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Remediation and Closure Report

Wersell Federal #001
Incident# nAB1507730700
Eddy County, New Mexico

Prepared For:

Cimarex Energy Co. of Colorado
600 Marienfeld St.
Midland, TX 79701

Prepared By:

H&R Enterprises, LLC
5120 W. Kansas St.
Hobbs, New Mexico 88242

May 19, 2023

Mrs. Jennifer Nobui
NMOCD
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Subject: **Remediation and Closure Report**
Wersell Federal #001
Eddy County, NM

Dear Mrs. Nobui,

Cimarex Energy Co. of Colorado has contracted H&R Enterprises (H&R) to perform site assessment and remediation services at the above-referenced location. The results of our site assessment and remediation activities are contained herein.

Site Information

The Wersell Federal #001 is located approximately 2.4 miles East of Carlsbad, New Mexico. The legal location for this release is Unit Letter C, Section 04, Township 22 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.42693 North and -104.19662 West. Site plans are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Upton gravelly loam, 0 to 9 percent slopes. The referenced soil data is attached in [Appendix II](#). Drainage courses in this area are typically dry. The project site is not located in a high Karst potential area (Karst Map, [Appendix I](#)).

Groundwater and Site Characterization

The New Mexico Office of the State Engineer web site indicates that the nearest reported depth to groundwater is 55-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29, NMAC.

Approximate Depth to Groundwater	55 Feet/BGS
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☐ Yes ☒ No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
☐ Yes ☒ No	Within 200 feet of any lakebed, sinkhole, or a playa lake
☐ Yes ☒ No	Within 300 feet from an occupied permanent residence, school, hospital, institution, or church
☐ Yes ☒ No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
☐ Yes ☒ No	Within 1000 feet of any freshwater well or spring
☐ Yes ☒ No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
☐ Yes ☒ No	Within 300 feet of a wetland
☐ Yes ☒ No	Within the area overlying a subsurface mine
☐ Yes ☒ No	Within an unstable area
☐ Yes ☒ No	Within a 100-year floodplain

As this is a remediation in an area with no current groundwater data, the closure criteria for this site are as follows:

Table I			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride **	EPA 300.0 or SM4500 CIB	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

On March 09, 2015, it was discovered the turbine meter on the water dump valve on the heater treater became plugged with solids which sent fluids over to the tanks. As a result, the tanks ran over into the unlined containment. A total of 40 barrels (bbls) of crude oil was released with 30 bbls of which were recovered.

Site Assessment and Remediation Activities

H&R mobilized personnel to begin site assessment, sampling, and remediation activities of the area where the old containment was. Grab samples were obtained by way of test trenching the area of the old containment. Samples collected were then transported to Eurofins Laboratory for analysis, and the results of that analysis are presented in the following data table. Initial site assessment sampling locations are illustrated on Site Assessment Map, [Appendix I](#). Before, during, and after photographs of the location are attached in [Appendix IV](#). Complete laboratory reports can be found in [Appendix V](#).

Table 1: Initial Soil Samples Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
TT-1	4/20/2023	0-1'	ND	ND	ND	ND	ND	0	5020
		2'	ND	ND	ND	ND	ND	0	7120
		3'	ND	ND	ND	ND	ND	0	56
		4'	ND	ND	ND	ND	ND	0	55.6
TT-2	4/20/2023	0-1'	ND	ND	ND	276	ND	276	1780
		2'	ND	ND	ND	121	ND	121	3920
		3'	ND	ND	ND	ND	ND	0	72.2
		4'	ND	ND	ND	ND	ND	0	79.3
TT-3	4/20/2023	0-1'	ND	ND	ND	228	ND	228	2580
		2' R	ND	ND	ND	ND	ND	0	25.5
TT-4	4/20/2023	0-1'	ND	ND	ND	ND	ND	0	1320
		2'	ND	ND	ND	ND	ND	0	382
		3'	ND	ND	ND	ND	ND	0	49
		4'	ND	ND	ND	ND	ND	0	45.7
TT-5	4/20/2023	0-1'	ND	ND	ND	101	ND	101	2450
		2'	ND	ND	ND	ND	ND	0	167
		3' R	ND	ND	ND	ND	ND	0	70.3
TT-6	4/20/2023	0-1'	ND	ND	ND	ND	ND	0	471
		2' R	ND	ND	ND	ND	ND	0	67.2
H-1	4/20/2023	0-1'	ND	ND	ND	ND	ND	0	64.1
H-2	4/20/2023	0-1'	ND	ND	ND	ND	ND	0	61.1
H-3	4/20/2023	0-1'	ND	ND	ND	ND	ND	0	53.1
H-4	4/20/2023	0-1'	ND	ND	ND	ND	ND	0	42.4

ND = Analyte Not Detected TT = Vertical Test Trench H = Horizontal R = Refusal w/backhoe

Based on the results of our site assessment and upon client authorization, excavation activities of the impacted area of the old containment began. Confirmation composite samples were collected from the bottom and sidewalls of the excavation to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. Confirmation composite sample locations and excavation dimensions can be found on Confirmation Sample Map in [Appendix I](#). Complete laboratory reports are attached in [Appendix V](#).

Table 2: Confirmation Soil Sample Analysis

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			50 mg/kg	10 mg/kg	100 mg/kg			100 mg/kg	600 mg/kg
S-1	5/12/2023	3'	ND	ND	ND	ND	ND	0	67.8
S-2	5/12/2023	2'	ND	ND	ND	ND	ND	0	63.2
S-3	5/12/2023	2'	ND	ND	ND	ND	ND	0	73.5
S-4	5/12/2023	2'	ND	ND	ND	ND	ND	0	71.8
S-5	5/12/2023	2'	ND	ND	ND	ND	ND	0	69.3
SW-1	5/12/2023	3'	ND	ND	ND	ND	ND	0	69.7
SW-2	5/12/2023	3'	ND	ND	ND	ND	ND	0	75
SW-3	5/12/2023	3'	ND	ND	ND	ND	ND	0	80.1
SW-4	5/12/2023	3'	0.0136	ND	ND	ND	ND	0	65.8
SW-5	5/12/2023	2'	0.0232	ND	ND	ND	ND	0	77.7
SW-6	5/12/2023	2'	0.0247	ND	ND	ND	ND	0	63.5
SW-7	5/12/2023	2'	ND	ND	ND	ND	ND	0	70.9

ND = Analyte Not Detected S = Bottom Sample SW = Sidewall Sample

Remedial Actions

- The impacted areas in the vicinity of sample point S-1 were excavated to a total depth of 3-feet BGS.
- The areas near sample points S-2 through S-5 were excavated to 2-feet BGS.
- Composite confirmation samples were obtained from the sidewalls and bottom of the excavated area to verify that all contaminants above closure criteria had been removed.
- All the excavated material was hauled to and disposed of at Lea Land, a NMOCD approved solid waste disposal facility.
- The excavated area was backfilled with new topsoil at depth and brought to grade, machine compacted, re-ripped, and contoured to match the surrounding location.
- The Final C-141 formally documenting the remedial actions is attached in [Appendix III](#).

Closure

Based on the site assessment, remedial actions and confirmation sampling results completed for this project, on behalf of Cimarex Energy Co. of Colorado we request that no further actions be required, and that closure of this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-909-0326.

Respectfully submitted,

H&R Enterprises, LLC



Michael Collier
Environmental Project Manager

Attachments:

- Appendix I Site Maps
- Appendix II Soil Survey, Groundwater Data, FEMA Flood Zone
- Appendix III Initial and Final C-141
- Appendix IV Photographic Documentation
- Appendix V Laboratory Reports

APPENDIX I

SITE MAPS

KARST MAP

TOPOGRAPHIC MAP

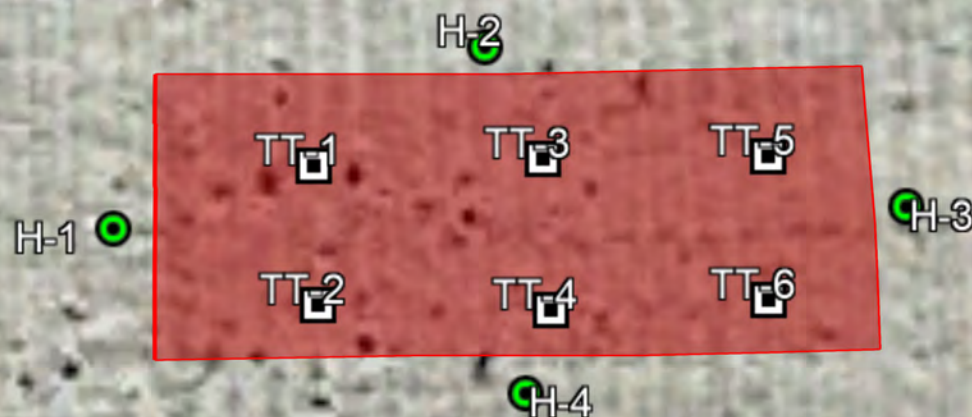
LOCATOR MAP

Wersell Federal #001

Cimarex Energy Co. of Colorado
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Eddy County, NM
Site Assessment Map

Legend

-  Horizontal Sample Point
-  nAB1507730700 Historical Spill
-  Vertical Test Trench Sample Point

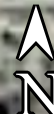


Wersell Federal #001

Cimarex Energy Co. of Colorado
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Eddy County, NM
Confirmation Sample Map

Legend

-  2ft. Excavation
-  3ft. Excavation
-  Bottom Composite Sample
-  Sidewall Composite Sample

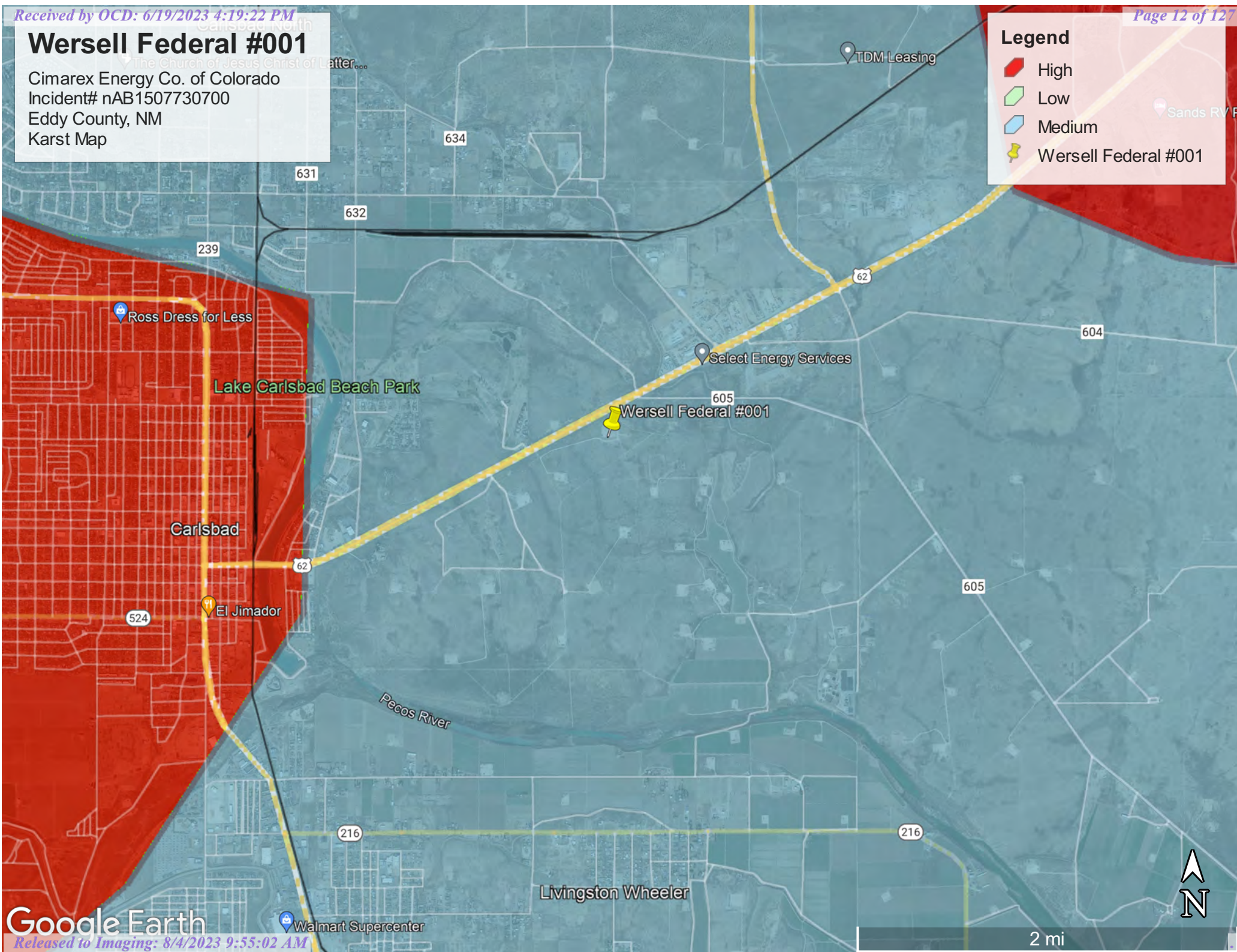


Wersell Federal #001

Cimarex Energy Co. of Colorado
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Eddy County, NM
Karst Map

Legend

- High
- Low
- Medium
- Wersell Federal #001

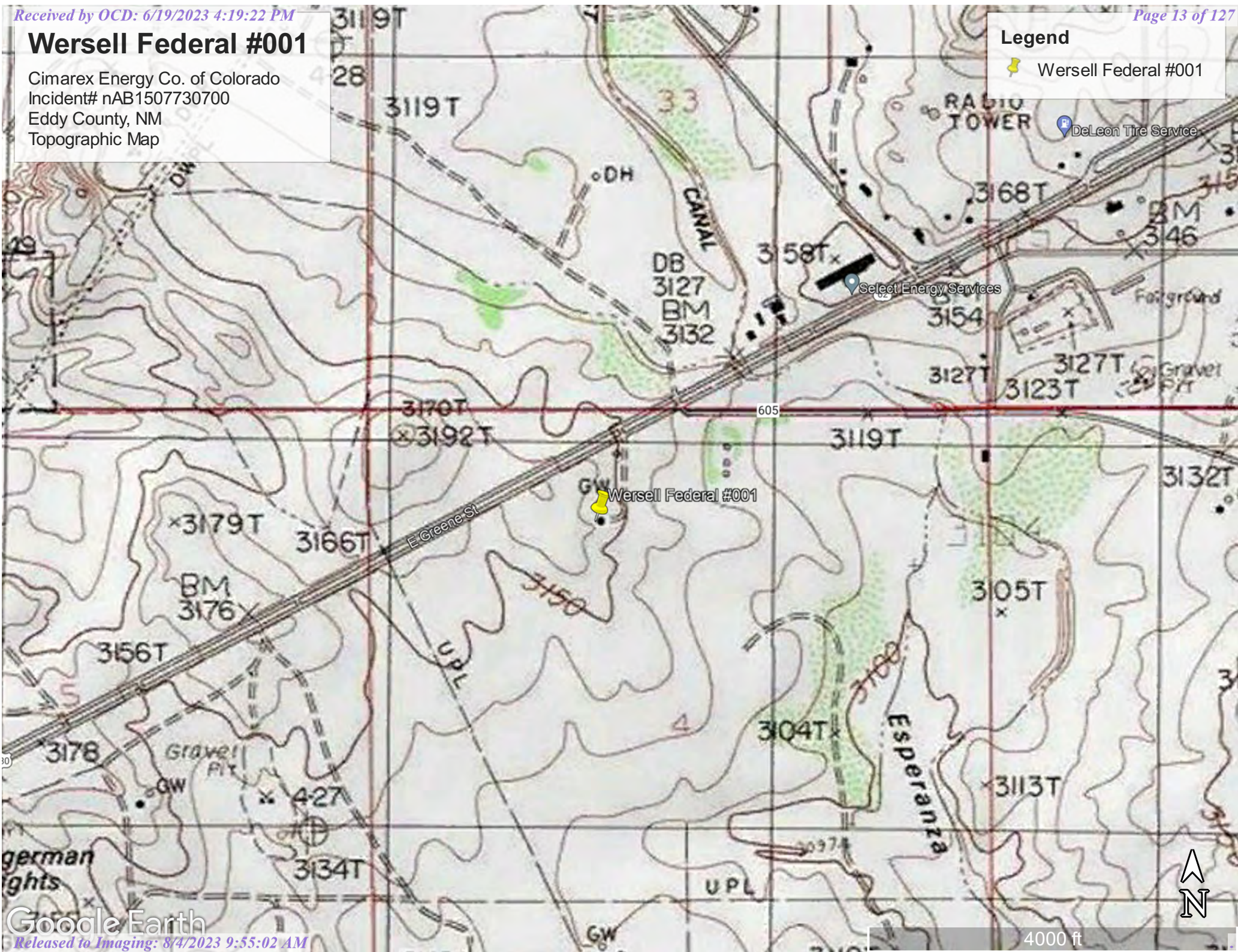


Wersell Federal #001

Cimarex Energy Co. of Colorado
Incident# nAB1507730700
Eddy County, NM
Topographic Map

