total/NA	Solid	8015NM Prep	
MB 880-5277/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5277/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 5349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-1	MW01	Total/NA	Solid	8015NM Prep	
890-948-2	MW01	Total/NA	Solid	8015NM Prep	
890-948-3	MW01	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

GC Semi VOA (Continued)

Prep Batch: 5349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-4	MW01	Total/NA	Solid	8015NM Prep	
890-948-5	MW01	Total/NA	Solid	8015NM Prep	
890-948-6	MW01	Total/NA	Solid	8015NM Prep	
890-948-7	MW01	Total/NA	Solid	8015NM Prep	
890-948-8	MW01	Total/NA	Solid	8015NM Prep	
890-948-9	MW01	Total/NA	Solid	8015NM Prep	
890-948-10	MW01	Total/NA	Solid	8015NM Prep	
890-948-11	MW01	Total/NA	Solid	8015NM Prep	
890-948-12	MW01	Total/NA	Solid	8015NM Prep	
890-948-13	MW01	Total/NA	Solid	8015NM Prep	
890-948-14	MW01	Total/NA	Solid	8015NM Prep	
890-948-15	MW01	Total/NA	Solid	8015NM Prep	
890-948-16	MW01	Total/NA	Solid	8015NM Prep	
890-948-17	MW01	Total/NA	Solid	8015NM Prep	
890-948-18	MW01	Total/NA	Solid	8015NM Prep	
890-948-19	MW02	Total/NA	Solid	8015NM Prep	
890-948-20	MW02	Total/NA	Solid	8015NM Prep	
MB 880-5349/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5349/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5349/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-948-1 MS	MW01	Total/NA	Solid	8015NM Prep	
890-948-1 MSD	MW01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-46	MW03	Total/NA	Solid	8015B NM	5277
890-948-47	MW03	Total/NA	Solid	8015B NM	5277
MB 880-5277/1-A	Method Blank	Total/NA	Solid	8015B NM	5277
LCS 880-5277/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5277
LCSD 880-5277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5277

Prep Batch: 5360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-21	MW02	Total/NA	Solid	8015NM Prep	
890-948-22	MW02	Total/NA	Solid	8015NM Prep	
890-948-23	MW02	Total/NA	Solid	8015NM Prep	
890-948-24	MW02	Total/NA	Solid	8015NM Prep	
890-948-25	MW02	Total/NA	Solid	8015NM Prep	
890-948-26	MW02	Total/NA	Solid	8015NM Prep	
890-948-27	MW02	Total/NA	Solid	8015NM Prep	
890-948-28	MW02	Total/NA	Solid	8015NM Prep	
890-948-29	MW02	Total/NA	Solid	8015NM Prep	
890-948-30	MW02	Total/NA	Solid	8015NM Prep	
890-948-31	MW03	Total/NA	Solid	8015NM Prep	
890-948-32	MW03	Total/NA	Solid	8015NM Prep	
890-948-33	MW03	Total/NA	Solid	8015NM Prep	
890-948-34	MW03	Total/NA	Solid	8015NM Prep	
890-948-35	MW03	Total/NA	Solid	8015NM Prep	
890-948-36	MW03	Total/NA	Solid	8015NM Prep	
890-948-37	MW03	Total/NA	Solid	8015NM Prep	
890-948-38	MW03	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

GC Semi VOA (Continued)

Prep Batch: 5360 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-39	MW03	Total/NA	Solid	8015NM Prep	
890-948-40	MW03	Total/NA	Solid	8015NM Prep	
MB 880-5360/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5360/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5360/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-948-21 MS	MW02	Total/NA	Solid	8015NM Prep	
890-948-21 MSD	MW02	Total/NA	Solid	8015NM Prep	

Prep Batch: 5397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-42	MW03	Total/NA	Solid	8015NM Prep	
MB 880-5397/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5397/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5397/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-21	MW02	Total/NA	Solid	8015B NM	5360
890-948-22	MW02	Total/NA	Solid	8015B NM	5360
890-948-23	MW02	Total/NA	Solid	8015B NM	5360
890-948-24	MW02	Total/NA	Solid	8015B NM	5360
890-948-25	MW02	Total/NA	Solid	8015B NM	5360
890-948-26	MW02	Total/NA	Solid	8015B NM	5360
890-948-27	MW02	Total/NA	Solid	8015B NM	5360
890-948-28	MW02	Total/NA	Solid	8015B NM	5360
890-948-29	MW02	Total/NA	Solid	8015B NM	5360
890-948-30	MW02	Total/NA	Solid	8015B NM	5360
890-948-31	MW03	Total/NA	Solid	8015B NM	5360
890-948-32	MW03	Total/NA	Solid	8015B NM	5360
890-948-33	MW03	Total/NA	Solid	8015B NM	5360
890-948-34	MW03	Total/NA	Solid	8015B NM	5360
890-948-35	MW03	Total/NA	Solid	8015B NM	5360
890-948-36	MW03	Total/NA	Solid	8015B NM	5360
890-948-37	MW03	Total/NA	Solid	8015B NM	5360
890-948-38	MW03	Total/NA	Solid	8015B NM	5360
890-948-39	MW03	Total/NA	Solid	8015B NM	5360
890-948-40	MW03	Total/NA	Solid	8015B NM	5360
MB 880-5360/1-A	Method Blank	Total/NA	Solid	8015B NM	5360
LCS 880-5360/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5360
LCSD 880-5360/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5360
890-948-21 MS	MW02	Total/NA	Solid	8015B NM	5360
890-948-21 MSD	MW02	Total/NA	Solid	8015B NM	5360

Prep Batch: 5409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-41	MW03	Total/NA	Solid	8015NM Prep	
MB 880-5409/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5409/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 5450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-43	MW03	Total/NA	Solid	8015B NM	5482
890-948-44	MW03	Total/NA	Solid	8015B NM	5482
MB 880-5482/1-A	Method Blank	Total/NA	Solid	8015B NM	5482
LCS 880-5482/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5482
LCSD 880-5482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5482

Prep Batch: 5482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-43	MW03	Total/NA	Solid	8015NM Prep	
890-948-44	MW03	Total/NA	Solid	8015NM Prep	
MB 880-5482/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5482/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-1	MW01	Total/NA	Solid	8015B NM	5349
890-948-2	MW01	Total/NA	Solid	8015B NM	5349
890-948-3	MW01	Total/NA	Solid	8015B NM	5349
890-948-4	MW01	Total/NA	Solid	8015B NM	5349
890-948-5	MW01	Total/NA	Solid	8015B NM	5349
890-948-6	MW01	Total/NA	Solid	8015B NM	5349
890-948-7	MW01	Total/NA	Solid	8015B NM	5349
890-948-8	MW01	Total/NA	Solid	8015B NM	5349
890-948-9	MW01	Total/NA	Solid	8015B NM	5349
890-948-10	MW01	Total/NA	Solid	8015B NM	5349
890-948-11	MW01	Total/NA	Solid	8015B NM	5349
890-948-12	MW01	Total/NA	Solid	8015B NM	5349
890-948-13	MW01	Total/NA	Solid	8015B NM	5349
890-948-14	MW01	Total/NA	Solid	8015B NM	5349
890-948-15	MW01	Total/NA	Solid	8015B NM	5349
890-948-16	MW01	Total/NA	Solid	8015B NM	5349
890-948-17	MW01	Total/NA	Solid	8015B NM	5349
890-948-18	MW01	Total/NA	Solid	8015B NM	5349
890-948-19	MW02	Total/NA	Solid	8015B NM	5349
890-948-20	MW02	Total/NA	Solid	8015B NM	5349
MB 880-5349/1-A	Method Blank	Total/NA	Solid	8015B NM	5349
LCS 880-5349/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5349
LCSD 880-5349/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5349
890-948-1 MS	MW01	Total/NA	Solid	8015B NM	5349
890-948-1 MSD	MW01	Total/NA	Solid	8015B NM	5349

