

**TABLE 1**  
**SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA**  
**PDC 69175**  
**WELLS RANCH 34F-402 TANK BATTERY, WELD COUNTY, COLORADO**  
**REM #**

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
Waste Char	4/2/2024	1	<b>9.3</b>	<b>58</b>	<b>16</b>	<b>99</b>	<b>35</b>	<b>12</b>	<b>2.8</b>	<b>4480</b>	<b>3300</b>	<b>1000</b>	<b>180</b>
SS-01	4/19/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.5	<0.50	<50	<50
SS-02	4/19/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	210	<0.50	50	160
SS-03	4/19/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	257	<0.50	87	170
SS-04	4/19/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	136	<0.50	51	85
SS-05	4/19/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.5	<0.50	<50	<50
SS-06	4/26/2024	1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<b>581</b>	<0.200	<25.0	<b>581</b>
SS-07	4/26/2024	1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<b>605</b>	<0.200	<25.0	<b>605</b>
SS-02-2	5/21/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.5	<0.50	<50	265
SS-03-2	5/21/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.5	<0.50	<50	<50
SS-06-2	5/21/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<100.5	<0.50	<50	<50
SS-07-2	5/21/2024	1	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<b>1040.3</b>	<0.50	<b>50.3</b>	<b>994</b>
SS-07-3	6/5/2024	1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	112	<0.200	<25.0	112
SS-02-3	6/5/2024	1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.2	<0.200	<25.0	<100

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. \* Indicates laboratory minimum detection limit in excess of SSL

4. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
PDC 69175  
WELLS RANCH 34F-402 TANK BATTERY, WELD COUNTY, COLORADO  
REM #

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl - Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
Waste Char	4/2/2024	1	0.112	<0.00500	<b>0.0768</b>	0.00631	0.00674	0.00618	0.0401	<0.00500	0.00686	<0.00500	<0.00500	0.0283	<b>1.99</b>	<b>11.2</b>
SS-01	4/19/2024	1	<0.00500	<0.00500	0.00514	0.00631	0.0138	0.00618	0.00521	<0.00500	0.00685	<0.00500	<0.00500	0.0138	<0.00500	<0.00500
SS-02	4/19/2024	1	<0.00500	<0.00500	<b>0.0215</b>	0.0309	0.0696	0.0230	0.0269	<0.00500	0.0288	<0.00500	0.0401	0.0998	<0.00500	<0.00500
SS-03	4/19/2024	1	<0.00500	0.00567	<b>0.0548</b>	0.0626	0.100	0.0355	0.0585	<0.00500	0.0500	0.00588	0.129	0.266	<0.00500	<0.00500
SS-04	4/19/2024	1	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0105	<0.00500	<0.00500
SS-05	4/19/2024	1	<0.00500	<0.00500	0.00721	0.0112	0.0182	0.0061	0.00922	<0.00500	0.00628	<0.00500	0.0182	0.0334	<0.00500	0.00506
SS-06	4/26/2024	1	<0.020	<0.020	<b>0.051</b>	0.071	0.068	0.03	0.076	<0.020	0.094	<0.020	0.077	0.084	<0.002	<0.002
SS-07	4/26/2024	1	<0.020	0.058	<b>0.196</b>	<b>0.219</b>	0.182	0.091	0.250	0.040	0.322	<0.020	0.194	0.326	<0.002	<0.002
SS-02-2	5/21/2024	1	<0.020	<0.020	<b>0.012</b>	<0.020	0.036	0.024	0.027	<0.020	<0.020	<0.020	0.031	<0.020	<0.002	<0.002
SS-03-2	5/21/2024	1	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
SS-06-2	5/21/2024	1	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
SS-07-2	5/21/2024	1	<0.020	<0.020	<b>0.075</b>	<b>0.121</b>	0.119	0.041	0.088	0.023	0.108	<0.020	0.156	0.101	<0.002	<0.002
SS-07-3	6/5/2024	1	<0.020	<0.020	0.009	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
SS-02-3	6/5/2024	1	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. \* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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**TABLE 3**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**PDC 69175**  
**WELLS RANCH 34F-402 TANK BATTERY, WELD COUNTY, COLORADO**  
**REM #**

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Waste Char	4/2/2024	1	7.66	0.306	0.524	<2.00
SS-01	4/19/2024	1	<b>8.67</b>	0.329	0.678	<2.00
SS-02	4/19/2024	1	<b>8.56</b>	0.332	0.378	<2.00
SS-03	4/19/2024	1	<b>8.56</b>	0.211	0.101	<2.00
SS-04	4/19/2024	1	<b>9.34</b>	0.569	1.82	<2.00
SS-05	4/19/2024	1	<b>8.45</b>	0.328	0.542	<2.00
SS-06	4/26/2024	1	<b>8.35</b>	0.260	0.828	0.227
SS-07	4/26/2024	1	<b>8.48</b>	0.287	1.48	0.139
SS-02-2	5/21/2024	1	<b>8.38</b>	0.342	0.905	0.434
SS-03-2	5/21/2024	1	<b>9.10</b>	0.464	<b>12.8</b>	0.193
SS-06-2	5/21/2024	1	<b>8.61</b>	0.422	2.64	0.598
SS-07-2	5/21/2024	1	<b>8.43</b>	0.198	1.10	0.188
SS-02-3	6/5/2024	1	<b>8.32</b>	0.401	0.805	0.589
SS-07-3	6/5/2024	1	<b>8.60</b>	0.367	1.76	0.867
BG-N	4/19/2024	1	7.12	0.127	0.0455	<2.00
BG-S	4/19/2024	1	7.25	0.425	0.383	<2.00
BG-E	4/19/2024	1	7.48	0.147	0.0147	<2.00
BG-W	4/19/2024	1	7.08	0.204	0.0471	<2.00
BG-IN	4/19/2024	1	<b>8.59</b>	0.214	0.114	<2.00
Maximum Root Background Concentration (0 - 3 ft)			<b>8.59</b>		0.114	
Average Root Background Concentration (0 - 3 ft)			7.50		0.121	

1. Bold faced values exceed the ECMC Table 915-1 limit(s)
2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.  
 = Material excavated and transported off site for disposal.

TABLE 4  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
PDC 69175  
WELLS RANCH 34F-402 TANK BATTERY, WELD COUNTY, COLORADO  
REM #

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Waste Char	4/2/2024	1	<b>2.27</b>	80.5	0.342	<0.30	21.9	13.2	6.31	<b>0.334</b>	0.0646	37.7
SS-01	4/19/2024	1	<b>2.14</b>	<b>88.9</b>	<b>0.427</b>	<0.30	21.3	<b>15.5</b>	4.88	<b>0.341</b>	0.0851	43.1
SS-02	4/19/2024	1	<b>2.61</b>	78.3	0.301	<0.30	12.3	<b>19.5</b>	4.53	<0.236	0.0554	42.1
SS-03	4/19/2024	1	<b>1.91</b>	51.9	<0.200	<0.30	6.29	12.6	4.44	<0.260	0.0219	31.9
SS-04	4/19/2024	1	<b>3.46</b>	<b>85.5</b>	<b>0.403</b>	<0.30	22.4	<b>16.2</b>	4.61	<b>0.301</b>	0.0837	43.6
SS-05	4/19/2024	1	<b>2.34</b>	<b>93</b>	<b>0.382</b>	<0.30	22.1	<b>19.0</b>	4.96	<b>0.307</b>	0.0827	46.5
SS-06	4/26/2024	1	<b>3.36</b>	81.8	0.188	<0.135	9.23	<b>17.2</b>	7.76	<b>0.479</b>	<0.0911	53.6
SS-07	4/26/2024	1	<b>2.39</b>	64.4	0.141	<b>0.16</b>	<9.35	<b>15.6</b>	5.42	<0.243	<0.0935	65.8
SS-02-2	5/21/2024	1	<b>3.44</b>	<b>124</b>	0.280	<0.169	22.1	<b>21.3</b>	9.85	<b>0.377</b>	<0.0897	54.4
SS-03-2	5/21/2024	1	<b>2.42</b>	35.2	<0.0872	<0.113	<8.72	3.84	4.43	<0.227	<0.0872	<32.3
SS-06-2	5/21/2024	1	<b>3.49</b>	<b>105</b>	0.308	<0.108	25.3	<b>17.7</b>	9.07	<b>0.499</b>	<0.0929	50.0
SS-07-2	5/21/2024	1	<b>2.86</b>	70.6	0.170	<0.159	<9.38	13.3	6.18	<0.244	<0.0938	<34.7
SS-02-3	6/5/2024	1	<b>2.13</b>	82.0	0.255	<0.122	16.6	11.6	6.55	<b>0.301</b>	<0.0905	36.9
SS-07-3	6/5/2024	1	<b>2.36</b>	<b>101</b>	0.374	<0.178	23	<b>16.2</b>	8.96	<b>0.43</b>	0.105	53.4
BG-N	4/19/2024	1	<b>4.23</b>	68.4	<0.200	<0.30	7.25	7.75	7.66	<0.260	0.0302	29.6
BG-S	4/19/2024	1	<b>2.40</b>	66.1	0.241	<0.30	7.48	7.98	5.91	<0.260	<0.0200	26.2
BG-E	4/19/2024	1	<b>2.44</b>	54.8	<0.200	<0.30	5.24	6.48	5	<0.260	0.0222	20.8
BG-W	4/19/2024	1	<b>2.98</b>	76.8	0.234	<0.30	7.91	8.06	7.77	<0.260	0.0313	31.6
BG-IN	4/19/2024	1	<b>3.22</b>	<b>119</b>	<b>0.57</b>	<0.30	27.6	<b>18.7</b>	11.8	<b>0.402</b>	0.105	61.1
Maximum Root Zone Background Concentration (0 - 3 ft)			4.23	119	0.57			18.7		0.402		
125% Average Root Zone Background Concentration (0 - 3 ft)			3.82	96.3	0.29			12.24		0.36		

1. Bold values exceed the ECMC Table 915-1 limit(s)

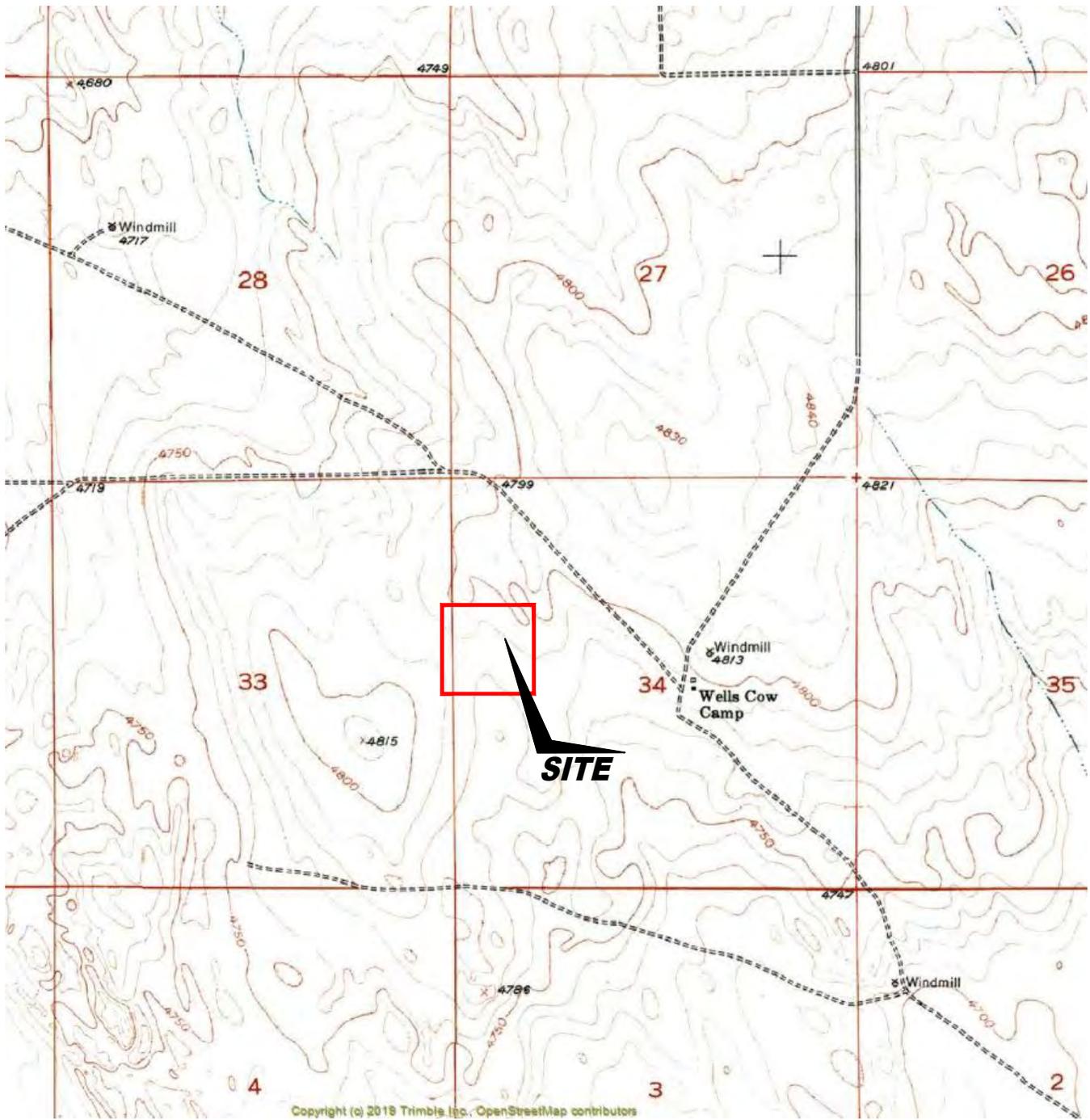
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

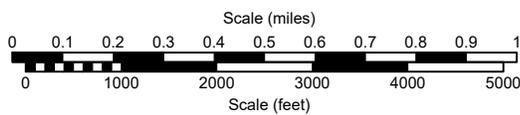
NA - Not analyzed

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  = Material excavated and transported off site for disposal.



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USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**PDC Energy, Inc. ~ Wells Ranch 34F-212**  
 SWNW Sec. 34, T6N, R63W, 6th PM  
 Weld County, Colorado  
 40.447320°, -104.431945°

Project # <b>C024-071</b>	Facility # <b>428807</b>	Initial Spill/Release Report Doc# <b>403783477</b>
Date <b>6/25/24</b>	Filename <b>24071T</b>	





**LEGEND**

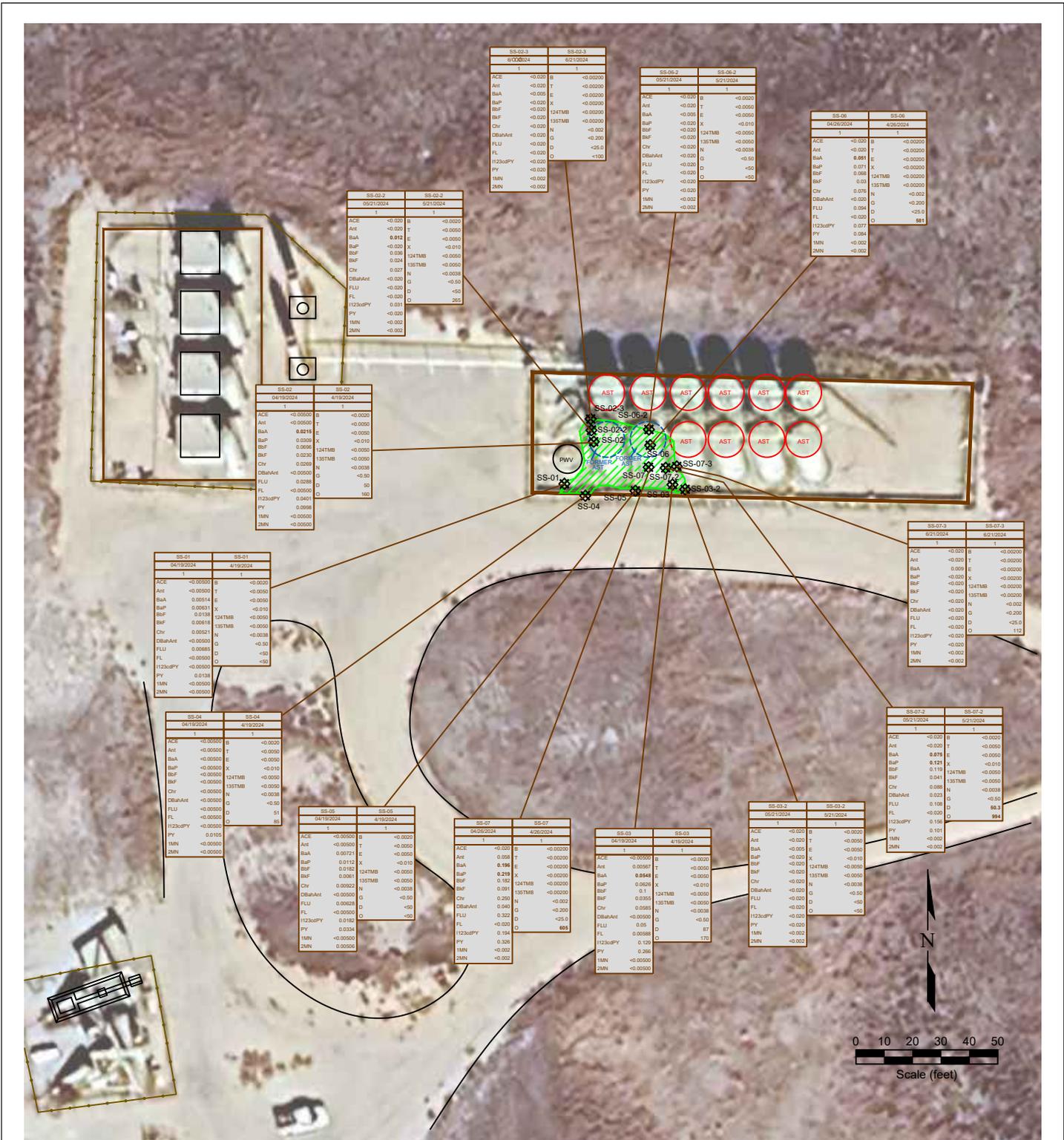
- ABOVE-GROUND STORAGE TANK
- FORMER FACILITY
- EXCAVATED AREA
- EXTENT OF EXCAVATION
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL

**Figure 2  
SITE MAP**

**PDC Energy, Inc. ~ Wells Ranch 34F-212**  
 SWNW Sec. 34, T6N, R63W, 6th PM  
 Weld County, Colorado  
 40.447320, °, -104.431945°

Project No. <b>C024-071</b>	Facility # <b>428807</b>	Initial Spill/Release Report Doc# <b>403783477</b>
Date <b>6/25/24</b>	Filename <b>24071Q</b>	





**LEGEND**

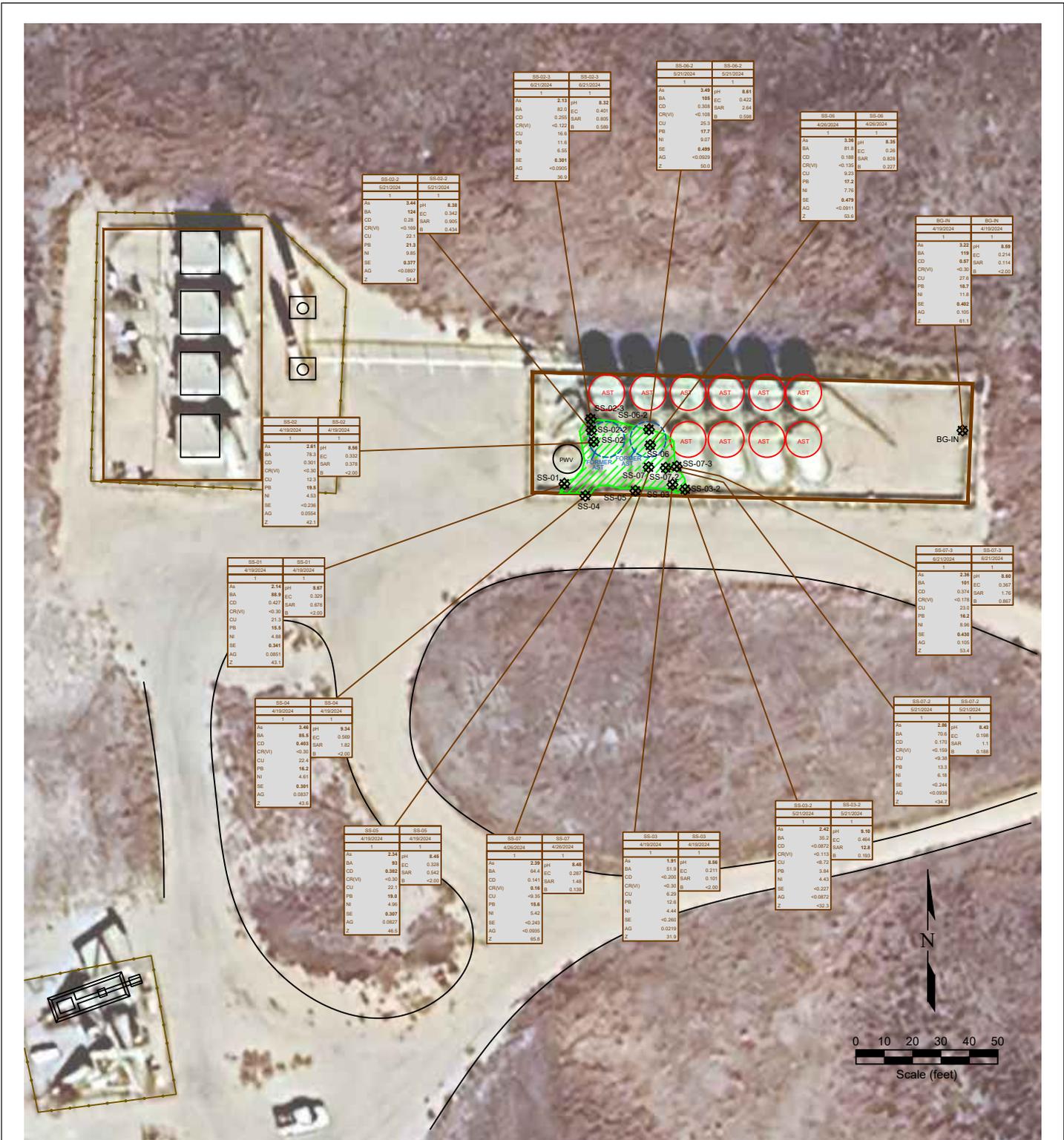
- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXTENT OF EXCAVATION
- FENCE LINE
- CONTAINMENT BERM
- EXCAVATED AREA
- CONTAINMENT WALL

SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
DATE	DATE SAMPLED	DATE	DATE SAMPLED
DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)
ACE	<0.0000	ACE	<0.0000
Ant	<0.0000	Ant	<0.0000
BaA	<0.0000	BaA	<0.0000
BaP	<0.0000	BaP	<0.0000
BbF	<0.0000	BbF	<0.0000
Chv	<0.0000	Chv	<0.0000
DBaHant	<0.0000	DBaHant	<0.0000
FLU	<0.0000	FLU	<0.0000
H23aPY	<0.0000	H23aPY	<0.0000
MN	<0.0000	MN	<0.0000
ZMN	<0.0000	ZMN	<0.0000

**Figure 3**  
**ORGANIC SOIL CHEMISTRY MAP**

**PDC Energy, Inc. ~ Wells Ranch 34F-212**  
 SWNW Sec. 34, T6N, R63W, 6th PM  
 Weld County, Colorado  
 40.447320, -104.431945°

Project No. <b>C024-071</b>	Facility # <b>428807</b>	Initial Spill/Release Report Doc# <b>403783477</b>
Date <b>6/26/24</b>	Filename <b>24071Q</b>	



**LEGEND**

- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXTENT OF EXCAVATION
- FENCE LINE
- EXCAVATED AREA
- CONTAMINATED BERM
- CONTAINMENT WALL

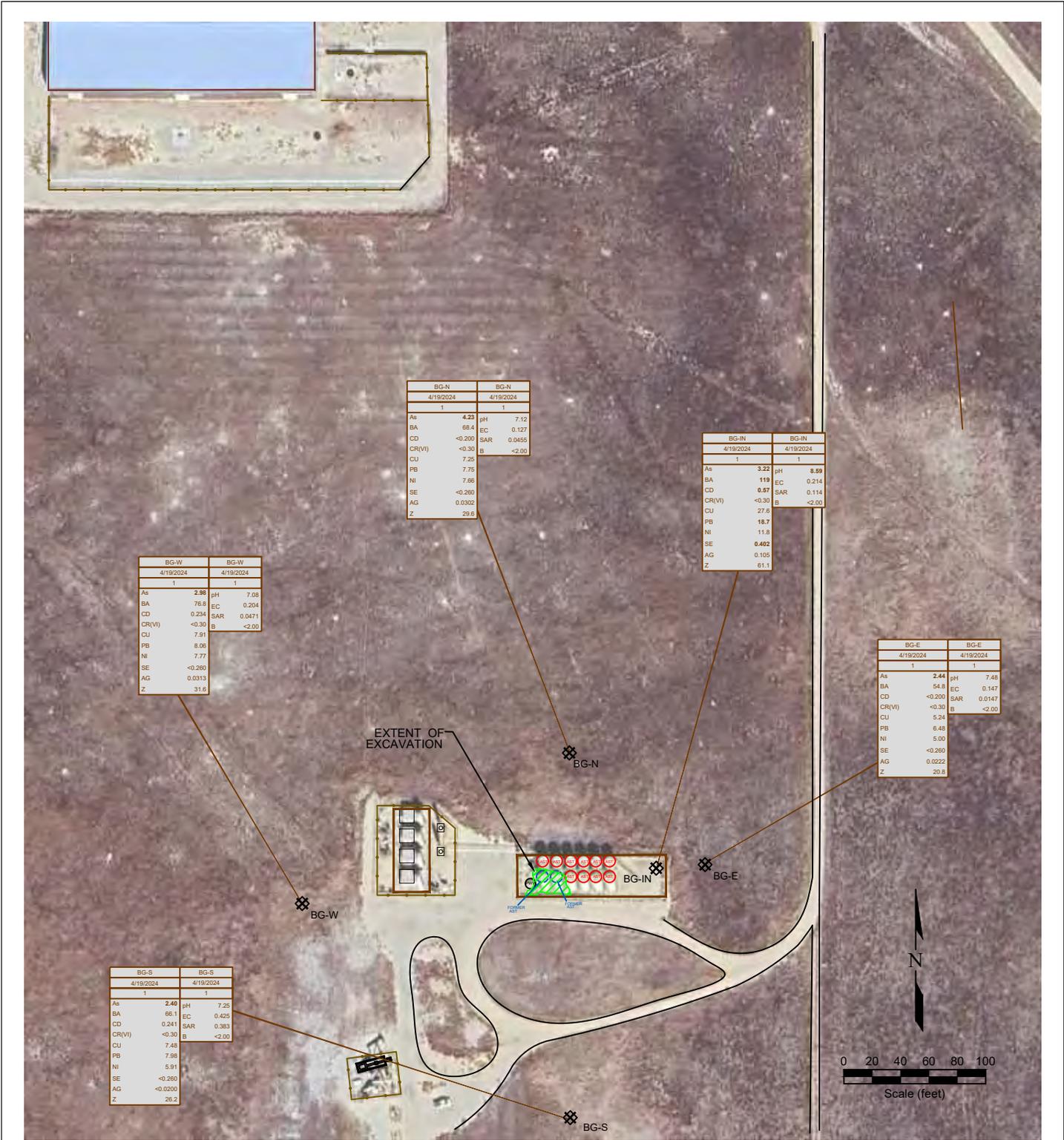
SAMPLE ID	DEPTH (ft)	DATE SAMPLED	SAMPLE ID	DEPTH (ft)	DATE SAMPLED
As	<0.01	ARSENIC (mg/kg)	As	1	6/21/2024
BA	<0.01	BARLIUM (mg/kg)	BA	1	6/21/2024
CD	<0.01	CADMIUM (mg/kg)	CD	1	6/21/2024
CR(V)	<0.05	CHROMIUM (mg/kg)	CR(V)	1	6/21/2024
CU	<0.01	COPPER (mg/kg)	CU	1	6/21/2024
PB	<0.05	LEAD (mg/kg)	PB	1	6/21/2024
NI	<0.05	NICKEL (mg/kg)	NI	1	6/21/2024
SE	<0.5	SELENIUM (mg/kg)	SE	1	6/21/2024
AG	<0.05	SILVER (mg/kg)	AG	1	6/21/2024
Z	<0.05	ZINC (mg/kg)	Z	1	6/21/2024

Figure 4  
**METALS AND INORGANIC SOIL CHEMISTRY MAP**

**PDC Energy, Inc. ~ Wells Ranch 34F-212**  
 SWNW Sec. 34, T6N, R63W, 6th PM  
 Weld County, Colorado  
 40.447320, -104.431945°

Project No. <b>C024-071</b>	Facility # <b>428807</b>	Initial Spill/Release Report Doc# <b>403783477</b>
Date <b>6/26/24</b>	Filename <b>24071Q</b>	





**LEGEND**

- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- EXTENT OF EXCAVATION
- BUILDING
- EXCAVATED AREA
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL

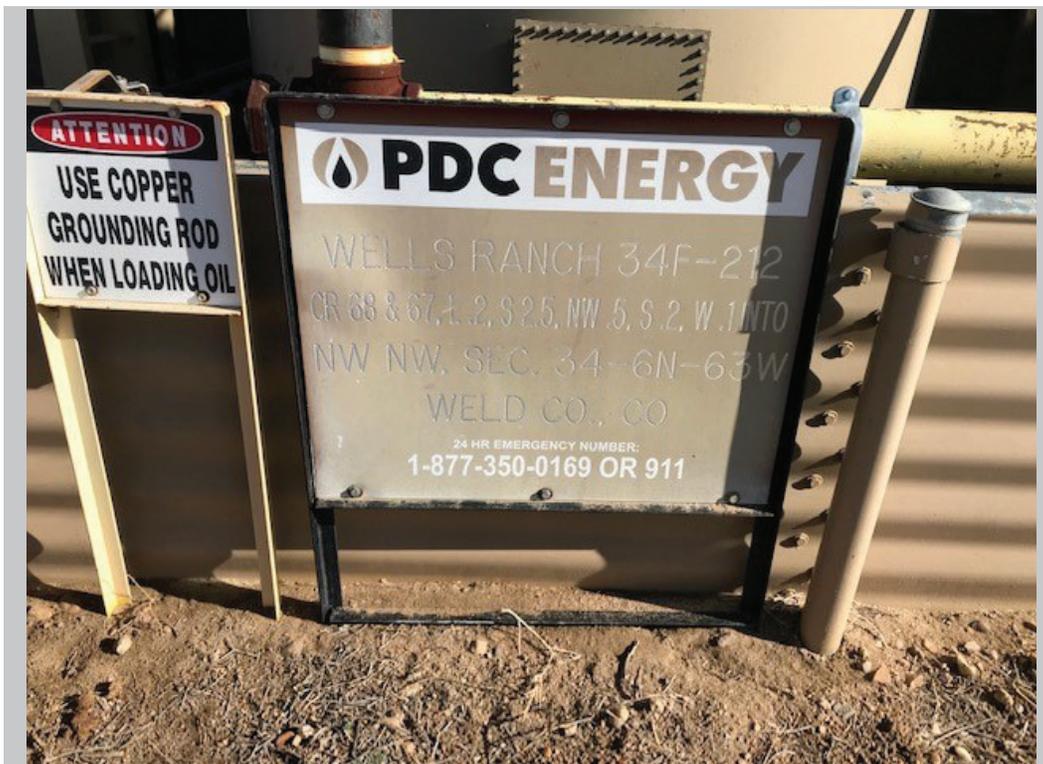
SAMPLE	DEPTH	DATE	DATE SAMPLED	SAMPLE ID	DEPTH (ft)	DATE	DATE SAMPLED	SAMPLE ID	DEPTH (ft)
As	<0.01	4/19/2024	4/19/2024	As	<0.01	4/19/2024	4/19/2024	As	<0.01
BA	<0.01	4/19/2024	4/19/2024	BA	<0.01	4/19/2024	4/19/2024	BA	<0.01
CD	<0.01	4/19/2024	4/19/2024	CD	<0.01	4/19/2024	4/19/2024	CD	<0.01
CR(VI)	<0.01	4/19/2024	4/19/2024	CR(VI)	<0.01	4/19/2024	4/19/2024	CR(VI)	<0.01
CU	<0.01	4/19/2024	4/19/2024	CU	<0.01	4/19/2024	4/19/2024	CU	<0.01
PB	<0.01	4/19/2024	4/19/2024	PB	<0.01	4/19/2024	4/19/2024	PB	<0.01
NI	<0.01	4/19/2024	4/19/2024	NI	<0.01	4/19/2024	4/19/2024	NI	<0.01
SE	<0.01	4/19/2024	4/19/2024	SE	<0.01	4/19/2024	4/19/2024	SE	<0.01
AG	<0.01	4/19/2024	4/19/2024	AG	<0.01	4/19/2024	4/19/2024	AG	<0.01
Z	<0.01	4/19/2024	4/19/2024	Z	<0.01	4/19/2024	4/19/2024	Z	<0.01

**Figure 5  
BACKGROUND SAMPLE SOIL CHEMISTRY MAP**

**PDC Energy, Inc. ~ Wells Ranch 34F-212**  
 SWNW Sec. 34, T6N, R63W, 6th PM  
 Weld County, Colorado  
 40.447320, -104.431945°

Project No. <b>C024-071</b>	Facility # <b>428807</b>	Initial Spill/Release Report Doc# <b>403783477</b>
Date <b>6/27/24</b>	Filename <b>24071Q</b>	





**Description:**

#1 - Wells Ranch 34F-212 Facility



**Description:**

#2 - Looking north at load out bucket where release occurred.

## Photo Log



**Description:**

#3 - Looking west at Excavated Area; two ASTs have been removed to accommodate excavation. Note intact claymax liner.

## Photo Log



**Description:**

#4 - Delineation of soil impacts east of release point.

**Photo Log**



**Description:**

#5 - Looking west at intact claymax liner.

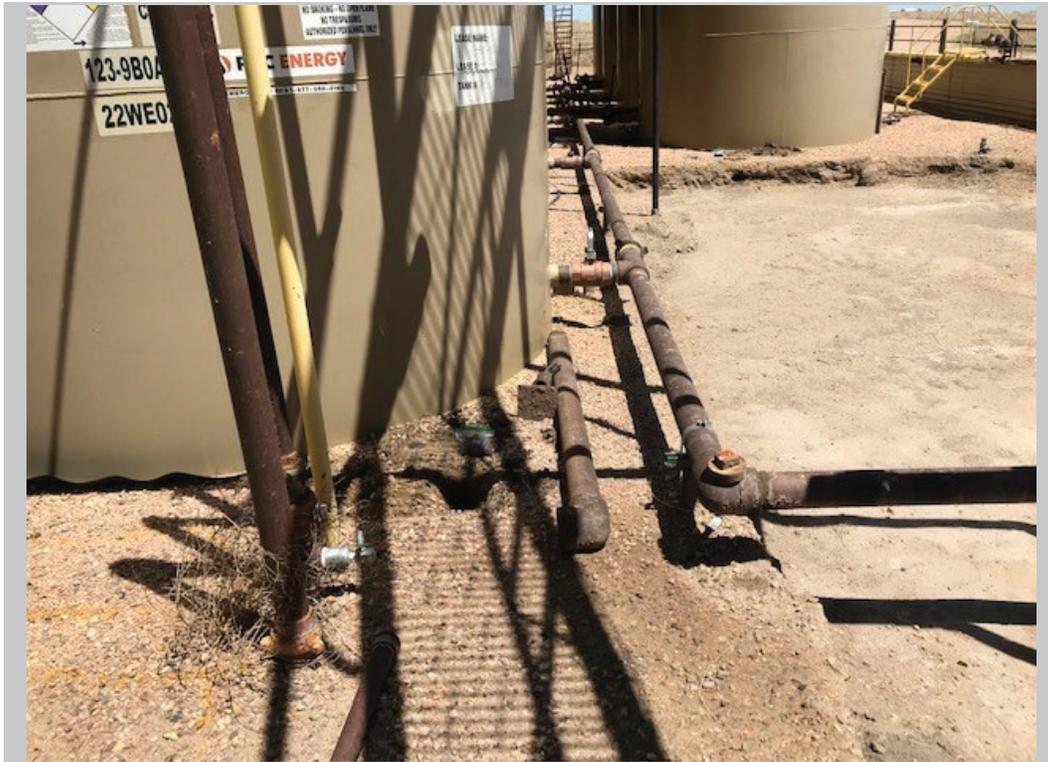
**Photo Log**



**Description:**

#6 - Looking east at excavation area.

## Photo Log



**Description:**

#7 - Looking east at northern edge of excavation.

## Photo Log



**Description:**

#8 - Looking west at seam of claymax liner with good bentonite seal.

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 28, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: PDC - Wells Ranch 34F-402

Work Order #2404020

Enclosed are the results of analyses for samples received by Summit Scientific on 04/02/24 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/28/24 07:53

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Waste Char	2404020-01	Soil	04/02/24 00:00	04/02/24 17:30

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2404020

Client: Fremont Client Project ID: Wells Ranch 34F-402

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #: \_\_\_\_\_

-

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AMZOE
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	#
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

AS  
Custodian Printed Name

4/2/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/28/24 07:53

**Waste Char**  
**2404020-01 (Soil)**

Summit Scientific

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	9.3	0.20	mg/kg	100	BHD0137	04/04/24	04/05/24	EPA 8260B	
Toluene	58	0.50	"	"	"	"	"	"	
Ethylbenzene	16	0.50	"	"	"	"	"	"	
Xylenes (total)	99	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	35	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	12	0.50	"	"	"	"	"	"	
Naphthalene	2.8	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3300	50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0379	94.7 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0590	147 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0518	130 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	1000	50	mg/kg	1	BHD0139	04/04/24	04/05/24	EPA 8015M	
C28-C36 (ORO)	180	50	"	"	"	"	"	"	

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.39	75.1 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/28/24 07:53

**Waste Char**  
**2404020-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Acenaphthene</b>	<b>0.112</b>	0.0500	mg/kg	10	BHD0119	04/04/24	04/06/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	1	"	"	04/05/24	"	
<b>Benzo (a) anthracene</b>	<b>0.0768</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.00674</b>	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0401</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.00686</b>	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.0283</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>1.99</b>	0.0500	"	10	"	"	04/06/24	"	E
<b>2-Methylnaphthalene</b>	<b>11.2</b>	0.0500	"	"	"	"	"	"	E

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0190	57.1 %	40-150		"	"	04/05/24	"	
Surrogate: Fluoranthene-d10	0.0107	32.1 %	40-150		"	"	"	"	S-04

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0368	04/11/24	05/24/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/28/24 07:53

**Waste Char**  
**2404020-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.27	0.200	mg/kg dry	1	BHD0679	04/19/24	04/30/24	EPA 6020B
Barium	80.5	0.400	"	"	"	"	"	"
Cadmium	0.342	0.200	"	"	"	"	"	"
Copper	21.9	0.400	"	"	"	"	"	"
Lead	13.2	0.200	"	"	"	"	"	"
Nickel	6.31	0.400	"	"	"	"	"	"
Silver	0.0646	0.0200	"	"	"	"	"	"
Zinc	37.7	0.400	"	"	"	"	"	"
Selenium	0.334	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0429	04/15/24	04/15/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	61.2	0.0500	mg/L dry	1	BHD0638	04/18/24	04/22/24	EPA 6020B	
Magnesium	4.21	0.0500	"	"	"	"	"	"	
Sodium	15.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.524	0.00100	units	1	BHD0792	04/23/24	04/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/28/24 07:53

**Waste Char**  
**2404020-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	85.4	%	1	BHD0300	04/10/24	04/10/24	Calculation
----------	------	---	---	---------	----------	----------	-------------

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.306</b>	0.0100	mmhos/cm	1	BHD0641	04/18/24	04/19/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.66</b>		pH Units	1	BHD0642	04/18/24	04/19/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/28/24 07:53

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

#### Batch BHD0137 - EPA 5030 Soil MS

##### Blank (BHD0137-BLK1)

Prepared: 04/04/24 Analyzed: 04/05/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0264		"	0.0400		65.9	50-150			
<i>Surrogate: Toluene-d8</i>	0.0450		"	0.0400		112	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0391		"	0.0400		97.7	50-150			

##### LCS (BHD0137-BS1)

Prepared: 04/04/24 Analyzed: 04/05/24

Benzene	0.0716	0.0020	mg/kg	0.100		71.6	70-130			
Toluene	0.107	0.0050	"	0.100		107	70-130			
Ethylbenzene	0.0967	0.0050	"	0.100		96.7	70-130			
m,p-Xylene	0.195	0.010	"	0.200		97.3	70-130			
o-Xylene	0.0990	0.0050	"	0.100		99.0	70-130			
1,2,4-Trimethylbenzene	0.0864	0.0050	"	0.100		86.4	70-130			
1,3,5-Trimethylbenzene	0.0885	0.0050	"	0.100		88.5	70-130			
Naphthalene	0.0741	0.0038	"	0.100		74.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0225		"	0.0400		56.3	50-150			
<i>Surrogate: Toluene-d8</i>	0.0458		"	0.0400		114	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400		"	0.0400		100	50-150			

##### Matrix Spike (BHD0137-MS1)

Source: 2403288-15

Prepared: 04/04/24 Analyzed: 04/05/24

O-04

Benzene	0.0514	0.0020	mg/kg	0.100	ND	51.4	70-130			QM-07
Toluene	0.0751	0.0050	"	0.100	ND	75.1	70-130			
Ethylbenzene	0.0771	0.0050	"	0.100	ND	77.1	70-130			
m,p-Xylene	0.147	0.010	"	0.200	ND	73.5	70-130			
o-Xylene	0.0763	0.0050	"	0.100	ND	76.3	70-130			
1,2,4-Trimethylbenzene	0.0595	0.0050	"	0.100	ND	59.5	70-130			QM-07
1,3,5-Trimethylbenzene	0.0689	0.0050	"	0.100	ND	68.9	70-130			QM-07
Naphthalene	0.0410	0.0038	"	0.100	ND	41.0	70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0217		"	0.0400		54.3	50-150			
<i>Surrogate: Toluene-d8</i>	0.0456		"	0.0400		114	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0404		"	0.0400		101	50-150			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/28/24 07:53

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHD0137 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BHD0137-MSD1)</b>	<b>Source: 2403288-15</b>			Prepared: 04/04/24 Analyzed: 04/05/24						<b>O-04</b>	
Benzene	0.0490	0.0020	mg/kg	0.100	ND	49.0	70-130	4.66	30		QM-07
Toluene	0.0715	0.0050	"	0.100	ND	71.5	70-130	4.95	30		
Ethylbenzene	0.0763	0.0050	"	0.100	ND	76.3	70-130	1.06	30		
m,p-Xylene	0.116	0.010	"	0.200	ND	58.0	70-130	23.5	30		QM-07
o-Xylene	0.0752	0.0050	"	0.100	ND	75.2	70-130	1.54	30		
1,2,4-Trimethylbenzene	0.0401	0.0050	"	0.100	ND	40.1	70-130	39.0	30		QM-07
1,3,5-Trimethylbenzene	0.0665	0.0050	"	0.100	ND	66.5	70-130	3.46	30		QM-07
Naphthalene	0.0372	0.0038	"	0.100	ND	37.2	70-130	9.52	30		QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0239		"	0.0400		59.8	50-150				
Surrogate: Toluene-d8	0.0450		"	0.0400		112	50-150				
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150				

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/28/24 07:53

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHD0139 - EPA 3550A**

**Blank (BHD0139-BLK1)**

Prepared & Analyzed: 04/04/24

C10-C28 (DRO)	ND	50	mg/kg								
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.3	30-150				

**LCS (BHD0139-BS1)**

Prepared & Analyzed: 04/04/24

C10-C28 (DRO)	404	50	mg/kg	500		80.7	70-130				
Surrogate: <i>o</i> -Terphenyl	9.86		"	12.5		78.9	30-150				

**Matrix Spike (BHD0139-MS1)**

Source: 2403288-15

Prepared & Analyzed: 04/04/24

C10-C28 (DRO)	363	50	mg/kg	500	13.0	70.0	70-130				
Surrogate: <i>o</i> -Terphenyl	8.74		"	12.5		69.9	30-150				

**Matrix Spike Dup (BHD0139-MSD1)**

Source: 2403288-15

Prepared & Analyzed: 04/04/24

C10-C28 (DRO)	390	50	mg/kg	500	13.0	75.3	70-130	7.06	20		
Surrogate: <i>o</i> -Terphenyl	9.51		"	12.5		76.1	30-150				

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/28/24 07:53

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHD0119 - EPA 5030 Soil MS**

**Blank (BHD0119-BLK1)**

Prepared & Analyzed: 04/04/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0331</i>		<i>"</i>	<i>0.0333</i>		<i>99.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0353</i>		<i>"</i>	<i>0.0333</i>		<i>106</i>	<i>40-150</i>			

