

FOUNDATION ENERGY INC.
ALLARD 30-8-5 (North) Former Well Jack Area and
ALLARD 30-8-5 (South) Former Treater/Battery Area

FORM 27 SUPPLEMENTAL
MAY 2021 SOIL EXCAVATION AND MONITORING WELL INSTALLATION

ATTACHMENTS

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Attachments

- A Summit Scientific Laboratory Reports:
 - 2105348 – soil
 - 2105389 – soil
 - 2105419 – soil
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 - 2105346 – groundwater
 - 2105347 – surface water
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Tables

Table 1
Foundation Energy Management - Allard 30-8-5
Volatile Organic Compound Soil Sample Results
Jackson County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	Comments
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-	0.0026 (M)	0.69 (M)	0.78 (M)	9.9 (M)	0.0081 (R)	0.0087 (R)	0.0038 (R)	500	
Allard South (Former Battery and Treatment Area)												
MW01@2'	5/17/2021	2105348	2.9	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	64	
MW01@6'	5/17/2021	2105348	0.0	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
MW02@3'	5/18/2021	2105348	10.9	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
MW02@6'	5/18/2021	2105348	2.5	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
MW03@5'	5/18/2021	2105348	518.3	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
MW03@8'	5/18/2021	2105348	516.2	0.0031	<0.005	<0.005	<0.010	<0.005	<0.005	0.011	229	
MW04@3'	5/18/2021	2105348	53.4	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	93	
MW04@6'	5/18/2021	2105348	356.2	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	90.1	
MW05@4'	5/18/2021	2105348	45.8	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
MW05@6'	5/18/2021	2105348	4.7	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
Allard North (Former Well Jack Area)												
MW07@3'	5/19/2021	2105348	0.0	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
MW07@6'	5/19/2021	2105348	0.0	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
MW08@3'	5/19/2021	2105348	1.3	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
MW08@6'	5/19/2021	2105348	0.0	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
MW09@3'	5/19/2021	2105348	0.0	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
MW09@6'	5/19/2021	2105348	0.0	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
WJA-N@4.5'	5/25/2021	2105389	9.0	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
WJA-S@4.5'	5/25/2021	2105389	1.2	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
WJA-E@4.5'	5/25/2021	2105389	1.2	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	
WJA-W@4.5'	5/25/2021	2105389	5.7	<0.002	<0.005	<0.005	<0.010	0.012	<0.005	0.0065	0.82	
WJA-B@5'	5/26/2021	2105419	476.2	0.33	0.59	0.81	4.2	4.6	2.3	1.5	1700	
WJA-W3@4.5'	5/27/2021	2105496	NA	<0.002	<0.005	<0.005	<0.010	<0.005	<0.005	<0.0038	<50	

Notes:

1). The environmental cleanup standards for soil that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in soil according to Table 910-1 (Prior to January 15th, 2021) and Table 915-1 (Post January 15, 2021) of the COGCC 900 Series Rule for E&P Waste Management.

2). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021. If there is no pathway for communication with Groundwater, then residential soil screening levels apply for organic compounds and metals. If the Director determines that a pathway to Groundwater exists, then the protection of Groundwater soil screening levels will apply, secondary to actual measured concentrations of the contaminants of concern in Groundwater.

4). TPH - Total volatile (C₆ - C₁₀) and extractable (C₁₀ - C₃₆) petroleum hydrocarbons.

mg/kg= Milligrams per kilogram.

ppm - Parts per million

Bold values indicate an exceedance of the Site Specific and/or the COGCC soil standards for the Site.

Table 915 note - If the method detection limit ("MDL") or practical quantitation limit ("PQL") for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.