Prep Batch: 5603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-45	MW03	Total/NA	Solid	8015NM Prep	
MB 880-5603/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5603/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 5611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-42	MW03	Total/NA	Solid	8015B NM	5397
890-948-45	MW03	Total/NA	Solid	8015B NM	5603
MB 880-5397/1-A	Method Blank	Total/NA	Solid	8015B NM	5397
MB 880-5603/1-A	Method Blank	Total/NA	Solid	8015B NM	5603
LCS 880-5397/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5397
LCS 880-5603/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5603
LCSD 880-5397/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5397
LCSD 880-5603/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5603

Analysis Batch: 5629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-41	MW03	Total/NA	Solid	8015B NM	5409
MB 880-5409/1-A	Method Blank	Total/NA	Solid	8015B NM	5409
LCS 880-5409/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5409
LCSD 880-5409/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5409

HPLC/IC

Leach Batch: 5297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-1	MW01	Soluble	Solid	DI Leach	
890-948-2	MW01	Soluble	Solid	DI Leach	
890-948-3	MW01	Soluble	Solid	DI Leach	
890-948-4	MW01	Soluble	Solid	DI Leach	
890-948-5	MW01	Soluble	Solid	DI Leach	
MB 880-5297/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5297/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5297/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 5305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-6	MW01	Soluble	Solid	DI Leach	
890-948-7	MW01	Soluble	Solid	DI Leach	
890-948-8	MW01	Soluble	Solid	DI Leach	
890-948-9	MW01	Soluble	Solid	DI Leach	
890-948-10	MW01	Soluble	Solid	DI Leach	
890-948-11	MW01	Soluble	Solid	DI Leach	
890-948-12	MW01	Soluble	Solid	DI Leach	
890-948-13	MW01	Soluble	Solid	DI Leach	
890-948-14	MW01	Soluble	Solid	DI Leach	
890-948-15	MW01	Soluble	Solid	DI Leach	
890-948-16	MW01	Soluble	Solid	DI Leach	
890-948-17	MW01	Soluble	Solid	DI Leach	
890-948-18	MW01	Soluble	Solid	DI Leach	
890-948-19	MW02	Soluble	Solid	DI Leach	
890-948-20	MW02	Soluble	Solid	DI Leach	
890-948-21	MW02	Soluble	Solid	DI Leach	
890-948-22	MW02	Soluble	Solid	DI Leach	
890-948-23	MW02	Soluble	Solid	DI Leach	
890-948-24	MW02	Soluble	Solid	DI Leach	
890-948-25	MW02	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 5305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5305/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5305/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5305/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-948-6 MS	MW01	Soluble	Solid	DI Leach	
890-948-6 MSD	MW01	Soluble	Solid	DI Leach	
890-948-16 MS	MW01	Soluble	Solid	DI Leach	
890-948-16 MSD	MW01	Soluble	Solid	DI Leach	

Leach Batch: 5306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-26	MW02	Soluble	Solid	DI Leach	
890-948-27	MW02	Soluble	Solid	DI Leach	
890-948-28	MW02	Soluble	Solid	DI Leach	
890-948-29	MW02	Soluble	Solid	DI Leach	
890-948-30	MW02	Soluble	Solid	DI Leach	
890-948-31	MW03	Soluble	Solid	DI Leach	
890-948-32	MW03	Soluble	Solid	DI Leach	
890-948-33	MW03	Soluble	Solid	DI Leach	
890-948-34	MW03	Soluble	Solid	DI Leach	
890-948-35	MW03	Soluble	Solid	DI Leach	
890-948-36	MW03	Soluble	Solid	DI Leach	
890-948-37	MW03	Soluble	Solid	DI Leach	
890-948-38	MW03	Soluble	Solid	DI Leach	
890-948-39	MW03	Soluble	Solid	DI Leach	
890-948-40	MW03	Soluble	Solid	DI Leach	
890-948-41	MW03	Soluble	Solid	DI Leach	
890-948-42	MW03	Soluble	Solid	DI Leach	
890-948-43	MW03	Soluble	Solid	DI Leach	
890-948-44	MW03	Soluble	Solid	DI Leach	
890-948-45	MW03	Soluble	Solid	DI Leach	
MB 880-5306/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5306/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5306/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-948-26 MS	MW02	Soluble	Solid	DI Leach	
890-948-26 MSD	MW02	Soluble	Solid	DI Leach	
890-948-36 MS	MW03	Soluble	Solid	DI Leach	
890-948-36 MSD	MW03	Soluble	Solid	DI Leach	

Leach Batch: 5308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-46	MW03	Soluble	Solid	DI Leach	
890-948-47	MW03	Soluble	Solid	DI Leach	
MB 880-5308/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5308/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5308/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-948-46 MS	MW03	Soluble	Solid	DI Leach	
890-948-46 MSD	MW03	Soluble	Solid	DI Leach	

Analysis Batch: 5344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-1	MW01	Soluble	Solid	300.0	5297

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 5344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-2	MW01	Soluble	Solid	300.0	5297
890-948-3	MW01	Soluble	Solid	300.0	5297
890-948-4	MW01	Soluble	Solid	300.0	5297
890-948-5	MW01	Soluble	Solid	300.0	5297
MB 880-5297/1-A	Method Blank	Soluble	Solid	300.0	5297
LCS 880-5297/2-A	Lab Control Sample	Soluble	Solid	300.0	5297
LCSD 880-5297/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5297

Analysis Batch: 5346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-6	MW01	Soluble	Solid	300.0	5305
890-948-7	MW01	Soluble	Solid	300.0	5305
890-948-8	MW01	Soluble	Solid	300.0	5305
890-948-9	MW01	Soluble	Solid	300.0	5305
890-948-10	MW01	Soluble	Solid	300.0	5305
890-948-11	MW01	Soluble	Solid	300.0	5305
890-948-12	MW01	Soluble	Solid	300.0	5305
890-948-13	MW01	Soluble	Solid	300.0	5305
890-948-14	MW01	Soluble	Solid	300.0	5305
890-948-15	MW01	Soluble	Solid	300.0	5305
890-948-16	MW01	Soluble	Solid	300.0	5305
890-948-17	MW01	Soluble	Solid	300.0	5305
890-948-18	MW01	Soluble	Solid	300.0	5305
890-948-19	MW02	Soluble	Solid	300.0	5305
890-948-20	MW02	Soluble	Solid	300.0	5305
890-948-21	MW02	Soluble	Solid	300.0	5305
890-948-22	MW02	Soluble	Solid	300.0	5305
890-948-23	MW02	Soluble	Solid	300.0	5305
890-948-24	MW02	Soluble	Solid	300.0	5305
890-948-25	MW02	Soluble	Solid	300.0	5305
MB 880-5305/1-A	Method Blank	Soluble	Solid	300.0	5305
LCS 880-5305/2-A	Lab Control Sample	Soluble	Solid	300.0	5305
LCSD 880-5305/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5305
890-948-6 MS	MW01	Soluble	Solid	300.0	5305
890-948-6 MSD	MW01	Soluble	Solid	300.0	5305
890-948-16 MS	MW01	Soluble	Solid	300.0	5305
890-948-16 MSD	MW01	Soluble	Solid	300.0	5305