Legend

 Wersell Federal #001

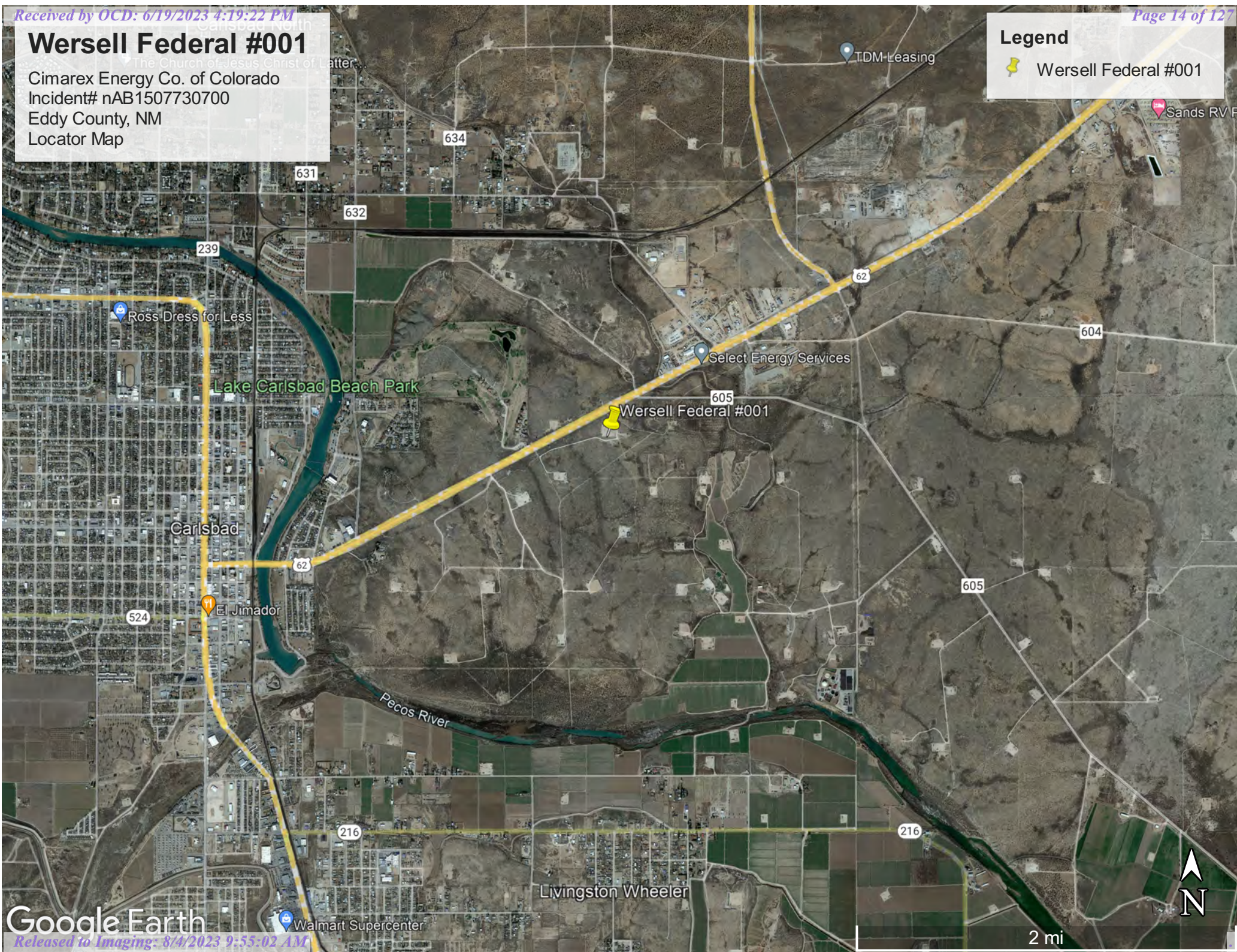


Wersell Federal #001

Cimarex Energy Co. of Colorado
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Eddy County, NM
Locator Map

Legend

 Wersell Federal #001



APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02193		C	ED			4	32	21S	27E	574476	3588675*	1217	55	15	40
C_00589		CUB	ED	2	4	4	04	22S	27E	576412	3586974*	1378			
C_04457 POD4		CUB	ED	1	3	1	33	21S	27E	574936	3589466	1572	20	15	5
C_00479		C	ED			3	03	22S	27E	576919	3587082*	1699	200		
C_00197		C	ED				32	21S	27E	574067	3589068*	1778	300		
C_00751		C	ED				32	21S	27E	574067	3589068*	1778	325	15	310
C_00566		C	ED	2	2	2	32	21S	27E	574773	3589785*	1927	323	18	305
C_00632		CUB	ED	2	2	2	32	21S	27E	574773	3589785*	1927	270	30	240
C_00344		C	ED		3	3	32	21S	27E	573464	3588465*	2074	180	17	163
C_02009		C	ED		3	3	32	21S	27E	573464	3588465*	2074	50	32	18
C_00660		C	ED	2	1	2	32	21S	27E	574368	3589780*	2106	325	14	311
C_03335		C	ED	4	1	3	29	21S	27E	573636	3589020	2114	225	31	194
C_00188		C	ED		3	3	28	21S	27E	575076	3590094*	2139	280		
C_00717		C	ED	3	3	1	05	22S	27E	573369	3587548*	2162	60	32	28
C_02170		C	ED	1	4	3	28	21S	27E	575375	3590196*	2205	253	60	193
C_00337		C	ED	1	1	2	32	21S	27E	574168	3589780*	2219	318	40	278
C_01650		C	ED		4	4	29	21S	27E	574672	3590089*	2247	45		
C_00783		C	ED	3	1	3	05	22S	27E	573372	3587136*	2280	135	73	62
C_04457 POD2		CUB	ED	1	4	1	32	21S	27E	573743	3589466	2280	12	7	5
C_00652		CUB	ED	2	4	4	29	21S	27E	574771	3590188*	2307	458		
C_02645		C	ED	2	4	4	29	21S	27E	574771	3590188*	2307	195	45	150
C_02837		C	ED	2	4	4	29	21S	27E	574771	3590188*	2307	179	155	24
C_04312 POD4		CUB	ED	4	2	2	06	22S	27E	573133	3587937	2352	25	6	19
C_04457 POD1		CUB	ED	2	3	1	32	21S	27E	573618	3589444	2363	18	13	5
C_00561		C	ED	2	3	1	32	21S	27E	573561	3589368*	2364	250		
C_04443 POD1		C	ED	3	3	4	29	21S	27E	574180	3589974	2372	120	55	65
C_01947		C	ED		3	4	29	21S	27E	574268	3590083*	2417	43	18	25
C_01250		C	ED		3	3	27	21S	27E	576677	3590107*	2426	250	45	205
C_00673		C	ED	2	3	4	29	21S	27E	574367	3590182*	2457	309	30	279
C_04312 POD2		CUB	ED	3	2	2	06	22S	27E	572996	3587963	2488	25	6	19

C_04312 POD1		CUB	ED	3	2	2	06	22S	27E	572990	3587899		2495	25	21	4
C_00749		C	ED	4	4	3	29	21S	27E	573963	3589977*		2499			
C_00925		C	ED		1	3	28	21S	27E	575070	3590498*		2538	300	46	254
C_00222		CUB	ED	1	3	4	29	21S	27E	574167	3590182*		2554	297		
C_00767		CUB	ED	1	3	4	29	21S	27E	574167	3590182*		2554	150	26	124
C_02063		C	ED				08	22S	27E	574089	3585825*		2578	45	25	20
C_00106		CUB	ED	2	1	1	32	21S	27E	573560	3589769*		2618	105		
C_01038		C	ED	3	4	3	29	21S	27E	573763	3589977*		2626	293	14	279
C_01096		C	ED	3	4	3	29	21S	27E	573763	3589977*		2626	306	17	289
C_01101		C	ED	3	4	3	29	21S	27E	573763	3589977*		2626	315	17	298
C_00064 A		CUB	ED		1	1	32	21S	27E	573461	3589670*		2627	95	15	80
C_01252		C	ED		1	1	32	21S	27E	573461	3589670*		2627	260	17	243
C_01021		C	ED	3	2	4	31	21S	27E	572956	3588750*		2639	255	12	243
C_04378 POD1		CUB	ED	2	3	2	06	22S	27E	572845	3587841		2643			
C_04378 POD2		CUB	ED	2	3	2	06	22S	27E	572845	3587829		2644			
C_00943		C	ED	2	4	3	29	21S	27E	573963	3590177*		2661	280	27	253
C_00092 A	O	CUB	ED	1	3	4	09	22S	27E	575815	3585346*		2668	200		
C_02899		C	ED	1	3	4	09	22S	27E	575815	3585346*		2668	33	22	11
C_03038		C	ED	1	3	4	09	22S	27E	575815	3585346*		2668	43	15	28
C_01493		C	ED	2	3	3	09	22S	27E	575205	3585337*		2671	60	18	42
C_02206		C	ED	2	4	4	08	22S	27E	574800	3585333*		2747	60	18	42
C_01581		C	ED	1	1	1	32	21S	27E	573360	3589769*		2768			
C_02788		C	ED	1	1	1	32	21S	27E	573360	3589769*		2768	30	15	15
C_02374		C	ED		3	4	09	22S	27E	575916	3585247*		2780	54	15	39
C_02379		C	ED		3	4	09	22S	27E	575916	3585247*		2780	55	20	35
C_03029		C	ED		3	4	09	22S	27E	575916	3585247*		2780	45	18	27
C_03084		C	ED	3	1	4	08	22S	27E	574192	3585532*		2780	112	14	98
C_04145 POD1		C	ED	4	2	3	08	22S	27E	574048	3585604		2788	119	81	38
C_04684 POD1		C	ED	2	1	4	29	21S	27E	574315	3590541		2803	240		
C_00412		C	ED		4	4	08	22S	27E	574701	3585234*		2868	237	40	197
C_00092		CUB	ED	4	3	3	09	22S	27E	575205	3585137*		2870	70	40	30
C_00092 CLW193601	O	CUB	ED	4	3	3	09	22S	27E	575205	3585137*		2870	90	40	50
C_00092 CLW193956	O	CUB	ED	4	3	3	09	22S	27E	575205	3585137*		2870	90	40	50
C_00092 CLW193966	O	CUB	ED	4	3	3	09	22S	27E	575205	3585137*		2870	90	40	50
C_03171		C	ED	3	2	3	29	21S	27E	573705	3590267		2887	100	31	69
C_00023		CUB	ED	3	3	3	09	22S	27E	575005	3585137*		2896	90	35	55
C_00023 CLW193948	O	CUB	ED	3	3	3	09	22S	27E	575005	3585137*		2896	90	35	55
C_00023 S		CUB	ED	3	3	3	09	22S	27E	575005	3585137*		2896	90		
C_01126		C	ED	2	2	2	31	21S	27E	573155	3589750*		2917	260	30	230

C_03550 POD1		CUB	ED	2	3	4	06	22S	27E	572728	3586988		2934	25		
C_04423 POD1		CUB	ED	4	3	4	06	22S	27E	572859	3586676		2937	25	16	9
C_04428 POD1		CUB	ED	4	3	4	06	22S	27E	572859	3586676		2937	25	16	9
C_00089		C	ED	2	2	31	21S	27E	573056	3589651*		2940	280			
C_03651 POD12		CUB	ED	4	3	4	06	22S	27E	572855	3586667		2944	33		
C_00160		C	ED	2	3	3	10	22S	27E	576826	3585355*		2960	85	40	45
C_00160 CLW198701	O	C	ED	2	3	3	10	22S	27E	576826	3585355*		2960			
C_03651 POD5		CUB	ED	4	3	4	06	22S	27E	572815	3586694		2968	31	17	14
C_01755		C	ED	2	3	29	21S	27E	573860	3590480*		2970	320	17	303	
C_02045		C	ED	2	3	29	21S	27E	573860	3590480*		2970	80	29	51	
C_03651 POD9		CUB	ED	4	3	4	06	22S	27E	572860	3586602		2970	26		
C_03651 POD13		CUB	ED	4	3	4	06	22S	27E	572840	3586636		2972	30		
C_00021 A		CUB	ED	4	4	4	09	22S	27E	576421	3585150*		2993	196	40	156
C_00021 CLW193276	O	CUB	ED	4	4	4	09	22S	27E	576421	3585150*		2993	100		
C_03651 POD1		CUB	ED	4	3	4	06	22S	27E	572781	3586705		2994	30		
C_03651 POD4		CUB	ED	4	3	4	06	22S	27E	572772	3586719		2997	30		
C_03651 POD3		CUB	ED	4	3	4	06	22S	27E	572783	3586690		2999	30		

Average Depth to Water:29 feet

Minimum Depth:6 feet

Maximum Depth:155 feet

Record Count: 86

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 575484.62Northing (Y): 3587993.64Radius: 3000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/19/23 1:30 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Upton gravelly loam, 0 to 9 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

Uo—Upton gravelly loam, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w67

Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 15 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 96 percent

Minor components: 4 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton

Setting

Landform: Ridges, fans

Landform position (three-dimensional): Side slope, rise

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam

H2 - 9 to 13 inches: gravelly loam

H3 - 13 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Map Unit Description: Upton gravelly loam, 0 to 9 percent slopes---Eddy Area, New Mexico

Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Atoka

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Upton

Percent of map unit: 1 percent
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Reagan

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMMette



104°12'8"W 32°25'51"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
	MAP PANELS	
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/19/2023 at 4:08 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

APPENDIX III

INITIAL C-141

FINAL C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Cimax Energy	Contact Christine Alderman
Address 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-853-7059
Facility Name Wersell Fed #1	Facility Type production
Surface Owner	Mineral Owner
API No. 30-015-20915	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	04	22S	27E	810	N	1980	W	Eddy

Latitude 32.42693 Longitude -104.19662

NATURE OF RELEASE

Type of Release oil	Volume of Release 40 bbls	Volume Recovered 30 bbls
Source of Release tank	Date and Hour of Occurrence 3/9/2015	Date and Hour of Discovery 3/9/2015
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher / Sol Hughes	
By Whom? Christine Alderman	Date and Hour 3/10/2015 9:00am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The turbine meter on the water dump valve on the heater treater became plugged with solids which sent all fluids over to the tanks. As a result the tanks ran over into unlined containment.

Describe Area Affected and Cleanup Action Taken.*

All fluids stayed within firewall, and most of oily soil has been removed. Will contact Consultant to delineate and prepare work plan.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Christine Alderman</i>	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist:	
Title: ESH Supervisor	Approval Date:	Expiration Date:
E-mail Address: calderman@cimaxex.com	Conditions of Approval:	Attached ☐
Date: 3/17/2015	Phone: 432-853-7059	

* Attach Additional Sheets If Necessary

Ashton Thielke

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, May 10, 2023 9:38 AM
To: Ashton Thielke
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] nAB1507730700 & nAB1515334420 - WERSELL FEDERAL #001 - Confirmation Sampling Notification

WARNING: This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Ashton,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Tuesday, May 9, 2023 2:52 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] nAB1507730700 & nAB1515334420 - WERSELL FEDERAL #001 - Confirmation Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

This new email serves as 48+ hour notification for confirmation sampling on the Wersell Federal #001. Sampling is scheduled to begin as early as 10:00am (MST) Friday, May 12th, weather and soil conditions permitting. H&R Enterprises will be on site to collect the confirmation samples. Remediation for both incidents mentioned below will be completed at this time.

Incident ID: nAB1507730700 & nAB1515334420

Coordinates: 32.426505, -104.197119

Thank you,



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | ashton.thielke@coterra.com | www.coterra.com

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise the sender immediately by reply e-mail and delete this message.