Table 2
Foundation Energy Management - Allard 30-8-5
Polyaromatic Hydrocarbon (PAHs) Soil Sample Results
Jackson County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)		Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a)anthracene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Benzo(a)pyrene (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)	1-methylnaphthalene (mg/kg)	2-methylnaphthalene (mg/kg)	Pyrene (mg/kg)	Comments
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-		0.55 (R)	5.8 (R)	0.011 (R)	0.3 (R)	2.9 (R)	0.24 (M)	9 (R)	0.096 (R)	8.9 (R)	0.54 (R)	0.98 (R)	0.006 (R)	0.019 (R)	1.3 (R)	
Allard South (Former Battery and Treatment Area)																			
MW01@2'	5/17/2021	2105348	2.9		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW01@6'	5/17/2021	2105348	0.0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW02@3'	5/18/2021	2105348	10.9		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW02@6'	5/18/2021	2105348	2.5		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW03@5'	5/18/2021	2105348	518.3		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW03@8'	5/18/2021	2105348	516.2		<0.005	0.077	0.030	<0.005	<0.005	<0.005	0.0327	<0.005	0.00903	0.032	<0.005	0.0445	0.0342	0.0147	
MW04@3'	5/18/2021	2105348	53.4		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW04@6'	5/18/2021	2105348	356.2		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW05@4'	5/18/2021	2105348	45.8		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW05@6'	5/18/2021	2105348	4.7		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Allard North (Former Well Jack Area)																			
MW07@3'	5/19/2021	2105348	0.0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW07@6'	5/19/2021	2105348	0.0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW08@3'	5/19/2021	2105348	1.3		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW08@6'	5/19/2021	2105348	0.0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW09@3'	5/19/2021	2105348	0.0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
MW09@6'	5/19/2021	2105348	0.0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
WJA-N@4.5'	5/25/2021	2105389	9.0		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
WJA-S@4.5'	5/25/2021	2105389	1.2		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00697	<0.005	<0.005	
WJA-E@4.5'	5/25/2021	2105389	1.2		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0147	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00646	
WJA-W@4.5'	5/25/2021	2105389	5.7		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
WJA-B@5'	5/26/2021	2105419	476.2		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
WJA-W3@4.5'	5/27/2021	2105496	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

2). The letter “(R)” following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter “(M)” following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

mg/kg= Milligrams per kilogram.

PPM - Parts per million

PID - Photoionization Detector

Bold values indicate an exceedance of the COGCC soil standards for the Site.

Table 915 note - If the method detection limit (“MDL”) or practical quantitation limit (“PQL”) for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.

NA = Not Analyzed

Table 3
Foundation Energy Management - Allard 30-8-5
Soil Suitability and Inorganic Soil Sample Results
Jackson County, Colorado