Analysis Batch: 5398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-46	MW03	Soluble	Solid	300.0	5308
890-948-47	MW03	Soluble	Solid	300.0	5308
MB 880-5308/1-A	Method Blank	Soluble	Solid	300.0	5308
LCS 880-5308/2-A	Lab Control Sample	Soluble	Solid	300.0	5308
LCSD 880-5308/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5308
890-948-46 MS	MW03	Soluble	Solid	300.0	5308
890-948-46 MSD	MW03	Soluble	Solid	300.0	5308

Analysis Batch: 5430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-26	MW02	Soluble	Solid	300.0	5306

Eurofins Xenco, Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 5430 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-948-27	MW02	Soluble	Solid	300.0	5306
890-948-28	MW02	Soluble	Solid	300.0	5306
890-948-29	MW02	Soluble	Solid	300.0	5306
890-948-30	MW02	Soluble	Solid	300.0	5306
890-948-31	MW03	Soluble	Solid	300.0	5306
890-948-32	MW03	Soluble	Solid	300.0	5306
890-948-33	MW03	Soluble	Solid	300.0	5306
890-948-34	MW03	Soluble	Solid	300.0	5306
890-948-35	MW03	Soluble	Solid	300.0	5306
890-948-36	MW03	Soluble	Solid	300.0	5306
890-948-37	MW03	Soluble	Solid	300.0	5306
890-948-38	MW03	Soluble	Solid	300.0	5306
890-948-39	MW03	Soluble	Solid	300.0	5306
890-948-40	MW03	Soluble	Solid	300.0	5306
890-948-41	MW03	Soluble	Solid	300.0	5306
890-948-42	MW03	Soluble	Solid	300.0	5306
890-948-43	MW03	Soluble	Solid	300.0	5306
890-948-44	MW03	Soluble	Solid	300.0	5306
890-948-45	MW03	Soluble	Solid	300.0	5306
MB 880-5306/1-A	Method Blank	Soluble	Solid	300.0	5306
LCS 880-5306/2-A	Lab Control Sample	Soluble	Solid	300.0	5306
LCSD 880-5306/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5306
890-948-26 MS	MW02	Soluble	Solid	300.0	5306
890-948-26 MSD	MW02	Soluble	Solid	300.0	5306
890-948-36 MS	MW03	Soluble	Solid	300.0	5306
890-948-36 MSD	MW03	Soluble	Solid	300.0	5306

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-1

Date Collected: 07/13/21 14:37

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 05:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 13:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5297	07/16/21 15:24	SC	XEN MID
Soluble	Analysis	300.0		1			5344	07/18/21 18:23	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-2

Date Collected: 07/13/21 14:40

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 06:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5297	07/16/21 15:24	SC	XEN MID
Soluble	Analysis	300.0		1			5344	07/18/21 18:28	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-3

Date Collected: 07/13/21 14:45

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 06:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5297	07/16/21 15:24	SC	XEN MID
Soluble	Analysis	300.0		1			5344	07/18/21 18:33	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-4

Date Collected: 07/13/21 14:50

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 06:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 14:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5297	07/16/21 15:24	SC	XEN MID
Soluble	Analysis	300.0		1			5344	07/18/21 18:39	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-5

Date Collected: 07/13/21 15:00

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 07:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 15:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5297	07/16/21 15:24	SC	XEN MID
Soluble	Analysis	300.0		1			5344	07/18/21 18:44	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-6

Date Collected: 07/13/21 15:05

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 07:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 15:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 11:10	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-7

Date Collected: 07/13/21 15:15

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 09:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 15:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 11:26	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-8

Date Collected: 07/13/21 15:18

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 09:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 16:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 11:32	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-9

Date Collected: 07/13/21 15:22

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 10:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 11:37	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-10

Date Collected: 07/13/21 15:27

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 10:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 17:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 11:43	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-11

Date Collected: 07/13/21 15:35

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 10:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 11:59	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-12

Date Collected: 07/13/21 15:45

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 11:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 18:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 12:04	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-13

Date Collected: 07/13/21 15:50

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 11:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 18:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 12:10	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-14

Date Collected: 07/13/21 16:00

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 11:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 18:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 12:15	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-15

Date Collected: 07/13/21 16:05

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 12:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 19:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 12:20	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-16

Date Collected: 07/13/21 16:10

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5338	07/18/21 12:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5337	07/19/21 12:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 19:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 12:26	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-948-17

Date Collected: 07/13/21 16:20

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/18/21 17:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 19:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 12:42	CH	XEN MID

Client Sample ID: MW01

Lab Sample ID: 890-948-18

Date Collected: 07/13/21 16:30

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/18/21 17:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 20:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 12:47	CH	XEN MID

Client Sample ID: MW02

Lab Sample ID: 890-948-19

Date Collected: 07/13/21 11:50

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/18/21 18:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 20:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 13:03	CH	XEN MID

Client Sample ID: MW02

Lab Sample ID: 890-948-20

Date Collected: 07/13/21 11:54

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/18/21 18:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5349	07/19/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5508	07/22/21 20:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 13:09	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-21

Date Collected: 07/13/21 12:00

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/18/21 19:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/20/21 20:50	AM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 13:14	CH	XEN MID

Client Sample ID: MW02

Lab Sample ID: 890-948-22

Date Collected: 07/13/21 12:10

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/18/21 19:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/20/21 21:53	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 13:20	CH	XEN MID

Client Sample ID: MW02

Lab Sample ID: 890-948-23

Date Collected: 07/13/21 12:20

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/18/21 19:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/20/21 22:14	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		1			5346	07/19/21 13:25	CH	XEN MID

Client Sample ID: MW02

Lab Sample ID: 890-948-24

Date Collected: 07/13/21 12:25

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/18/21 20:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/20/21 22:34	AM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		5			5346	07/19/21 13:30	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-25

Date Collected: 07/13/21 12:35

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/18/21 20:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/20/21 22:55	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5305	07/16/21 15:51	SC	XEN MID
Soluble	Analysis	300.0		5			5346	07/19/21 13:36	CH	XEN MID

Client Sample ID: MW02

Lab Sample ID: 890-948-26

Date Collected: 07/13/21 12:40

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/18/21 21:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/20/21 23:16	AM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		5			5430	07/20/21 14:07	CH	XEN MID

Client Sample ID: MW02

Lab Sample ID: 890-948-27

Date Collected: 07/13/21 12:50

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 08:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/20/21 23:37	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		5			5430	07/20/21 14:23	CH	XEN MID

Client Sample ID: MW02

Lab Sample ID: 890-948-28

Date Collected: 07/13/21 12:55

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 09:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/20/21 17:00	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		5			5430	07/20/21 14:28	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-948-29

Date Collected: 07/13/21 13:00

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 09:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/20/21 23:58	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		5			5430	07/20/21 14:33	CH	XEN MID

Client Sample ID: MW02

Lab Sample ID: 890-948-30

Date Collected: 07/13/21 13:10

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 09:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 00:19	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 14:39	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-31

Date Collected: 07/13/21 08:05

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 10:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 01:00	AM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		5			5430	07/20/21 14:55	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-32

Date Collected: 07/13/21 08:10

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 10:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 01:21	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 15:00	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-33

Date Collected: 07/13/21 08:12

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 11:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 01:42	AM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 15:06	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-34

Date Collected: 07/13/21 08:15

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 11:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 02:03	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 15:11	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-35

Date Collected: 07/13/21 08:20

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 12:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 02:24	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 15:17	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-36

Date Collected: 07/13/21 08:40

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5335	07/18/21 11:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 12:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 02:44	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 15:22	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-37