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

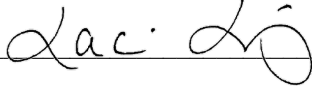
State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

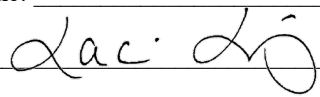
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 8/4/2023

Printed Name: Brittany Hall Title: Environmental Specialist

APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPHIC DOCUMENTATION

INITIAL PHOTOGRAPH



EXCAVATION PHOTOGRAPHS



PHOTOGRAPHIC DOCUMENTATION

EXCAVATION PHOTOGRAPHS



FINAL PHOTOGRAPH



APPENDIX V

LABORATORY REPORTS



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Collier
H & R Enterprises
5120 W Kansas St
Hobbs, New Mexico 88242

Generated 4/28/2023 10:29:19 AM

JOB DESCRIPTION

Wersel Fed #001
SDG NUMBER (Wersell 1)

JOB NUMBER

890-4553-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
4/28/2023 10:29:19 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Laboratory Job ID: 890-4553-1
SDG: (Wersell 1)

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Definitions/Glossary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Qualifiers

GC VOA

Qualifier	Qualifier Description
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.
F2	MS/MSD RPD exceeds control limits
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

Eurofins Carlsbad

Case Narrative

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Job ID: 890-4553-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4553-1

Receipt

The samples were received on 4/20/2023 12:51 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

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-2 0-1' (890-4553-21), H-3 0-1' (890-4553-22), (880-27483-A-1-C) and (880-27483-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51713 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: TT-1 0-1' (890-4553-1), TT-1 2' (890-4553-2), TT-1 3' (890-4553-3), TT-1 4' (890-4553-4), TT-2 0-1' (890-4553-5), TT-2 2' (890-4553-6), TT-2 4' (890-4553-8), TT-3 0-1' (890-4553-9), TT-3 2'R (890-4553-10), TT-4 0-1' (890-4553-11), TT-4 2' (890-4553-12), TT-4 3' (890-4553-13), TT-4 4' (890-4553-14), TT-5 0-1' (890-4553-15), TT-5 2' (890-4553-16), TT-5 3'R (890-4553-17), TT-6 0-1' (890-4553-18), TT-6 2' (890-4553-19), H-1 0-1' (890-4553-20), (LCS 880-51702/1-A), (LCSD 880-51702/2-A), (890-4553-A-1-A MS) and (890-4553-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: TT-4 3' (890-4553-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51920 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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 surrogate recovery for the blank associated with preparation batch 880-51717 and analytical batch 880-51776 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4553-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-51717 and analytical batch 880-51776 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-51717 and analytical batch 880-51776 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.

Method 8015MOD_NM: CCV biased low however an acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported.(CCV 880-51776/20)

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-51719 and analytical batch 880-51662 was outside the upper control limits.

Case Narrative

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Job ID: 890-4553-1 (Continued)**Laboratory: Eurofins Carlsbad (Continued)**

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-51719/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: H-3 0-1' (890-4553-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51906 and 880-51906 and analytical batch 880-52116 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: TT-1 0-1' (890-4553-1), TT-1 2' (890-4553-2), TT-1 3' (890-4553-3), TT-1 4' (890-4553-4), TT-2 0-1 (890-4553-5), TT-2 2' (890-4553-6), TT-2 3' (890-4553-7), TT-2 4' (890-4553-8), TT-3 0-1 (890-4553-9), TT-3 2'R (890-4553-10), (890-4553-A-1-H MS) and (890-4553-A-1-I MSD).

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

Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-1 0-1'

Lab Sample ID: 890-4553-1

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		04/21/23 11:58	04/22/23 06:21	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		04/21/23 11:58	04/22/23 06:21	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		04/21/23 11:58	04/22/23 06:21	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		04/21/23 11:58	04/22/23 06:21	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		04/21/23 11:58	04/22/23 06:21	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		04/21/23 11:58	04/22/23 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	04/21/23 11:58	04/22/23 06:21	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130	04/21/23 11:58	04/22/23 06:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 11:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- F2	50.0		mg/Kg		04/21/23 13:53	04/22/23 11:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/21/23 13:53	04/22/23 11:40	1
o-Terphenyl	105		70 - 130	04/21/23 13:53	04/22/23 11:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5020	F1	50.1		mg/Kg			04/27/23 19:58	10

Client Sample ID: TT-1 2'

Lab Sample ID: 890-4553-2

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 06:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 06:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 06:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/23 11:58	04/22/23 06:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 06:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/23 11:58	04/22/23 06:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	04/21/23 11:58	04/22/23 06:46	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-1 2'

Lab Sample ID: 890-4553-2

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	76		70 - 130	04/21/23 11:58	04/22/23 06:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 12:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		04/21/23 13:53	04/22/23 12:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 13:53	04/22/23 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/21/23 13:53	04/22/23 12:45	1
o-Terphenyl	109		70 - 130				04/21/23 13:53	04/22/23 12:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7120		49.7		mg/Kg			04/27/23 20:13	10

Client Sample ID: TT-1 3'

Lab Sample ID: 890-4553-3

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 07:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 07:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 07:13	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/21/23 11:58	04/22/23 07:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 07:13	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/21/23 11:58	04/22/23 07:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130	04/21/23 11:58	04/22/23 07:13	1
1,4-Difluorobenzene (Surr)	75		70 - 130	04/21/23 11:58	04/22/23 07:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/24/23 11:55	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-1 3'

Lab Sample ID: 890-4553-3

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 3

Method: SW846 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		04/21/23 13:53	04/22/23 13:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		04/21/23 13:53	04/22/23 13:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 13:53	04/22/23 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/21/23 13:53	04/22/23 13:07	1
o-Terphenyl	84		70 - 130				04/21/23 13:53	04/22/23 13:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.6		4.98		mg/Kg			04/27/23 20:18	1

Client Sample ID: TT-1 4'

Lab Sample ID: 890-4553-4

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 07:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 07:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 07:40	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/21/23 11:58	04/22/23 07:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 07:40	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/21/23 11:58	04/22/23 07:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130				04/21/23 11:58	04/22/23 07:40	1
1,4-Difluorobenzene (Surr)	76		70 - 130				04/21/23 11:58	04/22/23 07:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 13:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		04/21/23 13:53	04/22/23 13:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 13:53	04/22/23 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/21/23 13:53	04/22/23 13:28	1
o-Terphenyl	93		70 - 130				04/21/23 13:53	04/22/23 13:28	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-1 4'

Lab Sample ID: 890-4553-4

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.6		4.98		mg/Kg			04/27/23 20:23	1

Client Sample ID: TT-2 0-1

Lab Sample ID: 890-4553-5

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 08:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 08:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 08:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 11:58	04/22/23 08:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 08:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 11:58	04/22/23 08:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130				04/21/23 11:58	04/22/23 08:06	1
1,4-Difluorobenzene (Surr)	76		70 - 130				04/21/23 11:58	04/22/23 08:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	276		50.0		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 13:50	1
Diesel Range Organics (Over C10-C28)	276	*-	50.0		mg/Kg		04/21/23 13:53	04/22/23 13:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				04/21/23 13:53	04/22/23 13:50	1
o-Terphenyl	121		70 - 130				04/21/23 13:53	04/22/23 13:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1780		25.1		mg/Kg			04/27/23 20:27	5

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-2 2'

Lab Sample ID: 890-4553-6

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/21/23 11:58	04/22/23 08:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/21/23 11:58	04/22/23 08:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/21/23 11:58	04/22/23 08:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/21/23 11:58	04/22/23 08:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/21/23 11:58	04/22/23 08:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/21/23 11:58	04/22/23 08:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	04/21/23 11:58	04/22/23 08:33	1
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130	04/21/23 11:58	04/22/23 08:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	121		50.0		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 14:12	1
Diesel Range Organics (Over C10-C28)	121	*-	50.0		mg/Kg		04/21/23 13:53	04/22/23 14:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	04/21/23 13:53	04/22/23 14:12	1
o-Terphenyl	100		70 - 130	04/21/23 13:53	04/22/23 14:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3920		25.2		mg/Kg			04/27/23 20:42	5

Client Sample ID: TT-2 3'

Lab Sample ID: 890-4553-7

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 08:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 08:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 08:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 11:58	04/22/23 08:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 08:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 11:58	04/22/23 08:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	04/21/23 11:58	04/22/23 08:59	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-2 3'

Lab Sample ID: 890-4553-7

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	70		70 - 130	04/21/23 11:58	04/22/23 08:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 14:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		04/21/23 13:53	04/22/23 14:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 13:53	04/22/23 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/21/23 13:53	04/22/23 14:34	1
o-Terphenyl	83		70 - 130				04/21/23 13:53	04/22/23 14:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.2		5.04		mg/Kg			04/27/23 20:47	1

Client Sample ID: TT-2 4'

Lab Sample ID: 890-4553-8

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 09:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 09:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 09:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/23 11:58	04/22/23 09:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 09:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/23 11:58	04/22/23 09:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	04/21/23 11:58	04/22/23 09:25	1
1,4-Difluorobenzene (Surr)	76		70 - 130	04/21/23 11:58	04/22/23 09:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/24/23 11:55	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-2 4'

Lab Sample ID: 890-4553-8

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 4

Method: SW846 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		04/21/23 13:53	04/22/23 14:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		04/21/23 13:53	04/22/23 14:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				04/21/23 13:53	04/22/23 14:55	1
o-Terphenyl	87		70 - 130				04/21/23 13:53	04/22/23 14:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.3		4.99		mg/Kg			04/27/23 20:51	1

Client Sample ID: TT-3 0-1

Lab Sample ID: 890-4553-9

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 09:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 09:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 09:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/21/23 11:58	04/22/23 09:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/21/23 11:58	04/22/23 09:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/21/23 11:58	04/22/23 09:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130				04/21/23 11:58	04/22/23 09:52	1
1,4-Difluorobenzene (Surr)	85		70 - 130				04/21/23 11:58	04/22/23 09:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	228		49.9		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 15:17	1
Diesel Range Organics (Over C10-C28)	228	*-	49.9		mg/Kg		04/21/23 13:53	04/22/23 15:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 13:53	04/22/23 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/21/23 13:53	04/22/23 15:17	1
o-Terphenyl	98		70 - 130				04/21/23 13:53	04/22/23 15:17	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-3 0-1

Lab Sample ID: 890-4553-9

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2580		24.8		mg/Kg			04/27/23 20:56	5

Client Sample ID: TT-3 2'R

Lab Sample ID: 890-4553-10

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 10:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 10:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 10:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/23 11:58	04/22/23 10:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 10:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/23 11:58	04/22/23 10:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				04/21/23 11:58	04/22/23 10:18	1
1,4-Difluorobenzene (Surr)	84		70 - 130				04/21/23 11:58	04/22/23 10:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 15:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		04/21/23 13:53	04/22/23 15:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 13:53	04/22/23 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				04/21/23 13:53	04/22/23 15:39	1
o-Terphenyl	76		70 - 130				04/21/23 13:53	04/22/23 15:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.5		5.05		mg/Kg			04/27/23 21:01	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-4 0-1'

Lab Sample ID: 890-4553-11

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 12:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 12:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 12:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/21/23 11:58	04/22/23 12:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 12:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/21/23 11:58	04/22/23 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	04/21/23 11:58	04/22/23 12:03	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	04/21/23 11:58	04/22/23 12:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 16:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		04/21/23 13:53	04/22/23 16:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	04/21/23 13:53	04/22/23 16:21	1
o-Terphenyl	87		70 - 130	04/21/23 13:53	04/22/23 16:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1320		25.1		mg/Kg			04/27/23 21:06	5

Client Sample ID: TT-4 2'

Lab Sample ID: 890-4553-12

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 12:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 12:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 12:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/21/23 11:58	04/22/23 12:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 12:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/21/23 11:58	04/22/23 12:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130	04/21/23 11:58	04/22/23 12:29	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-4 2'

Lab Sample ID: 890-4553-12

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73		70 - 130	04/21/23 11:58	04/22/23 12:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 16:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		04/21/23 13:53	04/22/23 16:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				04/21/23 13:53	04/22/23 16:42	1
o-Terphenyl	83		70 - 130				04/21/23 13:53	04/22/23 16:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	382		4.98		mg/Kg			04/27/23 21:20	1

Client Sample ID: TT-4 3'

Lab Sample ID: 890-4553-13

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 11:53	04/25/23 01:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 11:53	04/25/23 01:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 11:53	04/25/23 01:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/24/23 11:53	04/25/23 01:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/24/23 11:53	04/25/23 01:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/24/23 11:53	04/25/23 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	04/24/23 11:53	04/25/23 01:57	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/24/23 11:53	04/25/23 01:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/25/23 10:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/24/23 11:55	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-4 3'

Lab Sample ID: 890-4553-13

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 3

Method: SW846 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		04/21/23 13:53	04/22/23 17:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		04/21/23 13:53	04/22/23 17:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 13:53	04/22/23 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/21/23 13:53	04/22/23 17:03	1
o-Terphenyl	85		70 - 130				04/21/23 13:53	04/22/23 17:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.0		4.97		mg/Kg			04/27/23 21:25	1

Client Sample ID: TT-4 4'

Lab Sample ID: 890-4553-14

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 13:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 13:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 13:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 11:58	04/22/23 13:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 13:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 11:58	04/22/23 13:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130				04/21/23 11:58	04/22/23 13:21	1
1,4-Difluorobenzene (Surr)	73		70 - 130				04/21/23 11:58	04/22/23 13:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		04/21/23 13:53	04/22/23 17:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/21/23 13:53	04/22/23 17:25	1
o-Terphenyl	90		70 - 130				04/21/23 13:53	04/22/23 17:25	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-4 4'

Lab Sample ID: 890-4553-14

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.7		5.01		mg/Kg			04/27/23 21:40	1

Client Sample ID: TT-5 0-1'

Lab Sample ID: 890-4553-15

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 13:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 13:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 13:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 11:58	04/22/23 13:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 13:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 11:58	04/22/23 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	70 - 130				04/21/23 11:58	04/22/23 13:48	1
1,4-Difluorobenzene (Surr)	80		70 - 130				04/21/23 11:58	04/22/23 13:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		49.9		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 17:46	1
Diesel Range Organics (Over C10-C28)	101	*-	49.9		mg/Kg		04/21/23 13:53	04/22/23 17:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 13:53	04/22/23 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				04/21/23 13:53	04/22/23 17:46	1
o-Terphenyl	104		70 - 130				04/21/23 13:53	04/22/23 17:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2450		25.2		mg/Kg			04/27/23 21:45	5

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-5 2'

Lab Sample ID: 890-4553-16

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 14:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 14:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 14:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/23 11:58	04/22/23 14:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 14:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/23 11:58	04/22/23 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	181	S1+	70 - 130	04/21/23 11:58	04/22/23 14:14	1
1,4-Difluorobenzene (Surr)	76		70 - 130	04/21/23 11:58	04/22/23 14:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 18:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		04/21/23 13:53	04/22/23 18:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 13:53	04/22/23 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	04/21/23 13:53	04/22/23 18:08	1
o-Terphenyl	95		70 - 130	04/21/23 13:53	04/22/23 18:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		5.00		mg/Kg			04/27/23 21:50	1

Client Sample ID: TT-5 3'R

Lab Sample ID: 890-4553-17

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 14:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 14:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 14:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/21/23 11:58	04/22/23 14:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/21/23 11:58	04/22/23 14:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/21/23 11:58	04/22/23 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	04/21/23 11:58	04/22/23 14:40	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-5 3'R

Lab Sample ID: 890-4553-17

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	71		70 - 130	04/21/23 11:58	04/22/23 14:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 18:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8		mg/Kg		04/21/23 13:53	04/22/23 18:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/23 13:53	04/22/23 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				04/21/23 13:53	04/22/23 18:29	1
o-Terphenyl	86		70 - 130				04/21/23 13:53	04/22/23 18:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.3		5.05		mg/Kg			04/27/23 21:54	1

Client Sample ID: TT-6 0-1'

Lab Sample ID: 890-4553-18

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 15:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 15:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 15:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/21/23 11:58	04/22/23 15:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 15:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/21/23 11:58	04/22/23 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	1619	S1+	70 - 130	04/21/23 11:58	04/22/23 15:07	1
1,4-Difluorobenzene (Surr)	674	S1+	70 - 130	04/21/23 11:58	04/22/23 15:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/24/23 11:55	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-6 0-1'

Lab Sample ID: 890-4553-18

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 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		04/21/23 13:53	04/22/23 18:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		04/21/23 13:53	04/22/23 18:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/21/23 13:53	04/22/23 18:51	1
o-Terphenyl	83		70 - 130				04/21/23 13:53	04/22/23 18:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	471		5.02		mg/Kg			04/27/23 21:59	1