Sample ID	Date Sampled	Lab Report	PID Reading (PPM)		pH (pH units)	Specific Conductance (EC) (mmhos/cm)	Sodium Adsorption Ratio (SAR)	Boron (mg/l)		Arsenic ³ (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)	Comments
COGCC Protection of Groundwater Soil Screening Level Standards Risk & MCL Based ^(1 & 2) (mg/kg)	-	-	-		6-8.3	<4 mmhos/cm	<6	2 (mg/L)		0.29 (M)	82 (M)	0.38 (M)	0.00067 (R)	46 (M)	14 (M)	26 (R)	0.26 (M)	0.8 (R)	370 (R)	
Allard South (Former Battery and Treatment Area)																				
MW01@2'	5/17/2021	2105348	2.9		8.78	0.743	8.13	1.05		1.04	98.6	<0.249	<0.30	11.7	6.93	12.0	0.386	0.0403	55.0	
MW01@6'	5/17/2021	2105348	0.0		8.81	0.498	7.95	0.431		2.12	53.4	<0.253	<0.30	6.32	5.33	5.78	<0.328	<0.0253	24.6	
MW02@3'	5/18/2021	2105348	10.9		8.45	0.368	0.625	0.223		0.927	15.9	<0.224	<0.30	3.30	3.57	3.09	<0.291	<0.0224	16.8	
MW02@6'	5/18/2021	2105348	2.5		8.50	0.351	0.621	0.125		1.33	77.0	<0.233	<0.30	4.62	4.09	4.34	0.348	0.0519	28.6	
MW03@5'	5/18/2021	2105348	518.3		8.47	0.397	0.740	0.123		1.06	27.0	<0.218	<0.30	3.23	5.10	5.05	<0.284	0.0369	21.4	
MW03@8'	5/18/2021	2105348	516.2		8.21	0.889	1.09	0.165		2.05	38.5	<0.246	<0.30	6.89	4.33	4.29	<0.319	<0.0246	20.4	
MW04@3'	5/18/2021	2105348	53.4		8.50	0.341	2.74	0.0415		1.32	34.0	<0.223	<0.30	2.58	4.22	3.34	<0.289	<0.0223	18.1	
MW04@6'	5/18/2021	2105348	356.2		8.13	0.791	0.594	0.0351		0.676	31.7	<0.226	<0.30	4.22	4.84	3.49	<0.294	0.0267	18.4	
MW05@4'	5/18/2021	2105348	45.8		8.33	0.161	0.647	0.0289		1.53	66.1	<0.233	<0.30	9.07	5.36	6.17	<0.303	0.0390	28.1	
MW05@6'	5/18/2021	2105348	4.7		8.30	0.343	0.685	0.0140		1.20	32.8	<0.223	<0.30	4.77	4.67	4.87	<0.290	0.0311	23.3	
Allard North (Former Well Jack Area)																				
MW07@3'	5/19/2021	2105348	0.0		7.26	0.376	0.996	0.0674		0.832	81.9	<0.253	<0.30	8.61	8.30	7.45	<0.328	0.0413	41.7	
MW07@6'	5/19/2021	2105348	0.0		7.84	0.172	1.19	0.161		3.18	42.8	<0.258	<0.30	3.70	6.43	4.29	<0.335	<0.0258	22.4	
MW08@3'	5/19/2021	2105348	1.3		7.51	0.236	1.36	0.160		1.87	69.1	<0.264	<0.30	5.32	7.19	6.23	<0.343	0.0378	34.5	
MW08@6'	5/19/2021	2105348	0.0		7.88	0.236	1.12	0.0819		<0.242	24.2	<0.242	<0.30	3.41	4.39	2.70	0.378	<0.0242	16.1	
MW09@3'	5/19/2021	2105348	0.0		8.11	0.240	0.971	0.0541		0.925	31.1	<0.232	<0.30	2.17	3.77	3.81	<0.301	<0.0232	14.3	
MW09@6'	5/19/2021	2105348	0.0		8.08	0.122	0.668	0.0370		0.773	50.9	<0.245	<0.30	3.91	3.95	4.26	1.63	<0.0245	22.0	
WJA-N@4.5'	5/25/2021	2105389	9.0		8.07	0.331	0.654	0.0815		0.56	93.2	<0.227	<0.30	14.2	6.2	12.0	0.658	0.0277	48.5	
WJA-S@4.5'	5/25/2021	2105389	1.2		8.00	0.694	2.99	0.258		1.68	117	<0.238	<0.30	11.1	8.9	10.8	0.701	0.0656	56.9	
WJA-E@4.5'	5/25/2021	2105389	1.2		7.30	0.149	0.763	0.182		1.83	170	<0.251	<0.30	13.8	11.1	11.9	1.18	0.0822	71.9	
WJA-W@4.5'	5/25/2021	2105389	5.7		7.39	0.121	0.933	0.0888		4.03	173	<0.253	<0.30	15.8	12.8	15.5	0.979	0.104	81.6	
WJA-B@5'	5/26/2021	2105419	476.2		8.2	0.659	1.26	0.188		2.20	113	<0.243	<0.30	13.7	26.8	12.0	1.12	0.0384	60.2	
WJA-W3@4.5'	5/27/2021	2105496	NA		NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

1). Standards for Soil are referenced from the 2 CCR 404-1, Table 915-1, effective January 15, 2021.

2). The letter “(R)” following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter “(M)” following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

3). The Arsenic concentration from soil sample TP05@12' is within known background levels for soil in Weld County, Colorado

mg/kg= Milligrams per kilogram.

PPM - Parts per million

PID - Photoionization Detector

Bold values indicate an exceedance of the COGCC soil standards for the Site.