Date Collected: 07/13/21 08:45

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 16:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 03:05	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 15:38	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-38

Date Collected: 07/13/21 08:50

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 17:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 03:26	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 15:44	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-39

Date Collected: 07/13/21 08:52

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 17:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 03:47	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 16:00	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-40

Date Collected: 07/13/21 09:00

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 17:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5360	07/19/21 10:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5403	07/21/21 04:08	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 16:05	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-41

Date Collected: 07/13/21 09:10

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 18:20	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5409	07/20/21 09:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5629	07/25/21 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		5			5430	07/20/21 17:10	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-42

Date Collected: 07/13/21 09:26

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 18:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5397	07/19/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5611	07/24/21 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 16:16	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-43

Date Collected: 07/13/21 09:32

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 19:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.0 g	10 mL	5482	07/21/21 14:32	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			5450	07/22/21 04:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 16:21	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-44

Date Collected: 07/13/21 09:42

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 19:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5482	07/21/21 14:32	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			5450	07/22/21 04:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 16:27	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-948-45

Date Collected: 07/13/21 09:50

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 20:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5603	07/23/21 14:29	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			5611	07/25/21 02:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5306	07/19/21 10:23	SC	XEN MID
Soluble	Analysis	300.0		1			5430	07/20/21 16:32	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-46

Date Collected: 07/13/21 10:00

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 20:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5277	07/16/21 11:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5356	07/19/21 20:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	5308	07/16/21 16:07	SC	XEN MID
Soluble	Analysis	300.0		1			5398	07/19/21 18:05	CH	XEN MID

Client Sample ID: MW03

Lab Sample ID: 890-948-47

Date Collected: 07/13/21 10:10

Matrix: Solid

Date Received: 07/15/21 09:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5336	07/18/21 12:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5232	07/19/21 22:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5277	07/16/21 11:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5356	07/19/21 21:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5308	07/16/21 16:07	SC	XEN MID
Soluble	Analysis	300.0		1			5398	07/19/21 18:22	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-948-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-948-1	MW01	Solid	07/13/21 14:37	07/15/21 09:06	1 - 3
890-948-2	MW01	Solid	07/13/21 14:40	07/15/21 09:06	4 - 6
890-948-3	MW01	Solid	07/13/21 14:45	07/15/21 09:06	7 - 9
890-948-4	MW01	Solid	07/13/21 14:50	07/15/21 09:06	10 - 12
890-948-5	MW01	Solid	07/13/21 15:00	07/15/21 09:06	12 - 14
890-948-6	MW01	Solid	07/13/21 15:05	07/15/21 09:06	14 - 16
890-948-7	MW01	Solid	07/13/21 15:15	07/15/21 09:06	16 - 18
890-948-8	MW01	Solid	07/13/21 15:18	07/15/21 09:06	18 - 20
890-948-9	MW01	Solid	07/13/21 15:22	07/15/21 09:06	20 - 22
890-948-10	MW01	Solid	07/13/21 15:27	07/15/21 09:06	22 - 24
890-948-11	MW01	Solid	07/13/21 15:35	07/15/21 09:06	24 - 26
890-948-12	MW01	Solid	07/13/21 15:45	07/15/21 09:06	26 - 28
890-948-13	MW01	Solid	07/13/21 15:50	07/15/21 09:06	28 - 30
890-948-14	MW01	Solid	07/13/21 16:00	07/15/21 09:06	30 - 32
890-948-15	MW01	Solid	07/13/21 16:05	07/15/21 09:06	32 - 34
890-948-16	MW01	Solid	07/13/21 16:10	07/15/21 09:06	34 - 36
890-948-17	MW01	Solid	07/13/21 16:20	07/15/21 09:06	36 - 38
890-948-18	MW01	Solid	07/13/21 16:30	07/15/21 09:06	38 - 40
890-948-19	MW02	Solid	07/13/21 11:50	07/15/21 09:06	1 - 3
890-948-20	MW02	Solid	07/13/21 11:54	07/15/21 09:06	3 - 5
890-948-21	MW02	Solid	07/13/21 12:00	07/15/21 09:06	5 - 7
890-948-22	MW02	Solid	07/13/21 12:10	07/15/21 09:06	7 - 9
890-948-23	MW02	Solid	07/13/21 12:20	07/15/21 09:06	9 - 11
890-948-24	MW02	Solid	07/13/21 12:25	07/15/21 09:06	11 - 12
890-948-25	MW02	Solid	07/13/21 12:35	07/15/21 09:06	13 - 14
890-948-26	MW02	Solid	07/13/21 12:40	07/15/21 09:06	14 - 16
890-948-27	MW02	Solid	07/13/21 12:50	07/15/21 09:06	16 - 18
890-948-28	MW02	Solid	07/13/21 12:55	07/15/21 09:06	20 - 22
890-948-29	MW02	Solid	07/13/21 13:00	07/15/21 09:06	22 - 24
890-948-30	MW02	Solid	07/13/21 13:10	07/15/21 09:06	24 - 26
890-948-31	MW03	Solid	07/13/21 08:05	07/15/21 09:06	1 - 3
890-948-32	MW03	Solid	07/13/21 08:10	07/15/21 09:06	4 - 6
890-948-33	MW03	Solid	07/13/21 08:12	07/15/21 09:06	7 - 9
890-948-34	MW03	Solid	07/13/21 08:15	07/15/21 09:06	10 - 12
890-948-35	MW03	Solid	07/13/21 08:20	07/15/21 09:06	12 - 14
890-948-36	MW03	Solid	07/13/21 08:40	07/15/21 09:06	14 - 16
890-948-37	MW03	Solid	07/13/21 08:45	07/15/21 09:06	16 - 18
890-948-38	MW03	Solid	07/13/21 08:50	07/15/21 09:06	18 - 20
890-948-39	MW03	Solid	07/13/21 08:52	07/15/21 09:06	20 - 22
890-948-40	MW03	Solid	07/13/21 09:00	07/15/21 09:06	22 - 24
890-948-41	MW03	Solid	07/13/21 09:10	07/15/21 09:06	24 - 26
890-948-42	MW03	Solid	07/13/21 09:26	07/15/21 09:06	26 - 28
890-948-43	MW03	Solid	07/13/21 09:32	07/15/21 09:06	28 - 30
890-948-44	MW03	Solid	07/13/21 09:42	07/15/21 09:06	30 - 32
890-948-45	MW03	Solid	07/13/21 09:50	07/15/21 09:06	34 - 36
890-948-46	MW03	Solid	07/13/21 10:00	07/15/21 09:06	36 - 38
890-948-47	MW03	Solid	07/13/21 10:10	07/15/21 09:06	38 - 40



Environment Testing
Xenco

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El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 5