**LCS (BHD0119-BS1)**

Prepared & Analyzed: 04/04/24

Acenaphthene	0.0289	0.00500	mg/kg	0.0333	86.8	31-137
Anthracene	0.0313	0.00500	"	0.0333	93.8	30-120
Benzo (a) anthracene	0.0281	0.00500	"	0.0333	84.4	30-120
Benzo (a) pyrene	0.0228	0.00500	"	0.0333	68.5	30-120
Benzo (b) fluoranthene	0.0198	0.00500	"	0.0333	59.4	30-120
Benzo (k) fluoranthene	0.0266	0.00500	"	0.0333	79.7	30-120
Chrysene	0.0328	0.00500	"	0.0333	98.4	30-120
Dibenz (a,h) anthracene	0.0194	0.00500	"	0.0333	58.1	30-120
Fluoranthene	0.0316	0.00500	"	0.0333	94.7	30-120
Fluorene	0.0279	0.00500	"	0.0333	83.8	30-120
Indeno (1,2,3-cd) pyrene	0.0200	0.00500	"	0.0333	60.0	30-120
Pyrene	0.0448	0.00500	"	0.0333	134	35-142
1-Methylnaphthalene	0.0351	0.00500	"	0.0333	105	35-142
2-Methylnaphthalene	0.0328	0.00500	"	0.0333	98.3	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0338</i>		<i>"</i>	<i>0.0333</i>	<i>101</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0322</i>		<i>"</i>	<i>0.0333</i>	<i>96.5</i>	<i>40-150</i>

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
Project Manager: Paul Henchan

Reported:  
05/28/24 07:53

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BHD0119 - EPA 5030 Soil MS

Matrix Spike (BHD0119-MS1)	Source: 2403461-01			Prepared & Analyzed: 04/04/24							
Acenaphthene	0.0204	0.00500	mg/kg	0.0333	ND	61.2	31-137				
Anthracene	0.0200	0.00500	"	0.0333	ND	60.0	30-120				
Benzo (a) anthracene	0.0219	0.00500	"	0.0333	ND	65.7	30-120				
Benzo (a) pyrene	0.0179	0.00500	"	0.0333	ND	53.6	30-120				
Benzo (b) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.3	30-120				
Benzo (k) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.2	30-120				
Chrysene	0.0227	0.00500	"	0.0333	ND	68.1	30-120				
Dibenz (a,h) anthracene	0.0151	0.00500	"	0.0333	ND	45.4	30-120				
Fluoranthene	0.0232	0.00500	"	0.0333	ND	69.5	30-120				
Fluorene	0.0195	0.00500	"	0.0333	ND	58.5	30-120				
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.4	30-120				
Pyrene	0.0290	0.00500	"	0.0333	ND	87.1	35-142				
1-Methylnaphthalene	0.0229	0.00500	"	0.0333	ND	68.6	15-130				
2-Methylnaphthalene	0.0205	0.00500	"	0.0333	ND	61.5	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0210		"	0.0333		63.0	40-150				
Surrogate: Fluoranthene-d10	0.0237		"	0.0333		71.2	40-150				

Matrix Spike Dup (BHD0119-MSD1)	Source: 2403461-01			Prepared & Analyzed: 04/04/24							
Acenaphthene	0.0139	0.00500	mg/kg	0.0333	ND	41.8	31-137	37.5	30		QR-02
Anthracene	0.0138	0.00500	"	0.0333	ND	41.5	30-120	36.5	30		QR-02
Benzo (a) anthracene	0.0164	0.00500	"	0.0333	ND	49.2	30-120	28.7	30		
Benzo (a) pyrene	0.0134	0.00500	"	0.0333	ND	40.3	30-120	28.2	30		
Benzo (b) fluoranthene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	1.60	30		
Benzo (k) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	28.1	30		
Chrysene	0.0173	0.00500	"	0.0333	ND	51.9	30-120	26.9	30		
Dibenz (a,h) anthracene	0.0168	0.00500	"	0.0333	ND	50.5	30-120	10.6	30		
Fluoranthene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	43.2	30		QR-02
Fluorene	0.0140	0.00500	"	0.0333	ND	42.0	30-120	33.0	30		QR-02
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	0.780	30		
Pyrene	0.0219	0.00500	"	0.0333	ND	65.8	35-142	27.9	30		
1-Methylnaphthalene	0.0194	0.00500	"	0.0333	ND	58.2	15-130	16.3	50		
2-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.2	15-130	7.24	50		
Surrogate: 2-Methylnaphthalene-d10	0.0192		"	0.0333		57.6	40-150				
Surrogate: Fluoranthene-d10	0.0153		"	0.0333		45.8	40-150				

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/28/24 07:53

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHD0368 - EPA 3050B**

**Blank (BHD0368-BLK1)**

Prepared: 04/11/24 Analyzed: 05/24/24

Boron ND 2.00 mg/L

**LCS (BHD0368-BS1)**

Prepared: 04/11/24 Analyzed: 05/24/24

Boron 4.82 2.00 mg/L 5.00 96.4 80-120

**Duplicate (BHD0368-DUP1)**

**Source: 2403483-01**

Prepared: 04/11/24 Analyzed: 05/24/24

Boron 0.728 2.00 mg/L 0.607 18.1 20

**Matrix Spike (BHD0368-MS1)**

**Source: 2403483-01**

Prepared: 04/11/24 Analyzed: 05/24/24

Boron 5.80 2.00 mg/L 5.00 0.607 104 75-125

**Matrix Spike Dup (BHD0368-MSD1)**

**Source: 2403483-01**

Prepared: 04/11/24 Analyzed: 05/24/24

Boron 5.97 2.00 mg/L 5.00 0.607 107 75-125 3.04 25

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/28/24 07:53

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

**Batch BHD0679 - EPA 3050B**

**Blank (BHD0679-BLK1)**

Prepared: 04/19/24 Analyzed: 04/30/24

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	ND	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						
Selenium	ND	0.260	"						

**LCS (BHD0679-BS1)**

Prepared: 04/19/24 Analyzed: 04/30/24

Arsenic	39.1	0.200	mg/kg wet	40.0	97.7	80-120
Barium	39.0	0.400	"	40.0	97.6	80-120
Cadmium	1.92	0.200	"	2.00	95.9	80-120
Copper	38.5	0.400	"	40.0	96.4	80-120
Lead	18.8	0.200	"	20.0	93.8	80-120
Nickel	38.3	0.400	"	40.0	95.8	80-120
Silver	1.92	0.0200	"	2.00	96.1	80-120
Zinc	39.2	0.400	"	40.0	97.9	80-120
Selenium	4.13	0.260	"	4.00	103	80-120

**Duplicate (BHD0679-DUP1)**

Source: 2404020-01

Prepared: 04/19/24 Analyzed: 04/30/24

Arsenic	2.21	0.200	mg/kg dry	2.27	2.61	20
Barium	79.4	0.400	"	80.5	1.33	20
Cadmium	0.355	0.200	"	0.342	3.74	20
Copper	21.5	0.400	"	21.9	1.86	20
Lead	13.0	0.200	"	13.2	1.83	20
Nickel	6.10	0.400	"	6.31	3.40	20
Silver	0.0672	0.0200	"	0.0646	3.95	20
Zinc	36.6	0.400	"	37.7	2.90	20
Selenium	0.304	0.260	"	0.334	9.51	20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/28/24 07:53

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BHD0679 - EPA 3050B**

**Matrix Spike (BHD0679-MS1)**

Source: 2404020-01

Prepared: 04/19/24 Analyzed: 04/30/24

Arsenic	43.2	0.180	mg/kg dry	42.1	2.27	97.1	75-125		
Barium	118	0.360	"	42.1	80.5	90.1	75-125		
Cadmium	2.44	0.180	"	2.11	0.342	99.9	75-125		
Copper	60.2	0.360	"	42.1	21.9	91.0	75-125		
Lead	32.5	0.180	"	21.1	13.2	91.8	75-125		
Nickel	46.7	0.360	"	42.1	6.31	95.8	75-125		
Silver	2.10	0.0180	"	2.11	0.0646	96.7	75-125		
Zinc	79.9	0.360	"	42.1	37.7	100	75-125		
Selenium	3.99	0.234	"	4.21	0.334	86.8	75-125		

**Matrix Spike Dup (BHD0679-MSD1)**

Source: 2404020-01

Prepared: 04/19/24 Analyzed: 04/30/24

Arsenic	42.8	0.180	mg/kg dry	42.1	2.27	96.1	75-125	0.940	25
Barium	117	0.360	"	42.1	80.5	85.8	75-125	1.56	25
Cadmium	2.48	0.180	"	2.11	0.342	101	75-125	1.25	25
Copper	59.6	0.360	"	42.1	21.9	89.5	75-125	1.10	25
Lead	32.3	0.180	"	21.1	13.2	90.9	75-125	0.599	25
Nickel	46.1	0.360	"	42.1	6.31	94.5	75-125	1.21	25
Silver	2.11	0.0180	"	2.11	0.0646	97.1	75-125	0.400	25
Zinc	79.0	0.360	"	42.1	37.7	98.2	75-125	1.06	25
Selenium	3.90	0.234	"	4.21	0.334	84.7	75-125	2.26	25

**Post Spike (BHD0679-PS1)**

Source: 2404020-01

Prepared: 04/19/24 Analyzed: 04/30/24

Arsenic	111		ug/l	100	4.85	106	75-125		
Barium	276		"	100	172	105	75-125		
Cadmium	5.96		"	5.00	0.730	105	75-125		
Copper	152		"	100	46.7	106	75-125		
Lead	80.4		"	50.0	28.2	104	75-125		
Nickel	117		"	100	13.5	103	75-125		
Silver	5.32		"	5.00	0.138	104	75-125		
Zinc	189		"	100	80.5	109	75-125		
Selenium	10.3		"	10.0	0.714	96.2	75-125		

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/28/24 07:53

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHD0429 - 3060A Mod**

**Blank (BHD0429-BLK1)**

Prepared & Analyzed: 04/15/24

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BHD0429-BS1)**

Prepared & Analyzed: 04/15/24

Chromium, Hexavalent      25.3      0.30 mg/kg wet      25.0      101      80-120

**Duplicate (BHD0429-DUP1)**

**Source: 2404020-01**

Prepared & Analyzed: 04/15/24

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BHD0429-MS1)**

**Source: 2404020-01**

Prepared & Analyzed: 04/15/24

Chromium, Hexavalent      27.7      0.30 mg/kg dry      29.3      ND      94.8      75-125

**Matrix Spike Dup (BHD0429-MSD1)**

**Source: 2404020-01**

Prepared & Analyzed: 04/15/24

Chromium, Hexavalent      27.5      0.30 mg/kg dry      29.3      ND      94.0      75-125      0.847      20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/28/24 07:53

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BHD0638 - General Preparation**

**Blank (BHD0638-BLK1)**

Prepared: 04/18/24 Analyzed: 04/22/24

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

**LCS (BHD0638-BS1)**

Prepared: 04/18/24 Analyzed: 04/22/24

Calcium	4.29	0.0500	mg/L wet	5.00	85.7	70-130
Magnesium	5.22	0.0500	"	5.00	104	70-130
Sodium	5.02	0.0500	"	5.00	100	70-130

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/28/24 07:53

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHD0300 - General Preparation**

**Duplicate (BHD0300-DUP1)**

**Source: 2404018-01**

Prepared & Analyzed: 04/10/24

% Solids	94.8		%		95.4			0.558	20	
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Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/28/24 07:53

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHD0641 - General Preparation**

**Blank (BHD0641-BLK1)**

Prepared: 04/18/24 Analyzed: 04/19/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHD0641-BS1)**

Prepared: 04/18/24 Analyzed: 04/19/24

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

**Duplicate (BHD0641-DUP1)**

Source: 2404009-01

Prepared: 04/18/24 Analyzed: 04/19/24

Specific Conductance (EC) 0.225 0.0100 mmhos/cm 0.227 0.842 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/28/24 07:53

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHD0642 - General Preparation**

**LCS (BHD0642-BS1)**

Prepared: 04/18/24 Analyzed: 04/19/24

pH	9.18	pH Units	9.18	100	95-105
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**Duplicate (BHD0642-DUP1)**

Source: 2404009-01

Prepared: 04/18/24 Analyzed: 04/19/24

pH	8.08	pH Units	8.51	5.18	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: PDC - Wells Ranch 34F-402

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/28/24 07:53

### Notes and Definitions

- S-04 A sample matrix effect prevented complete surrogate recovery.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- O-04 This sample was analyzed above the recommended temperature.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 24, 2024

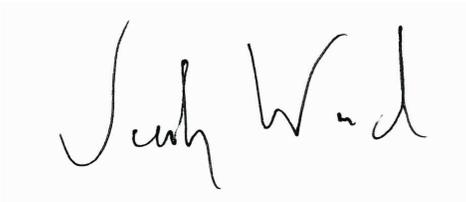
Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Chevron - Wells Ranch 34F

Work Order #2404336

Enclosed are the results of analyses for samples received by Summit Scientific on 04/19/24 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01	2404336-01	Soil	04/19/24 00:00	04/19/24 17:00
SS-02	2404336-02	Soil	04/19/24 00:00	04/19/24 17:00
SS-03	2404336-03	Soil	04/19/24 00:00	04/19/24 17:00
SS-04	2404336-04	Soil	04/19/24 00:00	04/19/24 17:00
SS-05	2404336-05	Soil	04/19/24 00:00	04/19/24 17:00

Summit Scientific

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# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page / of /
2404336	

	<b>Send Data To:</b>	<b>Send Invoice To:</b>
Client: Fremont	Project Manager: Paul Henehan	Company: CHEVRON
Address:	E-Mail:	Project Name/Location: WELLS RANCH 34F
City/State/Zip:		AFE#:
Phone:	Project Name: WELLS RANCH 34F	PO/Billing Codes:
Sampler Name: HENEHAN	Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested	Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #		
1	SS-01	4/19/24		2			✓			✓			
2	SS-02	↓		↓			↓			↓			
3	SS-03	↓		↓			↓			↓			
4	SS-04	↓		↓			↓			↓			
5	SS-05	↓		↓			↓			↓			
6													
7													
8													
9													
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15													

Relinquished by: <i>[Signature]</i>	Date/Time: 4/19/24 1:00	Received by: <i>[Signature]</i>	Date/Time: 4/19/24 1:00	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days ✓	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 10.1	Corrected Temperature: 10.1	IR gun #: 1	HNO3 lot #:	Standard	Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 240433p

Client: Erment Client Project ID: Wells Ranch 34F

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other  Airbill #:

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 Day
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NO sample times
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

AS  
Custodian Printed Name

4/19/24  
Date/Time

11a



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-01**  
**2404336-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0724	04/22/24	04/23/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0334	83.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0728	04/22/24	04/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.72	61.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-01**  
**2404336-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthylene	ND	0.330	mg/kg	1	BHD0712	04/22/24	04/22/24	EPA 8270D SIM	
Acenaphthene	ND	0.00500	"	"	"	"	"	"	"
Anthracene	ND	0.00500	"	"	"	"	"	"	"
<b>Benzo (a) anthracene</b>	<b>0.00514</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>0.00631</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>0.0138</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>0.00618</b>	0.00500	"	"	"	"	"	"	"
<b>Chrysene</b>	<b>0.00521</b>	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>0.00685</b>	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
<b>Pyrene</b>	<b>0.0138</b>	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0139	41.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0136	40.7 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0747	04/22/24	05/02/24	EPA 6020B	

**Total Metals by EPA 6020B**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-01**  
**2404336-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.14	0.200	mg/kg dry	1	BHD1037	04/29/24	05/15/24	EPA 6020B	
Barium	88.9	0.400	"	"	"	"	"	"	
Cadmium	0.427	0.200	"	"	"	"	"	"	
Copper	21.3	0.400	"	"	"	"	"	"	
Lead	15.5	0.200	"	"	"	"	"	"	
Nickel	4.88	0.400	"	"	"	"	"	"	
Silver	0.0851	0.0200	"	"	"	"	"	"	
Zinc	43.1	0.400	"	"	"	"	"	"	
Selenium	0.341	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0805	04/23/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	108	0.0500	mg/L dry	1	BHE0036	05/01/24	05/22/24	EPA 6020B	
Magnesium	14.0	0.0500	"	"	"	"	"	"	
Sodium	28.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.678	0.00100	units	1	BHE0732	05/23/24	05/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**SS-01**  
**2404336-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	1	BHD0770	04/22/24	04/22/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.329	0.0100	mmhos/cm	1	BHE0038	05/01/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.67		pH Units	1	BHE0037	05/01/24	05/06/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-02**  
**2404336-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0724	04/22/24	04/23/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0345	86.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.7 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>50</b>	50		mg/kg	1	BHD0728	04/22/24	04/23/24	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>160</b>	50		"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.87	71.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-02**  
**2404336-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthylene	ND	0.330	mg/kg	1	BHD0712	04/22/24	04/22/24	EPA 8270D SIM	
Acenaphthene	ND	0.00500	"	"	"	"	"	"	"
Anthracene	ND	0.00500	"	"	"	"	"	"	"
<b>Benzo (a) anthracene</b>	<b>0.0215</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>0.0309</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>0.0696</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>0.0230</b>	0.00500	"	"	"	"	"	"	"
<b>Chrysene</b>	<b>0.0269</b>	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>0.0288</b>	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.0401</b>	0.00500	"	"	"	"	"	"	"
<b>Pyrene</b>	<b>0.0998</b>	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0189	56.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0167	50.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0747	04/22/24	05/02/24	EPA 6020B	

**Total Metals by EPA 6020B**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**SS-02**  
**2404336-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.61	0.181	mg/kg dry	1	BHD1037	04/29/24	05/15/24	EPA 6020B	
Barium	78.3	0.362	"	"	"	"	"	"	
Cadmium	0.301	0.181	"	"	"	"	"	"	
Copper	12.3	0.362	"	"	"	"	"	"	
Lead	19.5	0.181	"	"	"	"	"	"	
Nickel	4.53	0.362	"	"	"	"	"	"	
Silver	0.0554	0.0181	"	"	"	"	"	"	
Zinc	42.1	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0805	04/23/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	83.5	0.0500	mg/L dry	1	BHE0036	05/01/24	05/22/24	EPA 6020B	
Magnesium	7.12	0.0500	"	"	"	"	"	"	
Sodium	13.4	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.378	0.00100	units	1	BHE0732	05/23/24	05/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**SS-02**  
**2404336-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.3		%	1	BHD0770	04/22/24	04/22/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.332	0.0100	mmhos/cm	1	BHE0038	05/01/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BHE0037	05/01/24	05/06/24	EPA 9045D	

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-03**  
**2404336-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHD0724	04/22/24	04/23/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0358	89.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>87</b>	50	mg/kg	1	BHD0728	04/22/24	04/23/24	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>170</b>	50	"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.31	58.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**SS-03**  
**2404336-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthylene	ND	0.330	mg/kg	1	BHD0712	04/22/24	04/23/24	EPA 8270D SIM	
Acenaphthene	ND	0.00500	"	"	"	"	"	"	
<b>Anthracene</b>	<b>0.00567</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0548</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.0626</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (b) fluoranthene</b>	<b>0.100</b>	0.00500	"	"	"	"	"	"	
<b>Benzo (k) fluoranthene</b>	<b>0.0355</b>	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0585</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0500</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.00588</b>	0.00500	"	"	"	"	"	"	
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.129</b>	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.266</b>	0.00500	"	"	"	"	"	"	E
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0178	53.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.3 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0747	04/22/24	05/02/24	EPA 6020B	

**Total Metals by EPA 6020B**

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PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-03**  
**2404336-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.91</b>	0.200	mg/kg dry	1	BHD1037	04/29/24	05/15/24	EPA 6020B	
<b>Barium</b>	<b>51.9</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>6.29</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>12.6</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>4.44</b>	0.400	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0219</b>	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>31.9</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0805	04/23/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>308</b>	0.0500	mg/L dry	1	BHE0036	05/01/24	05/22/24	EPA 6020B	
<b>Magnesium</b>	<b>12.1</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>6.67</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Sodium Adsorption Ratio</b>	<b>0.101</b>	0.00100	units	1	BHE0732	05/23/24	05/23/24	Calculation	

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**SS-03**  
**2404336-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.6		%	1	BHD0770	04/22/24	04/22/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

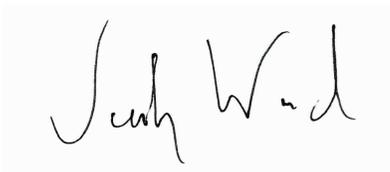
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.211	0.0100	mmhos/cm	1	BHE0038	05/01/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BHE0037	05/01/24	05/06/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-04**  
**2404336-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0724	04/22/24	04/23/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0375	93.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>51</b>	50		mg/kg	1	BHD0728	04/22/24	04/23/24	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>85</b>	50		"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.64	53.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**SS-04**  
**2404336-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthylene	ND	0.330	mg/kg	1	BHD0712	04/22/24	04/23/24	EPA 8270D SIM	
Acenaphthene	ND	0.00500	"	"	"	"	"	"	"
Anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
<b>Pyrene</b>	<b>0.0105</b>	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0145	43.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0747	04/22/24	05/02/24	EPA 6020B	

**Total Metals by EPA 6020B**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-04**  
**2404336-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.46	0.200	mg/kg dry	1	BHD1037	04/29/24	05/15/24	EPA 6020B	
Barium	85.5	0.400	"	"	"	"	"	"	
Cadmium	0.403	0.200	"	"	"	"	"	"	
Copper	22.4	0.400	"	"	"	"	"	"	
Lead	16.2	0.200	"	"	"	"	"	"	
Nickel	4.61	0.400	"	"	"	"	"	"	
Silver	0.0837	0.0200	"	"	"	"	"	"	
Zinc	43.6	0.400	"	"	"	"	"	"	
Selenium	0.301	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0805	04/23/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	338	0.0500	mg/L dry	1	BHE0036	05/01/24	05/22/24	EPA 6020B	
Magnesium	53.1	0.0500	"	"	"	"	"	"	
Sodium	136	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.82	0.00100	units	1	BHE0732	05/23/24	05/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**SS-04**  
**2404336-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BHD0770	04/22/24	04/22/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

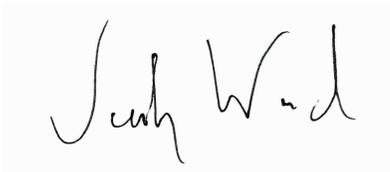
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.569	0.0100	mmhos/cm	1	BHE0038	05/01/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.34		pH Units	1	BHE0037	05/01/24	05/06/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-05**  
**2404336-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHD0724	04/22/24	04/23/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.7 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHD0728	04/22/24	04/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.26	66.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-05**  
**2404336-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthylene	ND	0.330	mg/kg	1	BHD0712	04/22/24	04/23/24	EPA 8270D SIM	
Acenaphthene	ND	0.00500	"	"	"	"	"	"	"
Anthracene	ND	0.00500	"	"	"	"	"	"	"
<b>Benzo (a) anthracene</b>	<b>0.00721</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (a) pyrene</b>	<b>0.0112</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (b) fluoranthene</b>	<b>0.0182</b>	0.00500	"	"	"	"	"	"	"
<b>Benzo (k) fluoranthene</b>	<b>0.00610</b>	0.00500	"	"	"	"	"	"	"
<b>Chrysene</b>	<b>0.00922</b>	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
<b>Fluoranthene</b>	<b>0.00628</b>	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
<b>Indeno (1,2,3-cd) pyrene</b>	<b>0.0182</b>	0.00500	"	"	"	"	"	"	"
<b>Pyrene</b>	<b>0.0334</b>	0.00500	"	"	"	"	"	"	"
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
<b>2-Methylnaphthalene</b>	<b>0.00506</b>	0.00500	"	"	"	"	"	"	"