Table 915 note - If the method detection limit (“MDL”) or practical quantitation limit (“PQL”) for a pollutant is higher (less stringent) than a threshold concentration listed in Table 915-1, the Director may allow an Operator to substitute the MDL or PQL for the concentration listed in Table 915-1.

NA = Not Analyzed

TABLE 4
MAY 2021
SUMMARY OF GROUNDWATER ELEVATION DATA
FOUNDATION ENERGY - ALLARD 30-8-5
JACKSON COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW01	5/20/2021	2.79	-	-	7.12	NM*	NC	NC
MW02	5/20/2021	1.47	-	-	6.60	NM*	NC	NC
MW03	5/20/2021	5.15	-	-	10.34	NM*	NC	NC
MW04	5/20/2021	3.41	-	-	8.10	NM*	NC	NC
MW05	5/20/2021	3.00	-	-	7.62	NM*	NC	NC
MW06	5/20/2021	5.38	-	-	10.34	NM*	NC	NC
MW07	5/20/2021	5.24	-	-	10.18	NM*	NC	NC
MW08	5/20/2021	6.26	-	-	10.33	NM*	NC	NC
MW09	5/20/2021	5.73	-	-	10.34	NM*	NC	NC

Notes:

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)

LNAPL relative density was assumed to be approximately 0.75

NM = Not Measured

* Well stick up heights modified after sampling event, before survey

NC = Not calculated

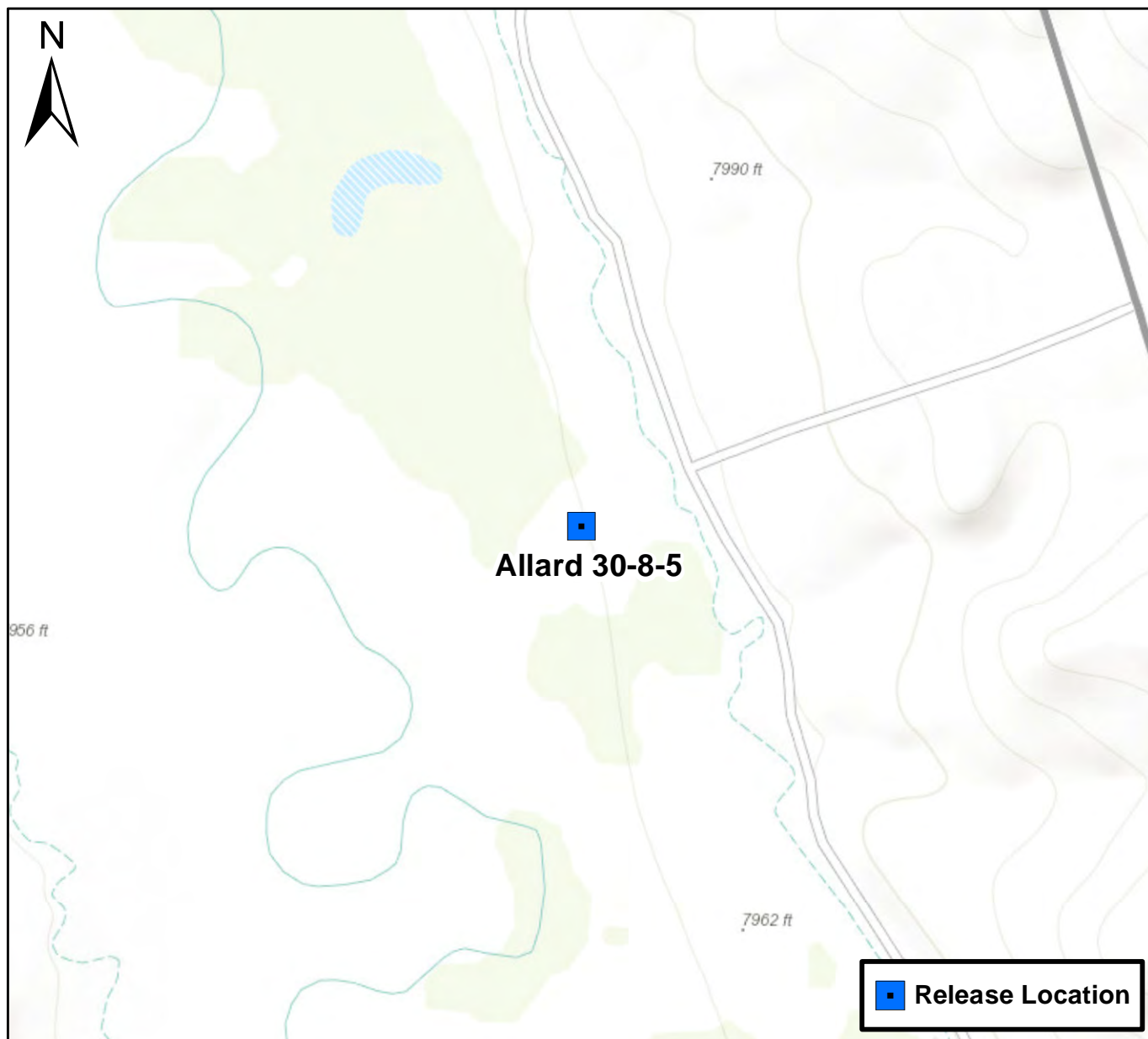
TABLE 5
MAY 2021 GROUNDWATER ANALYTICAL RESULTS
FOUNDATION ENERGY ALLARD 30-8-5
JACKSON COUNTY, COLORADO