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	JIM RALEY
Company Name:	WSP USA	Company Name:	WSP
Address:	3388 NORTH A STREET	Address:	5315 AVENUE VISTA DE
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	(281) 702-2329	Email:	anna.bye@wsp.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name:	Swearingen SWD #1001	Turn Around	Pres. Code
Project Number:	TE834819038	☒ Routine ☐ Rush	
Project Location:	EDDY COUNTY	Due Date:	SPRINT
Sample's Name:	ANNA BYES	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	28R-5628	Temp Blank:	Yes ☒ No ☐
SAMPLE RECEIPT	Temp Blank:	Thermometer ID:	71111-001
Samples Received Intact:	Yes ☒ No ☐	Correction Factor:	-0.2
Cooler Custody Seals:	Yes ☒ No ☐	Temperature Reading:	2.0
Sample Custody Seals:	Yes ☒ No ☐	Corrected Temperature:	1.8
Total Containers:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
MWB1	S	7/13/21	1434	1-3'	Grab	1	BTEX (EPA 8021B)		None: NO
MWB1	S		1440	4-6'		1	TPH (EPA 8015 Mnd)		DI Water: H ₂ O
MWB1	S		1445	7-9'		1	Chloride (EPA 800.0)		MeOH: Me
MWB1	S		1450	10-12'		1			HCL: HC
MWB1	S		1500	12-14'		1			H ₂ SO ₄ : H ₂
MWB1	S		1505	14-16'		1			H ₃ PO ₄ : HP
MWB1	S		1515	16-18'		1			NaHSO ₄ : NABIS
MWB1	S		1518	18-20'		1			Na ₂ S ₂ O ₃ : NaSO ₃
MWB1	S		1522	20-22'		1			Zn Acetate+NaOH: Zn
MWB1	S		1524	22-24'		1			NaOH+Ascorbic Acid: SARC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Matrix to be analyzed: TCEP 7 SPLEP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byes	Anna Byes	7-15-21 0910			



Environment Testing
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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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Page 2 of 5

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	JIM RILEY
Company Name:	WSP USA	Company Name:	WSP
Address:	3300 NORTH A STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	(281) 702-2329	Email:	anna.bryers@wsp.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	SWEARINVEN SWD	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	TE834819082	☒ Routine ☐ Rush														None: NO	DI Water: H ₂ O		
Project Location:	EDD COUNTY	Due Date:	SDAN TAT													Cool: Cool	MeOH: Me		
Sampler's Name:	ANNA BRYERS	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN		
PO #:	2RP-5029	Temp Blank:	Yes No	Wet Ice:	Yes No													H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No													H ₃ PO ₄ : HP	
Samples Received Inact:	Yes No	Thermometer ID:														NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes No	Correction Factor:														Na ₂ S ₂ O ₃ : NASO ₃			
Sample Custody Seals:	Yes No	Temperature Reading:														Zn Acetate+NaOH: Zn			
Total Containers:	Yes No	Temperature Reading:														NaOH+Ascorbic Acid: SAPC			
		Corrected Temperature:																	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments	
MWB1	S	7/13/21	1535	24-26'	Grab	1	X	X	X	X										0AB192154850
MWB1	S		1545	24-26'		1	X	X	X	X										
MWB1	S		1550	26-30'		1	X	X	X	X										
MWB1	S		1600	30-32'		1	X	X	X	X										
MWB1	S		1605	32-34'		1	X	X	X	X										
MWB1	S		1610	34-36'		1	X	X	X	X										
MWB1	S		1620	36-38'		1	X	X	X	X										
MWB1	S		1630	38-40'		1	X	X	X	X										
MWB2	S		1150	1-3'		1	X	X	X	X										
MWB2	S		1154	3-5'		1	X	X	X	X										

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Met(s) to be analyzed: TCLEP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>Ann B</i>	<i>Cue Cost</i>	7-15-21 0901			
3.					
5.					



Environment Testing
Xenco

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 5

Chain of Custody

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	JIM RALEN
Company Name:	WSP V&A	Company Name:	WPA
Address:	3300 NORTH A STREET	Address:	5315 BUENA VISTA DR.
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	(281) 702-2329	Email:	anna.byers@wsp.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name:	WEARING IN SWD	Turn Around	Parameters
Project Number:	TE34819038	☒ Routine ☐ Rush	BTEX (EPA 202B)
Project Location:	EDDY COUNTY	Due Date:	TPH (EPA 3015 MOD)
Sampler's Name:	ANNA BYERS	TAT starts the day received by the lab, if received by 4:30pm	Chloride (EPA 300.4)
PO #:	281-5029		
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No	Correction Factor:	
Sample Custody Seals:	Yes No	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
MW02	S	7/13/21	12:00	5-7' (wab)		1		None: NO DI Water: H ₂ O	nAB1927154850
MW02	S		12:10	7-9'		1		Cool: Cool MeOH: Me	
MW02	S		12:20	9-11'		1		HCL: HC HNO ₃ : HN	
MW02	S		12:25	11-12'		1		H ₂ SO ₄ : H ₂	
MW02	S		12:35	13-14'		1		H ₃ PO ₄ : HP	
MW02	S		12:40	14-16'		1		NaHSO ₄ : NABIS	
MW02	S		12:50	16-18'		1		Na ₂ S ₂ O ₃ : NaSO ₃	
MW02	S		12:55	18-22'		1		Zn Acetate+NaOH: Zn	
MW02	S		13:00	22-24'		1		NaOH+Ascorbic Acid: SAPC	
MW02	S		13:10	24-26'		1			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>Anna</i>	2. <i>Jim Ralen</i>	7-15-21 09:00	3. <i>Anna</i>	4. <i>Jim Ralen</i>	
5. <i>Anna</i>			6. <i>Jim Ralen</i>		



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

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Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	JIM RALEY
Company Name:	WSP USA	Company Name:	WPC
Address:	3300 NORTH A STREET	Address:	5215 EVENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	(214) 742-2329	Email:	anna.bryant@wsp.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	SNEARIN BEN SWD	Turn Around	Pres. Code	ANALYSIS REQUEST										Preservative Codes				
Project Number:	TE834819038	☒ Routine ☐ Rush													None: NO	DI Water: H ₂ O		
Project Location:	EDD COUNTY	Due Date:	5/04/2017											Cool: Cool	MeOH: Me			
Sampler's Name:	ANNA BYERS	TAT starts the day received by the lab. If received by 4:30pm												HCL: HC	HNO ₃ : HN			
PO #:	2RR 5028	Temp Blank:	Yes No	Wet Ice:	Yes No											H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Samples Received Intact:	Yes No	Thermometer ID:												H ₃ PO ₄ : HP		
Cooler Custody Seals:	Yes No	Correction Factor:		Temperature Reading:												NaHSO ₄ : NABIS		
Sample Custody Seals:	Yes No	Corrected Temperature:												Na ₂ S ₂ O ₃ : NaSO ₃				
Total Containers:												Parameters					Zn Acetate+NaOH: Zn	
																	NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time	Depth	Grab/Comp	# of Cont											Sample Comments
MW03	S	7/13/11	0805	1-3'	Grab	1											nABR24154850
MW03	S		0810	4-6'		1											
MW03	S		0812	7-9'		1											
MW03	S		0815	10-12'		1											
MW03	S		0820	12-14'		1											
MW03	S		0840	14-16'		1											
MW03	S		0845	16-18'		1											
MW03	S		0850	18-20'		1											
MW03	S		0852	24-22'		1											
MW03	S		0900	22-24'		1											rocky

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Chloride Method(s) and Metals to be analyzed: TCLEP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Anna Byers	Cherise	7-15-210902			
3					
5					

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-948-1

SDG Number: Eddy County

Login Number: 948

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-948-1

SDG Number: Eddy County

Login Number: 948

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 07/16/21 11:39 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-957-1

Laboratory Sample Delivery Group: Eddy County
Client Project/Site: Swearingen SWD #001

For:

WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Joseph Hernandez



Authorized for release by:
7/23/2021 11:49:48 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Job ID: 890-957-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-957-1

Receipt

The samples were received on 7/16/2021 1:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

HPLC/IC

Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time : MW03 (890-957-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 6010C: The following sample was diluted due to the nature of the sample matrix: MW02 (890-957-2). Elevated reporting limits (RLs) are provided.