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0140	42.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0747	04/22/24	05/02/24	EPA 6020B	

**Total Metals by EPA 6020B**

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PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**SS-05**  
**2404336-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.34	0.200	mg/kg dry	1	BHD1037	04/29/24	05/15/24	EPA 6020B	
Barium	93.0	0.400	"	"	"	"	"	"	
Cadmium	0.382	0.200	"	"	"	"	"	"	
Copper	22.1	0.400	"	"	"	"	"	"	
Lead	19.0	0.200	"	"	"	"	"	"	
Nickel	4.96	0.400	"	"	"	"	"	"	
Silver	0.0827	0.0200	"	"	"	"	"	"	
Zinc	46.5	0.400	"	"	"	"	"	"	
Selenium	0.307	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0805	04/23/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	123	0.0500	mg/L dry	1	BHE0036	05/01/24	05/22/24	EPA 6020B	
Magnesium	11.7	0.0500	"	"	"	"	"	"	
Sodium	23.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.542	0.00100	units	1	BHE0732	05/23/24	05/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**SS-05**  
**2404336-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.9		%	1	BHD0770	04/22/24	04/22/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

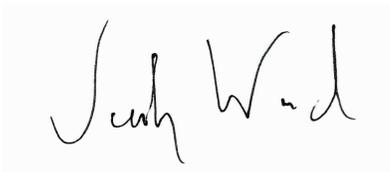
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.328	0.0100	mmhos/cm	1	BHE0038	05/01/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHE0037	05/01/24	05/06/24	EPA 9045D	

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

#### Batch BHD0724 - EPA 5030 Soil MS

##### Blank (BHD0724-BLK1)

Prepared & Analyzed: 04/22/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0528		"	0.0400		132	50-150			
<i>Surrogate: Toluene-d8</i>	0.0362		"	0.0400		90.5	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0393		"	0.0400		98.3	50-150			

##### LCS (BHD0724-BS1)

Prepared & Analyzed: 04/22/24

Benzene	0.0848	0.0020	mg/kg	0.100		84.8	70-130			
Toluene	0.0885	0.0050	"	0.100		88.5	70-130			
Ethylbenzene	0.0977	0.0050	"	0.100		97.7	70-130			
m,p-Xylene	0.183	0.010	"	0.200		91.6	70-130			
o-Xylene	0.0927	0.0050	"	0.100		92.7	70-130			
1,2,4-Trimethylbenzene	0.0920	0.0050	"	0.100		92.0	70-130			
1,3,5-Trimethylbenzene	0.0928	0.0050	"	0.100		92.8	70-130			
Naphthalene	0.0956	0.0038	"	0.100		95.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0498		"	0.0400		125	50-150			
<i>Surrogate: Toluene-d8</i>	0.0376		"	0.0400		94.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0380		"	0.0400		95.0	50-150			

##### Matrix Spike (BHD0724-MS1)

Source: 2404307-01

Prepared & Analyzed: 04/22/24

Benzene	0.0770	0.0020	mg/kg	0.100	ND	77.0	70-130			
Toluene	0.0773	0.0050	"	0.100	ND	77.3	70-130			
Ethylbenzene	0.0817	0.0050	"	0.100	ND	81.7	70-130			
m,p-Xylene	0.152	0.010	"	0.200	ND	76.0	70-130			
o-Xylene	0.0767	0.0050	"	0.100	ND	76.7	70-130			
1,2,4-Trimethylbenzene	0.0681	0.0050	"	0.100	ND	68.1	70-130			QM-07
1,3,5-Trimethylbenzene	0.0700	0.0050	"	0.100	ND	70.0	70-130			
Naphthalene	0.0650	0.0038	"	0.100	ND	65.0	70-130			QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0532		"	0.0400		133	50-150			
<i>Surrogate: Toluene-d8</i>	0.0388		"	0.0400		97.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0392		"	0.0400		98.0	50-150			

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHD0724 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BHD0724-MSD1)</b>	<b>Source: 2404307-01</b>			<b>Prepared &amp; Analyzed: 04/22/24</b>						
Benzene	0.0867	0.0020	mg/kg	0.100	ND	86.7	70-130	11.9	30	
Toluene	0.0819	0.0050	"	0.100	ND	81.9	70-130	5.77	30	
Ethylbenzene	0.0801	0.0050	"	0.100	ND	80.1	70-130	1.97	30	
m,p-Xylene	0.149	0.010	"	0.200	ND	74.4	70-130	2.19	30	
o-Xylene	0.0736	0.0050	"	0.100	ND	73.6	70-130	4.03	30	
1,2,4-Trimethylbenzene	0.0593	0.0050	"	0.100	ND	59.3	70-130	13.8	30	QM-07
1,3,5-Trimethylbenzene	0.0610	0.0050	"	0.100	ND	61.0	70-130	13.6	30	QM-07
Naphthalene	0.0521	0.0038	"	0.100	ND	52.1	70-130	22.1	30	QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0608</i>		<i>"</i>	<i>0.0400</i>		<i>152</i>	<i>50-150</i>			<i>QM-07</i>
<i>Surrogate: Toluene-d8</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.7</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.0</i>	<i>50-150</i>			

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
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**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHD0728 - EPA 3550A**

**Blank (BHD0728-BLK1)**

Prepared: 04/22/24 Analyzed: 04/23/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.7		"	12.5		117		30-150			

**LCS (BHD0728-BS1)**

Prepared: 04/22/24 Analyzed: 04/23/24

C10-C28 (DRO)	513	50	mg/kg	500		103		70-130			
Surrogate: <i>o</i> -Terphenyl	13.1		"	12.5		105		30-150			

**Matrix Spike (BHD0728-MS1)**

Source: 2404307-01

Prepared: 04/22/24 Analyzed: 04/23/24

C10-C28 (DRO)	518	50	mg/kg	500	32.0	97.2		70-130			
Surrogate: <i>o</i> -Terphenyl	7.92		"	12.5		63.4		30-150			

**Matrix Spike Dup (BHD0728-MSD1)**

Source: 2404307-01

Prepared: 04/22/24 Analyzed: 04/23/24

C10-C28 (DRO)	447	50	mg/kg	500	32.0	82.9		70-130	14.8	20	
Surrogate: <i>o</i> -Terphenyl	7.84		"	12.5		62.7		30-150			

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

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**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHD0712 - EPA 5030 Soil MS**

**Blank (BHD0712-BLK1)**

Prepared & Analyzed: 04/22/24

Acenaphthylene	ND	0.330	mg/kg							
Acenaphthene	ND	0.00500	"							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0276		"	0.0333		82.8	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0277		"	0.0333		83.1	40-150			

**LCS (BHD0712-BS1)**

Prepared & Analyzed: 04/22/24

Acenaphthylene	0.0307	0.330	mg/kg	0.0333		92.1	30-120			
Acenaphthene	0.0310	0.00500	"	0.0333		93.0	31-137			
Anthracene	0.0314	0.00500	"	0.0333		94.2	30-120			
Benzo (a) anthracene	0.0285	0.00500	"	0.0333		85.4	30-120			
Benzo (a) pyrene	0.0242	0.00500	"	0.0333		72.6	30-120			
Benzo (b) fluoranthene	0.0259	0.00500	"	0.0333		77.6	30-120			
Benzo (k) fluoranthene	0.0300	0.00500	"	0.0333		89.9	30-120			
Chrysene	0.0325	0.00500	"	0.0333		97.6	30-120			
Dibenz (a,h) anthracene	0.0206	0.00500	"	0.0333		61.7	30-120			
Fluoranthene	0.0310	0.00500	"	0.0333		92.9	30-120			
Fluorene	0.0268	0.00500	"	0.0333		80.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0193	0.00500	"	0.0333		57.9	30-120			
Pyrene	0.0335	0.00500	"	0.0333		100	35-142			
1-Methylnaphthalene	0.0344	0.00500	"	0.0333		103	35-142			
2-Methylnaphthalene	0.0265	0.00500	"	0.0333		79.5	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0303		"	0.0333		90.8	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0287		"	0.0333		86.0	40-150			

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**PAH by EPA Method 8270D SIM - Quality Control**

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Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHD0712 - EPA 5030 Soil MS**

<b>Matrix Spike (BHD0712-MS1)</b>	<b>Source: 2404336-01</b>			<b>Prepared &amp; Analyzed: 04/22/24</b>							
Acenaphthylene	ND	0.330	mg/kg	0.0333	ND		15-130				QM-01
Acenaphthene	0.0153	0.00500	"	0.0333	ND	46.0	31-137				
Anthracene	0.0165	0.00500	"	0.0333	ND	49.6	30-120				
Benzo (a) anthracene	0.0193	0.00500	"	0.0333	0.00514	42.4	30-120				
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	0.00631	30.0	30-120				
Benzo (b) fluoranthene	0.0185	0.00500	"	0.0333	0.0138	14.0	30-120				QM-01
Benzo (k) fluoranthene	0.0181	0.00500	"	0.0333	0.00618	35.8	30-120				
Chrysene	0.0196	0.00500	"	0.0333	0.00521	43.2	30-120				
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120				
Fluoranthene	0.0200	0.00500	"	0.0333	0.00685	39.3	30-120				
Fluorene	0.0180	0.00500	"	0.0333	ND	54.1	30-120				
Indeno (1,2,3-cd) pyrene	0.0140	0.00500	"	0.0333	ND	42.1	30-120				
Pyrene	0.0211	0.00500	"	0.0333	0.0138	22.1	35-142				QM-01
1-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.3	15-130				
2-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.9	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0160</i>		<i>"</i>	<i>0.0333</i>		<i>47.9</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0194</i>		<i>"</i>	<i>0.0333</i>		<i>58.3</i>	<i>40-150</i>				

<b>Matrix Spike Dup (BHD0712-MSD1)</b>	<b>Source: 2404336-01</b>			<b>Prepared &amp; Analyzed: 04/22/24</b>							
Acenaphthylene	ND	0.330	mg/kg	0.0333	ND		15-130		50		QM-01
Acenaphthene	0.0161	0.00500	"	0.0333	ND	48.4	31-137	4.98	30		
Anthracene	0.0166	0.00500	"	0.0333	ND	49.8	30-120	0.381	30		
Benzo (a) anthracene	0.0203	0.00500	"	0.0333	0.00514	45.4	30-120	5.02	30		
Benzo (a) pyrene	0.0185	0.00500	"	0.0333	0.00631	36.5	30-120	12.6	30		
Benzo (b) fluoranthene	0.0251	0.00500	"	0.0333	0.0138	33.7	30-120	30.2	30		QM-01
Benzo (k) fluoranthene	0.0211	0.00500	"	0.0333	0.00618	44.7	30-120	15.1	30		
Chrysene	0.0182	0.00500	"	0.0333	0.00521	39.1	30-120	7.17	30		
Dibenz (a,h) anthracene	0.0149	0.00500	"	0.0333	ND	44.7	30-120	0.770	30		
Fluoranthene	0.0219	0.00500	"	0.0333	0.00685	45.1	30-120	9.30	30		
Fluorene	0.0172	0.00500	"	0.0333	ND	51.5	30-120	5.04	30		
Indeno (1,2,3-cd) pyrene	0.0154	0.00500	"	0.0333	ND	46.3	30-120	9.47	30		
Pyrene	0.0271	0.00500	"	0.0333	0.0138	40.2	35-142	24.9	30		
1-Methylnaphthalene	0.0186	0.00500	"	0.0333	ND	55.8	15-130	10.4	50		
2-Methylnaphthalene	0.0172	0.00500	"	0.0333	ND	51.6	15-130	9.64	50		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0182</i>		<i>"</i>	<i>0.0333</i>		<i>54.5</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0182</i>		<i>"</i>	<i>0.0333</i>		<i>54.7</i>	<i>40-150</i>				

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHD0747 - EPA 3050B**

**Blank (BHD0747-BLK1)**

Prepared: 04/22/24 Analyzed: 05/02/24

Boron ND 2.00 mg/L

**LCS (BHD0747-BS1)**

Prepared: 04/22/24 Analyzed: 05/02/24

Boron 4.88 2.00 mg/L 5.00 97.6 80-120

**Duplicate (BHD0747-DUP1)**

Source: 2402319-01RE1

Prepared: 04/22/24 Analyzed: 05/02/24

Boron 2.65 2.00 mg/L 2.58 2.72 20

**Matrix Spike (BHD0747-MS1)**

Source: 2402319-01RE1

Prepared: 04/22/24 Analyzed: 05/02/24

Boron 7.81 2.00 mg/L 5.05 2.58 104 75-125

**Matrix Spike Dup (BHD0747-MSD1)**

Source: 2402319-01RE1

Prepared: 04/22/24 Analyzed: 05/02/24

Boron 7.56 2.00 mg/L 5.05 2.58 98.8 75-125 3.29 25

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

**Batch BHD1037 - EPA 3050B**

**Blank (BHD1037-BLK1)**

Prepared: 04/29/24 Analyzed: 05/15/24

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	ND	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						
Selenium	ND	0.260	"						

**LCS (BHD1037-BS1)**

Prepared: 04/29/24 Analyzed: 05/15/24

Arsenic	37.9	0.200	mg/kg wet	40.0	94.7	80-120
Barium	39.5	0.400	"	40.0	98.8	80-120
Cadmium	1.98	0.200	"	2.00	98.9	80-120
Copper	38.5	0.400	"	40.0	96.3	80-120
Lead	19.5	0.200	"	20.0	97.5	80-120
Nickel	42.1	0.400	"	40.0	105	80-120
Silver	1.98	0.0200	"	2.00	99.1	80-120
Zinc	38.1	0.400	"	40.0	95.2	80-120
Selenium	3.89	0.260	"	4.00	97.3	80-120

**Duplicate (BHD1037-DUP1)**

Source: 2404289-01

Prepared: 04/29/24 Analyzed: 05/15/24

Arsenic	0.526	0.200	mg/kg dry	0.434	19.0	20	
Barium	6.23	0.400	"	5.53	11.9	20	
Cadmium	0.0336	0.200	"	0.0260	25.6	20	QR-01
Copper	1.07	0.400	"	1.06	1.21	20	
Lead	1.51	0.200	"	1.61	6.45	20	
Nickel	0.812	0.400	"	0.639	23.9	20	QR-01
Silver	0.00497	0.0200	"	0.00710	35.2	20	QR-01
Zinc	5.88	0.400	"	5.60	4.79	20	
Selenium	ND	0.260	"	ND		20	

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Fremont Environmental  
 PO Box 1289  
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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BHD1037 - EPA 3050B**

**Matrix Spike (BHD1037-MS1)**

Source: 2404289-01

Prepared: 04/29/24 Analyzed: 05/15/24

Arsenic	36.6	0.200	mg/kg dry	37.4	0.434	96.8	75-125			
Barium	45.1	0.400	"	37.4	5.53	106	75-125			
Cadmium	2.03	0.200	"	1.87	0.0260	107	75-125			
Copper	37.4	0.400	"	37.4	1.06	97.1	75-125			
Lead	21.2	0.200	"	18.7	1.61	105	75-125			
Nickel	35.9	0.400	"	37.4	0.639	94.4	75-125			
Silver	1.96	0.0200	"	1.87	0.00710	105	75-125			
Zinc	41.9	0.400	"	37.4	5.60	97.2	75-125			
Selenium	3.84	0.260	"	3.74	ND	103	75-125			

**Matrix Spike Dup (BHD1037-MSD1)**

Source: 2404289-01

Prepared: 04/29/24 Analyzed: 05/15/24

Arsenic	36.7	0.200	mg/kg dry	37.4	0.434	97.1	75-125	0.302	25
Barium	42.6	0.400	"	37.4	5.53	99.2	75-125	5.71	25
Cadmium	1.88	0.200	"	1.87	0.0260	99.3	75-125	7.38	25
Copper	37.6	0.400	"	37.4	1.06	97.7	75-125	0.575	25
Lead	20.0	0.200	"	18.7	1.61	98.3	75-125	5.84	25
Nickel	35.4	0.400	"	37.4	0.639	93.0	75-125	1.49	25
Silver	1.82	0.0200	"	1.87	0.00710	97.2	75-125	7.38	25
Zinc	42.2	0.400	"	37.4	5.60	97.8	75-125	0.529	25
Selenium	3.78	0.260	"	3.74	ND	101	75-125	1.71	25

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHD0805 - 3060A Mod**

**Blank (BHD0805-BLK1)**

Prepared: 04/23/24 Analyzed: 04/24/24

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BHD0805-BS1)**

Prepared: 04/23/24 Analyzed: 04/24/24

Chromium, Hexavalent      24.8      0.30 mg/kg wet      25.0      99.4      80-120

**Duplicate (BHD0805-DUP1)**

**Source: 2404263-01**

Prepared: 04/23/24 Analyzed: 04/24/24

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BHD0805-MS1)**

**Source: 2404263-01**

Prepared: 04/23/24 Analyzed: 04/24/24

Chromium, Hexavalent      23.9      0.30 mg/kg dry      29.7      ND      80.6      75-125

**Matrix Spike Dup (BHD0805-MSD1)**

**Source: 2404263-01**

Prepared: 04/23/24 Analyzed: 04/24/24

Chromium, Hexavalent      24.4      0.30 mg/kg dry      29.7      ND      82.0      75-125      1.72      20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BHE0036 - General Preparation**

**Blank (BHE0036-BLK1)**

Prepared: 05/01/24 Analyzed: 05/22/24

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

**LCS (BHE0036-BS1)**

Prepared: 05/01/24 Analyzed: 05/22/24

Calcium	5.48	0.0500	mg/L wet	5.00		110	70-130			
Magnesium	5.10	0.0500	"	5.00		102	70-130			
Sodium	5.17	0.0500	"	5.00		103	70-130			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHD0770 - General Preparation**

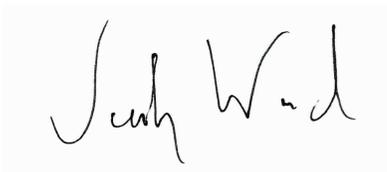
**Duplicate (BHD0770-DUP1)**

**Source: 2404298-01**

Prepared & Analyzed: 04/22/24

% Solids	77.6		%		77.1			0.610		20	
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Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHE0038 - General Preparation**

**Blank (BHE0038-BLK1)**

Prepared: 05/01/24 Analyzed: 05/06/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHE0038-BS1)**

Prepared: 05/01/24 Analyzed: 05/06/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

**Duplicate (BHE0038-DUP1)**

Source: 2404287-02

Prepared: 05/01/24 Analyzed: 05/06/24

Specific Conductance (EC) 0.686 0.0100 mmhos/cm 0.690 0.596 20

Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 05/24/24 16:21

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHE0037 - General Preparation**

**LCS (BHE0037-BS1)**

Prepared: 05/01/24 Analyzed: 05/06/24

pH	9.11	pH Units	9.18	99.2	95-105
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**Duplicate (BHE0037-DUP1)**

Source: 2404287-02

Prepared: 05/01/24 Analyzed: 05/06/24

pH	8.27	pH Units	8.29	0.242	20
----	------	----------	------	-------	----

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
05/24/24 16:21

### Notes and Definitions

- QR-01      Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- QM-01      The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- E            The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET        Analyte DETECTED
- ND        Analyte NOT DETECTED at or above the reporting limit
- NR        Not Reported
- dry        Sample results reported on a dry weight basis
- RPD        Relative Percent Difference

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 04, 2024

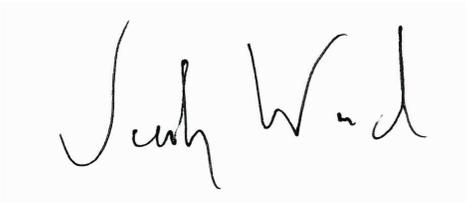
Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Chevron - Wells Ranch 34F

Work Order #2404337

Enclosed are the results of analyses for samples received by Summit Scientific on 04/19/24 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small "nd" at the end of the last name.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/04/24 13:21

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-N	2404337-01	Soil	04/19/24 17:00	04/19/24 17:00
BG-S	2404337-02	Soil	04/19/24 17:00	04/19/24 17:00
BG-E	2404337-03	Soil	04/19/24 17:00	04/19/24 17:00
BG-W	2404337-04	Soil	04/19/24 17:00	04/19/24 17:00
BG-IN	2404337-05	Soil	04/19/24 17:00	04/19/24 17:00

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

<b>Send Data To:</b>		<b>Send Invoice To:</b>
Client: Fremont	Project Manager: Paul Henehan	Company: CHEVRON
Address:	E-Mail:	Project Name/Location: WELLS RANCH 34F
City/State/Zip:		AFE#:
Phone:	Project Name: WELLS RANCH 34F	PO/Billing Codes:
Sampler Name: HENEHAN	Project Number:	Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested		Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other			
1	BG-N	4/19/24			2		✓						✓	915 INORGANICS	
2	BG-S	↓			↓								↓	915 METALS	
3	BG-E	↓			↓								↓		
4	BG-W	↓			↓								↓		
5	BG-IN	↓			↓								↓		
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															

Relinquished by: <i>[Signature]</i>	Date/Time: 4/19/24 1200	Received by: <i>[Signature]</i>	Date/Time: 4/19/24 1700	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 0.1	Corrected Temperature: 0	IR gun #:		HNO3 lot #:		

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2404337

Client: Fremont

Client Project ID: Wellbranch 34F

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: \_\_\_\_\_

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NO SAMPLE TIMES
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

AS

Custodian Printed Name

4/19/24  
Date/Time



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**BG-N**  
**2404337-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0818	04/23/24	05/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.23	0.200		mg/kg dry	1	BHD1060	04/30/24	05/22/24	EPA 6020B	
Barium	68.4	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	7.25	0.400		"	"	"	"	"	"	
Lead	7.75	0.200		"	"	"	"	"	"	
Nickel	7.66	0.400		"	"	"	"	"	"	
Silver	0.0302	0.0200		"	"	"	"	"	"	
Zinc	29.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0877	04/24/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	138	0.0500		mg/L dry	1	BHE0077	05/02/24	06/03/24	EPA 6020B	
Magnesium	26.7	0.0500		"	"	"	"	"	"	
Sodium	2.23	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**BG-N**  
**2404337-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0455	0.00100	units	1	BHF0067	06/04/24	06/04/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.3		%	1	BHD0810	04/23/24	04/23/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.127	0.0100	mmhos/cm	1	BHE0078	05/02/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.12		pH Units	1	BHE0079	05/02/24	05/06/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/04/24 13:21