Location Identification	Sample Date	Lab Report	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	1,2,4-Trimethylbenzene (µg/l)	1,3,5-Trimethylbenzene (µg/l)	Naphthalene (µg/l)		Total Dissolved Solids (mg/l)	Chloride (mg/l)	Sulfate (mg/l)		Comments
COGCC Standards (µg/L) ⁽¹⁾			5	560	700	1,400	67	67	140		(<1.25 x local background)	(250 mg/l or <1.25 x local background)	(250 mg/l or <1.25 x local background)		
Allard South (Former Battery and Treatment Area)															
MW01	5/20/2021	2105346	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		727	64.2	134		
MW02	5/20/2021	2105346	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		342	15.2	84.0		
MW03	5/20/2021	2105346	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		317	14.4	107		
MW04	5/20/2021	2105346	<1.0	<1.0	<1.0	<2.0	<1.0	3.8	<1.0		346	10.2	83.4		
MW05	5/20/2021	2105346	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		317	21.6	67.8		
SW01	5/20/2021	2105347	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		111	2.31	23.5		Surface water sample
Allard North (Former Well Jack Area)															
MW06	5/20/2021	2105346	1.5	<1.0	<1.0	27.0	7.1	25	3.7		278	20.2	71.8		
MW07	5/20/2021	2105346	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		408	2.00	208		
MW08	5/20/2021	2105346	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		206	19.0	60.4		
MW09	5/20/2021	2105346	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		308	18.6	117		

Notes:
1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 915-1 of the COGCC 900 Series Rule for E&P Waste Management.
2). Standards are taken from the Colorado Department of Public Health and Environment - Water Quality Control Commission, 5 CCR 1002-41, Table A - Groundwater Organic Chemical Standards.

Bold values indicate an exceedance of the COGCC groundwater standards for the Site.
µg/L = micrograms per liter.
mg/L = milligrams per liter.