Method 6010C: The following sample was diluted due to the nature of the sample matrix: MW02 (890-957-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Client Sample ID: MW01

Lab Sample ID: 890-957-1

Date Collected: 07/15/21 16:24

Matrix: Water

Date Received: 07/16/21 13:09

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	864		5.00		mg/L			07/17/21 13:18	10
Nitrate as N	8.77		0.100		mg/L			07/17/21 13:07	1
Nitrite as N	<0.100	U	0.100		mg/L			07/17/21 13:07	1
Sulfate	638		5.00		mg/L			07/17/21 13:18	10
Nitrate Nitrite as N	8.77		0.100		mg/L			07/17/21 13:07	1
Fluoride	0.664		0.500		mg/L			07/17/21 13:07	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	455		10.0		mg/L		07/19/21 09:30	07/19/21 17:59	50
Magnesium	132		10.0		mg/L		07/19/21 09:30	07/19/21 17:59	50
Potassium	8.46		0.500		mg/L		07/19/21 09:30	07/19/21 17:48	1
Sodium	200		0.500		mg/L		07/19/21 09:30	07/19/21 17:48	1
SiO2	83.8		1.07		mg/L		07/19/21 09:30	07/19/21 17:48	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.200	U	0.200		mg/L		07/20/21 09:42	07/20/21 22:00	1
Manganese	0.0269		0.0200		mg/L		07/20/21 09:42	07/20/21 22:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-1.39				%			07/22/21 10:01	1
Alkalinity	129		4.00		mg/L			07/19/21 12:03	1
Bicarbonate Alkalinity as CaCO3	129		4.00		mg/L			07/19/21 12:03	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00		mg/L			07/19/21 12:03	1
Hydroxide Alkalinity	<4.00	U	4.00		mg/L			07/19/21 12:03	1
Phenolphthalein Alkalinity	<4.00	U	4.00		mg/L			07/19/21 12:03	1
Total Dissolved Solids	2960		40.0		mg/L			07/19/21 10:50	1
Carbon dioxide	122				mg/L			07/19/21 17:01	1
Carbon Dioxide, Free	9.10				mg/L			07/19/21 17:01	1

Client Sample ID: MW02

Lab Sample ID: 890-957-2

Date Collected: 07/15/21 15:20

Matrix: Water

Date Received: 07/16/21 13:09

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36000		100		mg/L			07/17/21 13:37	200
Nitrate as N	116		2.00		mg/L			07/17/21 13:27	20
Nitrite as N	<2.00	U	2.00		mg/L			07/17/21 13:27	20
Sulfate	398		10.0		mg/L			07/17/21 13:27	20
Nitrate Nitrite as N	116		2.00		mg/L			07/17/21 13:27	20
Fluoride	<10.0	U	10.0		mg/L			07/17/21 13:27	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	5200		100		mg/L		07/19/21 09:30	07/20/21 13:20	500
Magnesium	875		10.0		mg/L		07/19/21 09:30	07/19/21 18:02	50
Potassium	441		25.0		mg/L		07/19/21 09:30	07/19/21 18:02	50
Sodium	13300		250		mg/L		07/19/21 09:30	07/20/21 13:20	500

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Client Sample ID: MW02

Lab Sample ID: 890-957-2

Date Collected: 07/15/21 15:20

Matrix: Water

Date Received: 07/16/21 13:09

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2	165		1.07		mg/L		07/19/21 09:30	07/19/21 17:51	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<2.00	U	2.00		mg/L		07/20/21 09:42	07/20/21 22:04	10
Manganese	0.358		0.200		mg/L		07/20/21 09:42	07/20/21 22:04	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	-6.11				%			07/22/21 10:01	1
Alkalinity	190		4.00		mg/L			07/19/21 12:08	1
Bicarbonate Alkalinity as CaCO3	190		4.00		mg/L			07/19/21 12:08	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00		mg/L			07/19/21 12:08	1
Hydroxide Alkalinity	<4.00	U	4.00		mg/L			07/19/21 12:08	1
Phenolphthalein Alkalinity	<4.00	U	4.00		mg/L			07/19/21 12:08	1
Total Dissolved Solids	52900		1000		mg/L			07/19/21 10:50	1
Carbon dioxide	271				mg/L			07/19/21 17:01	1
Carbon Dioxide, Free	105				mg/L			07/19/21 17:01	1

Client Sample ID: MW03

Lab Sample ID: 890-957-3

Date Collected: 07/15/21 14:25

Matrix: Water

Date Received: 07/16/21 13:09

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		5.00		mg/L			07/17/21 13:57	10
Nitrate as N	7.75		0.100		mg/L			07/17/21 13:47	1
Nitrite as N	<0.100	U	0.100		mg/L			07/17/21 13:47	1
Sulfate	221		0.500		mg/L			07/17/21 13:47	1
Nitrate Nitrite as N	7.75		0.100		mg/L			07/17/21 13:47	1
Fluoride	0.544		0.500		mg/L			07/17/21 13:47	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	577		10.0		mg/L		07/19/21 09:30	07/19/21 18:06	50
Magnesium	119		10.0		mg/L		07/19/21 09:30	07/19/21 18:06	50
Potassium	12.8		0.500		mg/L		07/19/21 09:30	07/19/21 17:55	1
Sodium	327		5.00		mg/L		07/19/21 09:30	07/22/21 16:24	10
SiO2	90.9		1.07		mg/L		07/19/21 09:30	07/19/21 17:55	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.200	U	0.200		mg/L		07/20/21 09:42	07/20/21 22:07	1
Manganese	<0.0200	U	0.0200		mg/L		07/20/21 09:42	07/20/21 22:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anion/Cation Balance	11.7				%			07/22/21 10:01	1
Alkalinity	123		4.00		mg/L			07/19/21 12:14	1
Bicarbonate Alkalinity as CaCO3	123		4.00		mg/L			07/19/21 12:14	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00		mg/L			07/19/21 12:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-957-3

Date Collected: 07/15/21 14:25

Matrix: Water

Date Received: 07/16/21 13:09

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity	<4.00	U	4.00		mg/L			07/19/21 12:14	1
Phenolphthalein Alkalinity	<4.00	U	4.00		mg/L			07/19/21 12:14	1
Total Dissolved Solids	2740		40.0		mg/L			07/19/21 10:50	1
Carbon dioxide	115				mg/L			07/19/21 17:01	1
Carbon Dioxide, Free	6.92				mg/L			07/19/21 17:01	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-15482/3

Matrix: Water

Analysis Batch: 15482

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500		mg/L			07/17/21 09:42	1
Sulfate	<0.500	U	0.500		mg/L			07/17/21 09:42	1
Fluoride	<0.500	U	0.500		mg/L			07/17/21 09:42	1

Lab Sample ID: LCS 860-15482/4

Matrix: Water

Analysis Batch: 15482

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.06		mg/L		101	90 - 110
Sulfate	10.0	9.829		mg/L		98	90 - 110
Fluoride	10.0	10.27		mg/L		103	90 - 110

Lab Sample ID: LCSD 860-15482/5

Matrix: Water

Analysis Batch: 15482

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.09		mg/L		101	90 - 110	0	20
Sulfate	10.0	9.881		mg/L		99	90 - 110	1	20
Fluoride	10.0	10.33		mg/L		103	90 - 110	1	20

Lab Sample ID: MB 860-15483/3

Matrix: Water

Analysis Batch: 15483

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.100	U	0.100		mg/L			07/17/21 09:42	1
Nitrite as N	<0.100	U	0.100		mg/L			07/17/21 09:42	1
Nitrate Nitrite as N	<0.100	U	0.100		mg/L			07/17/21 09:42	1