**BG-S**  
**2404337-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0818	04/23/24	05/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>2.40</b>	0.200	mg/kg dry	1	BHD1060	04/30/24	05/22/24	EPA 6020B	
<b>Barium</b>	<b>66.1</b>	0.400	"	"	"	"	"	"	
<b>Cadmium</b>	<b>0.241</b>	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>7.48</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>7.98</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>5.91</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>26.2</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0877	04/24/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>44.0</b>	0.0500	mg/L dry	1	BHE0077	05/02/24	06/03/24	EPA 6020B	
<b>Magnesium</b>	<b>9.96</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>10.8</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**BG-S**  
**2404337-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.383</b>	0.00100	units	1	BHF0067	06/04/24	06/04/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>92.8</b>		%	1	BHD0810	04/23/24	04/23/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.425</b>	0.0100	mmhos/cm	1	BHE0078	05/02/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.25</b>		pH Units	1	BHE0079	05/02/24	05/06/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/04/24 13:21

**BG-E**  
**2404337-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHD0818	04/23/24	05/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Arsenic</b>	<b>2.44</b>	0.200		mg/kg dry	1	BHD1060	04/30/24	05/22/24	EPA 6020B	
<b>Barium</b>	<b>54.8</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
<b>Copper</b>	<b>5.24</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>6.48</b>	0.200		"	"	"	"	"	"	
<b>Nickel</b>	<b>5.00</b>	0.400		"	"	"	"	"	"	
<b>Silver</b>	<b>0.0222</b>	0.0200		"	"	"	"	"	"	
<b>Zinc</b>	<b>20.8</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHD0877	04/24/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>118</b>	0.0500		mg/L dry	1	BHE0077	05/02/24	06/03/24	EPA 6020B	
<b>Magnesium</b>	<b>19.2</b>	0.0500		"	"	"	"	"	"	
<b>Sodium</b>	<b>0.652</b>	0.0500		"	"	"	"	"	"	

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 PO Box 1289  
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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**BG-E**  
**2404337-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0147	0.00100	units	1	BHF0067	06/04/24	06/04/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BHD0810	04/23/24	04/23/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.147	0.0100	mmhos/cm	1	BHE0078	05/02/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.48		pH Units	1	BHE0079	05/02/24	05/06/24	EPA 9045D	

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/04/24 13:21

**BG-W**  
**2404337-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0818	04/23/24	05/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>2.98</b>	0.200	mg/kg dry	1	BHD1060	04/30/24	05/22/24	EPA 6020B	
Barium	<b>76.8</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.234</b>	0.200	"	"	"	"	"	"	
Copper	<b>7.91</b>	0.400	"	"	"	"	"	"	
Lead	<b>8.06</b>	0.200	"	"	"	"	"	"	
Nickel	<b>7.77</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0313</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>31.6</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0877	04/24/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>258</b>	0.0500	mg/L dry	1	BHE0077	05/02/24	06/03/24	EPA 6020B	
Magnesium	<b>50.1</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>3.16</b>	0.0500	"	"	"	"	"	"	

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/04/24 13:21

**BG-W**  
**2404337-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0471	0.00100	units	1	BHF0067	06/04/24	06/04/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.3		%	1	BHD0810	04/23/24	04/23/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.204	0.0100	mmhos/cm	1	BHE0078	05/02/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.08		pH Units	1	BHE0079	05/02/24	05/06/24	EPA 9045D	

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/04/24 13:21

**BG-IN**  
**2404337-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0818	04/23/24	05/25/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.22	0.200	mg/kg dry	1	BHD1060	04/30/24	05/22/24	EPA 6020B	
Barium	119	0.400	"	"	"	"	"	"	
Cadmium	0.570	0.200	"	"	"	"	"	"	
Copper	27.6	0.400	"	"	"	"	"	"	
Lead	18.7	0.200	"	"	"	"	"	"	
Nickel	11.8	0.400	"	"	"	"	"	"	
Silver	0.105	0.0200	"	"	"	"	"	"	
Zinc	61.1	0.400	"	"	"	"	"	"	
Selenium	0.402	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0877	04/24/24	04/24/24	EPA 7196A	

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	50.4	0.0500	mg/L dry	1	BHE0077	05/02/24	06/03/24	EPA 6020B	
Magnesium	11.6	0.0500	"	"	"	"	"	"	
Sodium	3.44	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/04/24 13:21

**BG-IN**  
**2404337-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.114	0.00100	units	1	BHF0067	06/04/24	06/04/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.7		%	1	BHD0810	04/23/24	04/23/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.214	0.0100	mmhos/cm	1	BHE0078	05/02/24	05/06/24	EPA 120.1	

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction**

Date Sampled: **04/19/24 17:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BHE0079	05/02/24	05/06/24	EPA 9045D	

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHD0818 - EPA 3050B**

**Blank (BHD0818-BLK1)**

Prepared: 04/23/24 Analyzed: 05/25/24

Boron ND 2.00 mg/L

**LCS (BHD0818-BS1)**

Prepared: 04/23/24 Analyzed: 05/25/24

Boron 4.76 2.00 mg/L 5.00 95.1 80-120

**Duplicate (BHD0818-DUP1)**

Source: 2402360-01RE1

Prepared: 04/23/24 Analyzed: 05/25/24

Boron 4.68 2.00 mg/L 4.23 10.2 20

**Matrix Spike (BHD0818-MS1)**

Source: 2402360-01RE1

Prepared: 04/23/24 Analyzed: 05/25/24

Boron 10.9 2.00 mg/L 5.01 4.23 134 75-125 QM-07

**Matrix Spike Dup (BHD0818-MSD1)**

Source: 2402360-01RE1

Prepared: 04/23/24 Analyzed: 05/25/24

Boron 11.4 2.00 mg/L 5.01 4.23 143 75-125 3.97 25 QM-07

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

**Batch BHD1060 - EPA 3050B**

**Blank (BHD1060-BLK1)**

Prepared: 04/30/24 Analyzed: 05/22/24

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	ND	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						
Selenium	ND	0.260	"						

**LCS (BHD1060-BS1)**

Prepared: 04/30/24 Analyzed: 05/22/24

Arsenic	43.5	0.200	mg/kg wet	40.0		109	80-120
Barium	40.1	0.400	"	40.0		100	80-120
Cadmium	1.96	0.200	"	2.00		98.2	80-120
Copper	40.4	0.400	"	40.0		101	80-120
Lead	19.2	0.200	"	20.0		95.9	80-120
Nickel	43.6	0.400	"	40.0		109	80-120
Silver	1.95	0.0200	"	2.00		97.4	80-120
Zinc	40.4	0.400	"	40.0		101	80-120
Selenium	3.95	0.260	"	4.00		98.7	80-120

**Duplicate (BHD1060-DUP1)**

Source: 2404331-01

Prepared: 04/30/24 Analyzed: 05/22/24

Arsenic	1.48	0.200	mg/kg dry		1.35		8.75	20
Barium	9.73	0.400	"		10.0		2.85	20
Cadmium	0.0881	0.200	"		0.0738		17.6	20
Copper	1.84	0.400	"		1.67		9.26	20
Lead	2.55	0.200	"		2.33		8.66	20
Nickel	1.78	0.400	"		1.79		0.671	20
Silver	0.0127	0.0200	"		0.0120		5.95	20
Zinc	7.88	0.400	"		8.21		4.05	20
Selenium	ND	0.260	"		ND			20

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch BHD1060 - EPA 3050B**

**Matrix Spike (BHD1060-MS1)**

Source: 2404331-01

Prepared: 04/30/24 Analyzed: 05/22/24

Arsenic	40.7	0.200	mg/kg dry	39.4	1.35	100	75-125			
Barium	47.2	0.400	"	39.4	10.0	94.4	75-125			
Cadmium	2.06	0.200	"	1.97	0.0738	101	75-125			
Copper	41.9	0.400	"	39.4	1.67	102	75-125			
Lead	21.6	0.200	"	19.7	2.33	97.8	75-125			
Nickel	42.9	0.400	"	39.4	1.79	104	75-125			
Silver	1.95	0.0200	"	1.97	0.0120	98.3	75-125			
Zinc	49.2	0.400	"	39.4	8.21	104	75-125			
Selenium	3.52	0.260	"	3.94	ND	89.5	75-125			

**Matrix Spike Dup (BHD1060-MSD1)**

Source: 2404331-01

Prepared: 04/30/24 Analyzed: 05/22/24

Arsenic	41.7	0.200	mg/kg dry	39.4	1.35	102	75-125	2.35	25
Barium	48.1	0.400	"	39.4	10.0	96.8	75-125	2.03	25
Cadmium	2.13	0.200	"	1.97	0.0738	104	75-125	3.23	25
Copper	43.0	0.400	"	39.4	1.67	105	75-125	2.51	25
Lead	22.1	0.200	"	19.7	2.33	100	75-125	2.31	25
Nickel	44.1	0.400	"	39.4	1.79	107	75-125	2.75	25
Silver	1.98	0.0200	"	1.97	0.0120	99.9	75-125	1.60	25
Zinc	50.7	0.400	"	39.4	8.21	108	75-125	2.94	25
Selenium	3.59	0.260	"	3.94	ND	91.2	75-125	1.96	25

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHD0877 - 3060A Mod**

**Blank (BHD0877-BLK1)**

Prepared & Analyzed: 04/24/24

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BHD0877-BS1)**

Prepared & Analyzed: 04/24/24

Chromium, Hexavalent      25.8      0.30 mg/kg wet      25.0      103      80-120

**Duplicate (BHD0877-DUP1)**

**Source: 2404337-01**

Prepared & Analyzed: 04/24/24

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BHD0877-MS1)**

**Source: 2404337-01**

Prepared & Analyzed: 04/24/24

Chromium, Hexavalent      28.2      0.30 mg/kg dry      27.7      ND      102      75-125

**Matrix Spike Dup (BHD0877-MSD1)**

**Source: 2404337-01**

Prepared & Analyzed: 04/24/24

Chromium, Hexavalent      28.1      0.30 mg/kg dry      27.7      ND      102      75-125      0.197      20

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

**Batch BHE0077 - General Preparation**

**Blank (BHE0077-BLK1)**

Prepared: 05/02/24 Analyzed: 06/03/24

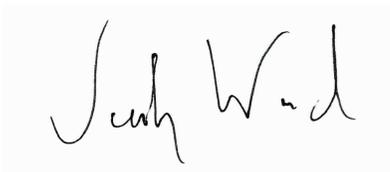
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

**LCS (BHE0077-BS1)**

Prepared: 05/02/24 Analyzed: 06/03/24

Calcium	5.36	0.0500	mg/L wet	5.00		107	70-130			
Magnesium	5.13	0.0500	"	5.00		103	70-130			
Sodium	5.38	0.0500	"	5.00		108	70-130			

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike	Source	%REC			RPD	Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHD0810 - General Preparation**

**Duplicate (BHD0810-DUP1)**

**Source: 2404330-01**

Prepared & Analyzed: 04/23/24

% Solids	90.6		%		90.8			0.196	20	
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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch BHE0078 - General Preparation**

**Blank (BHE0078-BLK1)**

Prepared: 05/02/24 Analyzed: 05/06/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHE0078-BS1)**

Prepared: 05/02/24 Analyzed: 05/06/24

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

**Duplicate (BHE0078-DUP1)**

Source: 2404314-01

Prepared: 05/02/24 Analyzed: 05/06/24

Specific Conductance (EC) 0.434 0.0100 mmhos/cm 0.438 0.826 20

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Project: Chevron - Wells Ranch 34F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 06/04/24 13:21

**Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control**

**Summit Scientific**

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch BHE0079 - General Preparation**

**LCS (BHE0079-BS1)**

Prepared: 05/02/24 Analyzed: 05/06/24

pH	9.24		pH Units	9.18		101	95-105			
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**Duplicate (BHE0079-DUP1)**

Source: 2404314-01

Prepared: 05/02/24 Analyzed: 05/06/24

pH	8.73		pH Units	8.73		0.00	20			
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Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Chevron - Wells Ranch 34F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
06/04/24 13:21

### Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

May 07, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Wells Ranch 34F

Project Number - [none]

Attached are your analytical results for Wells Ranch 34F received by Origins Laboratory, Inc. April 26, 2024. This project is associated with Origins project number Y404781-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Wells Ranch 34F

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-06	Y404781-01	Soil	April 26, 2024 0:00	04/26/2024 15:48
SS-07	Y404781-02	Soil	April 26, 2024 0:00	04/26/2024 15:48

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

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

**Sample Receipt Checklist**

Origins Work Order: 14 04781 Client: Fremont  
 Client Project ID: Wells Ranch

Checklist Completed by: EAD/MA Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 4/26/24 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1, 10.9 °C  °C  °C (Describe) \_\_\_\_\_

Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		/		SD
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?				
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?		/		no sample times
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

EAD  
 Reviewed by (Project Manager) 4/26/24  
Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**SS-06**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404781-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.227		0.0996	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	Ua
Residual Range Organics (C28-C40)	581		100	"	"	"	"	"	

Surrogate: o-Terphenyl	103 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.6 %		70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**SS-06**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404781-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene 108 % 70-130 B4D26 30 04/26/2024 04/27/2024

**Metals by Saturated Paste by EPA 6010**

Calcium	1.15	0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.726	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D2627	04/26/2024	04/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.051	0.005	"	"	"	"	"	
Benzo (a) pyrene	0.071	0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.068	0.020	"	"	"	"	"	
Benzo (k) fluoranthene	0.030	0.020	"	"	"	"	"	
Chrysene	0.076	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	0.094	0.020	"	"	"	"	"	
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	0.077	0.020	"	"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**SS-06**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404781-01 (Soil)**

**PAH by EPA 8270E**

Naphthalene	ND		0.002	mg/kg	1	B4D2627	04/26/2024	04/29/2024	Ua
Pyrene	<b>0.084</b>		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	91.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.35</b>			pH Units	1	B4D2707	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	<b>0.828</b>		0.0100	SAR	1	B4D2701	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.260</b>		0.00500	mmhos/cm	1	B4D2707	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	<b>3.36</b>		0.264	mg/kg	10	B4D2634	04/26/2024	04/29/2024	
Barium	<b>81.8</b>		9.11	"	"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**SS-06**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404781-01 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.188		0.0911	mg/kg	10	B4D2634	04/26/2024	04/29/2024	
Copper	9.23		9.11	"	"	"	"	"	
Lead	17.2		0.911	"	"	"	"	"	
Nickel	7.76		0.911	"	"	"	"	"	
Selenium	0.479		0.237	"	"	"	"	"	
Silver	ND		0.0911	"	"	"	"	"	
Zinc	53.6		33.7	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.135	0.338	mg/kg dry	1	2605463	05/06/2024	05/07/2024	U
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Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**SS-07**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404781-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.139		0.101	mg/L	1	B4D2912	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2629	04/26/2024	04/27/2024	Ua
Residual Range Organics (C28-C40)	605		100	"	"	"	"	"	

Surrogate: o-Terphenyl	102 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2630	04/26/2024	04/27/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**SS-07**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404781-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene    110 %    70-130    B4D26 30    04/26/2024    04/27/2024

**Metals by Saturated Paste by EPA 6010**

Calcium	1.14	0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.24	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D2627	04/26/2024	04/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	0.058	0.020	"	"	"	"	"	
Benzo (a) anthracene	0.196	0.005	"	"	"	"	"	
Benzo (a) pyrene	0.219	0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.182	0.020	"	"	"	"	"	
Benzo (k) fluoranthene	0.091	0.020	"	"	"	"	"	
Chrysene	0.250	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	0.040	0.020	"	"	"	"	"	
Fluoranthene	0.322	0.020	"	"	"	"	"	
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**SS-07**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404781-02 (Soil)**

**PAH by EPA 8270E**

Naphthalene	ND		0.002	mg/kg	1	B4D2627	04/26/2024	04/29/2024	Ua
Pyrene	<b>0.326</b>		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	95.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	100 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.48</b>			pH Units	1	B4D2707	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	<b>1.48</b>		0.0100	SAR	1	B4D2701	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.287</b>		0.00500	mmhos/cm	1	B4D2707	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	<b>2.39</b>		0.271	mg/kg	10	B4D2634	04/26/2024	04/29/2024	
Barium	<b>64.4</b>		9.35	"	"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**SS-07**

**4/26/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404781-02 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.141		0.0935	mg/kg	10	B4D2634	04/26/2024	04/29/2024	
Copper	ND		9.35	"	"	"	"	"	
Lead	15.6		0.935	"	"	"	"	"	
Nickel	5.42		0.935	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0935	"	"	"	"	"	
Zinc	65.8		34.6	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.160	0.145	0.362	mg/kg dry	1	2605463	05/06/2024	05/07/2024	J
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Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4D2629 - EPA 3550B</b>										
<b>Blank (B4D2629-BLK1)</b>										
					Prepared: 04/26/2024 Analyzed: 04/26/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.9	50-150			

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2629 - EPA 3550B**

**LCS (B4D2629-BS1)**

Prepared: 04/26/2024 Analyzed: 04/26/2024

Diesel (C10-C28)	932	50.0	mg/kg	1000		93.2	70-130			
Residual Range Organics (C28-C40)	974	200	"	1000		97.4	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2629 - EPA 3550B**

<b>Matrix Spike (B4D2629-MS1)</b>	<b>Source: Y404777-01</b>			Prepared: 04/26/2024 Analyzed: 04/26/2024						
Diesel (C10-C28)	821	50.0	mg/kg	1000	ND	82.1	70-130			
Residual Range Organics (C28-C40)	846	200	"	1000	ND	84.6	70-130			
Surrogate: o-Terphenyl	53		"	49.8		108	50-150			

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4D2629 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4D2629-MSD1)</b>		<b>Source: Y404777-01</b>			Prepared: 04/26/2024 Analyzed: 04/26/2024					
Diesel (C10-C28)	836	50.0	mg/kg	1000	ND	83.6	70-130	1.82	35	
Residual Range Organics (C28-C40)	870	200	"	1000	ND	87.0	70-130	2.77	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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 Project: Wells Ranch 34F

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2630 - EPA 5030 (soil)**

**Blank (B4D2630-BLK1)**

Prepared: 04/26/2024 Analyzed: 04/27/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2630 - EPA 5030 (soil)**

**LCS (B4D2630-BS1)**

Prepared: 04/26/2024 Analyzed: 04/27/2024

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.0907	0.00380	"	0.100		90.7	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2630 - EPA 5030 (soil)

Matrix Spike (B4D2630-MS1)	Source: Y404777-01			Prepared: 04/26/2024 Analyzed: 04/27/2024						
1,2,4-Trimethylbenzene	0.0823	0.00200	mg/kg	0.100	ND	82.3	70-130			
1,3,5-Trimethylbenzene	0.0834	0.00200	"	0.100	ND	83.4	70-130			
Benzene	0.0835	0.00200	"	0.100	ND	83.5	70-130			
Ethylbenzene	0.0812	0.00200	"	0.100	ND	81.2	70-130			
Naphthalene	0.0922	0.00380	"	0.100	ND	92.2	70-130			
Toluene	0.0809	0.00200	"	0.100	ND	80.9	70-130			
o-Xylene	0.0801	0.00200	"	0.100	ND	80.1	70-130			
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2630 - EPA 5030 (soil)

Matrix Spike Dup (B4D2630-MSD1)	Source: Y404777-01			Prepared: 04/26/2024 Analyzed: 04/27/2024						
1,2,4-Trimethylbenzene	0.0873	0.00200	mg/kg	0.100	ND	87.3	70-130	5.80	20	
1,3,5-Trimethylbenzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	5.19	20	
Benzene	0.0882	0.00200	"	0.100	ND	88.2	70-130	5.48	20	
Ethylbenzene	0.0853	0.00200	"	0.100	ND	85.3	70-130	4.95	20	
Naphthalene	0.0930	0.00380	"	0.100	ND	93.0	70-130	0.886	20	
Toluene	0.0855	0.00200	"	0.100	ND	85.5	70-130	5.50	20	
o-Xylene	0.0849	0.00200	"	0.100	ND	84.9	70-130	5.84	20	
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.4	70-130	4.86	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2634 - EPA 3050B**

**Blank (B4D2634-BLK1)**

Prepared: 04/26/2024 Analyzed: 04/29/2024

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

**LCS (B4D2634-BS1)**

Prepared: 04/26/2024 Analyzed: 04/29/2024

Arsenic	5.93	0.290	mg/kg	5.00		119	80-120			
Barium	533	10.0	"	500		107	80-120			
Cadmium	5.91	0.100	"	5.00		118	80-120			
Copper	58.9	10.0	"	50.0		118	80-120			
Lead	5.81	1.00	"	5.00		116	80-120			
Nickel	5.86	1.00	"	5.00		117	80-120			
Selenium	11.1	0.260	"	9.50		117	80-120			
Zinc	59.3	37.0	"	50.0		119	80-120			

**Matrix Spike (B4D2634-MS1)**

Source: Y404763-02

Prepared: 04/26/2024 Analyzed: 04/29/2024

Arsenic	8.42	0.272	mg/kg	4.69	2.75	121	75-125			
Barium	655	9.38	"	469	119	114	75-125			

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 Project Number: [none]  
 Project: Wells Ranch 34F

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2634 - EPA 3050B**

<b>Matrix Spike (B4D2634-MS1)</b>		<b>Source: Y404763-02</b>			<b>Prepared: 04/26/2024 Analyzed: 04/29/2024</b>					
Cadmium	5.91	0.0938	mg/kg	4.69	0.155	123	75-125			
Copper	65.4	9.38	"	46.9	9.65	119	75-125			
Lead	16.0	0.938	"	4.69	11.0	107	75-125			
Nickel	15.8	0.938	"	4.69	10.8	108	75-125			
Selenium	9.84	0.244	"	8.91	0.0557	110	75-125			
Zinc	105	34.7	"	46.9	49.0	119	75-125			
<b>Matrix Spike Dup (B4D2634-MSD1)</b>		<b>Source: Y404763-02</b>			<b>Prepared: 04/26/2024 Analyzed: 04/29/2024</b>					
Arsenic	8.31	0.279	mg/kg	4.81	2.75	116	75-125	1.37	20	
Barium	688	9.61	"	481	119	118	75-125	4.95	20	
Cadmium	5.74	0.0961	"	4.81	0.155	116	75-125	2.98	20	
Copper	65.8	9.61	"	48.1	9.65	117	75-125	0.634	20	
Lead	16.2	0.961	"	4.81	11.0	109	75-125	1.34	20	
Nickel	18.5	0.961	"	4.81	10.8	161	75-125	15.7	20	QM-07
Selenium	9.75	0.250	"	9.13	0.0557	106	75-125	0.903	20	
Zinc	106	35.6	"	48.1	49.0	119	75-125	1.07	20	

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 Project: Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2627 - EPA 3580**

**Blank (B4D2627-BLK1)**

Prepared: 04/26/2024 Analyzed: 04/29/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	190		ug/kg	200		93.0	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	180		"	200		92.3	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**LCS (B4D2627-BS1)**

Prepared: 04/26/2024 Analyzed: 04/29/2024

1-Methylnaphthalene	0.167	0.002	mg/kg	0.200		83.3	70-130			
2-Methylnaphthalene	0.166	0.002	"	0.200		83.2	70-130			
Acenaphthene	0.171	0.020	"	0.200		85.3	70-130			
Anthracene	0.179	0.020	"	0.200		89.4	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2627 - EPA 3580**