Figures



0 750 1,500 Feet

Figure 1

Site Location Map
 Allard 30-8-5
 SENE S30 T10N R79W
 Jackson County, Colorado





Tasman Geosciences, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

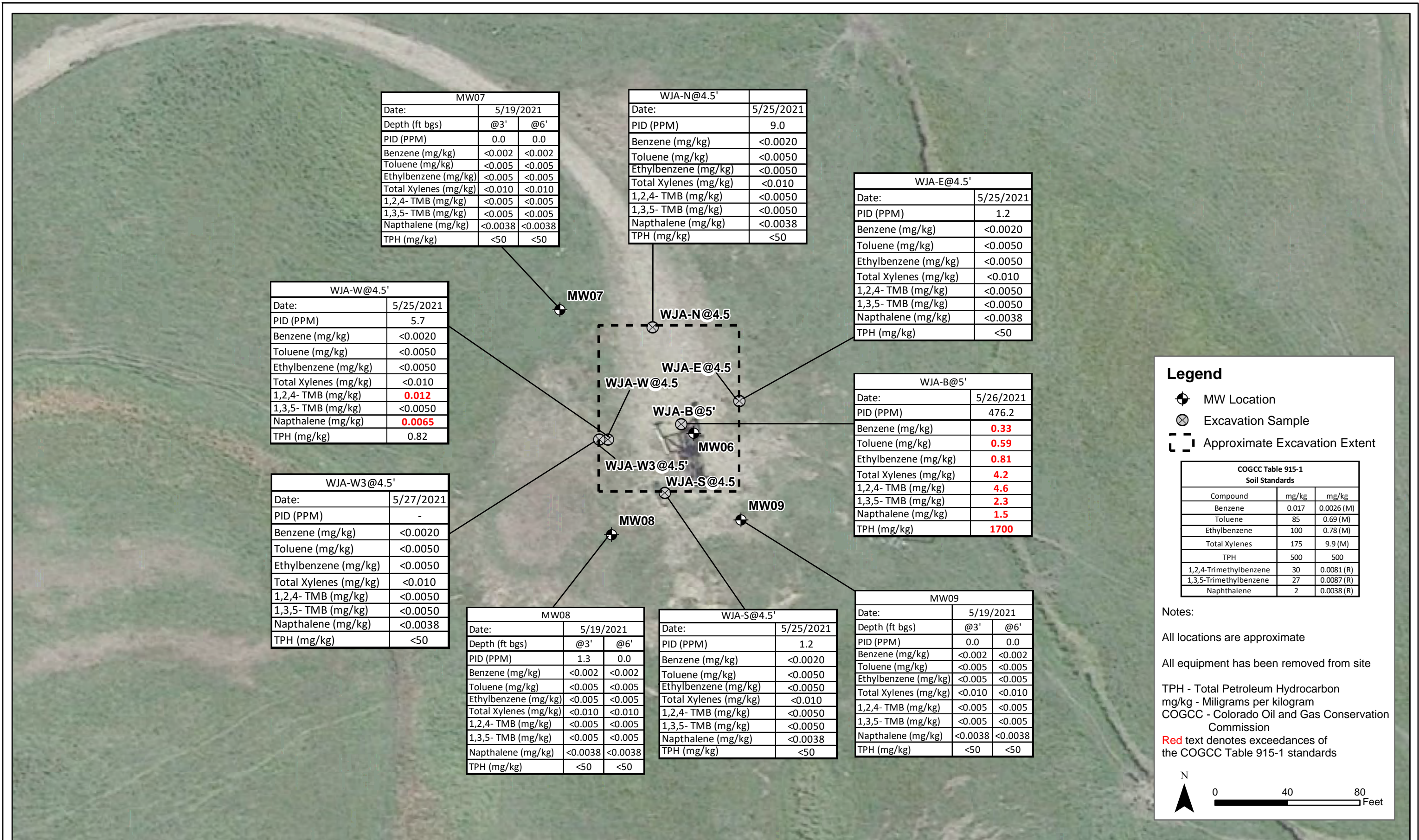
Foundation Energy Inc.
Allard 30-8-5

SENE, Section 30, Township 10 North, Range 79 West
Jackson County, Colorado

Site Overview Map