Lab Sample ID: LCS 860-15483/4

Matrix: Water

Analysis Batch: 15483

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.932		mg/L		99	80 - 120
Nitrite as N	5.00	5.304		mg/L		106	80 - 120

Lab Sample ID: LCSD 860-15483/5

Matrix: Water

Analysis Batch: 15483

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	10.0	9.982		mg/L		100	80 - 120	0	20
Nitrite as N	5.00	5.291		mg/L		106	80 - 120	0	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 860-15549/1-A
Matrix: Water
Analysis Batch: 15781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.200	U	0.200		mg/L		07/19/21 09:30	07/19/21 17:08	1
Magnesium	<0.200	U	0.200		mg/L		07/19/21 09:30	07/19/21 17:08	1
Potassium	<0.500	U	0.500		mg/L		07/19/21 09:30	07/19/21 17:08	1
Sodium	<0.500	U	0.500		mg/L		07/19/21 09:30	07/19/21 17:08	1
SiO2	<1.07	U	1.07		mg/L		07/19/21 09:30	07/19/21 17:08	1

Lab Sample ID: LCS 860-15549/2-A
Matrix: Water
Analysis Batch: 15781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	25.0	25.11		mg/L		100	80 - 120
Magnesium	25.0	24.67		mg/L		99	80 - 120
Potassium	10.0	10.06		mg/L		101	80 - 120
Sodium	25.0	25.13		mg/L		101	80 - 120
SiO2	21.4	21.39		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-15549/3-A
Matrix: Water
Analysis Batch: 15781

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15549

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	25.0	25.10		mg/L		100	80 - 120	0	20
Magnesium	25.0	24.72		mg/L		99	80 - 120	0	20
Potassium	10.0	10.04		mg/L		100	80 - 120	0	20
Sodium	25.0	25.09		mg/L		100	80 - 120	0	20
SiO2	21.4	21.39		mg/L		100	80 - 120	0	20

Lab Sample ID: MB 860-15711/1-A
Matrix: Water
Analysis Batch: 15956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.200	U	0.200		mg/L		07/20/21 09:20	07/20/21 20:15	1
Manganese	<0.0200	U	0.0200		mg/L		07/20/21 09:20	07/20/21 20:15	1

Lab Sample ID: LCS 860-15711/2-A
Matrix: Water
Analysis Batch: 15956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5.00	4.985		mg/L		100	80 - 120
Manganese	1.00	0.9734		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-15711/3-A
Matrix: Water
Analysis Batch: 15956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15711

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	5.00	4.975		mg/L		100	80 - 120	0	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-15711/3-A

Matrix: Water

Analysis Batch: 15956

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15711

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	1.00	0.9747		mg/L		97	80 - 120	0	20

Lab Sample ID: MB 860-15514/1-B

Matrix: Water

Analysis Batch: 15956

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 15711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.200	U	0.200		mg/L		07/20/21 09:20	07/20/21 21:49	1
Manganese	<0.0200	U	0.0200		mg/L		07/20/21 09:20	07/20/21 21:49	1

Lab Sample ID: LCS 860-15514/2-B

Matrix: Water

Analysis Batch: 15956

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 15711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5.00	5.083		mg/L		102	80 - 120
Manganese	1.00	1.003		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-15514/3-B

Matrix: Water

Analysis Batch: 15956

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Prep Batch: 15711

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	5.00	5.085		mg/L		102	80 - 120	0	20
Manganese	1.00	1.003		mg/L		100	80 - 120	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-15611/3

Matrix: Water

Analysis Batch: 15611

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00		mg/L			07/19/21 11:25	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00		mg/L			07/19/21 11:25	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00		mg/L			07/19/21 11:25	1
Hydroxide Alkalinity	<4.00	U	4.00		mg/L			07/19/21 11:25	1
Phenolphthalein Alkalinity	<4.00	U	4.00		mg/L			07/19/21 11:25	1

Lab Sample ID: LCS 860-15611/4

Matrix: Water

Analysis Batch: 15611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	253.0		mg/L		101	85 - 115

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-15611/5
Matrix: Water
Analysis Batch: 15611

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity	250	252.9		mg/L		101	85 - 115	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-15587/1
Matrix: Water
Analysis Batch: 15587

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00		mg/L			07/19/21 10:50	1

Lab Sample ID: LCS 860-15587/2
Matrix: Water
Analysis Batch: 15587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids	1000	981.0		mg/L		98	80 - 120		

Lab Sample ID: LCSD 860-15587/3
Matrix: Water
Analysis Batch: 15587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1005		mg/L		101	80 - 120	2	10

QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

HPLC/IC

Analysis Batch: 15482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Total/NA	Water	300.0	
890-957-1	MW01	Total/NA	Water	300.0	
890-957-2	MW02	Total/NA	Water	300.0	
890-957-2	MW02	Total/NA	Water	300.0	
890-957-3	MW03	Total/NA	Water	300.0	
890-957-3	MW03	Total/NA	Water	300.0	
MB 860-15482/3	Method Blank	Total/NA	Water	300.0	
LCS 860-15482/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-15482/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 15483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Total/NA	Water	300.0	
890-957-2	MW02	Total/NA	Water	300.0	
890-957-3	MW03	Total/NA	Water	300.0	
MB 860-15483/3	Method Blank	Total/NA	Water	300.0	
LCS 860-15483/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-15483/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Filtration Batch: 15514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Dissolved	Water	Filtration	
890-957-2	MW02	Dissolved	Water	Filtration	
890-957-3	MW03	Dissolved	Water	Filtration	
MB 860-15514/1-B	Method Blank	Dissolved	Water	Filtration	
LCS 860-15514/2-B	Lab Control Sample	Dissolved	Water	Filtration	
LCSD 860-15514/3-B	Lab Control Sample Dup	Dissolved	Water	Filtration	

Prep Batch: 15549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Total/NA	Water	3010A	
890-957-2	MW02	Total/NA	Water	3010A	
890-957-3	MW03	Total/NA	Water	3010A	
MB 860-15549/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-15549/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-15549/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Prep Batch: 15711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Dissolved	Water	3010A	15514
890-957-2	MW02	Dissolved	Water	3010A	15514
890-957-3	MW03	Dissolved	Water	3010A	15514
MB 860-15514/1-B	Method Blank	Dissolved	Water	3010A	15514
MB 860-15711/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-15514/2-B	Lab Control Sample	Dissolved	Water	3010A	15514
LCS 860-15711/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-15514/3-B	Lab Control Sample Dup	Dissolved	Water	3010A	15514
LCSD 860-15711/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Metals

Analysis Batch: 15781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Total/NA	Water	6010C	15549
890-957-1	MW01	Total/NA	Water	6010C	15549
890-957-2	MW02	Total/NA	Water	6010C	15549
890-957-2	MW02	Total/NA	Water	6010C	15549
890-957-3	MW03	Total/NA	Water	6010C	15549
890-957-3	MW03	Total/NA	Water	6010C	15549
MB 860-15549/1-A	Method Blank	Total/NA	Water	6010C	15549
LCS 860-15549/2-A	Lab Control Sample	Total/NA	Water	6010C	15549
LCSD 860-15549/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	15549

Analysis Batch: 15815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-2	MW02	Total/NA	Water	6010C	15549

Analysis Batch: 15956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Dissolved	Water	6010C	15711
890-957-2	MW02	Dissolved	Water	6010C	15711
890-957-3	MW03	Dissolved	Water	6010C	15711
MB 860-15514/1-B	Method Blank	Dissolved	Water	6010C	15711
MB 860-15711/1-A	Method Blank	Total/NA	Water	6010C	15711
LCS 860-15514/2-B	Lab Control Sample	Dissolved	Water	6010C	15711
LCS 860-15711/2-A	Lab Control Sample	Total/NA	Water	6010C	15711
LCSD 860-15514/3-B	Lab Control Sample Dup	Dissolved	Water	6010C	15711
LCSD 860-15711/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	15711