**LCS (B4D2627-BS1)**

Prepared: 04/26/2024 Analyzed: 04/29/2024

Benzo (a) anthracene	0.176	0.005	mg/kg	0.200		88.0	70-130			
Benzo (a) pyrene	0.185	0.020	"	0.200		92.4	70-130			
Benzo (b) fluoranthene	0.163	0.020	"	0.200		81.4	70-130			
Benzo (g,h,i) perylene	0.168	0.020	"	0.200		84.2	70-130			
Benzo (k) fluoranthene	0.172	0.020	"	0.200		85.9	70-130			
Chrysene	0.173	0.020	"	0.200		86.6	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200		97.1	70-130			
Fluoranthene	0.164	0.020	"	0.200		82.2	70-130			
Fluorene	0.165	0.020	"	0.200		82.3	70-130			
Indeno (1,2,3-cd) pyrene	0.178	0.020	"	0.200		88.8	70-130			
Naphthalene	0.165	0.002	"	0.200		82.7	70-130			
Phenanthrene	0.186	0.020	"	0.200		92.9	70-130			
Pyrene	0.173	0.020	"	0.200		86.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.6	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	190		"	200		95.4	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

**Matrix Spike (B4D2627-MS1)**

**Source: Y404773-01**

Prepared: 04/26/2024 Analyzed: 04/29/2024

1-Methylnaphthalene	0.181	0.002	mg/kg	0.200	0.0008	89.9	70-130			
2-Methylnaphthalene	0.183	0.002	"	0.200	0.001	91.0	70-130			
Acenaphthene	0.181	0.020	"	0.200	ND	90.4	70-130			
Anthracene	0.195	0.020	"	0.200	0.002	96.9	70-130			
Benzo (a) anthracene	0.192	0.005	"	0.200	0.001	95.6	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200	ND	99.9	70-130			
Benzo (b) fluoranthene	0.173	0.020	"	0.200	0.0008	86.1	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.0008	97.3	70-130			

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 Project: Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2627 - EPA 3580**

<b>Matrix Spike (B4D2627-MS1)</b>		<b>Source: Y404773-01</b>			Prepared: 04/26/2024 Analyzed: 04/29/2024					
Benzo (k) fluoranthene	0.178	0.020	mg/kg	0.200	0.0006	88.7	70-130			
Chrysene	0.198	0.020	"	0.200	0.0003	98.7	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200	ND	107	70-130			
Fluoranthene	0.177	0.020	"	0.200	0.0008	88.0	70-130			
Fluorene	0.178	0.020	"	0.200	ND	88.8	70-130			
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	0.002	99.3	70-130			
Naphthalene	0.183	0.002	"	0.200	ND	91.5	70-130			
Phenanthrene	0.201	0.020	"	0.200	0.0008	100	70-130			
Pyrene	0.191	0.020	"	0.200	0.0009	95.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

<b>Matrix Spike Dup (B4D2627-MSD1)</b>		<b>Source: Y404773-01</b>			Prepared: 04/26/2024 Analyzed: 04/29/2024					
1-Methylnaphthalene	0.176	0.002	mg/kg	0.200	0.0008	87.6	70-130	2.65	20	
2-Methylnaphthalene	0.179	0.002	"	0.200	0.001	88.7	70-130	2.55	20	
Acenaphthene	0.176	0.020	"	0.200	ND	88.1	70-130	2.57	20	
Anthracene	0.181	0.020	"	0.200	0.002	89.7	70-130	7.67	20	
Benzo (a) anthracene	0.183	0.005	"	0.200	0.001	90.8	70-130	5.22	20	
Benzo (a) pyrene	0.210	0.020	"	0.200	ND	105	70-130	4.79	20	
Benzo (b) fluoranthene	0.179	0.020	"	0.200	0.0008	89.1	70-130	3.36	20	
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	0.0008	98.1	70-130	0.826	20	
Benzo (k) fluoranthene	0.173	0.020	"	0.200	0.0006	86.0	70-130	3.10	20	
Chrysene	0.182	0.020	"	0.200	0.0003	90.7	70-130	8.38	20	
Dibenz (a,h) anthracene	0.217	0.020	"	0.200	ND	108	70-130	0.928	20	
Fluoranthene	0.188	0.020	"	0.200	0.0008	93.6	70-130	6.11	20	

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 Project: Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D2627 - EPA 3580

Matrix Spike Dup (B4D2627-MSD1)	Source: Y404773-01			Prepared: 04/26/2024 Analyzed: 04/29/2024						
Fluorene	0.179	0.020	mg/kg	0.200	ND	89.3	70-130	0.553	20	
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	0.002	98.1	70-130	1.21	20	
Naphthalene	0.175	0.002	"	0.200	ND	87.5	70-130	4.47	20	
Phenanthrene	0.190	0.020	"	0.200	0.0008	94.4	70-130	5.98	20	
Pyrene	0.203	0.020	"	0.200	0.0009	101	70-130	5.84	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130			

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 Project: Wells Ranch 34F

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4D2701 - Saturated Paste Metals**

**Blank (B4D2701-BLK1)**

Prepared: 04/27/2024 Analyzed: 04/29/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B4D2701-DUP1)**

**Source: Y404760-01**

Prepared: 04/27/2024 Analyzed: 04/29/2024

SAR	ND	0.0100	SAR		14.3				200	
Calcium PPM	42.2	10.0	mg/L		41.8			1.05	50	
Magnesium PPM	39.0	10.0	"		38.6			1.06	50	
Sodium PPM	533	10.0	"		532			0.161	50	

**Batch B4D2912 - DTPA Sorbitol Preparation**

**Blank (B4D2912-BLK1)**

Prepared: 04/29/2024 Analyzed: 05/01/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4D2912-DUP1)**

**Source: Y404709-01**

Prepared: 04/29/2024 Analyzed: 05/01/2024

Boron	0.254	0.0988	mg/L		0.223			12.9	50	
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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4D2707 - Saturated Paste pH/EC</b>										
<b>Blank (B4D2707-BLK1)</b>					Prepared: 04/27/2024 Analyzed: 04/29/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4D2707-DUP1)</b>					<b>Source: Y404760-01</b> Prepared: 04/27/2024 Analyzed: 04/29/2024					
pH	7.84		pH Units		7.90			0.762	25	
Specific Conductance (EC)	2.27	0.00500	mmhos/cm		2.26			0.406	25	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: Wells Ranch 34F

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2605463 - SW846 3060A</b>										
<b>BLANK (1205720290-BLK)</b>					Prepared: 05/06/2024 Analyzed: 05/07/2024					
Hexavalent Chromium	ND	0.376	mg/kg				-			U
<b>LCS (1205720291-BKS)</b>					Prepared: 05/06/2024 Analyzed: 05/07/2024					
Hexavalent Chromium	3.41	0.353	mg/kg	3.53		96.6	80-120			
<b>DUP (1205720292 D)</b>					Source: 665145004 Prepared: 05/06/2024 Analyzed: 05/07/2024					
Hexavalent Chromium	ND	0.297	mg/kg dry		<0.119		0-50	N/A	50	U
<b>MS (1205720293 S)</b>					Source: 665145004 Prepared: 05/06/2024 Analyzed: 05/07/2024					
Hexavalent Chromium	2.27	0.363	mg/kg dry	3.63	<0.145	62.6	75-125			
<b>DUP (1205720294 D)</b>					Source: 665146004 Prepared: 05/06/2024 Analyzed: 05/07/2024					
Hexavalent Chromium	ND	0.230	mg/kg dry		<0.0920		0-50	N/A	50	U
<b>MS (1205720295 S)</b>					Source: 665146004 Prepared: 05/06/2024 Analyzed: 05/07/2024					
Hexavalent Chromium	2.48	0.310	mg/kg dry	3.10	<0.124	80.1	75-125			
<b>ILCS (1205720296-ILCS)</b>					Prepared: 05/06/2024 Analyzed: 05/07/2024					
Hexavalent Chromium	5.21	0.255	mg/kg	5.17		101	80-120			

Origins Laboratory, Inc.



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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: Wells Ranch 34F

---

**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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June 18, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - PDC - Wells Ranch 34F-212

Project Number - [none]

Attached are your analytical results for PDC - Wells Ranch 34F-212 received by Origins Laboratory, Inc. May 21, 2024. This project is associated with Origins project number Y405642-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F-212

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-02-2	Y405642-01	Soil	May 21, 2024 0:00	05/21/2024 16:40
SS-03-2	Y405642-02	Soil	May 21, 2024 0:00	05/21/2024 16:40
SS-06-2	Y405642-03	Soil	May 21, 2024 0:00	05/21/2024 16:40
SS-07-2	Y405642-04	Soil	May 21, 2024 0:00	05/21/2024 16:40

A PAH rerun was requested for SS-02-2 per Paul's email on 06/04/2024. No errors were found in the original data, all results are reported. The sample was found to be non-homogenous. JAB

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

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

**Sample Receipt Checklist**

Origins Work Order: 4405042 Client: Fremont  
 Client Project ID: Wells Ranch

Checklist Completed by: JAH / SA Shipped Via: TUD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 5/21/24 Airbill #: N/A

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

Cooler Number/Temperature: 1171 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C

Thermometer ID: \_\_\_\_\_

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		/		SD
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?		/		no sample times
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JAH Date/Time Reviewed 5/23/24

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-02-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.434		0.0983	mg/L	1	B4E2224	05/22/2024	05/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E2201	05/22/2024	05/24/2024	Ua
Residual Range Organics (C28-C40)	265		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	83.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2211	05/22/2024	05/23/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	106 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-02-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	98.0 %		70-130			B4E22 11	05/22/2024	05/23/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.50	0.499	meq/L	10	[CALC]		05/23/2024	05/24/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	0.932	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2328		05/23/2024	05/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	0.012	0.005	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	0.036	0.020	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.024	0.020	"	"	"	"	"	"	
Chrysene	0.027	0.020	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-02-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-01 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	0.031		0.020	mg/kg	1	B4E2328	05/23/2024	05/29/2024	
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	82.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.7 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.38			pH Units	1	B4E2321	05/23/2024	05/24/2024	
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**SAR by 20B Saturated Paste**

SAR	0.905		0.0100	SAR	1	B4E2317	05/23/2024	05/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.342		0.00500	mmhos/cm	1	B4E2321	05/23/2024	05/24/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	3.44		0.260	mg/kg	10	B4E2210	05/22/2024	05/24/2024	
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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-02-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	124		8.97	mg/kg	10	B4E2210	05/22/2024	05/24/2024	
Cadmium	0.280		0.0897	"	"	"	"	"	
Copper	22.1		8.97	"	"	"	"	"	
Lead	21.3		0.897	"	"	"	"	"	
Nickel	9.85		0.897	"	"	"	"	"	
Selenium	0.377		0.233	"	"	"	"	"	
Silver	ND		0.0897	"	"	"	"	"	
Zinc	54.4		33.2	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.169	0.423	mg/kg dry	1	2618111	05/30/2024	05/30/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-02-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-01RE1 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E2328	05/23/2024	06/04/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	<b>0.006</b>		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %		60-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-02-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-01RE2 (Soil)**

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E2328	05/23/2024	06/04/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	<b>0.013</b>		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	<b>0.025</b>		0.020	"	"	"	"	"	
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	<b>0.022</b>		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	101 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	105 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	91.1 %	60-130	"	"	"

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-03-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.193		0.0989	mg/L	1	B4E2224	05/22/2024	05/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E2201	05/22/2024	05/24/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2211	05/22/2024	05/23/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-03-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	108 %		70-130			B4E22 11	05/22/2024	05/23/2024	
Surrogate: 4-Bromofluorobenzene	96.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	05/23/2024	05/24/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>4.32</b>		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E2328	05/23/2024	05/28/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-03-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-02 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4E2328	05/23/2024	05/28/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	107 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.8 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	9.10			pH Units	1	B4E2321	05/23/2024	05/24/2024	
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**SAR by 20B Saturated Paste**

SAR	12.8		0.0100	SAR	1	B4E2317	05/23/2024	05/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.464		0.00500	mmhos/cm	1	B4E2321	05/23/2024	05/24/2024	
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**Table 915 metals by EPA 6020B**

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-03-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-02 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.42	0.253	mg/kg	10	B4E2210	05/22/2024	05/24/2024	
Barium	35.2	8.72	"	"	"	"	"	
Cadmium	ND	0.0872	"	"	"	"	"	
Copper	ND	8.72	"	"	"	"	"	
Lead	3.84	0.872	"	"	"	"	"	
Nickel	4.43	0.872	"	"	"	"	"	
Selenium	ND	0.227	"	"	"	"	"	
Silver	ND	0.0872	"	"	"	"	"	
Zinc	ND	32.3	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.113	0.283	mg/kg dry	1	2618111	05/30/2024	05/30/2024	U
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Fremont Environmental  
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 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-06-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.598		0.101	mg/L	1	B4E2224	05/22/2024	05/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E2201	05/22/2024	05/24/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	81.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2211	05/22/2024	05/23/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-06-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	104 %		70-130			B4E22 11	05/22/2024	05/23/2024	
Surrogate: 4-Bromofluorobenzene	98.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.24		0.499	meq/L	10	[CALC]	05/23/2024	05/24/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.40		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E2328	05/23/2024	05/28/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-06-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-03 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4E2328	05/23/2024	05/28/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.3 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.61			pH Units	1	B4E2321	05/23/2024	05/24/2024	
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**SAR by 20B Saturated Paste**

SAR	2.64		0.0100	SAR	1	B4E2317	05/23/2024	05/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.422		0.00500	mmhos/cm	1	B4E2321	05/23/2024	05/24/2024	
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**Table 915 metals by EPA 6020B**

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-06-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	3.49	0.269	mg/kg	10	B4E2210	05/22/2024	05/24/2024	
Barium	105	9.29	"	"	"	"	"	
Cadmium	0.308	0.0929	"	"	"	"	"	
Copper	25.3	9.29	"	"	"	"	"	
Lead	17.7	0.929	"	"	"	"	"	
Nickel	9.07	0.929	"	"	"	"	"	
Selenium	0.499	0.242	"	"	"	"	"	
Silver	ND	0.0929	"	"	"	"	"	
Zinc	50.0	34.4	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.108	0.271	mg/kg dry	1	2625460	06/12/2024	06/13/2024	U
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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-07-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.188		0.100	mg/L	1	B4E2224	05/22/2024	05/23/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	50.3		25.0	mg/kg	1	B4E2201	05/22/2024	05/24/2024	
Residual Range Organics (C28-C40)	994		100	"	"	"	"	"	

Surrogate: o-Terphenyl	81.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2211	05/22/2024	05/23/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
Surrogate: Toluene-d8	107 %		70-130			"	"	"	

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Paul Henehan  
 Project Number: [none]  
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**SS-07-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene    101 %    70-130    B4E22 11    05/22/2024    05/23/2024

**Metals by Saturated Paste by EPA 6010**

Calcium	0.724	0.499	meq/L	10	[CALC]	05/23/2024	05/24/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.763	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2328	05/23/2024	05/29/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.075	0.005	"	"	"	"	"	
Benzo (a) pyrene	0.121	0.020	"	"	"	"	"	
Benzo (b) fluoranthene	0.119	0.020	"	"	"	"	"	
Benzo (k) fluoranthene	0.041	0.020	"	"	"	"	"	
Chrysene	0.088	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	0.023	0.020	"	"	"	"	"	
Fluoranthene	0.108	0.020	"	"	"	"	"	
Fluorene	ND	0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	0.156	0.020	"	"	"	"	"	

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 Project Number: [none]  
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**SS-07-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-04 (Soil)**

**PAH by EPA 8270E**

Naphthalene	ND		0.002	mg/kg	1	B4E2328	05/23/2024	05/29/2024	Ua
Pyrene	<b>0.101</b>		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	98.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.5 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.8 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.43</b>			pH Units	1	B4E2321	05/23/2024	05/24/2024	
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**SAR by 20B Saturated Paste**

SAR	<b>1.10</b>		0.0100	SAR	1	B4E2317	05/23/2024	05/24/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.198</b>		0.00500	mmhos/cm	1	B4E2321	05/23/2024	05/24/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	<b>2.86</b>		0.272	mg/kg	10	B4E2210	05/22/2024	05/24/2024	
Barium	<b>70.6</b>		9.38	"	"	"	"	"	

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**SS-07-2**

**5/21/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y405642-04 (Soil)**

**Table 915 metals by EPA 6020B**

Cadmium	0.170		0.0938	mg/kg	10	B4E2210	05/22/2024	05/24/2024	
Copper	ND		9.38	"	"	"	"	"	
Lead	13.3		0.938	"	"	"	"	"	
Nickel	6.18		0.938	"	"	"	"	"	
Selenium	ND		0.244	"	"	"	"	"	
Silver	ND		0.0938	"	"	"	"	"	
Zinc	ND		34.7	"	"	"	"	"	

**Total Metals 7196A**

Hexavalent Chromium	ND	0.159	0.397	mg/kg dry	1	2625460	06/12/2024	06/13/2024	U
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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4E2201 - EPA 3550B</b>										
<b>Blank (B4E2201-BLK1)</b>										
					Prepared: 05/22/2024 Analyzed: 05/24/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.2	50-150			

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2201 - EPA 3550B**

**LCS (B4E2201-BS1)**

Prepared: 05/22/2024 Analyzed: 05/24/2024

Diesel (C10-C28)	858	50.0	mg/kg	1000		85.8	70-130			
Residual Range Organics (C28-C40)	930	200	"	1000		93.0	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2201 - EPA 3550B**

<b>Matrix Spike (B4E2201-MS1)</b>	<b>Source: Y405583-01</b>			Prepared: 05/22/2024 Analyzed: 05/24/2024						
Diesel (C10-C28)	925	50.0	mg/kg	1000	ND	92.5	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4E2201 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4E2201-MSD1)</b>					<b>Source: Y405583-01</b>					Prepared: 05/22/2024 Analyzed: 05/24/2024
Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130	3.87	35	
Residual Range Organics (C28-C40)	972	200	"	1000	ND	97.2	70-130	3.39	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2211 - EPA 5030 (soil)**

**Blank (B4E2211-BLK1)**

Prepared: 05/22/2024 Analyzed: 05/22/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	107		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.4		70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2211 - EPA 5030 (soil)

**LCS (B4E2211-BS1)**

Prepared: 05/22/2024 Analyzed: 05/22/2024

1,2,4-Trimethylbenzene	0.0964	0.00200	mg/kg	0.100		96.4	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.0888	0.00200	"	0.100		88.8	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100		92.4	70-130			
Naphthalene	0.115	0.00380	"	0.100		115	70-130			
Toluene	0.0923	0.00200	"	0.100		92.3	70-130			
o-Xylene	0.0855	0.00200	"	0.100		85.5	70-130			
m,p-Xylene	0.180	0.00400	"	0.200		89.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2211 - EPA 5030 (soil)

Matrix Spike (B4E2211-MS1)	Source: Y405631-17			Prepared: 05/22/2024 Analyzed: 05/29/2024						
1,2,4-Trimethylbenzene	0.0888	0.00200	mg/kg	0.100	ND	88.8	70-130			
1,3,5-Trimethylbenzene	0.0923	0.00200	"	0.100	ND	92.3	70-130			
Benzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Ethylbenzene	0.0903	0.00200	"	0.100	ND	90.3	70-130			
Naphthalene	0.127	0.00380	"	0.100	ND	127	70-130			
Toluene	0.0917	0.00200	"	0.100	ND	91.7	70-130			
o-Xylene	0.0892	0.00200	"	0.100	ND	89.2	70-130			
m,p-Xylene	0.180	0.00400	"	0.200	ND	90.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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 Project Number: [none]  
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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2211 - EPA 5030 (soil)

Matrix Spike Dup (B4E2211-MSD1)	Source: Y405631-17			Prepared: 05/22/2024 Analyzed: 05/29/2024						
1,2,4-Trimethylbenzene	0.0904	0.00200	mg/kg	0.100	ND	90.4	70-130	1.88	20	
1,3,5-Trimethylbenzene	0.0941	0.00200	"	0.100	ND	94.1	70-130	1.89	20	
Benzene	0.0914	0.00200	"	0.100	ND	91.4	70-130	0.725	20	
Ethylbenzene	0.0916	0.00200	"	0.100	ND	91.6	70-130	1.41	20	
Naphthalene	0.128	0.00380	"	0.100	ND	128	70-130	0.735	20	
Toluene	0.0917	0.00200	"	0.100	ND	91.7	70-130	0.00	20	
o-Xylene	0.0899	0.00200	"	0.100	ND	89.9	70-130	0.715	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.4	70-130	1.53	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2210 - EPA 3050B**

**Blank (B4E2210-BLK1)**

Prepared: 05/22/2024 Analyzed: 05/24/2024

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

**LCS (B4E2210-BS1)**

Prepared: 05/22/2024 Analyzed: 05/24/2024

Arsenic	5.98	0.290	mg/kg	5.00		120	80-120			
Barium	577	10.0	"	500		115	80-120			
Cadmium	5.80	0.100	"	5.00		116	80-120			
Copper	54.5	10.0	"	50.0		109	80-120			
Lead	5.67	1.00	"	5.00		113	80-120			
Nickel	5.48	1.00	"	5.00		110	80-120			
Selenium	10.4	0.260	"	9.50		110	80-120			
Silver	5.62	0.100	"	5.00		112	80-120			
Zinc	55.5	37.0	"	50.0		111	80-120			

**Matrix Spike (B4E2210-MS1)**

Source: Y405250-01

Prepared: 05/22/2024 Analyzed: 05/24/2024

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 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2210 - EPA 3050B**

<b>Matrix Spike (B4E2210-MS1)</b>		<b>Source: Y405250-01</b>			Prepared: 05/22/2024 Analyzed: 05/24/2024					
Arsenic	13.5	0.270	mg/kg	4.65	8.18	115	75-125			
Barium	634	9.30	"	465	105	114	75-125			
Cadmium	5.69	0.0930	"	4.65	0.0524	121	75-125			
Copper	64.5	9.30	"	46.5	14.6	107	75-125			
Lead	23.5	0.930	"	4.65	28.6	NR	75-125			QM-07
Nickel	16.7	0.930	"	4.65	10.7	129	75-125			QM-07
Selenium	9.74	0.242	"	8.84	ND	110	75-125			
Silver	5.71	0.0930	"	4.65	ND	123	75-125			
Zinc	103	34.4	"	46.5	75.8	58.0	75-125			QM-07