Client Sample ID: TT-6 2'

Lab Sample ID: 890-4553-19

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/21/23 11:58	04/22/23 15:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/21/23 11:58	04/22/23 15:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/21/23 11:58	04/22/23 15:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/21/23 11:58	04/22/23 15:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/21/23 11:58	04/22/23 15:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/21/23 11:58	04/22/23 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130				04/21/23 11:58	04/22/23 15:33	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				04/21/23 11:58	04/22/23 15:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 19:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0		mg/Kg		04/21/23 13:53	04/22/23 19:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/21/23 13:53	04/22/23 19:13	1
o-Terphenyl	94		70 - 130				04/21/23 13:53	04/22/23 19:13	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-6 2'

Lab Sample ID: 890-4553-19

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.2		4.98		mg/Kg			04/27/23 22:04	1

Client Sample ID: H-1 0-1'

Lab Sample ID: 890-4553-20

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 16:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 16:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 16:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 11:58	04/22/23 16:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 11:58	04/22/23 16:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 11:58	04/22/23 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	173	S1+	70 - 130				04/21/23 11:58	04/22/23 16:00	1
1,4-Difluorobenzene (Surr)	79		70 - 130				04/21/23 11:58	04/22/23 16:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/24/23 11:55	1

Method: SW846 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		04/21/23 13:53	04/22/23 19:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		04/21/23 13:53	04/22/23 19:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 13:53	04/22/23 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				04/21/23 13:53	04/22/23 19:34	1
o-Terphenyl	101		70 - 130				04/21/23 13:53	04/22/23 19:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.1		4.98		mg/Kg			04/27/23 22:09	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: H-2 0-1'

Lab Sample ID: 890-4553-21

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 13:29	04/22/23 05:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 13:29	04/22/23 05:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 13:29	04/22/23 05:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 13:29	04/22/23 05:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 13:29	04/22/23 05:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 13:29	04/22/23 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	04/21/23 13:29	04/22/23 05:10	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/21/23 13:29	04/22/23 05:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/24/23 15:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/24/23 12:42	1

Method: SW846 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		04/21/23 13:59	04/22/23 04:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/21/23 13:59	04/22/23 04:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/23 13:59	04/22/23 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	04/21/23 13:59	04/22/23 04:11	1
o-Terphenyl	123		70 - 130	04/21/23 13:59	04/22/23 04:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.1		5.02		mg/Kg			04/26/23 12:17	1

Client Sample ID: H-3 0-1'

Lab Sample ID: 890-4553-22

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/23 13:29	04/22/23 05:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/23 13:29	04/22/23 05:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/23 13:29	04/22/23 05:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/23 13:29	04/22/23 05:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/23 13:29	04/22/23 05:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/23 13:29	04/22/23 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	04/21/23 13:29	04/22/23 05:30	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: H-3 0-1'

Lab Sample ID: 890-4553-22

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86		70 - 130	04/21/23 13:29	04/22/23 05:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/24/23 15:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/24/23 12:42	1

Method: SW846 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		04/21/23 13:59	04/22/23 04:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/21/23 13:59	04/22/23 04:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:59	04/22/23 04:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				04/21/23 13:59	04/22/23 04:33	1
o-Terphenyl	137	S1+	70 - 130				04/21/23 13:59	04/22/23 04:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.1		5.00		mg/Kg			04/26/23 12:31	1

Client Sample ID: H-4 0-1'

Lab Sample ID: 890-4553-23

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:32	04/25/23 18:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:32	04/25/23 18:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:32	04/25/23 18:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/21/23 11:32	04/25/23 18:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:32	04/25/23 18:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/21/23 11:32	04/25/23 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/21/23 11:32	04/25/23 18:02	1
1,4-Difluorobenzene (Surr)	116		70 - 130	04/21/23 11:32	04/25/23 18:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/26/23 09:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/24/23 12:42	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: H-4 0-1'

Lab Sample ID: 890-4553-23

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Sample Depth: 0 - 1

Method: SW846 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		04/21/23 13:59	04/22/23 04:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/21/23 13:59	04/22/23 04:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:59	04/22/23 04:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				04/21/23 13:59	04/22/23 04:55	1
o-Terphenyl	121		70 - 130				04/21/23 13:59	04/22/23 04:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.4		4.98		mg/Kg			04/26/23 12:35	1

Surrogate Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4553-1	TT-1 0-1'	143 S1+	63 S1-
890-4553-1 MS	TT-1 0-1'	146 S1+	74
890-4553-1 MSD	TT-1 0-1'	131 S1+	66 S1-
890-4553-2	TT-1 2'	167 S1+	76
890-4553-3	TT-1 3'	175 S1+	75
890-4553-4	TT-1 4'	155 S1+	76
890-4553-5	TT-2 0-1	162 S1+	76
890-4553-6	TT-2 2'	140 S1+	63 S1-
890-4553-7	TT-2 3'	77	70
890-4553-8	TT-2 4'	141 S1+	76
890-4553-9	TT-3 0-1	178 S1+	85
890-4553-10	TT-3 2'R	142 S1+	84
890-4553-11	TT-4 0-1'	167 S1+	64 S1-
890-4553-12	TT-4 2'	158 S1+	73
890-4553-13	TT-4 3'	63 S1-	89
890-4553-14	TT-4 4'	168 S1+	73
890-4553-15	TT-5 0-1'	186 S1+	80
890-4553-16	TT-5 2'	181 S1+	76
890-4553-17	TT-5 3'R	140 S1+	71
890-4553-18	TT-6 0-1'	1619 S1+	674 S1+
890-4553-19	TT-6 2'	158 S1+	65 S1-
890-4553-20	H-1 0-1'	173 S1+	79
890-4553-21	H-2 0-1'	62 S1-	99
890-4553-22	H-3 0-1'	69 S1-	86
890-4553-23	H-4 0-1'	117	116
LCS 880-51697/1-A	Lab Control Sample	105	102
LCS 880-51702/1-A	Lab Control Sample	143 S1+	84
LCS 880-51716/1-A	Lab Control Sample	119	111
LCS 880-51842/1-A	Lab Control Sample	114	87
LCSD 880-51697/2-A	Lab Control Sample Dup	111	101
LCSD 880-51702/2-A	Lab Control Sample Dup	141 S1+	79
LCSD 880-51716/2-A	Lab Control Sample Dup	108	100
LCSD 880-51842/2-A	Lab Control Sample Dup	117	109
MB 880-51617/5-A	Method Blank	99	98
MB 880-51697/5-A	Method Blank	105	93
MB 880-51701/5-A	Method Blank	84	75
MB 880-51702/5-A	Method Blank	92	73
MB 880-51716/5-A	Method Blank	76	79
MB 880-51796/5-A	Method Blank	74	82
MB 880-51842/5-A	Method Blank	76	80

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

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)
890-4553-1	TT-1 0-1'	92	105
890-4553-1 MS	TT-1 0-1'	132 S1+	125
890-4553-1 MSD	TT-1 0-1'	94	92
890-4553-2	TT-1 2'	101	109
890-4553-3	TT-1 3'	85	84
890-4553-4	TT-1 4'	93	93
890-4553-5	TT-2 0-1	123	121
890-4553-6	TT-2 2'	99	100
890-4553-7	TT-2 3'	85	83
890-4553-8	TT-2 4'	90	87
890-4553-9	TT-3 0-1	98	98
890-4553-10	TT-3 2'R	78	76
890-4553-11	TT-4 0-1'	86	87
890-4553-12	TT-4 2'	87	83
890-4553-13	TT-4 3'	93	85
890-4553-14	TT-4 4'	98	90
890-4553-15	TT-5 0-1'	109	104
890-4553-16	TT-5 2'	101	95
890-4553-17	TT-5 3'R	96	86
890-4553-18	TT-6 0-1'	92	83
890-4553-19	TT-6 2'	104	94
890-4553-20	H-1 0-1'	114	101
890-4553-21	H-2 0-1'	107	123
890-4553-22	H-3 0-1'	123	137 S1+
890-4553-23	H-4 0-1'	106	121
LCS 880-51717/2-A	Lab Control Sample	91	98
LCS 880-51719/2-A	Lab Control Sample	110	127
LCSD 880-51717/3-A	Lab Control Sample Dup	79	83
LCSD 880-51719/3-A	Lab Control Sample Dup	114	131 S1+
MB 880-51717/1-A	Method Blank	140 S1+	158 S1+
MB 880-51719/1-A	Method Blank	137 S1+	169 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51617/5-A

Matrix: Solid

Analysis Batch: 51663

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/20/23 13:10	04/21/23 11:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/20/23 13:10	04/21/23 11:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/20/23 13:10	04/21/23 11:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/20/23 13:10	04/21/23 11:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/20/23 13:10	04/21/23 11:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/20/23 13:10	04/21/23 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/20/23 13:10	04/21/23 11:01	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/20/23 13:10	04/21/23 11:01	1

Lab Sample ID: MB 880-51697/5-A

Matrix: Solid

Analysis Batch: 51920

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51697

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:32	04/25/23 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:32	04/25/23 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:32	04/25/23 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/23 11:32	04/25/23 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:32	04/25/23 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/23 11:32	04/25/23 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/21/23 11:32	04/25/23 11:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/21/23 11:32	04/25/23 11:25	1

Lab Sample ID: LCS 880-51697/1-A

Matrix: Solid

Analysis Batch: 51920

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1260		mg/Kg		126	70 - 130
Toluene	0.100	0.1091		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2238		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-51697/2-A

Matrix: Solid

Analysis Batch: 51920

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51697

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1212		mg/Kg		121	70 - 130	4	35

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

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

Lab Sample ID: LCSD 880-51697/2-A

Matrix: Solid

Analysis Batch: 51920

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51697

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1111		mg/Kg		111	70 - 130	2	35
Ethylbenzene	0.100	0.1183		mg/Kg		118	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2414		mg/Kg		121	70 - 130	8	35
o-Xylene	0.100	0.1183		mg/Kg		118	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-51701/5-A

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:56	04/21/23 16:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:56	04/21/23 16:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:56	04/21/23 16:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/23 11:56	04/21/23 16:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:56	04/21/23 16:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/23 11:56	04/21/23 16:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	04/21/23 11:56	04/21/23 16:20	1
1,4-Difluorobenzene (Surr)	75		70 - 130	04/21/23 11:56	04/21/23 16:20	1

Lab Sample ID: MB 880-51702/5-A

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51702

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 05:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 05:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 05:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/23 11:58	04/22/23 05:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 11:58	04/22/23 05:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/23 11:58	04/22/23 05:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	04/21/23 11:58	04/22/23 05:54	1
1,4-Difluorobenzene (Surr)	73		70 - 130	04/21/23 11:58	04/22/23 05:54	1

Lab Sample ID: LCS 880-51702/1-A

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1087		mg/Kg		109	70 - 130
Toluene	0.100	0.1088		mg/Kg		109	70 - 130

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

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

Lab Sample ID: LCS 880-51702/1-A

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.1136		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2222		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1127		mg/Kg		113	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-51702/2-A

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51702

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1205		mg/Kg		121	70 - 130	10	35
Toluene	0.100	0.1093		mg/Kg		109	70 - 130	0	35
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2169		mg/Kg		108	70 - 130	2	35
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130	4	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 890-4553-1 MS

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: TT-1 0-1'

Prep Type: Total/NA

Prep Batch: 51702

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1 F2	0.0998	0.05654	F1	mg/Kg		57	70 - 130
Toluene	<0.00199	U F1	0.0998	0.05797	F1	mg/Kg		58	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.06485	F1	mg/Kg		65	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1281	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00199	U F1 F2	0.0998	0.06439	F1	mg/Kg		65	70 - 130

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Lab Sample ID: 890-4553-1 MSD

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: TT-1 0-1'

Prep Type: Total/NA

Prep Batch: 51702

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
										RPD	Limit
Benzene	<0.00199	U F1 F2	0.100	0.03354	F1 F2	mg/Kg		33	70 - 130	51	35
Toluene	<0.00199	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00199	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.006723	F1 F2	mg/Kg		3	70 - 130	180	35
o-Xylene	<0.00199	U F1 F2	0.100	0.04056	F1 F2	mg/Kg		40	70 - 130	45	35

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130

Lab Sample ID: MB 880-51716/5-A

Matrix: Solid

Analysis Batch: 51663

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51716

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/23 13:29	04/21/23 21:37	1	
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/23 13:29	04/21/23 21:37	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/23 13:29	04/21/23 21:37	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/23 13:29	04/21/23 21:37	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/23 13:29	04/21/23 21:37	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/23 13:29	04/21/23 21:37	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
4-Bromofluorobenzene (Surr)	76		70 - 130	04/21/23 13:29	04/21/23 21:37	1				
1,4-Difluorobenzene (Surr)	79		70 - 130	04/21/23 13:29	04/21/23 21:37	1				

Lab Sample ID: LCS 880-51716/1-A

Matrix: Solid

Analysis Batch: 51663

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51716

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.09926		mg/Kg		99	70 - 130			
Toluene	0.100	0.09923		mg/Kg		99	70 - 130			
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130			
m-Xylene & p-Xylene	0.200	0.2163		mg/Kg		108	70 - 130			
o-Xylene	0.100	0.1095		mg/Kg		110	70 - 130			

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-51716/2-A

Matrix: Solid

Analysis Batch: 51663

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51716

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09527		mg/Kg		95	70 - 130	4	35	
Toluene	0.100	0.09162		mg/Kg		92	70 - 130	8	35	
Ethylbenzene	0.100	0.08622		mg/Kg		86	70 - 130	16	35	
m-Xylene & p-Xylene	0.200	0.1793		mg/Kg		90	70 - 130	19	35	
o-Xylene	0.100	0.09045		mg/Kg		90	70 - 130	19	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

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

Lab Sample ID: MB 880-51796/5-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 08:38	04/24/23 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 08:38	04/24/23 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 08:38	04/24/23 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/24/23 08:38	04/24/23 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/24/23 08:38	04/24/23 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/24/23 08:38	04/24/23 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	04/24/23 08:38	04/24/23 11:49	1
1,4-Difluorobenzene (Surr)	82		70 - 130	04/24/23 08:38	04/24/23 11:49	1

Lab Sample ID: MB 880-51842/5-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 11:53	04/24/23 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/24/23 11:53	04/24/23 23:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/24/23 11:53	04/24/23 23:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	04/24/23 11:53	04/24/23 23:12	1
1,4-Difluorobenzene (Surr)	80		70 - 130	04/24/23 11:53	04/24/23 23:12	1

Lab Sample ID: LCS 880-51842/1-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07865		mg/Kg		79	70 - 130
Toluene	0.100	0.08718		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08717		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1841		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09410		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-51842/2-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51842

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08353		mg/Kg		84	70 - 130	6	35

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

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

Lab Sample ID: LCSD 880-51842/2-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51842

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09106		mg/Kg		91	70 - 130	4	35
Ethylbenzene	0.100	0.08957		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1885		mg/Kg		94	70 - 130	2	35
o-Xylene	0.100	0.09665		mg/Kg		97	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-51717/1-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51717

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		04/21/23 13:53	04/22/23 09:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 09:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:53	04/22/23 09:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	04/21/23 13:53	04/22/23 09:07	1
o-Terphenyl	158	S1+	70 - 130	04/21/23 13:53	04/22/23 09:07	1

Lab Sample ID: LCS 880-51717/2-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	819.8		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	806.0		mg/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-51717/3-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51717

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	895.3		mg/Kg		90	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	680.2	*-	mg/Kg		68	70 - 130	17	20

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

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

Lab Sample ID: LCSD 880-51717/3-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51717

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-4553-1 MS

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: TT-1 0-1'

Prep Type: Total/NA

Prep Batch: 51717

	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	1000	1074		mg/Kg		105	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U *- F2	1000	1141		mg/Kg		112	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	132	S1+	70 - 130							
o-Terphenyl	125		70 - 130							

Lab Sample ID: 890-4553-1 MSD

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: TT-1 0-1'

Prep Type: Total/NA

Prep Batch: 51717

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	878.3		mg/Kg		86	70 - 130	20	20	
Diesel Range Organics (Over C10-C28)	<50.0	U *- F2	998	813.8	F2	mg/Kg		80	70 - 130	33	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	94		70 - 130									
o-Terphenyl	92		70 - 130									

Lab Sample ID: MB 880-51719/1-A

Matrix: Solid

Analysis Batch: 51662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51719

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/21/23 13:59	04/21/23 19:51	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/21/23 13:59	04/21/23 19:51	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/23 13:59	04/21/23 19:51	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
1-Chlorooctane	137	S1+	70 - 130				04/21/23 13:59	04/21/23 19:51	1		
o-Terphenyl	169	S1+	70 - 130				04/21/23 13:59	04/21/23 19:51	1		