Analysis Batch: 16199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-3	MW03	Total/NA	Water	6010C	15549

General Chemistry

Analysis Batch: 15587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Total/NA	Water	SM 2540C	
890-957-2	MW02	Total/NA	Water	SM 2540C	
890-957-3	MW03	Total/NA	Water	SM 2540C	
MB 860-15587/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-15587/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-15587/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 15611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Total/NA	Water	SM 2320B	
890-957-2	MW02	Total/NA	Water	SM 2320B	
890-957-3	MW03	Total/NA	Water	SM 2320B	
MB 860-15611/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-15611/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-15611/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

General Chemistry

Analysis Batch: 15642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Total/NA	Water	SM 4500 CO2 D	
890-957-2	MW02	Total/NA	Water	SM 4500 CO2 D	
890-957-3	MW03	Total/NA	Water	SM 4500 CO2 D	

Analysis Batch: 16093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-957-1	MW01	Total/NA	Water	SM 1030E	
890-957-2	MW02	Total/NA	Water	SM 1030E	
890-957-3	MW03	Total/NA	Water	SM 1030E	

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Client Sample ID: MW01

Date Collected: 07/15/21 16:24

Date Received: 07/16/21 13:09

Lab Sample ID: 890-957-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	0 mL	1.0 mL	15482	07/17/21 13:07	WP	XEN STF
Total/NA	Analysis	300.0		1	0 mL	1.0 mL	15483	07/17/21 13:07	WP	XEN STF
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	15482	07/17/21 13:18	WP	XEN STF
Dissolved	Filtration	Filtration			250 mL	250 mL	15514	07/18/21 23:10	PB	XEN STF
Dissolved	Prep	3010A			50 mL	50 mL	15711	07/20/21 09:42	MD	XEN STF
Dissolved	Analysis	6010C		1			15956	07/20/21 22:00	DP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	15549	07/19/21 09:30	MD	XEN STF
Total/NA	Analysis	6010C		1			15781	07/19/21 17:48	DP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	15549	07/19/21 09:30	MD	XEN STF
Total/NA	Analysis	6010C		50			15781	07/19/21 17:59	DP	XEN STF
Total/NA	Analysis	SM 1030E		1			16093	07/22/21 10:01	AA	XEN STF
Total/NA	Analysis	SM 2320B		1			15611	07/19/21 12:03	ANP	XEN STF
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	15587	07/19/21 10:50	YGG	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1			15642	07/19/21 17:01	ANP	XEN STF

Client Sample ID: MW02

Date Collected: 07/15/21 15:20

Date Received: 07/16/21 13:09

Lab Sample ID: 890-957-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20	0 mL	1.0 mL	15482	07/17/21 13:27	WP	XEN STF
Total/NA	Analysis	300.0		20	0 mL	1.0 mL	15483	07/17/21 13:27	WP	XEN STF
Total/NA	Analysis	300.0		200	0 mL	1.0 mL	15482	07/17/21 13:37	WP	XEN STF
Dissolved	Filtration	Filtration			250 mL	250 mL	15514	07/18/21 23:10	PB	XEN STF
Dissolved	Prep	3010A			50 mL	50 mL	15711	07/20/21 09:42	MD	XEN STF
Dissolved	Analysis	6010C		10			15956	07/20/21 22:04	DP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	15549	07/19/21 09:30	MD	XEN STF
Total/NA	Analysis	6010C		1			15781	07/19/21 17:51	DP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	15549	07/19/21 09:30	MD	XEN STF
Total/NA	Analysis	6010C		50			15781	07/19/21 18:02	DP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	15549	07/19/21 09:30	MD	XEN STF
Total/NA	Analysis	6010C		500			15815	07/20/21 13:20	DP	XEN STF
Total/NA	Analysis	SM 1030E		1			16093	07/22/21 10:01	AA	XEN STF
Total/NA	Analysis	SM 2320B		1			15611	07/19/21 12:08	ANP	XEN STF
Total/NA	Analysis	SM 2540C		1	1 mL	200 mL	15587	07/19/21 10:50	YGG	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1			15642	07/19/21 17:01	ANP	XEN STF

Client Sample ID: MW03

Date Collected: 07/15/21 14:25

Date Received: 07/16/21 13:09

Lab Sample ID: 890-957-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	0 mL	1.0 mL	15482	07/17/21 13:47	WP	XEN STF

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Client Sample ID: MW03

Lab Sample ID: 890-957-3

Date Collected: 07/15/21 14:25

Matrix: Water

Date Received: 07/16/21 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	0 mL	1.0 mL	15483	07/17/21 13:47	WP	XEN STF
Total/NA	Analysis	300.0		10	0 mL	1.0 mL	15482	07/17/21 13:57	WP	XEN STF
Dissolved	Filtration	Filtration			250 mL	250 mL	15514	07/18/21 23:10	PB	XEN STF
Dissolved	Prep	3010A			50 mL	50 mL	15711	07/20/21 09:42	MD	XEN STF
Dissolved	Analysis	6010C		1			15956	07/20/21 22:07	DP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	15549	07/19/21 09:30	MD	XEN STF
Total/NA	Analysis	6010C		1			15781	07/19/21 17:55	DP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	15549	07/19/21 09:30	MD	XEN STF
Total/NA	Analysis	6010C		50			15781	07/19/21 18:06	DP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	15549	07/19/21 09:30	MD	XEN STF
Total/NA	Analysis	6010C		10			16199	07/22/21 16:24	DP	XEN STF
Total/NA	Analysis	SM 1030E		1			16093	07/22/21 10:01	AA	XEN STF
Total/NA	Analysis	SM 2320B		1			15611	07/19/21 12:14	ANP	XEN STF
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	15587	07/19/21 10:50	YGG	XEN STF
Total/NA	Analysis	SM 4500 CO2 D		1			15642	07/19/21 17:01	ANP	XEN STF

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Laboratory: Eurofins Xenco, Stafford

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6010C	3010A	Water	SiO ₂
SM 1030E		Water	Anion/Cation Balance
SM 2320B		Water	Bicarbonate Alkalinity as CaCO ₃
SM 2320B		Water	Carbonate Alkalinity as CaCO ₃
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 4500 CO ₂ D		Water	Carbon dioxide
SM 4500 CO ₂ D		Water	Carbon Dioxide, Free

Method Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
6010C	Metals (ICP)	SW846	XEN STF
SM 1030E	Cation Anion Balance	SM	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF
SM 4500 CO2 D	Carbon Dioxide and Forms of Alkalinity by Calculation	SM	XEN STF
3010A	Preparation, Total Metals	SW846	XEN STF
Filtration	Sample Filtration	None	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: WSP USA Inc.
Project/Site: Swearingen SWD #001

Job ID: 890-957-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-957-1	MW01	Water	07/15/21 16:24	07/16/21 13:09
890-957-2	MW02	Water	07/15/21 15:20	07/16/21 13:09
890-957-3	MW03	Water	07/15/21 14:25	07/16/21 13:09

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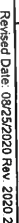
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-957-1

SDG Number: Eddy County

Login Number: 957

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-957-1

SDG Number: Eddy County

Login Number: 957

List Number: 2

Creator: Palmar, Pedro

List Source: Eurofins Xenco, Stafford

List Creation: 07/17/21 10:55 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	