<b>Matrix Spike Dup (B4E2210-MSD1)</b>		<b>Source: Y405250-01</b>			Prepared: 05/22/2024 Analyzed: 05/24/2024					
Arsenic	14.1	0.259	mg/kg	4.47	8.18	132	75-125	3.92	20	QM-07
Barium	665	8.93	"	447	105	126	75-125	4.79	20	QM-07
Cadmium	5.11	0.0893	"	4.47	0.0524	113	75-125	10.8	20	
Copper	63.2	8.93	"	44.7	14.6	109	75-125	2.01	20	
Lead	22.7	0.893	"	4.47	28.6	NR	75-125	3.42	20	QM-07
Nickel	18.4	0.893	"	4.47	10.7	173	75-125	9.74	20	QM-07
Selenium	9.91	0.232	"	8.49	ND	117	75-125	1.79	20	
Silver	4.96	0.0893	"	4.47	ND	111	75-125	14.1	20	
Zinc	104	33.1	"	44.7	75.8	63.8	75-125	1.43	20	QM-07

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2328 - EPA 3580**

**Blank (B4E2328-BLK1)**

Prepared: 05/23/2024 Analyzed: 05/28/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

**LCS (B4E2328-BS1)**

Prepared: 05/23/2024 Analyzed: 05/28/2024

1-Methylnaphthalene	0.201	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200		98.8	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.5	70-130			
Anthracene	0.185	0.020	"	0.200		92.7	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2328 - EPA 3580**

**LCS (B4E2328-BS1)**

Prepared: 05/23/2024 Analyzed: 05/28/2024

Benzo (a) anthracene	0.204	0.005	mg/kg	0.200		102	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200		99.9	70-130			
Benzo (b) fluoranthene	0.180	0.020	"	0.200		90.1	70-130			
Benzo (g,h,i) perylene	0.179	0.020	"	0.200		89.7	70-130			
Benzo (k) fluoranthene	0.170	0.020	"	0.200		85.1	70-130			
Chrysene	0.193	0.020	"	0.200		96.3	70-130			
Dibenz (a,h) anthracene	0.176	0.020	"	0.200		88.2	70-130			
Fluoranthene	0.208	0.020	"	0.200		104	70-130			
Fluorene	0.184	0.020	"	0.200		91.8	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200		95.7	70-130			
Naphthalene	0.190	0.002	"	0.200		95.1	70-130			
Phenanthrene	0.191	0.020	"	0.200		95.6	70-130			
Pyrene	0.215	0.020	"	0.200		108	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130			
Surrogate: Anthracene-d10	190		"	200		97.0	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.9	60-130			

**Matrix Spike (B4E2328-MS1)**

**Source: Y405637-01**

Prepared: 05/23/2024 Analyzed: 05/28/2024

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200	ND	105	70-130			
2-Methylnaphthalene	0.218	0.002	"	0.200	ND	109	70-130			
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130			
Anthracene	0.207	0.020	"	0.200	0.0007	103	70-130			
Benzo (a) anthracene	0.231	0.005	"	0.200	0.003	114	70-130			
Benzo (a) pyrene	0.220	0.020	"	0.200	0.006	107	70-130			
Benzo (b) fluoranthene	0.212	0.020	"	0.200	0.003	104	70-130			
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	0.004	99.7	70-130			

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 Project: PDC - Wells Ranch 34F-212

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4E2328 - EPA 3580**

<b>Matrix Spike (B4E2328-MS1)</b>		<b>Source: Y405637-01</b>			Prepared: 05/23/2024 Analyzed: 05/28/2024					
Benzo (k) fluoranthene	0.186	0.020	mg/kg	0.200	0.003	91.6	70-130			
Chrysene	0.209	0.020	"	0.200	0.005	102	70-130			
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	0.002	107	70-130			
Fluoranthene	0.208	0.020	"	0.200	0.003	102	70-130			
Fluorene	0.215	0.020	"	0.200	0.001	107	70-130			
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200	ND	106	70-130			
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.204	0.020	"	0.200	0.0009	102	70-130			
Pyrene	0.233	0.020	"	0.200	0.005	114	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

<b>Matrix Spike Dup (B4E2328-MSD1)</b>		<b>Source: Y405637-01</b>			Prepared: 05/23/2024 Analyzed: 05/28/2024					
1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	ND	108	70-130	2.24	20	
2-Methylnaphthalene	0.232	0.002	"	0.200	ND	116	70-130	6.38	20	
Acenaphthene	0.220	0.020	"	0.200	ND	110	70-130	6.96	20	
Anthracene	0.230	0.020	"	0.200	0.0007	115	70-130	10.6	20	
Benzo (a) anthracene	0.229	0.005	"	0.200	0.003	113	70-130	0.734	20	
Benzo (a) pyrene	0.237	0.020	"	0.200	0.006	116	70-130	7.57	20	
Benzo (b) fluoranthene	0.214	0.020	"	0.200	0.003	106	70-130	1.11	20	
Benzo (g,h,i) perylene	0.212	0.020	"	0.200	0.004	104	70-130	3.98	20	
Benzo (k) fluoranthene	0.222	0.020	"	0.200	0.003	110	70-130	17.9	20	
Chrysene	0.220	0.020	"	0.200	0.005	108	70-130	5.14	20	
Dibenz (a,h) anthracene	0.217	0.020	"	0.200	0.002	108	70-130	0.580	20	
Fluoranthene	0.225	0.020	"	0.200	0.003	111	70-130	7.52	20	

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E2328 - EPA 3580

Matrix Spike Dup (B4E2328-MSD1)	Source: Y405637-01			Prepared: 05/23/2024 Analyzed: 05/28/2024						
Fluorene	0.231	0.020	mg/kg	0.200	0.001	115	70-130	6.79	20	
Indeno (1,2,3-cd) pyrene	0.220	0.020	"	0.200	ND	110	70-130	3.81	20	
Naphthalene	0.218	0.002	"	0.200	ND	109	70-130	5.46	20	
Phenanthrene	0.215	0.020	"	0.200	0.0009	107	70-130	5.33	20	
Pyrene	0.240	0.020	"	0.200	0.005	117	70-130	2.76	20	
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B4E2224 - DTPA Sorbitol Preparation**

**Blank (B4E2224-BLK1)**

Prepared: 05/22/2024 Analyzed: 05/23/2024

Boron ND 0.100 mg/L

**Duplicate (B4E2224-DUP1)**

**Source: Y405631-29**

Prepared: 05/22/2024 Analyzed: 05/23/2024

Boron 0.101 0.100 mg/L 0.119 17.3 50

**Batch B4E2317 - Saturated Paste Metals**

**Blank (B4E2317-BLK1)**

Prepared: 05/23/2024 Analyzed: 05/24/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

**Duplicate (B4E2317-DUP1)**

**Source: Y405637-01**

Prepared: 05/23/2024 Analyzed: 05/24/2024

SAR ND 0.0100 SAR 2.10 200

Calcium PPM 22.4 10.0 mg/L 23.6 5.17 50

Magnesium PPM 9.33 10.0 " 9.94 6.33 50

Sodium PPM 47.2 10.0 " 48.3 2.26 50

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4E2321 - Saturated Paste pH/EC</b>										
<b>Blank (B4E2321-BLK1)</b>					Prepared: 05/23/2024 Analyzed: 05/24/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4E2321-DUP1)</b>					<b>Source: Y405637-01</b> Prepared: 05/23/2024 Analyzed: 05/24/2024					
pH	8.04		pH Units		7.90			1.76	25	
Specific Conductance (EC)	0.532	0.00500	mmhos/cm		0.553			3.96	25	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Total Metals 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2625460 - SW846 3060A</b>										
<b>BLANK (1205759277-BLK)</b>					Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	ND	0.297	mg/kg				-			U
<b>LCS (1205759278-BKS)</b>					Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	2.76	0.281	mg/kg	2.81		98.2	80-120			
<b>DUP (1205759279 D)</b>					Source: 670258001 Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	ND	0.288	mg/kg dry		<0.115		0-50	N/A	50	U
<b>MS (1205759280 S)</b>					Source: 670258001 Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	2.20	0.288	mg/kg dry	2.88	<0.115	76	75-125			
<b>DUP (1205759281 D)</b>					Source: 670262005 Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	ND	0.252	mg/kg dry		<0.101		0-50	N/A	50	U
<b>MS (1205759282 S)</b>					Source: 670262005 Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	2.03	0.252	mg/kg dry	2.52	<0.101	77.1	75-125			
<b>ILCS (1205759283-ILCS)</b>					Prepared: 06/12/2024 Analyzed: 06/13/2024					
Hexavalent Chromium	5.49	0.272	mg/kg	5.63		97.6	80-120			

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F-212

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2618111 - SW846 3060A</b>										
<b>BLANK (1205746245-BLK)</b>					Prepared: 05/30/2024 Analyzed: 05/30/2024					
Hexavalent Chromium	ND	0.321	mg/kg				-			U
<b>LCS (1205746246-BKS)</b>					Prepared: 05/30/2024 Analyzed: 05/30/2024					
Hexavalent Chromium	2.92	0.292	mg/kg	2.92		100	80-120			
<b>DUP (1205746247 D)</b>					Source: 668808001 Prepared: 05/30/2024 Analyzed: 05/30/2024					
Hexavalent Chromium	ND	0.379	mg/kg dry		<0.152		0-50	N/A	50	U
<b>MS (1205746248 S)</b>					Source: 668808001 Prepared: 05/30/2024 Analyzed: 05/30/2024					
Hexavalent Chromium	3.59	0.380	mg/kg dry	3.80	<0.152	92	75-125			
<b>ILCS (1205746251-ILCS)</b>					Prepared: 05/30/2024 Analyzed: 05/30/2024					
Hexavalent Chromium	5.89	0.271	mg/kg	5.65		104	80-120			

Origins Laboratory, Inc.



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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F-212

---

**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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June 26, 2024

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - PDC - Wells Ranch 34F

Project Number - [none]

Attached are your analytical results for PDC - Wells Ranch 34F received by Origins Laboratory, Inc. June 05, 2024. This project is associated with Origins project number Y406123-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-07-3	Y406123-01	Soil	June 5, 2024 0:00	06/05/2024 17:00
SS-02-3	Y406123-03	Soil	June 5, 2024 0:00	06/05/2024 17:00

Chain of Custody Modification Request

On 6/13/2024, Paul Henehan from Fremont contacted Jennifer Pellegrini via email regarding Y406123 requesting that sample SS-02-3 be taken off hold for full 915 on a same day TAT.

Requested modifications to the chain of custody were made by Jennifer Pellegrini on 6/13/2024.

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

**ORIGINS**  
 LABORATORY, INC

**HOURS**

www.originslaboratory.com

page 1 of 1

Client: PDC / FREMONT  
 Project Manager: HENEHAN  
 Project Name: WELLS RANCH 34F  
 Project Number: \_\_\_\_\_  
 Samples Collected By: HENEHAN  
 Telephone Number: \_\_\_\_\_  
 Email Address: \_\_\_\_\_

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	
SS-07-3	6/5/24		2									24 Hr
SS-07-4	6/5/24		2									48 Hr
SS-02-3	6/5/24		2									72 Hr
SS-02-4	6/5/24		2									Standard

Relinquished By: [Signature] Date: 6/5/24 Time: 1500  
 Received By: [Signature] Date: 06/05/24 Time: 1530  
 Relinquished By: [Signature] Date: 06/05/24 Time: 1700  
 Received By: [Signature] Date: 06/05/24 Time: 1700

Temp Received: 10.1°C Date Results Needed

Origins Laboratory, Inc.  
[Signature]

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4406123

Client: Fremont

Client Project ID: Wells Ranch 34F

Checklist Completed by: JUT

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

Date/time completed: 1/5/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: L101 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>CD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>no sample times</u>
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 1/5/12

Origins Laboratory, Inc.

[Signature]

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**SS-07-3**

**6/5/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406123-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.867		0.100	mg/L	1	B4F0617	06/06/2024	06/07/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F0540	06/05/2024	06/06/2024	Ua
Residual Range Organics (C28-C40)	112		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	92.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F0530	06/05/2024	06/06/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	78.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	72.4 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**SS-07-3**

**6/5/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406123-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	73.0 %	70-130				B4F05 30	06/05/2024	06/06/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.57	0.499	meq/L	10	[CALC]		06/06/2024	06/07/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	1.79	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F0551		06/05/2024	06/07/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	<b>0.009</b>	0.005	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**SS-07-3**

**6/5/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406123-01 (Soil)**

**PAH by EPA 8270E**

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4F0551	06/05/2024	06/07/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.60			pH Units	1	B4F0622	06/06/2024	06/07/2024	
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**SAR by 20B Saturated Paste**

SAR	1.76		0.0100	SAR	1	B4F0611	06/06/2024	06/07/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.367		0.00500	mmhos/cm	1	B4F0622	06/06/2024	06/07/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.36		0.256	mg/kg	10	B4F0554	06/05/2024	06/06/2024	
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**SS-07-3**

**6/5/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406123-01 (Soil)**

**Table 915 metals by EPA 6020B**

Barium	101		8.82	mg/kg	10	B4F0554	06/05/2024	06/06/2024	
Cadmium	0.374		0.0882	"	"	"	"	"	
Copper	23.0		8.82	"	"	"	"	"	
Lead	16.2		0.882	"	"	"	"	"	
Nickel	8.96		0.882	"	"	"	"	"	
Selenium	0.430		0.229	"	"	"	"	"	
Silver	0.105		0.0882	"	"	"	"	"	
Zinc	53.4		32.6	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.122	0.305	mg/kg dry	1	2626865	06/14/2024	06/17/2024	U
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**SS-02-3**

**6/5/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406123-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.589		0.101	mg/L	1	B4F1409	06/14/2024	06/17/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F1302	06/13/2024	06/13/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	84.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F1333	06/13/2024	06/13/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**SS-02-3**

**6/5/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406123-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	95.1 %		70-130			B4F13 33	06/13/2024	06/13/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>1.93</b>	0.499	meq/L	10	[CALC]		06/14/2024	06/18/2024	
Magnesium	<b>0.859</b>	0.823	"	"	"	"	"	"	
Sodium	<b>0.950</b>	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4F1327		06/13/2024	06/15/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua

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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**SS-02-3**

**6/5/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406123-03 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B4F1327	06/13/2024	06/15/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	89.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.32			pH Units	1	B4F1417	06/14/2024	06/18/2024	
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**SAR by 20B Saturated Paste**

SAR	0.805		0.0100	SAR	1	B4F1413	06/14/2024	06/18/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.401		0.00500	mmhos/cm	1	B4F1417	06/14/2024	06/18/2024	
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**Table 915 metals by EPA 6020B**

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 Project Number: [none]  
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**SS-02-3**

**6/5/2024 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y406123-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.13		0.262	mg/kg	10	B4F1334	06/13/2024	06/14/2024	
Barium	82.0		9.05	"	"	"	"	"	
Cadmium	0.255		0.0905	"	"	"	"	"	
Copper	16.6		9.05	"	"	"	"	"	
Lead	11.6		0.905	"	"	"	"	"	
Nickel	6.55		0.905	"	"	"	"	"	
Selenium	0.301		0.235	"	"	"	"	"	
Silver	ND		0.0905	"	"	"	"	"	
Zinc	36.9		33.5	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.178	0.445	mg/kg dry	1	2631209	06/25/2024	06/26/2024	U
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 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0530 - EPA 5030 (soil)**

**Blank (B4F0530-BLK1)**

Prepared: 06/05/2024 Analyzed: 06/05/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0530 - EPA 5030 (soil)

**LCS (B4F0530-BS1)**

Prepared: 06/05/2024 Analyzed: 06/05/2024

1,2,4-Trimethylbenzene	0.0982	0.00200	mg/kg	0.100		98.2	70-130			
1,3,5-Trimethylbenzene	0.0987	0.00200	"	0.100		98.7	70-130			
Benzene	0.0948	0.00200	"	0.100		94.8	70-130			
Ethylbenzene	0.0945	0.00200	"	0.100		94.5	70-130			
Naphthalene	0.0974	0.00380	"	0.100		97.4	70-130			
Toluene	0.0911	0.00200	"	0.100		91.1	70-130			
o-Xylene	0.0866	0.00200	"	0.100		86.6	70-130			
m,p-Xylene	0.182	0.00400	"	0.200		91.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0530 - EPA 5030 (soil)

Matrix Spike (B4F0530-MS1)	Source: Y406082-01			Prepared: 06/05/2024 Analyzed: 06/05/2024						
1,2,4-Trimethylbenzene	0.131	0.00200	mg/kg	0.100	0.0128	118	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100	0.00302	114	70-130			
Benzene	0.119	0.00200	"	0.100	ND	119	70-130			
Ethylbenzene	0.112	0.00200	"	0.100	0.000720	111	70-130			
Naphthalene	0.112	0.00380	"	0.100	0.00206	110	70-130			
Toluene	0.114	0.00200	"	0.100	ND	114	70-130			
o-Xylene	0.114	0.00200	"	0.100	0.00226	111	70-130			
m,p-Xylene	0.223	0.00400	"	0.200	0.00286	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F0530 - EPA 5030 (soil)

Matrix Spike Dup (B4F0530-MSD1)	Source: Y406082-01			Prepared: 06/05/2024 Analyzed: 06/05/2024						
1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100	0.0128	99.8	70-130	15.0	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	0.00302	98.4	70-130	14.4	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	15.8	20	
Ethylbenzene	0.0991	0.00200	"	0.100	0.000720	98.4	70-130	12.0	20	
Naphthalene	0.0979	0.00380	"	0.100	0.00206	95.8	70-130	13.8	20	
Toluene	0.0982	0.00200	"	0.100	ND	98.2	70-130	15.0	20	
o-Xylene	0.0996	0.00200	"	0.100	0.00226	97.3	70-130	13.2	20	
m,p-Xylene	0.197	0.00400	"	0.200	0.00286	97.1	70-130	12.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F0540 - EPA 3550B</b>										
<b>Blank (B4F0540-BLK1)</b>										
					Prepared: 06/05/2024 Analyzed: 06/05/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		93.3	50-150			

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 Project: PDC - Wells Ranch 34F

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0540 - EPA 3550B**

**LCS (B4F0540-BS1)**

Prepared: 06/05/2024 Analyzed: 06/05/2024

Diesel (C10-C28)	1060	50.0	mg/kg	1000		106	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000		118	70-130			
Surrogate: o-Terphenyl	65		"	49.8		130	50-150			

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 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0540 - EPA 3550B**

<b>Matrix Spike (B4F0540-MS1)</b>	<b>Source: Y406104-03</b>			Prepared: 06/05/2024 Analyzed: 06/05/2024						
Diesel (C10-C28)	969	50.0	mg/kg	1000	64.4	90.4	70-130			
Residual Range Organics (C28-C40)	1060	200	"	1000	71.7	99.1	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F0540 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4F0540-MSD1)</b>		<b>Source: Y406104-03</b>			Prepared: 06/05/2024 Analyzed: 06/05/2024					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	64.4	96.5	70-130	6.05	35	
Residual Range Organics (C28-C40)	1120	200	"	1000	71.7	105	70-130	5.32	35	
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F1302 - EPA 3550B</b>										
<b>Blank (B4F1302-BLK1)</b>										
					Prepared: 06/13/2024 Analyzed: 06/13/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		85.6	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F1302 - EPA 3550B**

**LCS (B4F1302-BS1)**

Prepared: 06/13/2024 Analyzed: 06/13/2024

Diesel (C10-C28)	886	50.0	mg/kg	1000		88.6	70-130			
Residual Range Organics (C28-C40)	963	200	"	1000		96.3	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F1302 - EPA 3550B</b>										
<b>Matrix Spike (B4F1302-MS1)</b>		<b>Source: Y406123-03</b>			Prepared: 06/13/2024 Analyzed: 06/13/2024					
Diesel (C10-C28)	878	50.0	mg/kg	1000	ND	87.8	70-130			
Residual Range Organics (C28-C40)	973	200	"	1000	ND	97.3	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.7	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F1302 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4F1302-MSD1)</b>					<b>Source: Y406123-03</b>					Prepared: 06/13/2024 Analyzed: 06/13/2024
Diesel (C10-C28)	877	50.0	mg/kg	1000	ND	87.7	70-130	0.0779	35	
Residual Range Organics (C28-C40)	953	200	"	1000	ND	95.3	70-130	2.07	35	
Surrogate: o-Terphenyl	49		"	49.8		99.5	50-150			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F1333 - EPA 5030 (soil)**

**Blank (B4F1333-BLK1)**

Prepared: 06/13/2024 Analyzed: 06/13/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	96.3		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

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 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1333 - EPA 5030 (soil)

**LCS (B4F1333-BS1)**

Prepared: 06/13/2024 Analyzed: 06/13/2024

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.0978	0.00200	"	0.100		97.8	70-130			
Naphthalene	0.120	0.00380	"	0.100		120	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.9	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1333 - EPA 5030 (soil)

Matrix Spike (B4F1333-MS1)	Source: Y406123-03			Prepared: 06/13/2024 Analyzed: 06/13/2024						
1,2,4-Trimethylbenzene	0.0750	0.00200	mg/kg	0.100	ND	75.0	70-130			
1,3,5-Trimethylbenzene	0.0735	0.00200	"	0.100	ND	73.5	70-130			
Benzene	0.0906	0.00200	"	0.100	ND	90.6	70-130			
Ethylbenzene	0.0707	0.00200	"	0.100	0.000620	70.1	70-130			
Naphthalene	0.0677	0.00380	"	0.100	0.00140	66.3	70-130			QM-07
Toluene	0.0799	0.00200	"	0.100	ND	79.9	70-130			
o-Xylene	0.0715	0.00200	"	0.100	ND	71.5	70-130			
m,p-Xylene	0.145	0.00400	"	0.200	ND	72.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4F1333 - EPA 5030 (soil)

Matrix Spike Dup (B4F1333-MSD1)	Source: Y406123-03			Prepared: 06/13/2024 Analyzed: 06/13/2024						
1,2,4-Trimethylbenzene	0.0812	0.00200	mg/kg	0.100	ND	81.2	70-130	7.89	20	
1,3,5-Trimethylbenzene	0.0793	0.00200	"	0.100	ND	79.3	70-130	7.56	20	
Benzene	0.0964	0.00200	"	0.100	ND	96.4	70-130	6.14	20	
Ethylbenzene	0.0755	0.00200	"	0.100	0.000620	74.9	70-130	6.56	20	
Naphthalene	0.0803	0.00380	"	0.100	0.00140	78.9	70-130	17.1	20	
Toluene	0.0851	0.00200	"	0.100	ND	85.1	70-130	6.23	20	
o-Xylene	0.0763	0.00200	"	0.100	ND	76.3	70-130	6.44	20	
m,p-Xylene	0.154	0.00400	"	0.200	ND	77.1	70-130	5.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0554 - EPA 3050B**

**Blank (B4F0554-BLK1)**

Prepared: 06/05/2024 Analyzed: 06/06/2024

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

**LCS (B4F0554-BS1)**

Prepared: 06/05/2024 Analyzed: 06/06/2024

Arsenic	5.01	0.290	mg/kg	5.00		100	80-120			
Barium	513	10.0	"	500		103	80-120			
Cadmium	5.21	0.100	"	5.00		104	80-120			
Copper	51.0	10.0	"	50.0		102	80-120			
Lead	5.37	1.00	"	5.00		107	80-120			
Nickel	5.02	1.00	"	5.00		100	80-120			
Selenium	10.2	0.260	"	9.50		107	80-120			
Silver	5.27	0.100	"	5.00		105	80-120			
Zinc	49.1	37.0	"	50.0		98.3	80-120			