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

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

Lab Sample ID: LCS 880-51719/2-A

Matrix: Solid

Analysis Batch: 51662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51719

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	866.8		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	909.4		mg/Kg		91	70 - 130		

Lab Sample ID: LCSD 880-51719/3-A

Matrix: Solid

Analysis Batch: 51662

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51719

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1010		mg/Kg		101	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	941.5		mg/Kg		94	70 - 130	3	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	114		70 - 130								
o-Terphenyl	131	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51904/1-A

Matrix: Solid

Analysis Batch: 52044

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			04/26/23 12:03	1

Lab Sample ID: LCS 880-51904/2-A

Matrix: Solid

Analysis Batch: 52044

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	239.6		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-51904/3-A

Matrix: Solid

Analysis Batch: 52044

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	246.4		mg/Kg		99	90 - 110	3	20

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4553-21 MS

Matrix: Solid

Analysis Batch: 52044

Client Sample ID: H-2 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	61.1		251	329.3		mg/Kg		107	90 - 110		

Lab Sample ID: 890-4553-21 MSD

Matrix: Solid

Analysis Batch: 52044

Client Sample ID: H-2 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61.1		251	329.7		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-51906/1-A

Matrix: Solid

Analysis Batch: 52116

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			04/27/23 19:44	1

Lab Sample ID: LCS 880-51906/2-A

Matrix: Solid

Analysis Batch: 52116

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	274.6		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-51906/3-A

Matrix: Solid

Analysis Batch: 52116

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	270.5		mg/Kg		108	90 - 110	2	20

Lab Sample ID: 890-4553-1 MS

Matrix: Solid

Analysis Batch: 52116

Client Sample ID: TT-1 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	5020	F1	2510	6800	F1	mg/Kg		71	90 - 110		

Lab Sample ID: 890-4553-1 MSD

Matrix: Solid

Analysis Batch: 52116

Client Sample ID: TT-1 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5020	F1	2510	6721	F1	mg/Kg		68	90 - 110	1	20

Lab Sample ID: 890-4553-11 MS

Matrix: Solid

Analysis Batch: 52116

Client Sample ID: TT-4 0-1'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1320		1260	2526		mg/Kg		96	90 - 110		

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4553-11 MSD						Client Sample ID: TT-4 0-1'						
Matrix: Solid						Prep Type: Soluble						
Analysis Batch: 52116												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	1320		1260	2490		mg/Kg		93	90 - 110	1	20	

QC Association Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

GC VOA

Prep Batch: 51617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51617/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 51663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-21	H-2 0-1'	Total/NA	Solid	8021B	51716
890-4553-22	H-3 0-1'	Total/NA	Solid	8021B	51716
MB 880-51617/5-A	Method Blank	Total/NA	Solid	8021B	51617
MB 880-51716/5-A	Method Blank	Total/NA	Solid	8021B	51716
LCS 880-51716/1-A	Lab Control Sample	Total/NA	Solid	8021B	51716
LCSD 880-51716/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51716

Prep Batch: 51697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-23	H-4 0-1'	Total/NA	Solid	5035	
MB 880-51697/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51697/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51697/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 51701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51701/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 51702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-1	TT-1 0-1'	Total/NA	Solid	5035	
890-4553-2	TT-1 2'	Total/NA	Solid	5035	
890-4553-3	TT-1 3'	Total/NA	Solid	5035	
890-4553-4	TT-1 4'	Total/NA	Solid	5035	
890-4553-5	TT-2 0-1	Total/NA	Solid	5035	
890-4553-6	TT-2 2'	Total/NA	Solid	5035	
890-4553-7	TT-2 3'	Total/NA	Solid	5035	
890-4553-8	TT-2 4'	Total/NA	Solid	5035	
890-4553-9	TT-3 0-1	Total/NA	Solid	5035	
890-4553-10	TT-3 2'R	Total/NA	Solid	5035	
890-4553-11	TT-4 0-1'	Total/NA	Solid	5035	
890-4553-12	TT-4 2'	Total/NA	Solid	5035	
890-4553-14	TT-4 4'	Total/NA	Solid	5035	
890-4553-15	TT-5 0-1'	Total/NA	Solid	5035	
890-4553-16	TT-5 2'	Total/NA	Solid	5035	
890-4553-17	TT-5 3'R	Total/NA	Solid	5035	
890-4553-18	TT-6 0-1'	Total/NA	Solid	5035	
890-4553-19	TT-6 2'	Total/NA	Solid	5035	
890-4553-20	H-1 0-1'	Total/NA	Solid	5035	
MB 880-51702/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51702/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51702/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4553-1 MS	TT-1 0-1'	Total/NA	Solid	5035	
890-4553-1 MSD	TT-1 0-1'	Total/NA	Solid	5035	

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QC Association Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

GC VOA

Analysis Batch: 51713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-1	TT-1 0-1'	Total/NA	Solid	8021B	51702
890-4553-2	TT-1 2'	Total/NA	Solid	8021B	51702
890-4553-3	TT-1 3'	Total/NA	Solid	8021B	51702
890-4553-4	TT-1 4'	Total/NA	Solid	8021B	51702
890-4553-5	TT-2 0-1	Total/NA	Solid	8021B	51702
890-4553-6	TT-2 2'	Total/NA	Solid	8021B	51702
890-4553-7	TT-2 3'	Total/NA	Solid	8021B	51702
890-4553-8	TT-2 4'	Total/NA	Solid	8021B	51702
890-4553-9	TT-3 0-1	Total/NA	Solid	8021B	51702
890-4553-10	TT-3 2'R	Total/NA	Solid	8021B	51702
890-4553-11	TT-4 0-1'	Total/NA	Solid	8021B	51702
890-4553-12	TT-4 2'	Total/NA	Solid	8021B	51702
890-4553-14	TT-4 4'	Total/NA	Solid	8021B	51702
890-4553-15	TT-5 0-1'	Total/NA	Solid	8021B	51702
890-4553-16	TT-5 2'	Total/NA	Solid	8021B	51702
890-4553-17	TT-5 3'R	Total/NA	Solid	8021B	51702
890-4553-18	TT-6 0-1'	Total/NA	Solid	8021B	51702
890-4553-19	TT-6 2'	Total/NA	Solid	8021B	51702
890-4553-20	H-1 0-1'	Total/NA	Solid	8021B	51702
MB 880-51701/5-A	Method Blank	Total/NA	Solid	8021B	51701
MB 880-51702/5-A	Method Blank	Total/NA	Solid	8021B	51702
LCS 880-51702/1-A	Lab Control Sample	Total/NA	Solid	8021B	51702
LCSD 880-51702/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51702
890-4553-1 MS	TT-1 0-1'	Total/NA	Solid	8021B	51702
890-4553-1 MSD	TT-1 0-1'	Total/NA	Solid	8021B	51702

Prep Batch: 51716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-21	H-2 0-1'	Total/NA	Solid	5035	
890-4553-22	H-3 0-1'	Total/NA	Solid	5035	
MB 880-51716/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51716/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51716/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 51793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-13	TT-4 3'	Total/NA	Solid	8021B	51842
MB 880-51796/5-A	Method Blank	Total/NA	Solid	8021B	51796
MB 880-51842/5-A	Method Blank	Total/NA	Solid	8021B	51842
LCS 880-51842/1-A	Lab Control Sample	Total/NA	Solid	8021B	51842
LCSD 880-51842/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51842

Prep Batch: 51796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51796/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 51842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-13	TT-4 3'	Total/NA	Solid	5035	
MB 880-51842/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51842/1-A	Lab Control Sample	Total/NA	Solid	5035	

Eurofins Carlsbad

QC Association Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

GC VOA (Continued)

Prep Batch: 51842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-51842/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 51871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-1	TT-1 0-1'	Total/NA	Solid	Total BTEX	
890-4553-2	TT-1 2'	Total/NA	Solid	Total BTEX	
890-4553-3	TT-1 3'	Total/NA	Solid	Total BTEX	
890-4553-4	TT-1 4'	Total/NA	Solid	Total BTEX	
890-4553-5	TT-2 0-1	Total/NA	Solid	Total BTEX	
890-4553-6	TT-2 2'	Total/NA	Solid	Total BTEX	
890-4553-7	TT-2 3'	Total/NA	Solid	Total BTEX	
890-4553-8	TT-2 4'	Total/NA	Solid	Total BTEX	
890-4553-9	TT-3 0-1	Total/NA	Solid	Total BTEX	
890-4553-10	TT-3 2'R	Total/NA	Solid	Total BTEX	
890-4553-11	TT-4 0-1'	Total/NA	Solid	Total BTEX	
890-4553-12	TT-4 2'	Total/NA	Solid	Total BTEX	
890-4553-13	TT-4 3'	Total/NA	Solid	Total BTEX	
890-4553-14	TT-4 4'	Total/NA	Solid	Total BTEX	
890-4553-15	TT-5 0-1'	Total/NA	Solid	Total BTEX	
890-4553-16	TT-5 2'	Total/NA	Solid	Total BTEX	
890-4553-17	TT-5 3'R	Total/NA	Solid	Total BTEX	
890-4553-18	TT-6 0-1'	Total/NA	Solid	Total BTEX	
890-4553-19	TT-6 2'	Total/NA	Solid	Total BTEX	
890-4553-20	H-1 0-1'	Total/NA	Solid	Total BTEX	
890-4553-21	H-2 0-1'	Total/NA	Solid	Total BTEX	
890-4553-22	H-3 0-1'	Total/NA	Solid	Total BTEX	
890-4553-23	H-4 0-1'	Total/NA	Solid	Total BTEX	

Analysis Batch: 51920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-23	H-4 0-1'	Total/NA	Solid	8021B	51697
MB 880-51697/5-A	Method Blank	Total/NA	Solid	8021B	51697
LCS 880-51697/1-A	Lab Control Sample	Total/NA	Solid	8021B	51697
LCSD 880-51697/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51697

GC Semi VOA

Analysis Batch: 51662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-21	H-2 0-1'	Total/NA	Solid	8015B NM	51719
890-4553-22	H-3 0-1'	Total/NA	Solid	8015B NM	51719
890-4553-23	H-4 0-1'	Total/NA	Solid	8015B NM	51719
MB 880-51719/1-A	Method Blank	Total/NA	Solid	8015B NM	51719
LCS 880-51719/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51719
LCSD 880-51719/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51719

Prep Batch: 51717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-1	TT-1 0-1'	Total/NA	Solid	8015NM Prep	
890-4553-2	TT-1 2'	Total/NA	Solid	8015NM Prep	
890-4553-3	TT-1 3'	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

GC Semi VOA (Continued)

Prep Batch: 51717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-4	TT-1 4'	Total/NA	Solid	8015NM Prep	
890-4553-5	TT-2 0-1	Total/NA	Solid	8015NM Prep	
890-4553-6	TT-2 2'	Total/NA	Solid	8015NM Prep	
890-4553-7	TT-2 3'	Total/NA	Solid	8015NM Prep	
890-4553-8	TT-2 4'	Total/NA	Solid	8015NM Prep	
890-4553-9	TT-3 0-1	Total/NA	Solid	8015NM Prep	
890-4553-10	TT-3 2'R	Total/NA	Solid	8015NM Prep	
890-4553-11	TT-4 0-1'	Total/NA	Solid	8015NM Prep	
890-4553-12	TT-4 2'	Total/NA	Solid	8015NM Prep	
890-4553-13	TT-4 3'	Total/NA	Solid	8015NM Prep	
890-4553-14	TT-4 4'	Total/NA	Solid	8015NM Prep	
890-4553-15	TT-5 0-1'	Total/NA	Solid	8015NM Prep	
890-4553-16	TT-5 2'	Total/NA	Solid	8015NM Prep	
890-4553-17	TT-5 3'R	Total/NA	Solid	8015NM Prep	
890-4553-18	TT-6 0-1'	Total/NA	Solid	8015NM Prep	
890-4553-19	TT-6 2'	Total/NA	Solid	8015NM Prep	
890-4553-20	H-1 0-1'	Total/NA	Solid	8015NM Prep	
MB 880-51717/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51717/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4553-1 MS	TT-1 0-1'	Total/NA	Solid	8015NM Prep	
890-4553-1 MSD	TT-1 0-1'	Total/NA	Solid	8015NM Prep	

Prep Batch: 51719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-21	H-2 0-1'	Total/NA	Solid	8015NM Prep	
890-4553-22	H-3 0-1'	Total/NA	Solid	8015NM Prep	
890-4553-23	H-4 0-1'	Total/NA	Solid	8015NM Prep	
MB 880-51719/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51719/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51719/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-1	TT-1 0-1'	Total/NA	Solid	8015B NM	51717
890-4553-2	TT-1 2'	Total/NA	Solid	8015B NM	51717
890-4553-3	TT-1 3'	Total/NA	Solid	8015B NM	51717
890-4553-4	TT-1 4'	Total/NA	Solid	8015B NM	51717
890-4553-5	TT-2 0-1	Total/NA	Solid	8015B NM	51717
890-4553-6	TT-2 2'	Total/NA	Solid	8015B NM	51717
890-4553-7	TT-2 3'	Total/NA	Solid	8015B NM	51717
890-4553-8	TT-2 4'	Total/NA	Solid	8015B NM	51717
890-4553-9	TT-3 0-1	Total/NA	Solid	8015B NM	51717
890-4553-10	TT-3 2'R	Total/NA	Solid	8015B NM	51717
890-4553-11	TT-4 0-1'	Total/NA	Solid	8015B NM	51717
890-4553-12	TT-4 2'	Total/NA	Solid	8015B NM	51717
890-4553-13	TT-4 3'	Total/NA	Solid	8015B NM	51717
890-4553-14	TT-4 4'	Total/NA	Solid	8015B NM	51717
890-4553-15	TT-5 0-1'	Total/NA	Solid	8015B NM	51717
890-4553-16	TT-5 2'	Total/NA	Solid	8015B NM	51717
890-4553-17	TT-5 3'R	Total/NA	Solid	8015B NM	51717

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QC Association Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

GC Semi VOA (Continued)

Analysis Batch: 51776 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-18	TT-6 0-1'	Total/NA	Solid	8015B NM	51717
890-4553-19	TT-6 2'	Total/NA	Solid	8015B NM	51717
890-4553-20	H-1 0-1'	Total/NA	Solid	8015B NM	51717
MB 880-51717/1-A	Method Blank	Total/NA	Solid	8015B NM	51717
LCS 880-51717/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51717
LCSD 880-51717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51717
890-4553-1 MS	TT-1 0-1'	Total/NA	Solid	8015B NM	51717
890-4553-1 MSD	TT-1 0-1'	Total/NA	Solid	8015B NM	51717

Analysis Batch: 51843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-1	TT-1 0-1'	Total/NA	Solid	8015 NM	
890-4553-2	TT-1 2'	Total/NA	Solid	8015 NM	
890-4553-3	TT-1 3'	Total/NA	Solid	8015 NM	
890-4553-4	TT-1 4'	Total/NA	Solid	8015 NM	
890-4553-5	TT-2 0-1	Total/NA	Solid	8015 NM	
890-4553-6	TT-2 2'	Total/NA	Solid	8015 NM	
890-4553-7	TT-2 3'	Total/NA	Solid	8015 NM	
890-4553-8	TT-2 4'	Total/NA	Solid	8015 NM	
890-4553-9	TT-3 0-1	Total/NA	Solid	8015 NM	
890-4553-10	TT-3 2'R	Total/NA	Solid	8015 NM	
890-4553-11	TT-4 0-1'	Total/NA	Solid	8015 NM	
890-4553-12	TT-4 2'	Total/NA	Solid	8015 NM	
890-4553-13	TT-4 3'	Total/NA	Solid	8015 NM	
890-4553-14	TT-4 4'	Total/NA	Solid	8015 NM	
890-4553-15	TT-5 0-1'	Total/NA	Solid	8015 NM	
890-4553-16	TT-5 2'	Total/NA	Solid	8015 NM	
890-4553-17	TT-5 3'R	Total/NA	Solid	8015 NM	
890-4553-18	TT-6 0-1'	Total/NA	Solid	8015 NM	
890-4553-19	TT-6 2'	Total/NA	Solid	8015 NM	
890-4553-20	H-1 0-1'	Total/NA	Solid	8015 NM	
890-4553-21	H-2 0-1'	Total/NA	Solid	8015 NM	
890-4553-22	H-3 0-1'	Total/NA	Solid	8015 NM	
890-4553-23	H-4 0-1'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 51904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-21	H-2 0-1'	Soluble	Solid	DI Leach	
890-4553-22	H-3 0-1'	Soluble	Solid	DI Leach	
890-4553-23	H-4 0-1'	Soluble	Solid	DI Leach	
MB 880-51904/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51904/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51904/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4553-21 MS	H-2 0-1'	Soluble	Solid	DI Leach	
890-4553-21 MSD	H-2 0-1'	Soluble	Solid	DI Leach	