Figure
2

DATE:	June 2021
DESIGNED BY:	B. Humphey
DRAWN BY:	A. Dahl



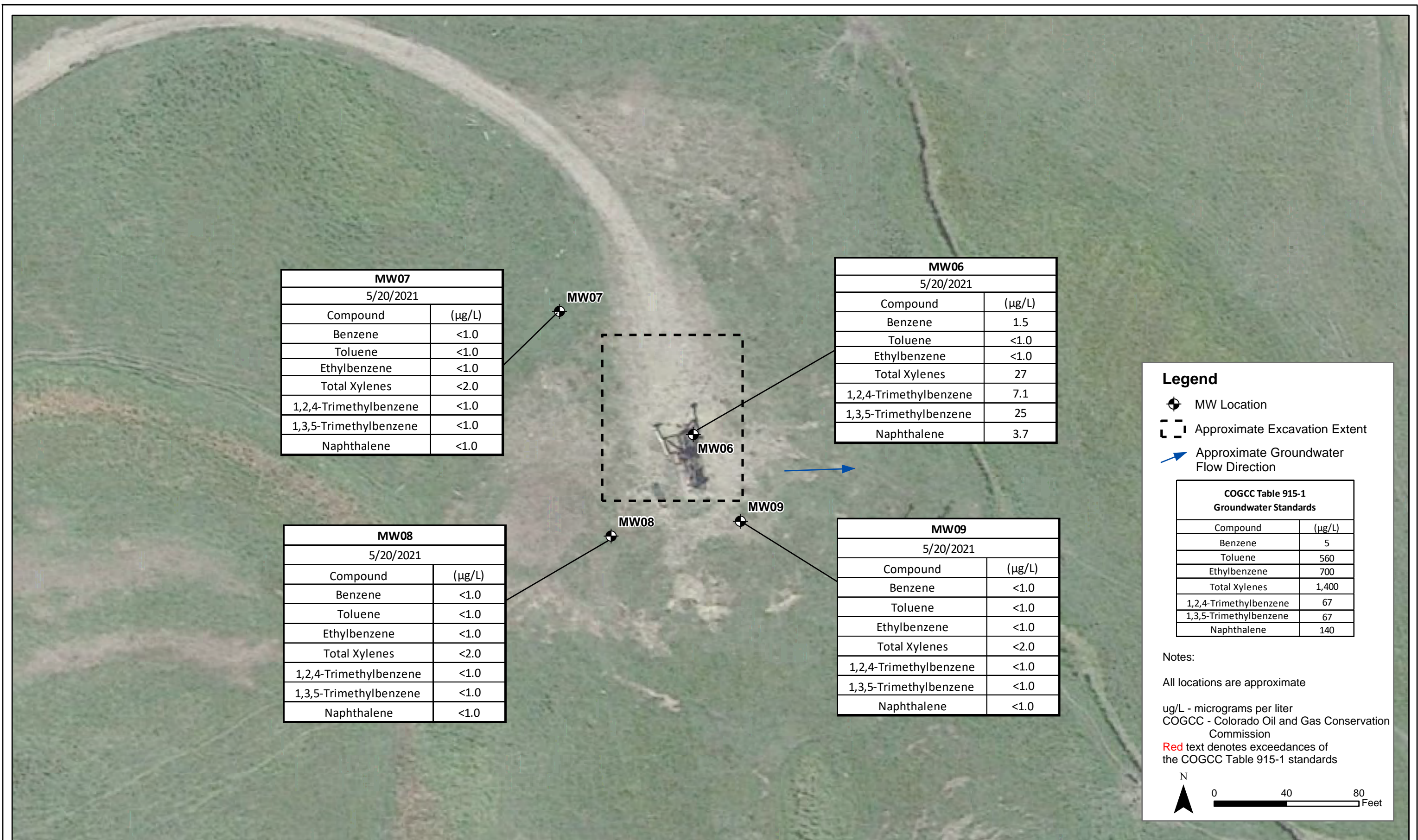
DATE: June 2021
DESIGNED BY: B. Humphey
DRAWN BY: C. Ambler



Foundation Energy Inc.
Allard 30-8-5 North
SENE, Section 30, Township 10 North, Range 79 West
Jackson County, Colorado

Former Well Jack Area
Soil Sample Analytical Map
(May 19-27, 2021)