**Matrix Spike (B4F0554-MS1)**

Source: Y406115-01

Prepared: 06/05/2024 Analyzed: 06/06/2024

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 Project: PDC - Wells Ranch 34F

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0554 - EPA 3050B**

<b>Matrix Spike (B4F0554-MS1)</b>		<b>Source: Y406115-01</b>			Prepared: 06/05/2024 Analyzed: 06/06/2024					
Arsenic	9.09	0.264	mg/kg	4.54	4.63	98.2	75-125			
Barium	884	9.09	"	454	192	152	75-125			QM-07
Cadmium	5.56	0.0909	"	4.54	0.160	119	75-125			
Copper	62.5	9.09	"	45.4	13.8	107	75-125			
Lead	16.7	0.909	"	4.54	13.1	78.6	75-125			
Nickel	20.7	0.909	"	4.54	17.4	73.5	75-125			QM-07
Selenium	9.87	0.236	"	8.63	0.199	112	75-125			
Silver	5.47	0.0909	"	4.54	0.0380	120	75-125			
Zinc	95.7	33.6	"	45.4	51.0	98.4	75-125			

<b>Matrix Spike Dup (B4F0554-MSD1)</b>		<b>Source: Y406115-01</b>			Prepared: 06/05/2024 Analyzed: 06/06/2024					
Arsenic	9.12	0.266	mg/kg	4.59	4.63	97.7	75-125	0.267	20	
Barium	811	9.19	"	459	192	135	75-125	8.60	20	QM-07
Cadmium	5.37	0.0919	"	4.59	0.160	113	75-125	3.54	20	
Copper	62.2	9.19	"	45.9	13.8	105	75-125	0.450	20	
Lead	16.3	0.919	"	4.59	13.1	70.5	75-125	2.03	20	QM-07
Nickel	20.1	0.919	"	4.59	17.4	57.7	75-125	3.37	20	QM-07
Selenium	9.72	0.239	"	8.73	0.199	109	75-125	1.52	20	
Silver	5.33	0.0919	"	4.59	0.0380	115	75-125	2.64	20	
Zinc	118	34.0	"	45.9	51.0	147	75-125	21.2	20	QM-07, QR-DUP

**Batch B4F1334 - EPA 3050B**

<b>Blank (B4F1334-BLK1)</b>		Prepared: 06/13/2024 Analyzed: 06/14/2024								
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

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**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F1334 - EPA 3050B**

**Blank (B4F1334-BLK1)**

Prepared: 06/13/2024 Analyzed: 06/14/2024

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

**LCS (B4F1334-BS1)**

Prepared: 06/13/2024 Analyzed: 06/14/2024

Arsenic	5.29	0.290	mg/kg	5.00		106	80-120			
Barium	507	10.0	"	500		101	80-120			
Cadmium	5.04	0.100	"	5.00		101	80-120			
Copper	51.1	10.0	"	50.0		102	80-120			
Lead	5.09	1.00	"	5.00		102	80-120			
Nickel	4.52	1.00	"	5.00		90.4	80-120			
Selenium	10.6	0.260	"	9.50		111	80-120			
Silver	4.95	0.100	"	5.00		99.0	80-120			
Zinc	51.9	37.0	"	50.0		104	80-120			

**Matrix Spike (B4F1334-MS1)**

**Source: Y406104-01**

Prepared: 06/13/2024 Analyzed: 06/14/2024

Arsenic	6.06	0.265	mg/kg	4.56	1.41	102	75-125			
Barium	514	9.13	"	456	49.7	102	75-125			
Cadmium	4.82	0.0913	"	4.56	0.0651	104	75-125			
Copper	49.4	9.13	"	45.6	3.67	100	75-125			
Lead	9.01	0.913	"	4.56	4.64	95.7	75-125			
Nickel	7.69	0.913	"	4.56	3.30	96.1	75-125			
Selenium	9.30	0.237	"	8.67	ND	107	75-125			
Silver	4.59	0.0913	"	4.56	ND	101	75-125			

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 Project: PDC - Wells Ranch 34F

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F1334 - EPA 3050B</b>										
<b>Matrix Spike (B4F1334-MS1)</b>		<b>Source: Y406104-01</b>			Prepared: 06/13/2024 Analyzed: 06/14/2024					
Zinc	62.0	33.8	mg/kg	45.6	17.1	98.4	75-125			
<b>Matrix Spike Dup (B4F1334-MSD1)</b>		<b>Source: Y406104-01</b>			Prepared: 06/13/2024 Analyzed: 06/14/2024					
Arsenic	5.68	0.256	mg/kg	4.41	1.41	96.9	75-125	6.53	20	
Barium	482	8.81	"	441	49.7	98.1	75-125	6.44	20	
Cadmium	4.48	0.0881	"	4.41	0.0651	100	75-125	7.26	20	
Copper	46.8	8.81	"	44.1	3.67	97.8	75-125	5.53	20	
Lead	8.64	0.881	"	4.41	4.64	90.6	75-125	4.26	20	
Nickel	7.44	0.881	"	4.41	3.30	93.9	75-125	3.28	20	
Selenium	8.75	0.229	"	8.37	ND	104	75-125	6.07	20	
Silver	4.27	0.0881	"	4.41	ND	97.0	75-125	7.12	20	
Zinc	59.0	32.6	"	44.1	17.1	95.0	75-125	5.03	20	

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 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0551 - EPA 3580**

**Blank (B4F0551-BLK1)**

Prepared: 06/05/2024 Analyzed: 06/07/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		93.1	60-130			
Surrogate: Pyrene-d10	230		"	200		117	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

**LCS (B4F0551-BS1)**

Prepared: 06/05/2024 Analyzed: 06/07/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.4	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.3	70-130			
Acenaphthene	0.193	0.020	"	0.200		96.7	70-130			
Anthracene	0.214	0.020	"	0.200		107	70-130			

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Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0551 - EPA 3580**

**LCS (B4F0551-BS1)**

Prepared: 06/05/2024 Analyzed: 06/07/2024

Benzo (a) anthracene	0.212	0.005	mg/kg	0.200		106	70-130			
Benzo (a) pyrene	0.249	0.020	"	0.200		125	70-130			
Benzo (b) fluoranthene	0.259	0.020	"	0.200		129	70-130			
Benzo (g,h,i) perylene	0.228	0.020	"	0.200		114	70-130			
Benzo (k) fluoranthene	0.251	0.020	"	0.200		126	70-130			
Chrysene	0.217	0.020	"	0.200		108	70-130			
Dibenz (a,h) anthracene	0.248	0.020	"	0.200		124	70-130			
Fluoranthene	0.229	0.020	"	0.200		114	70-130			
Fluorene	0.194	0.020	"	0.200		97.0	70-130			
Indeno (1,2,3-cd) pyrene	0.247	0.020	"	0.200		124	70-130			
Naphthalene	0.202	0.002	"	0.200		101	70-130			
Phenanthrene	0.195	0.020	"	0.200		97.7	70-130			
Pyrene	0.229	0.020	"	0.200		115	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Pyrene-d10	220		"	200		108	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.1	60-130			

**Matrix Spike (B4F0551-MS1)**

**Source: Y406112-01**

Prepared: 06/05/2024 Analyzed: 06/07/2024

1-Methylnaphthalene	0.227	0.002	mg/kg	0.200	0.002	113	70-130			
2-Methylnaphthalene	0.220	0.002	"	0.200	ND	110	70-130			
Acenaphthene	0.193	0.020	"	0.200	0.0006	96.4	70-130			
Anthracene	0.181	0.020	"	0.200	0.003	88.6	70-130			
Benzo (a) anthracene	0.231	0.005	"	0.200	0.009	111	70-130			
Benzo (a) pyrene	0.219	0.020	"	0.200	0.015	102	70-130			
Benzo (b) fluoranthene	0.217	0.020	"	0.200	0.015	101	70-130			
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	0.019	99.6	70-130			

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0551 - EPA 3580**

<b>Matrix Spike (B4F0551-MS1)</b>	<b>Source: Y406112-01</b>			<b>Prepared: 06/05/2024 Analyzed: 06/07/2024</b>						
Benzo (k) fluoranthene	0.209	0.020	mg/kg	0.200	0.017	96.2	70-130			
Chrysene	0.212	0.020	"	0.200	0.016	98.0	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200	0.027	86.1	70-130			
Fluoranthene	0.264	0.020	"	0.200	0.005	130	70-130			
Fluorene	0.201	0.020	"	0.200	0.003	99.0	70-130			
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200	0.024	106	70-130			
Naphthalene	0.207	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.234	0.020	"	0.200	0.002	116	70-130			
Pyrene	0.195	0.020	"	0.200	0.005	95.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	220		"	200		108	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.4	60-130			

<b>Matrix Spike Dup (B4F0551-MSD1)</b>	<b>Source: Y406112-01</b>			<b>Prepared: 06/05/2024 Analyzed: 06/07/2024</b>						
1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	0.002	93.5	70-130	18.6	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.9	70-130	11.8	20	
Acenaphthene	0.194	0.020	"	0.200	0.0006	96.6	70-130	0.179	20	
Anthracene	0.232	0.020	"	0.200	0.003	114	70-130	24.9	20	QR-02
Benzo (a) anthracene	0.217	0.005	"	0.200	0.009	104	70-130	6.32	20	
Benzo (a) pyrene	0.217	0.020	"	0.200	0.015	101	70-130	1.05	20	
Benzo (b) fluoranthene	0.211	0.020	"	0.200	0.015	97.9	70-130	2.61	20	
Benzo (g,h,i) perylene	0.229	0.020	"	0.200	0.019	105	70-130	4.57	20	
Benzo (k) fluoranthene	0.186	0.020	"	0.200	0.017	84.9	70-130	11.4	20	
Chrysene	0.209	0.020	"	0.200	0.016	96.6	70-130	1.39	20	
Dibenz (a,h) anthracene	0.209	0.020	"	0.200	0.027	91.4	70-130	5.16	20	
Fluoranthene	0.254	0.020	"	0.200	0.005	124	70-130	4.17	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0551 - EPA 3580**

<b>Matrix Spike Dup (B4F0551-MSD1)</b>		<b>Source: Y406112-01</b>			Prepared: 06/05/2024 Analyzed: 06/07/2024					
Fluorene	0.227	0.020	mg/kg	0.200	0.003	112	70-130	12.1	20	
Indeno (1,2,3-cd) pyrene	0.226	0.020	"	0.200	0.024	101	70-130	4.49	20	
Naphthalene	0.190	0.002	"	0.200	ND	95.0	70-130	8.75	20	
Phenanthrene	0.198	0.020	"	0.200	0.002	98.2	70-130	16.7	20	
Pyrene	0.281	0.020	"	0.200	0.005	138	70-130	36.3	20	QM-07
Surrogate: Fluorene-d10	230		ug/kg	200		116	60-130			
Surrogate: Anthracene-d10	190		"	200		92.7	60-130			
Surrogate: Pyrene-d10	260		"	200		129	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.0	60-130			

**Batch B4F1327 - EPA 3580**

<b>Blank (B4F1327-BLK1)</b>		Prepared: 06/13/2024 Analyzed: 06/15/2024								
1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F1327 - EPA 3580**

**Blank (B4F1327-BLK1)**

Prepared: 06/13/2024 Analyzed: 06/15/2024

Naphthalene	ND	0.002	mg/kg							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	170		ug/kg	200		82.6	60-130			
Surrogate: Anthracene-d10	180		"	200		89.3	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		112	60-130			

**LCS (B4F1327-BS1)**

Prepared: 06/13/2024 Analyzed: 06/15/2024

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		94.2	70-130			
2-Methylnaphthalene	0.192	0.002	"	0.200		96.1	70-130			
Acenaphthene	0.197	0.020	"	0.200		98.5	70-130			
Anthracene	0.187	0.020	"	0.200		93.6	70-130			
Benzo (a) anthracene	0.171	0.005	"	0.200		85.4	70-130			
Benzo (a) pyrene	0.188	0.020	"	0.200		94.0	70-130			
Benzo (b) fluoranthene	0.199	0.020	"	0.200		99.3	70-130			
Benzo (g,h,i) perylene	0.187	0.020	"	0.200		93.6	70-130			
Benzo (k) fluoranthene	0.166	0.020	"	0.200		83.1	70-130			
Chrysene	0.176	0.020	"	0.200		88.0	70-130			
Dibenz (a,h) anthracene	0.226	0.020	"	0.200		113	70-130			
Fluoranthene	0.173	0.020	"	0.200		86.3	70-130			
Fluorene	0.192	0.020	"	0.200		95.8	70-130			
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200		118	70-130			
Naphthalene	0.188	0.002	"	0.200		93.8	70-130			
Phenanthrene	0.196	0.020	"	0.200		97.9	70-130			
Pyrene	0.171	0.020	"	0.200		85.7	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		93.4	60-130			

Origins Laboratory, Inc.



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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F1327 - EPA 3580**

**LCS (B4F1327-BS1)**

Prepared: 06/13/2024 Analyzed: 06/15/2024

Surrogate: Anthracene-d10	180		ug/kg	200		87.6	60-130			
Surrogate: Pyrene-d10	170		"	200		86.5	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		113	60-130			

**Matrix Spike (B4F1327-MS1)**

**Source: Y406123-03**

Prepared: 06/13/2024 Analyzed: 06/15/2024

1-Methylnaphthalene	0.183	0.002	mg/kg	0.200	0.0009	91.0	70-130			
2-Methylnaphthalene	0.192	0.002	"	0.200	0.001	95.3	70-130			
Acenaphthene	0.199	0.020	"	0.200	0.001	98.9	70-130			
Anthracene	0.187	0.020	"	0.200	ND	93.6	70-130			
Benzo (a) anthracene	0.199	0.005	"	0.200	0.004	97.7	70-130			
Benzo (a) pyrene	0.205	0.020	"	0.200	0.007	99.3	70-130			
Benzo (b) fluoranthene	0.226	0.020	"	0.200	0.005	110	70-130			
Benzo (g,h,i) perylene	0.216	0.020	"	0.200	0.006	105	70-130			
Benzo (k) fluoranthene	0.186	0.020	"	0.200	0.003	91.8	70-130			
Chrysene	0.215	0.020	"	0.200	0.007	104	70-130			
Dibenz (a,h) anthracene	0.240	0.020	"	0.200	0.002	119	70-130			
Fluoranthene	0.225	0.020	"	0.200	0.007	109	70-130			
Fluorene	0.183	0.020	"	0.200	0.001	90.7	70-130			
Indeno (1,2,3-cd) pyrene	0.233	0.020	"	0.200	0.006	114	70-130			
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Phenanthrene	0.201	0.020	"	0.200	0.002	99.6	70-130			
Pyrene	0.215	0.020	"	0.200	0.006	104	70-130			

Surrogate: Fluorene-d10	180		ug/kg	200		90.3	60-130			
Surrogate: Anthracene-d10	180		"	200		91.6	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			
Surrogate: Benzo (a) pyrene-d12	250		"	200		124	60-130			

**Matrix Spike Dup (B4F1327-MSD1)**

**Source: Y406123-03**

Prepared: 06/13/2024 Analyzed: 06/15/2024

Origins Laboratory, Inc.



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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4F1327 - EPA 3580</b>										
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.0009	95.8	70-130	5.07	20	
2-Methylnaphthalene	0.202	0.002	"	0.200	0.001	101	70-130	5.30	20	
Acenaphthene	0.210	0.020	"	0.200	0.001	104	70-130	5.29	20	
Anthracene	0.193	0.020	"	0.200	ND	96.5	70-130	3.07	20	
Benzo (a) anthracene	0.214	0.005	"	0.200	0.004	105	70-130	7.33	20	
Benzo (a) pyrene	0.176	0.020	"	0.200	0.007	84.8	70-130	15.2	20	
Benzo (b) fluoranthene	0.220	0.020	"	0.200	0.005	107	70-130	2.59	20	
Benzo (g,h,i) perylene	0.214	0.020	"	0.200	0.006	104	70-130	0.818	20	
Benzo (k) fluoranthene	0.208	0.020	"	0.200	0.003	103	70-130	11.1	20	
Chrysene	0.218	0.020	"	0.200	0.007	106	70-130	1.58	20	
Dibenz (a,h) anthracene	0.234	0.020	"	0.200	0.002	116	70-130	2.51	20	
Fluoranthene	0.227	0.020	"	0.200	0.007	110	70-130	1.05	20	
Fluorene	0.203	0.020	"	0.200	0.001	101	70-130	10.2	20	
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	0.006	111	70-130	1.85	20	
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130	2.33	20	
Phenanthrene	0.221	0.020	"	0.200	0.002	110	70-130	9.38	20	
Pyrene	0.232	0.020	"	0.200	0.006	113	70-130	7.71	20	
Surrogate: Fluorene-d10	190		ug/kg	200		94.4	60-130			
Surrogate: Anthracene-d10	180		"	200		91.7	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Origins Laboratory, Inc.



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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0611 - Saturated Paste Metals**

**Blank (B4F0611-BLK1)**

Prepared: 06/06/2024 Analyzed: 06/07/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

**Duplicate (B4F0611-DUP1)**

Source: Y406006-01

Prepared: 06/06/2024 Analyzed: 06/07/2024

Calcium PPM	8.92	10.0	mg/L		10.2			13.6	50	
SAR	ND	0.0100	SAR		5.05				200	
Magnesium PPM	0.910	10.0	mg/L		1.06			15.2	50	
Sodium PPM	57.3	10.0	"		63.5			10.3	50	

**Batch B4F0617 - DTPA Sorbitol Preparation**

**Blank (B4F0617-BLK1)**

Prepared: 06/06/2024 Analyzed: 06/07/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4F0617-DUP1)**

Source: Y406091-01

Prepared: 06/06/2024 Analyzed: 06/07/2024

Boron	0.166	0.100	mg/L		0.167			0.837	50	
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**Batch B4F1409 - DTPA Sorbitol Preparation**

**Blank (B4F1409-BLK1)**

Prepared: 06/14/2024 Analyzed: 06/17/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4F1409-DUP1)**

Source: Y406104-01

Prepared: 06/14/2024 Analyzed: 06/17/2024

Boron	0.0956	0.0996	mg/L		0.113			16.2	50	
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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F1413 - Saturated Paste Metals**

**Blank (B4F1413-BLK1)**

Prepared: 06/14/2024 Analyzed: 06/18/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B4F1413-DUP1)**

**Source: Y405686-01**

Prepared: 06/14/2024 Analyzed: 06/18/2024

Calcium PPM	15.0	10.0	mg/L		21.4			35.3	50	
SAR	ND	0.0100	SAR		0.115				200	
Magnesium PPM	3.10	10.0	mg/L		4.04			26.3	50	
Sodium PPM	2.00	10.0	"		2.22			10.4	50	

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Fremont Environmental  
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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4F0622 - Saturated Paste pH/EC**

**Blank (B4F0622-BLK1)**

Prepared: 06/06/2024 Analyzed: 06/07/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4F0622-DUP1)**

**Source: Y406006-01**

Prepared: 06/06/2024 Analyzed: 06/07/2024

pH 8.53 pH Units 8.55 0.234 25

Specific Conductance (EC) 0.314 0.00500 mmhos/cm 0.346 9.62 25

**Batch B4F1417 - Saturated Paste pH/EC**

**Blank (B4F1417-BLK1)**

Prepared: 06/14/2024 Analyzed: 06/18/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4F1417-DUP1)**

**Source: Y405686-01**

Prepared: 06/14/2024 Analyzed: 06/18/2024

Specific Conductance (EC) 0.125 0.00500 mmhos/cm 0.149 17.9 25

pH 7.72 pH Units 8.04 4.06 25

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 8305 6th St, PO Box 1289  
 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
<b>Batch 2631209 - SW846 3060A</b>											
<b>BLANK (1205771139-BLK)</b>					Prepared: 06/25/2024 Analyzed: 06/26/2024						<b>U</b>
Hexavalent Chromium	ND	0.293	mg/kg				-				
<b>LCS (1205771140-BKS)</b>					Prepared: 06/25/2024 Analyzed: 06/26/2024						
Hexavalent Chromium	3.71	0.371	mg/kg	3.71		99.9	80-120				
<b>DUP (1205771141 D)</b>					Source: 671766001 Prepared: 06/25/2024 Analyzed: 06/26/2024						<b>U</b>
Hexavalent Chromium	ND	0.274	mg/kg dry		<0.110		0-50	N/A	50		
<b>MS (1205771142 S)</b>					Source: 671766001 Prepared: 06/25/2024 Analyzed: 06/26/2024						
Hexavalent Chromium	1.65	0.274	mg/kg dry	2.74	<0.110	57.5	75-125				
<b>DUP (1205771143 D)</b>					Source: 671788002 Prepared: 06/25/2024 Analyzed: 06/26/2024						<b>hJ</b>
Hexavalent Chromium	0.140	0.299	mg/kg dry		<0.120		0-50	N/A	50		
<b>MS (1205771144 S)</b>					Source: 671788002 Prepared: 06/25/2024 Analyzed: 06/26/2024						<b>h</b>
Hexavalent Chromium	2.39	0.299	mg/kg dry	2.99	<0.120	76.4	75-125				
<b>ILCS (1205771145-ILCS)</b>					Prepared: 06/25/2024 Analyzed: 06/26/2024						
Hexavalent Chromium	7.99	0.381	mg/kg	7.80		102	80-120				

Origins Laboratory, Inc.



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 Wellington CO 80549

Paul Henehan  
 Project Number: [none]  
 Project: PDC - Wells Ranch 34F

**Total Metals by 7196A - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2626865 - SW846 3060A</b>										
<b>BLANK (1205762011-BLK)</b>					Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	ND	0.281	mg/kg				-			U
<b>LCS (1205762012-BKS)</b>					Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	2.78	0.280	mg/kg	2.80		99.3	80-120			
<b>DUP (1205762013 D)</b>					Source: 670680001 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	ND	0.367	mg/kg dry		<0.147		0-50	N/A	50	U
<b>MS (1205762014 S)</b>					Source: 670680001 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	2.43	0.367	mg/kg dry	3.67	<0.147	65	75-125			
<b>DUP (1205762015 D)</b>					Source: 670689006 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	ND	0.342	mg/kg dry		<0.137		0-50	N/A	50	U
<b>MS (1205762016 S)</b>					Source: 670689006 Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	2.98	0.342	mg/kg dry	3.42	<0.137	85.9	75-125			
<b>ILCS (1205762017-ILCS)</b>					Prepared: 06/14/2024 Analyzed: 06/17/2024					
Hexavalent Chromium	5.90	0.293	mg/kg	6.06		97.4	80-120			

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Wellington CO 80549

Paul Henehan  
Project Number: [none]  
Project: PDC - Wells Ranch 34F

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### Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

hJ [Undefined]

h Preparation or preservation holding time was exceeded

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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