Leach Batch: 51906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-1	TT-1 0-1'	Soluble	Solid	DI Leach	

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QC Association Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

HPLC/IC (Continued)

Leach Batch: 51906 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-2	TT-1 2'	Soluble	Solid	DI Leach	
890-4553-3	TT-1 3'	Soluble	Solid	DI Leach	
890-4553-4	TT-1 4'	Soluble	Solid	DI Leach	
890-4553-5	TT-2 0-1	Soluble	Solid	DI Leach	
890-4553-6	TT-2 2'	Soluble	Solid	DI Leach	
890-4553-7	TT-2 3'	Soluble	Solid	DI Leach	
890-4553-8	TT-2 4'	Soluble	Solid	DI Leach	
890-4553-9	TT-3 0-1	Soluble	Solid	DI Leach	
890-4553-10	TT-3 2'R	Soluble	Solid	DI Leach	
890-4553-11	TT-4 0-1'	Soluble	Solid	DI Leach	
890-4553-12	TT-4 2'	Soluble	Solid	DI Leach	
890-4553-13	TT-4 3'	Soluble	Solid	DI Leach	
890-4553-14	TT-4 4'	Soluble	Solid	DI Leach	
890-4553-15	TT-5 0-1'	Soluble	Solid	DI Leach	
890-4553-16	TT-5 2'	Soluble	Solid	DI Leach	
890-4553-17	TT-5 3'R	Soluble	Solid	DI Leach	
890-4553-18	TT-6 0-1'	Soluble	Solid	DI Leach	
890-4553-19	TT-6 2'	Soluble	Solid	DI Leach	
890-4553-20	H-1 0-1'	Soluble	Solid	DI Leach	
MB 880-51906/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51906/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51906/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4553-1 MS	TT-1 0-1'	Soluble	Solid	DI Leach	
890-4553-1 MSD	TT-1 0-1'	Soluble	Solid	DI Leach	
890-4553-11 MS	TT-4 0-1'	Soluble	Solid	DI Leach	
890-4553-11 MSD	TT-4 0-1'	Soluble	Solid	DI Leach	

Analysis Batch: 52044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-21	H-2 0-1'	Soluble	Solid	300.0	51904
890-4553-22	H-3 0-1'	Soluble	Solid	300.0	51904
890-4553-23	H-4 0-1'	Soluble	Solid	300.0	51904
MB 880-51904/1-A	Method Blank	Soluble	Solid	300.0	51904
LCS 880-51904/2-A	Lab Control Sample	Soluble	Solid	300.0	51904
LCSD 880-51904/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51904
890-4553-21 MS	H-2 0-1'	Soluble	Solid	300.0	51904
890-4553-21 MSD	H-2 0-1'	Soluble	Solid	300.0	51904

Analysis Batch: 52116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-1	TT-1 0-1'	Soluble	Solid	300.0	51906
890-4553-2	TT-1 2'	Soluble	Solid	300.0	51906
890-4553-3	TT-1 3'	Soluble	Solid	300.0	51906
890-4553-4	TT-1 4'	Soluble	Solid	300.0	51906
890-4553-5	TT-2 0-1	Soluble	Solid	300.0	51906
890-4553-6	TT-2 2'	Soluble	Solid	300.0	51906
890-4553-7	TT-2 3'	Soluble	Solid	300.0	51906
890-4553-8	TT-2 4'	Soluble	Solid	300.0	51906
890-4553-9	TT-3 0-1	Soluble	Solid	300.0	51906
890-4553-10	TT-3 2'R	Soluble	Solid	300.0	51906
890-4553-11	TT-4 0-1'	Soluble	Solid	300.0	51906

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QC Association Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

HPLC/IC (Continued)

Analysis Batch: 52116 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4553-12	TT-4 2'	Soluble	Solid	300.0	51906
890-4553-13	TT-4 3'	Soluble	Solid	300.0	51906
890-4553-14	TT-4 4'	Soluble	Solid	300.0	51906
890-4553-15	TT-5 0-1'	Soluble	Solid	300.0	51906
890-4553-16	TT-5 2'	Soluble	Solid	300.0	51906
890-4553-17	TT-5 3'R	Soluble	Solid	300.0	51906
890-4553-18	TT-6 0-1'	Soluble	Solid	300.0	51906
890-4553-19	TT-6 2'	Soluble	Solid	300.0	51906
890-4553-20	H-1 0-1'	Soluble	Solid	300.0	51906
MB 880-51906/1-A	Method Blank	Soluble	Solid	300.0	51906
LCS 880-51906/2-A	Lab Control Sample	Soluble	Solid	300.0	51906
LCSD 880-51906/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51906
890-4553-1 MS	TT-1 0-1'	Soluble	Solid	300.0	51906
890-4553-1 MSD	TT-1 0-1'	Soluble	Solid	300.0	51906
890-4553-11 MS	TT-4 0-1'	Soluble	Solid	300.0	51906
890-4553-11 MSD	TT-4 0-1'	Soluble	Solid	300.0	51906

Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-1 0-1'
Date Collected: 04/20/23 00:00
Date Received: 04/20/23 12:51

Lab Sample ID: 890-4553-1
Matrix: Solid

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 06:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 11:40	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	52116	04/27/23 19:58	SMC	EET MID

Client Sample ID: TT-1 2'
Date Collected: 04/20/23 00:00
Date Received: 04/20/23 12:51

Lab Sample ID: 890-4553-2
Matrix: Solid

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 06:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 12:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	52116	04/27/23 20:13	SMC	EET MID

Client Sample ID: TT-1 3'
Date Collected: 04/20/23 00:00
Date Received: 04/20/23 12:51

Lab Sample ID: 890-4553-3
Matrix: Solid

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 07:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 13:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 20:18	SMC	EET MID

Client Sample ID: TT-1 4'
Date Collected: 04/20/23 00:00
Date Received: 04/20/23 12:51

Lab Sample ID: 890-4553-4
Matrix: Solid

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 07:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-1 4'

Lab Sample ID: 890-4553-4

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 13:28	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 20:23	SMC	EET MID

Client Sample ID: TT-2 0-1

Lab Sample ID: 890-4553-5

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 08:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 13:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	52116	04/27/23 20:27	SMC	EET MID

Client Sample ID: TT-2 2'

Lab Sample ID: 890-4553-6

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 08:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 14:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	52116	04/27/23 20:42	SMC	EET MID

Client Sample ID: TT-2 3'

Lab Sample ID: 890-4553-7

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 08:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 14:34	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-2 3'

Lab Sample ID: 890-4553-7

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 20:47	SMC	EET MID

Client Sample ID: TT-2 4'

Lab Sample ID: 890-4553-8

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 09:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 14:55	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 20:51	SMC	EET MID

Client Sample ID: TT-3 0-1

Lab Sample ID: 890-4553-9

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 09:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 15:17	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	52116	04/27/23 20:56	SMC	EET MID

Client Sample ID: TT-3 2'R

Lab Sample ID: 890-4553-10

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 10:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 15:39	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 21:01	SMC	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-4 0-1'

Lab Sample ID: 890-4553-11

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 12:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 16:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	52116	04/27/23 21:06	SMC	EET MID

Client Sample ID: TT-4 2'

Lab Sample ID: 890-4553-12

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 12:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 16:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 21:20	SMC	EET MID

Client Sample ID: TT-4 3'

Lab Sample ID: 890-4553-13

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/25/23 01:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/25/23 10:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 17:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 21:25	SMC	EET MID

Client Sample ID: TT-4 4'

Lab Sample ID: 890-4553-14

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 13:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-4 4'

Lab Sample ID: 890-4553-14

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 17:25	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 21:40	SMC	EET MID

Client Sample ID: TT-5 0-1'

Lab Sample ID: 890-4553-15

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 17:46	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	52116	04/27/23 21:45	SMC	EET MID

Client Sample ID: TT-5 2'

Lab Sample ID: 890-4553-16

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 18:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 21:50	SMC	EET MID

Client Sample ID: TT-5 3'R

Lab Sample ID: 890-4553-17

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 18:29	SM	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: TT-5 3'R

Lab Sample ID: 890-4553-17

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 21:54	SMC	EET MID

Client Sample ID: TT-6 0-1'

Lab Sample ID: 890-4553-18

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 15:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 18:51	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 21:59	SMC	EET MID

Client Sample ID: TT-6 2'

Lab Sample ID: 890-4553-19

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 15:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 19:13	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 22:04	SMC	EET MID

Client Sample ID: H-1 0-1'

Lab Sample ID: 890-4553-20

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51702	04/21/23 11:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 16:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51717	04/21/23 13:53	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/22/23 19:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51906	04/25/23 07:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52116	04/27/23 22:09	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Client Sample ID: H-2 0-1'

Lab Sample ID: 890-4553-21

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51716	04/21/23 13:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51663	04/22/23 05:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51719	04/21/23 13:59	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51662	04/22/23 04:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 12:17	SMC	EET MID

Client Sample ID: H-3 0-1'

Lab Sample ID: 890-4553-22

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51716	04/21/23 13:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51663	04/22/23 05:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/24/23 15:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51719	04/21/23 13:59	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51662	04/22/23 04:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 12:31	SMC	EET MID

Client Sample ID: H-4 0-1'

Lab Sample ID: 890-4553-23

Date Collected: 04/20/23 00:00

Matrix: Solid

Date Received: 04/20/23 12:51

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	51697	04/21/23 11:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51920	04/25/23 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51871	04/26/23 09:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51843	04/24/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51719	04/21/23 13:59	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51662	04/22/23 04:55	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 12:35	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: H & R Enterprises
Project/Site: Wersel Fed #001

Job ID: 890-4553-1
SDG: (Wersell 1)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4553-1	TT-1 0-1'	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1
890-4553-2	TT-1 2'	Solid	04/20/23 00:00	04/20/23 12:51	2
890-4553-3	TT-1 3'	Solid	04/20/23 00:00	04/20/23 12:51	3
890-4553-4	TT-1 4'	Solid	04/20/23 00:00	04/20/23 12:51	4
890-4553-5	TT-2 0-1	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1
890-4553-6	TT-2 2'	Solid	04/20/23 00:00	04/20/23 12:51	2
890-4553-7	TT-2 3'	Solid	04/20/23 00:00	04/20/23 12:51	3
890-4553-8	TT-2 4'	Solid	04/20/23 00:00	04/20/23 12:51	4
890-4553-9	TT-3 0-1	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1
890-4553-10	TT-3 2'R	Solid	04/20/23 00:00	04/20/23 12:51	2
890-4553-11	TT-4 0-1'	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1
890-4553-12	TT-4 2'	Solid	04/20/23 00:00	04/20/23 12:51	2
890-4553-13	TT-4 3'	Solid	04/20/23 00:00	04/20/23 12:51	3
890-4553-14	TT-4 4'	Solid	04/20/23 00:00	04/20/23 12:51	4
890-4553-15	TT-5 0-1'	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1
890-4553-16	TT-5 2'	Solid	04/20/23 00:00	04/20/23 12:51	2
890-4553-17	TT-5 3'R	Solid	04/20/23 00:00	04/20/23 12:51	3
890-4553-18	TT-6 0-1'	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1
890-4553-19	TT-6 2'	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1
890-4553-20	H-1 0-1'	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1
890-4553-21	H-2 0-1'	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1
890-4553-22	H-3 0-1'	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1
890-4553-23	H-4 0-1'	Solid	04/20/23 00:00	04/20/23 12:51	0 - 1

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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

**Environment Testing
Xenco**



Work Order No:

www.xenco.com Page 1 of 3

Project Manager: M. COLLIER						Bill to: (if different) CIMAREX ENERGY					
Company Name: HARBENTERPRISES						Company Name:					
Address:						Address:					
City, State ZIP:						City, State ZIP:					
Phone: 575-909-0326						Email:					
Project Name: WERSELL FLD #001						Turn Around Routine ☒ Rush ☐					
Project Number: (WERSELL)						Pres. Code					
Project Location: EDDY COUNTY, NM											
Sampler's Name: M. COLLIER						Due Date:					
P.O.#:						TAT starts the day received by the lab, if received by 4:30pm					
SAMPLE RECEIPT						Temp Blank: Yes No					
Samples Received Intact:						Thermometer ID: TN007					
Cooler Custody Seals:						Correction Factor: -0.2					
Sample Custody Seals:						Temperature Reading: 5.2					
Total Containers:						Corrected Temperature: 5.0					
Sample Identification						# of Cont					
Matrix						Grab/Comp					
Date Sampled						Depth					
Time Sampled											
TT-1 0-1'						0-1' GRAB					
1 2'						2'					
1 3'						3'					
1 4'						4'					
TT-2 0-1'						0-1'					
1 2'						2'					
1 3'						3'					
1 4'						4'					
TT-3 0-1'						0-1'					
1 2'R						2'R					
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 SiO ₂ Na Sr Ti Sn U V Zn					
Circle Method(s) and Metal(s) to be analyzed						TCPL / 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) [Signature]						Received by: (Signature) [Signature]					
Date/Time 4-20-23 10:51						Date/Time					

Chain of Custody



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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 2 of 3

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADaPT ☐ Other: _____

Project Manager: _____ Bill to: (if different) _____

Company Name: _____

Address: _____

City, State ZIP: _____

Phone: _____ Email: _____

Project Information				Turn-Around				Parameters				ANALYSIS REQUEST				Preservative Codes				
Project Name:	Project Number:	Project Location:	PO #:	Temp Blank:	Yes	No	Wet Ice:	Yes	No	Thermometer ID:	Correction Factor:	Temperature Reading:	Corrected Temperature:	Grab/Comp	Depth	Time Sampled	Date Sampled	Matrix	Sample Identification	Sample Comments
SAMPLE RECEIPT																				
Samples Received Intact:																				
Cooler Custody Seals:																				
Sample Custody Seals:																				
Total Containers:																				
TT-4 0-1'																				
1 2'																				
3'																				
4'																				
TT-5 0-1'																				
1 2'																				
3'R																				
TT-6 0-1'																				
1 2'R																				
H-1 0-1'																				

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>[Signature]</i>	<i>[Signature]</i>		2. <i>[Signature]</i>	<i>[Signature]</i>	
3. <i>[Signature]</i>	<i>[Signature]</i>		4. <i>[Signature]</i>	<i>[Signature]</i>	
5. <i>[Signature]</i>	<i>[Signature]</i>		6. <i>[Signature]</i>	<i>[Signature]</i>	

Revised Date: 08/25/2020 Rev. 2020.2



Chain of Custody

Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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 3

Project Manager:	Bill to: (if different)
Company Name:	Company Name:
Address:	Address:
City, State ZIP:	City, State ZIP:
Phone:	Email:

SAMPLE RECEIPT				Turn Around		Parameters		ANALYSIS REQUEST														Preservative Codes											
Project Name:	Project Number:	Project Location:	Sampler's Name:	Temp Blank:	Yes	No	Wet Ice:	Yes	No	Thermometer ID:	Correction Factor:	Temperature Reading:	Corrected Temperature:	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Pres. Code	None: NO	DI Water: H ₂ O	Cool: Cool	MeOH: Me	HCL: HC	HNO ₃ : HN	H ₂ SO ₄ : H ₂	NaOH: Na	H ₃ PO ₄ : HP	NaHSO ₄ : NABIS	Na ₂ S ₂ O ₅ : NaSO ₃	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	
H-2 0-1'				5012										4-20-23		0-1'	6445	1															
H-3 0-1'																																	
H-4 0-1'																																	

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>[Signature]</i>					
3 <i>[Signature]</i>					
5 <i>[Signature]</i>					

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-4553-1

SDG Number: (Wersell 1)

Login Number: 4553

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins 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.	N/A	Refer to Job Narrative for details.
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: H & R Enterprises

Job Number: 890-4553-1

SDG Number: (Wersell 1)

Login Number: 4553

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/21/23 11:08 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	



Environment Testing

- 1
- 2
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ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Collier
H & R Enterprises
5120 W Kansas St
Hobbs, New Mexico 88242

Generated 5/16/2023 4:18:38 PM

JOB DESCRIPTION

Wersell fed #1 (wer)

JOB NUMBER

890-4658-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/16/2023 4:18:38 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Laboratory Job ID: 890-4658-1

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Definitions/Glossary

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.
□	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: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Job ID: 890-4658-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4658-1****Receipt**

The samples were received on 5/12/2023 11:00 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 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (890-4658-1), S-2 (890-4658-2), S-3 (890-4658-3), S-4 (890-4658-4), S-5 (890-4658-5), SW-1 (890-4658-6), SW-2 (890-4658-7), SW-3 (890-4658-8), SW-4 (890-4658-9), SW-5 (890-4658-10), SW-6 (890-4658-11) and SW-7 (890-4658-12).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-53334 recovered above the upper control limit for Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-53384 and analytical batch 880-53334 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-53330/20), (CCV 880-53330/31) and (CCV 880-53330/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53398 and analytical batch 880-53330 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-6 (890-4658-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-53330/47). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: CCV biased low for Diesel Range Organics (Over C10-C28) however an acceptable CCV was ran within the 12 hour window therefore the data has been qualified and reported.(CCV 880-53330/31)

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: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: S-1

Lab Sample ID: 890-4658-1

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198		mg/Kg		05/15/23 13:18	05/16/23 03:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/15/23 13:18	05/16/23 03:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/15/23 13:18	05/16/23 03:40	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/15/23 13:18	05/16/23 03:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/15/23 13:18	05/16/23 03:40	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/15/23 13:18	05/16/23 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/15/23 13:18	05/16/23 03:40	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/15/23 13:18	05/16/23 03:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/16/23 11:21	1

Method: SW846 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		05/15/23 14:27	05/15/23 23:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/15/23 23:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/15/23 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	05/15/23 14:27	05/15/23 23:56	1
o-Terphenyl	124		70 - 130	05/15/23 14:27	05/15/23 23:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.8		4.95		mg/Kg			05/16/23 06:01	1

Client Sample ID: S-2

Lab Sample ID: 890-4658-2

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		05/15/23 13:18	05/16/23 04:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:18	05/16/23 04:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:18	05/16/23 04:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/15/23 13:18	05/16/23 04:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:18	05/16/23 04:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/15/23 13:18	05/16/23 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/15/23 13:18	05/16/23 04:00	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: S-2

Lab Sample ID: 890-4658-2

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	05/15/23 13:18	05/16/23 04:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/16/23 11:21	1

Method: SW846 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		05/15/23 14:27	05/16/23 00:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/16/23 00:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/16/23 00:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/15/23 14:27	05/16/23 00:16	1
o-Terphenyl	122		70 - 130				05/15/23 14:27	05/16/23 00:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.2		4.96		mg/Kg			05/16/23 06:06	1

Client Sample ID: S-3

Lab Sample ID: 890-4658-3

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *	0.00202		mg/Kg		05/15/23 13:18	05/16/23 04:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/15/23 13:18	05/16/23 04:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/15/23 13:18	05/16/23 04:20	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/15/23 13:18	05/16/23 04:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/15/23 13:18	05/16/23 04:20	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/15/23 13:18	05/16/23 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	05/15/23 13:18	05/16/23 04:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/15/23 13:18	05/16/23 04:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/16/23 11:21	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: S-3

Lab Sample ID: 890-4658-3

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: SW846 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		05/15/23 14:27	05/16/23 00:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/16/23 00:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/16/23 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/15/23 14:27	05/16/23 00:36	1
o-Terphenyl	127		70 - 130				05/15/23 14:27	05/16/23 00:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.5		4.98		mg/Kg			05/16/23 06:49	1

Client Sample ID: S-4

Lab Sample ID: 890-4658-4

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *	0.00201		mg/Kg		05/15/23 13:18	05/16/23 04:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/15/23 13:18	05/16/23 04:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/15/23 13:18	05/16/23 04:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/15/23 13:18	05/16/23 04:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/15/23 13:18	05/16/23 04:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/15/23 13:18	05/16/23 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/15/23 13:18	05/16/23 04:41	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/15/23 13:18	05/16/23 04:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/16/23 11:21	1

Method: SW846 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		05/15/23 14:27	05/16/23 00:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/23 14:27	05/16/23 00:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/23 14:27	05/16/23 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/15/23 14:27	05/16/23 00:57	1
o-Terphenyl	129		70 - 130				05/15/23 14:27	05/16/23 00:57	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: S-4

Lab Sample ID: 890-4658-4

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.8		5.02		mg/Kg			05/16/23 07:05	1

Client Sample ID: S-5

Lab Sample ID: 890-4658-5

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		05/15/23 13:18	05/16/23 05:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/15/23 13:18	05/16/23 05:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/15/23 13:18	05/16/23 05:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/15/23 13:18	05/16/23 05:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/15/23 13:18	05/16/23 05:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/15/23 13:18	05/16/23 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				05/15/23 13:18	05/16/23 05:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130				05/15/23 13:18	05/16/23 05:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/16/23 11:21	1

Method: SW846 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		05/15/23 14:27	05/16/23 01:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/23 14:27	05/16/23 01:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/23 14:27	05/16/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				05/15/23 14:27	05/16/23 01:37	1
o-Terphenyl	122		70 - 130				05/15/23 14:27	05/16/23 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.3		5.03		mg/Kg			05/16/23 07:10	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: SW-1

Lab Sample ID: 890-4658-6

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		05/15/23 13:18	05/16/23 05:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/15/23 13:18	05/16/23 05:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/15/23 13:18	05/16/23 05:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/15/23 13:18	05/16/23 05:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/15/23 13:18	05/16/23 05:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/15/23 13:18	05/16/23 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/15/23 13:18	05/16/23 05:22	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/15/23 13:18	05/16/23 05:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/16/23 11:21	1

Method: SW846 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		05/15/23 14:27	05/16/23 01:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/23 14:27	05/16/23 01:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/23 14:27	05/16/23 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	05/15/23 14:27	05/16/23 01:58	1
o-Terphenyl	122		70 - 130	05/15/23 14:27	05/16/23 01:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.7		5.00		mg/Kg			05/16/23 07:15	1

Client Sample ID: SW-2

Lab Sample ID: 890-4658-7

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198		mg/Kg		05/15/23 13:18	05/16/23 05:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/15/23 13:18	05/16/23 05:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/15/23 13:18	05/16/23 05:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/15/23 13:18	05/16/23 05:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/15/23 13:18	05/16/23 05:42	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/15/23 13:18	05/16/23 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/15/23 13:18	05/16/23 05:42	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: SW-2

Lab Sample ID: 890-4658-7

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	05/15/23 13:18	05/16/23 05:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/16/23 11:21	1

Method: SW846 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		05/15/23 14:27	05/16/23 02:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/23 14:27	05/16/23 02:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/23 14:27	05/16/23 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/15/23 14:27	05/16/23 02:18	1
o-Terphenyl	127		70 - 130				05/15/23 14:27	05/16/23 02:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.0		4.99		mg/Kg			05/16/23 07:21	1

Client Sample ID: SW-3

Lab Sample ID: 890-4658-8

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *	0.00198		mg/Kg		05/15/23 13:18	05/16/23 06:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/15/23 13:18	05/16/23 06:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/15/23 13:18	05/16/23 06:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/15/23 13:18	05/16/23 06:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/15/23 13:18	05/16/23 06:02	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/15/23 13:18	05/16/23 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	05/15/23 13:18	05/16/23 06:02	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/15/23 13:18	05/16/23 06:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/16/23 11:21	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: SW-3

Lab Sample ID: 890-4658-8

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 3

Method: SW846 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		05/15/23 14:27	05/16/23 02:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/16/23 02:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/16/23 02:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/15/23 14:27	05/16/23 02:39	1
o-Terphenyl	129		70 - 130				05/15/23 14:27	05/16/23 02:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.1		4.97		mg/Kg			05/16/23 07:37	1

Client Sample ID: SW-4

Lab Sample ID: 890-4658-9

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00222	+	0.00202		mg/Kg		05/15/23 13:18	05/16/23 09:39	1
Toluene	0.0114		0.00202		mg/Kg		05/15/23 13:18	05/16/23 09:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/15/23 13:18	05/16/23 09:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/15/23 13:18	05/16/23 09:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/15/23 13:18	05/16/23 09:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/15/23 13:18	05/16/23 09:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				05/15/23 13:18	05/16/23 09:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/15/23 13:18	05/16/23 09:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0136		0.00404		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/16/23 11:21	1

Method: SW846 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		05/15/23 14:27	05/16/23 02:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/23 14:27	05/16/23 02:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/23 14:27	05/16/23 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/15/23 14:27	05/16/23 02:59	1
o-Terphenyl	120		70 - 130				05/15/23 14:27	05/16/23 02:59	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: SW-4

Lab Sample ID: 890-4658-9

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.8		5.03		mg/Kg			05/16/23 07:42	1

Client Sample ID: SW-5

Lab Sample ID: 890-4658-10

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00241	*+	0.00201		mg/Kg		05/15/23 13:18	05/16/23 09:59	1
Toluene	0.0161		0.00201		mg/Kg		05/15/23 13:18	05/16/23 09:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/15/23 13:18	05/16/23 09:59	1
m-Xylene & p-Xylene	0.00469		0.00402		mg/Kg		05/15/23 13:18	05/16/23 09:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/15/23 13:18	05/16/23 09:59	1
Xylenes, Total	0.00469		0.00402		mg/Kg		05/15/23 13:18	05/16/23 09:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				05/15/23 13:18	05/16/23 09:59	1
1,4-Difluorobenzene (Surr)	96		70 - 130				05/15/23 13:18	05/16/23 09:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0232		0.00402		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/16/23 11:21	1

Method: SW846 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		05/15/23 14:27	05/16/23 03:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/16/23 03:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/16/23 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/15/23 14:27	05/16/23 03:20	1
o-Terphenyl	125		70 - 130				05/15/23 14:27	05/16/23 03:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.7		5.02		mg/Kg			05/16/23 07:47	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: SW-6

Lab Sample ID: 890-4658-11

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00326	++	0.00200		mg/Kg		05/15/23 13:18	05/16/23 10:19	1
Toluene	0.0165		0.00200		mg/Kg		05/15/23 13:18	05/16/23 10:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:18	05/16/23 10:19	1
m-Xylene & p-Xylene	0.00496		0.00401		mg/Kg		05/15/23 13:18	05/16/23 10:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:18	05/16/23 10:19	1
Xylenes, Total	0.00496		0.00401		mg/Kg		05/15/23 13:18	05/16/23 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/15/23 13:18	05/16/23 10:19	1
1,4-Difluorobenzene (Surr)	104		70 - 130	05/15/23 13:18	05/16/23 10:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0247		0.00401		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/16/23 11:21	1

Method: SW846 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		05/15/23 14:27	05/16/23 03:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/16/23 03:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/23 14:27	05/16/23 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	05/15/23 14:27	05/16/23 03:41	1
o-Terphenyl	149	S1+	70 - 130	05/15/23 14:27	05/16/23 03:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.5		5.00		mg/Kg			05/16/23 07:53	1

Client Sample ID: SW-7

Lab Sample ID: 890-4658-12

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U ++	0.00199		mg/Kg		05/15/23 13:18	05/16/23 10:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/15/23 13:18	05/16/23 10:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/15/23 13:18	05/16/23 10:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/15/23 13:18	05/16/23 10:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/15/23 13:18	05/16/23 10:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/15/23 13:18	05/16/23 10:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/15/23 13:18	05/16/23 10:40	1

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Client Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: SW-7

Lab Sample ID: 890-4658-12

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	05/15/23 13:18	05/16/23 10:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/16/23 16:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/16/23 11:21	1

Method: SW846 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		05/15/23 14:27	05/16/23 04:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/23 14:27	05/16/23 04:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/23 14:27	05/16/23 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				05/15/23 14:27	05/16/23 04:01	1
o-Terphenyl	124		70 - 130				05/15/23 14:27	05/16/23 04:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.9		5.00		mg/Kg			05/16/23 07:58	1

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Surrogate Summary

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4658-1	S-1	98	91
890-4658-2	S-2	94	95
890-4658-3	S-3	114	92
890-4658-4	S-4	105	90
890-4658-5	S-5	104	88
890-4658-6	SW-1	100	99
890-4658-7	SW-2	103	95
890-4658-8	SW-3	93	91
890-4658-9	SW-4	95	100
890-4658-10	SW-5	95	96
890-4658-11	SW-6	98	104
890-4658-12	SW-7	101	89
LCS 880-53384/1-A	Lab Control Sample	98	110
LCSD 880-53384/2-A	Lab Control Sample Dup	94	124
MB 880-53272/5-A	Method Blank	93	103
MB 880-53384/5-A	Method Blank	93	103
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)
890-4658-1	S-1	105	124
890-4658-2	S-2	103	122
890-4658-3	S-3	106	127
890-4658-4	S-4	107	129
890-4658-5	S-5	104	122
890-4658-6	SW-1	105	122
890-4658-7	SW-2	109	127
890-4658-8	SW-3	109	129
890-4658-9	SW-4	103	120
890-4658-10	SW-5	109	125
890-4658-11	SW-6	133 S1+	149 S1+
890-4658-12	SW-7	109	124
LCS 880-53398/2-A	Lab Control Sample	106	119
LCSD 880-53398/3-A	Lab Control Sample Dup	103	113
MB 880-53398/1-A	Method Blank	154 S1+	186 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-53272/5-A

Matrix: Solid

Analysis Batch: 53334

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/12/23 14:20	05/15/23 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/12/23 14:20	05/15/23 14:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/12/23 14:20	05/15/23 14:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/12/23 14:20	05/15/23 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/12/23 14:20	05/15/23 14:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/12/23 14:20	05/15/23 14:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	05/12/23 14:20	05/15/23 14:53	1
1,4-Difluorobenzene (Surr)	103		70 - 130	05/12/23 14:20	05/15/23 14:53	1

Lab Sample ID: MB 880-53384/5-A

Matrix: Solid

Analysis Batch: 53334

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:18	05/16/23 02:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:18	05/16/23 02:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:18	05/16/23 02:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/15/23 13:18	05/16/23 02:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/15/23 13:18	05/16/23 02:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/15/23 13:18	05/16/23 02:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	05/15/23 13:18	05/16/23 02:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130	05/15/23 13:18	05/16/23 02:30	1

Lab Sample ID: LCS 880-53384/1-A

Matrix: Solid

Analysis Batch: 53334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1414	*+	mg/Kg		141	70 - 130
Toluene	0.100	0.1258		mg/Kg		126	70 - 130
Ethylbenzene	0.100	0.1281		mg/Kg		128	70 - 130
m-Xylene & p-Xylene	0.200	0.1982		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09338		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-53384/2-A

Matrix: Solid

Analysis Batch: 53334

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53384

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1266		mg/Kg		127	70 - 130	11	35

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

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

Lab Sample ID: LCSD 880-53384/2-A

Matrix: Solid

Analysis Batch: 53334

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53384

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1149		mg/Kg		115	70 - 130	9	35
Ethylbenzene	0.100	0.1209		mg/Kg		121	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1872		mg/Kg		94	70 - 130	6	35
o-Xylene	0.100	0.08749		mg/Kg		87	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

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

Lab Sample ID: MB 880-53398/1-A

Matrix: Solid

Analysis Batch: 53330

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53398

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		05/15/23 14:27	05/15/23 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/23 14:27	05/15/23 20:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/23 14:27	05/15/23 20:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130	05/15/23 14:27	05/15/23 20:04	1
o-Terphenyl	186	S1+	70 - 130	05/15/23 14:27	05/15/23 20:04	1

Lab Sample ID: LCS 880-53398/2-A

Matrix: Solid

Analysis Batch: 53330

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	909.0		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	935.5		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-53398/3-A

Matrix: Solid

Analysis Batch: 53330

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53398

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	930.3		mg/Kg		93	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	952.7		mg/Kg		95	70 - 130	2	20

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

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

Lab Sample ID: LCSD 880-53398/3-A

Matrix: Solid

Analysis Batch: 53330

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53398

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	113		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53358/1-A

Matrix: Solid

Analysis Batch: 53409

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			05/16/23 03:26	1	

Lab Sample ID: LCS 880-53358/2-A

Matrix: Solid

Analysis Batch: 53409

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	256.5		mg/Kg		103	90 - 110	

Lab Sample ID: LCSD 880-53358/3-A

Matrix: Solid

Analysis Batch: 53409

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	257.0		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-53359/1-A

Matrix: Solid

Analysis Batch: 53414

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			05/16/23 06:33	1	

Lab Sample ID: LCS 880-53359/2-A

Matrix: Solid

Analysis Batch: 53414

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	257.6		mg/Kg		103	90 - 110	

Lab Sample ID: LCSD 880-53359/3-A

Matrix: Solid

Analysis Batch: 53414

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	259.0		mg/Kg		104	90 - 110	1	20

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QC Sample Results

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4658-3 MS

Matrix: Solid

Analysis Batch: 53414

Client Sample ID: S-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	73.5		249	320.9		mg/Kg		99	90 - 110		

Lab Sample ID: 890-4658-3 MSD

Matrix: Solid

Analysis Batch: 53414

Client Sample ID: S-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	73.5		249	324.0		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

GC VOA

Prep Batch: 53272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53272/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 53334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-1	S-1	Total/NA	Solid	8021B	53384
890-4658-2	S-2	Total/NA	Solid	8021B	53384
890-4658-3	S-3	Total/NA	Solid	8021B	53384
890-4658-4	S-4	Total/NA	Solid	8021B	53384
890-4658-5	S-5	Total/NA	Solid	8021B	53384
890-4658-6	SW-1	Total/NA	Solid	8021B	53384
890-4658-7	SW-2	Total/NA	Solid	8021B	53384
890-4658-8	SW-3	Total/NA	Solid	8021B	53384
890-4658-9	SW-4	Total/NA	Solid	8021B	53384
890-4658-10	SW-5	Total/NA	Solid	8021B	53384
890-4658-11	SW-6	Total/NA	Solid	8021B	53384
890-4658-12	SW-7	Total/NA	Solid	8021B	53384
MB 880-53272/5-A	Method Blank	Total/NA	Solid	8021B	53272
MB 880-53384/5-A	Method Blank	Total/NA	Solid	8021B	53384
LCS 880-53384/1-A	Lab Control Sample	Total/NA	Solid	8021B	53384
LCSD 880-53384/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	53384

Prep Batch: 53384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-1	S-1	Total/NA	Solid	5035	
890-4658-2	S-2	Total/NA	Solid	5035	
890-4658-3	S-3	Total/NA	Solid	5035	
890-4658-4	S-4	Total/NA	Solid	5035	
890-4658-5	S-5	Total/NA	Solid	5035	
890-4658-6	SW-1	Total/NA	Solid	5035	
890-4658-7	SW-2	Total/NA	Solid	5035	
890-4658-8	SW-3	Total/NA	Solid	5035	
890-4658-9	SW-4	Total/NA	Solid	5035	
890-4658-10	SW-5	Total/NA	Solid	5035	
890-4658-11	SW-6	Total/NA	Solid	5035	
890-4658-12	SW-7	Total/NA	Solid	5035	
MB 880-53384/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-53384/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-53384/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 53510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-1	S-1	Total/NA	Solid	Total BTEX	
890-4658-2	S-2	Total/NA	Solid	Total BTEX	
890-4658-3	S-3	Total/NA	Solid	Total BTEX	
890-4658-4	S-4	Total/NA	Solid	Total BTEX	
890-4658-5	S-5	Total/NA	Solid	Total BTEX	
890-4658-6	SW-1	Total/NA	Solid	Total BTEX	
890-4658-7	SW-2	Total/NA	Solid	Total BTEX	
890-4658-8	SW-3	Total/NA	Solid	Total BTEX	
890-4658-9	SW-4	Total/NA	Solid	Total BTEX	
890-4658-10	SW-5	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

GC VOA (Continued)

Analysis Batch: 53510 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-11	SW-6	Total/NA	Solid	Total BTEX	
890-4658-12	SW-7	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-1	S-1	Total/NA	Solid	8015B NM	53398
890-4658-2	S-2	Total/NA	Solid	8015B NM	53398
890-4658-3	S-3	Total/NA	Solid	8015B NM	53398
890-4658-4	S-4	Total/NA	Solid	8015B NM	53398
890-4658-5	S-5	Total/NA	Solid	8015B NM	53398
890-4658-6	SW-1	Total/NA	Solid	8015B NM	53398
890-4658-7	SW-2	Total/NA	Solid	8015B NM	53398
890-4658-8	SW-3	Total/NA	Solid	8015B NM	53398
890-4658-9	SW-4	Total/NA	Solid	8015B NM	53398
890-4658-10	SW-5	Total/NA	Solid	8015B NM	53398
890-4658-11	SW-6	Total/NA	Solid	8015B NM	53398
890-4658-12	SW-7	Total/NA	Solid	8015B NM	53398
MB 880-53398/1-A	Method Blank	Total/NA	Solid	8015B NM	53398
LCS 880-53398/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53398
LCSD 880-53398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53398

Prep Batch: 53398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-1	S-1	Total/NA	Solid	8015NM Prep	
890-4658-2	S-2	Total/NA	Solid	8015NM Prep	
890-4658-3	S-3	Total/NA	Solid	8015NM Prep	
890-4658-4	S-4	Total/NA	Solid	8015NM Prep	
890-4658-5	S-5	Total/NA	Solid	8015NM Prep	
890-4658-6	SW-1	Total/NA	Solid	8015NM Prep	
890-4658-7	SW-2	Total/NA	Solid	8015NM Prep	
890-4658-8	SW-3	Total/NA	Solid	8015NM Prep	
890-4658-9	SW-4	Total/NA	Solid	8015NM Prep	
890-4658-10	SW-5	Total/NA	Solid	8015NM Prep	
890-4658-11	SW-6	Total/NA	Solid	8015NM Prep	
890-4658-12	SW-7	Total/NA	Solid	8015NM Prep	
MB 880-53398/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53398/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53398/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-1	S-1	Total/NA	Solid	8015 NM	
890-4658-2	S-2	Total/NA	Solid	8015 NM	
890-4658-3	S-3	Total/NA	Solid	8015 NM	
890-4658-4	S-4	Total/NA	Solid	8015 NM	
890-4658-5	S-5	Total/NA	Solid	8015 NM	
890-4658-6	SW-1	Total/NA	Solid	8015 NM	
890-4658-7	SW-2	Total/NA	Solid	8015 NM	
890-4658-8	SW-3	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

GC Semi VOA (Continued)

Analysis Batch: 53465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-9	SW-4	Total/NA	Solid	8015 NM	
890-4658-10	SW-5	Total/NA	Solid	8015 NM	
890-4658-11	SW-6	Total/NA	Solid	8015 NM	
890-4658-12	SW-7	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-1	S-1	Soluble	Solid	DI Leach	
890-4658-2	S-2	Soluble	Solid	DI Leach	
MB 880-53358/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53358/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53358/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 53359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-3	S-3	Soluble	Solid	DI Leach	
890-4658-4	S-4	Soluble	Solid	DI Leach	
890-4658-5	S-5	Soluble	Solid	DI Leach	
890-4658-6	SW-1	Soluble	Solid	DI Leach	
890-4658-7	SW-2	Soluble	Solid	DI Leach	
890-4658-8	SW-3	Soluble	Solid	DI Leach	
890-4658-9	SW-4	Soluble	Solid	DI Leach	
890-4658-10	SW-5	Soluble	Solid	DI Leach	
890-4658-11	SW-6	Soluble	Solid	DI Leach	
890-4658-12	SW-7	Soluble	Solid	DI Leach	
MB 880-53359/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53359/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53359/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4658-3 MS	S-3	Soluble	Solid	DI Leach	
890-4658-3 MSD	S-3	Soluble	Solid	DI Leach	

Analysis Batch: 53409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-1	S-1	Soluble	Solid	300.0	53358
890-4658-2	S-2	Soluble	Solid	300.0	53358
MB 880-53358/1-A	Method Blank	Soluble	Solid	300.0	53358
LCS 880-53358/2-A	Lab Control Sample	Soluble	Solid	300.0	53358
LCSD 880-53358/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53358

Analysis Batch: 53414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-3	S-3	Soluble	Solid	300.0	53359
890-4658-4	S-4	Soluble	Solid	300.0	53359
890-4658-5	S-5	Soluble	Solid	300.0	53359
890-4658-6	SW-1	Soluble	Solid	300.0	53359
890-4658-7	SW-2	Soluble	Solid	300.0	53359
890-4658-8	SW-3	Soluble	Solid	300.0	53359
890-4658-9	SW-4	Soluble	Solid	300.0	53359
890-4658-10	SW-5	Soluble	Solid	300.0	53359

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QC Association Summary

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

HPLC/IC (Continued)

Analysis Batch: 53414 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4658-11	SW-6	Soluble	Solid	300.0	53359
890-4658-12	SW-7	Soluble	Solid	300.0	53359
MB 880-53359/1-A	Method Blank	Soluble	Solid	300.0	53359
LCS 880-53359/2-A	Lab Control Sample	Soluble	Solid	300.0	53359
LCSD 880-53359/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53359
890-4658-3 MS	S-3	Soluble	Solid	300.0	53359
890-4658-3 MSD	S-3	Soluble	Solid	300.0	53359

Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: S-1
Date Collected: 05/12/23 00:00
Date Received: 05/12/23 11:00

Lab Sample ID: 890-4658-1
Matrix: Solid

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 03:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/15/23 23:56	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	53358	05/15/23 11:39	KS	EET MID
Soluble	Analysis	300.0		1			53409	05/16/23 06:01	SMC	EET MID

Client Sample ID: S-2
Date Collected: 05/12/23 00:00
Date Received: 05/12/23 11:00

Lab Sample ID: 890-4658-2
Matrix: Solid

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 04:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 00:16	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53358	05/15/23 11:39	KS	EET MID
Soluble	Analysis	300.0		1			53409	05/16/23 06:06	SMC	EET MID

Client Sample ID: S-3
Date Collected: 05/12/23 00:00
Date Received: 05/12/23 11:00

Lab Sample ID: 890-4658-3
Matrix: Solid

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 04:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 00:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53359	05/15/23 11:40	KS	EET MID
Soluble	Analysis	300.0		1			53414	05/16/23 06:49	SMC	EET MID

Client Sample ID: S-4
Date Collected: 05/12/23 00:00
Date Received: 05/12/23 11:00

Lab Sample ID: 890-4658-4
Matrix: Solid

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 04:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: S-4

Lab Sample ID: 890-4658-4

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 00:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53359	05/15/23 11:40	KS	EET MID
Soluble	Analysis	300.0		1			53414	05/16/23 07:05	SMC	EET MID

Client Sample ID: S-5

Lab Sample ID: 890-4658-5

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 05:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 01:37	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53359	05/15/23 11:40	KS	EET MID
Soluble	Analysis	300.0		1			53414	05/16/23 07:10	SMC	EET MID

Client Sample ID: SW-1

Lab Sample ID: 890-4658-6

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 05:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 01:58	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53359	05/15/23 11:40	KS	EET MID
Soluble	Analysis	300.0		1			53414	05/16/23 07:15	SMC	EET MID

Client Sample ID: SW-2

Lab Sample ID: 890-4658-7

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 05:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 02:18	SM	EET MID

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Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: SW-2

Lab Sample ID: 890-4658-7

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	53359	05/15/23 11:40	KS	EET MID
Soluble	Analysis	300.0		1			53414	05/16/23 07:21	SMC	EET MID

Client Sample ID: SW-3

Lab Sample ID: 890-4658-8

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 06:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 02:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53359	05/15/23 11:40	KS	EET MID
Soluble	Analysis	300.0		1			53414	05/16/23 07:37	SMC	EET MID

Client Sample ID: SW-4

Lab Sample ID: 890-4658-9

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 09:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 02:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53359	05/15/23 11:40	KS	EET MID
Soluble	Analysis	300.0		1			53414	05/16/23 07:42	SMC	EET MID

Client Sample ID: SW-5

Lab Sample ID: 890-4658-10

Date Collected: 05/12/23 00:00

Matrix: Solid

Date Received: 05/12/23 11:00

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 09:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 03:20	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53359	05/15/23 11:40	KS	EET MID
Soluble	Analysis	300.0		1			53414	05/16/23 07:47	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Client Sample ID: SW-6
Date Collected: 05/12/23 00:00
Date Received: 05/12/23 11:00

Lab Sample ID: 890-4658-11
Matrix: Solid

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 10:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 03:41	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53359	05/15/23 11:40	KS	EET MID
Soluble	Analysis	300.0		1			53414	05/16/23 07:53	SMC	EET MID

Client Sample ID: SW-7
Date Collected: 05/12/23 00:00
Date Received: 05/12/23 11:00

Lab Sample ID: 890-4658-12
Matrix: Solid

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	53384	05/15/23 13:18	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	53334	05/16/23 10:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			53510	05/16/23 16:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			53465	05/16/23 11:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53398	05/15/23 14:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53330	05/16/23 04:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53359	05/15/23 11:40	KS	EET MID
Soluble	Analysis	300.0		1			53414	05/16/23 07:58	SMC	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: H & R Enterprises
Project/Site: Wersell fed #1 (wer)

Job ID: 890-4658-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4658-1	S-1	Solid	05/12/23 00:00	05/12/23 11:00	3
890-4658-2	S-2	Solid	05/12/23 00:00	05/12/23 11:00	2
890-4658-3	S-3	Solid	05/12/23 00:00	05/12/23 11:00	2
890-4658-4	S-4	Solid	05/12/23 00:00	05/12/23 11:00	2
890-4658-5	S-5	Solid	05/12/23 00:00	05/12/23 11:00	2
890-4658-6	SW-1	Solid	05/12/23 00:00	05/12/23 11:00	3
890-4658-7	SW-2	Solid	05/12/23 00:00	05/12/23 11:00	3
890-4658-8	SW-3	Solid	05/12/23 00:00	05/12/23 11:00	3
890-4658-9	SW-4	Solid	05/12/23 00:00	05/12/23 11:00	3
890-4658-10	SW-5	Solid	05/12/23 00:00	05/12/23 11:00	2
890-4658-11	SW-6	Solid	05/12/23 00:00	05/12/23 11:00	2
890-4658-12	SW-7	Solid	05/12/23 00:00	05/12/23 11:00	2



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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

Chain of Custody

Work Order No: _____

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Project Manager:	M. Colliver	Bill to: (if different)	Cimmaron Energy
Company Name:	H&R Enterprises	Company Name:	Attn: Luc, Luis
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Project Name:	Yersell Fed #1 (wer)	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number:		Due Date:	3-Day		
Project Location:		TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	R. Bell				
P.O. #:					

SAMPLE RECEIPT	Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐
Samples Received Intact:	Yes ☒ No ☐	Thermometer ID:	11111111	
Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	-0.2	
Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:	5.2	
Total Containers:		Corrected Temperature:	5.0	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters
S-1	SOI	5/12/23		3'	C	1	TPH
S-2				2'		1	BTEX
S-3				2'		1	Chlorides
S-4				2'		1	
S-5				2'		1	
SW-1				3'		1	
SW-2				3'		1	
SW-3				3'		1	
SW-4				3'		1	
SW-5				2'		1	



890-4658 Chain of Custody

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	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn				
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA		Sb		As	Ba	Be	B	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U															

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
<i>[Signature]</i>	<i>[Signature]</i>	5-12-23 11:00			



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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

Chain of Custody

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

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

Project Name:	Turn Around		Pre-Code		ANALYSIS REQUEST														Preservative Codes							
Project Number:	Wersell	☐ Routine ☒ Rush																	None: NO	DI Water: H ₂ O						
Project Location:		Due Date:	3-Day	TAT starts the day received by the lab, if received by 4:30pm																	Cool: Cool	MeOH: Me				
Sampler's Name:																					HCL: HC	HNO ₃ : HN				
P.O. #:		Temp Blank:	Yes No	Wet: 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:																		NaHSO ₄ : NABIS			
		Sample Custody Seals:		Yes No	Temperature Heading:																		Na ₂ S ₂ O ₃ : NaSO ₃			
		Total Containers:		Yes No	Corrected Temperature:																		Zn Acetate+NaOH: Zn			
																							NaOH+Ascorbic Acid: SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters											Sample Comments							
SW-6		Soil	5/12/23		2'	C	1	X	X	X	BTEX															
SW-7		Soil	5/12/23		2'	C	1	X	X	X	TPH															
								X	X	X	Chlorides															

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 SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471			
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		
1		5.12.23 11:55					
3							
5							

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.

Login Sample Receipt Checklist

Client: H & R Enterprises

Job Number: 890-4658-1

Login Number: 4658

List Source: Eurofins Carlsbad

List Number: 1

Creator: Clifton, Cloe

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.	N/A	Refer to Job Narrative for details.
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: H & R Enterprises

Job Number: 890-4658-1

Login Number: 4658

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 05/15/23 08:35 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 230361

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 230361
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	8/4/2023