Figure
3



DATE:
June 2021

DESIGNED BY:
B. Humphey

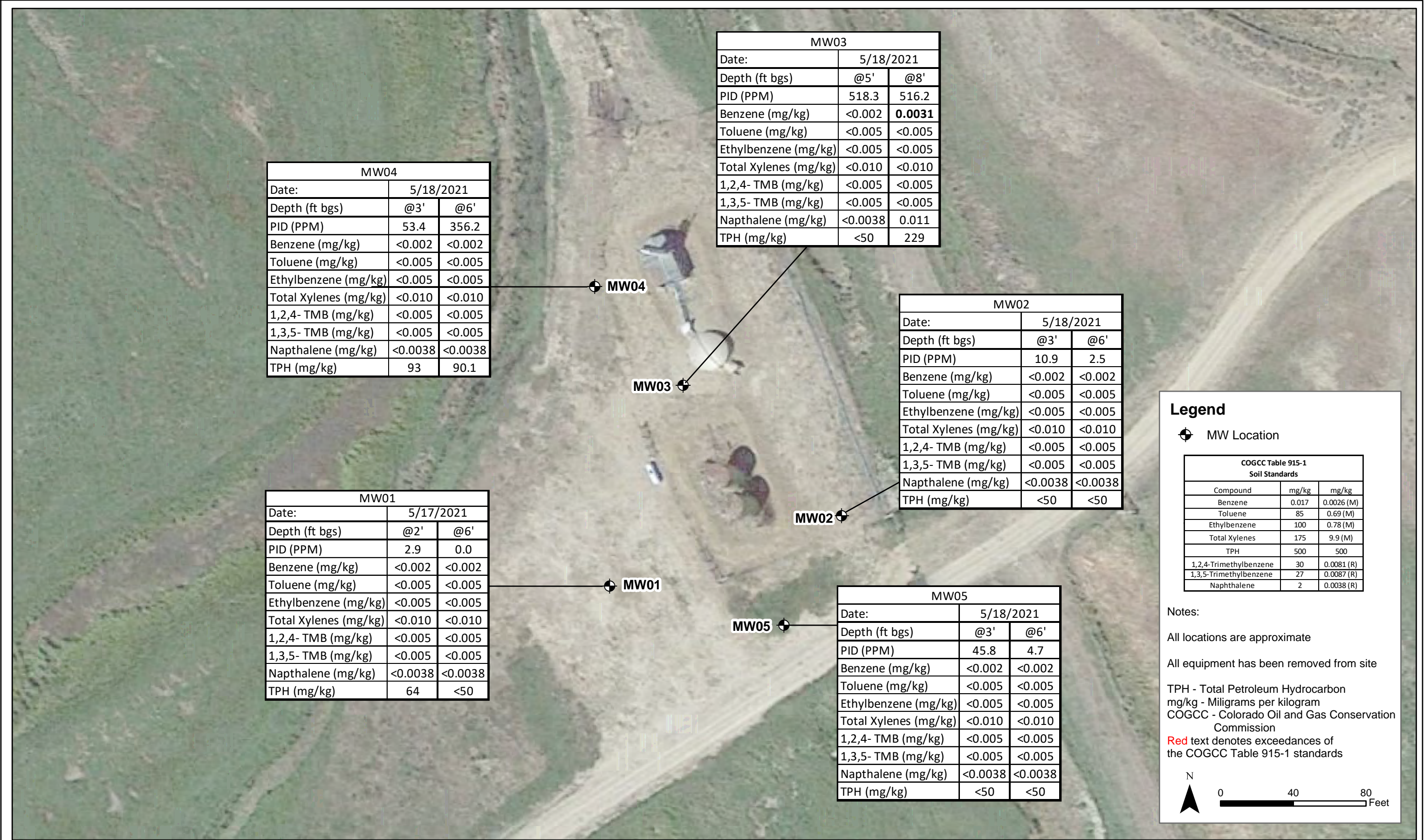
DRAWN BY:
C. Ambler



Foundation Energy Inc.
Allard 30-8-5 North
SENE, Section 30, Township 10 North, Range 79 West
Jackson County, Colorado

Former Well Jack Area
Groundwater Sample Analytical
Map
(May 20, 2021)

Figure
4



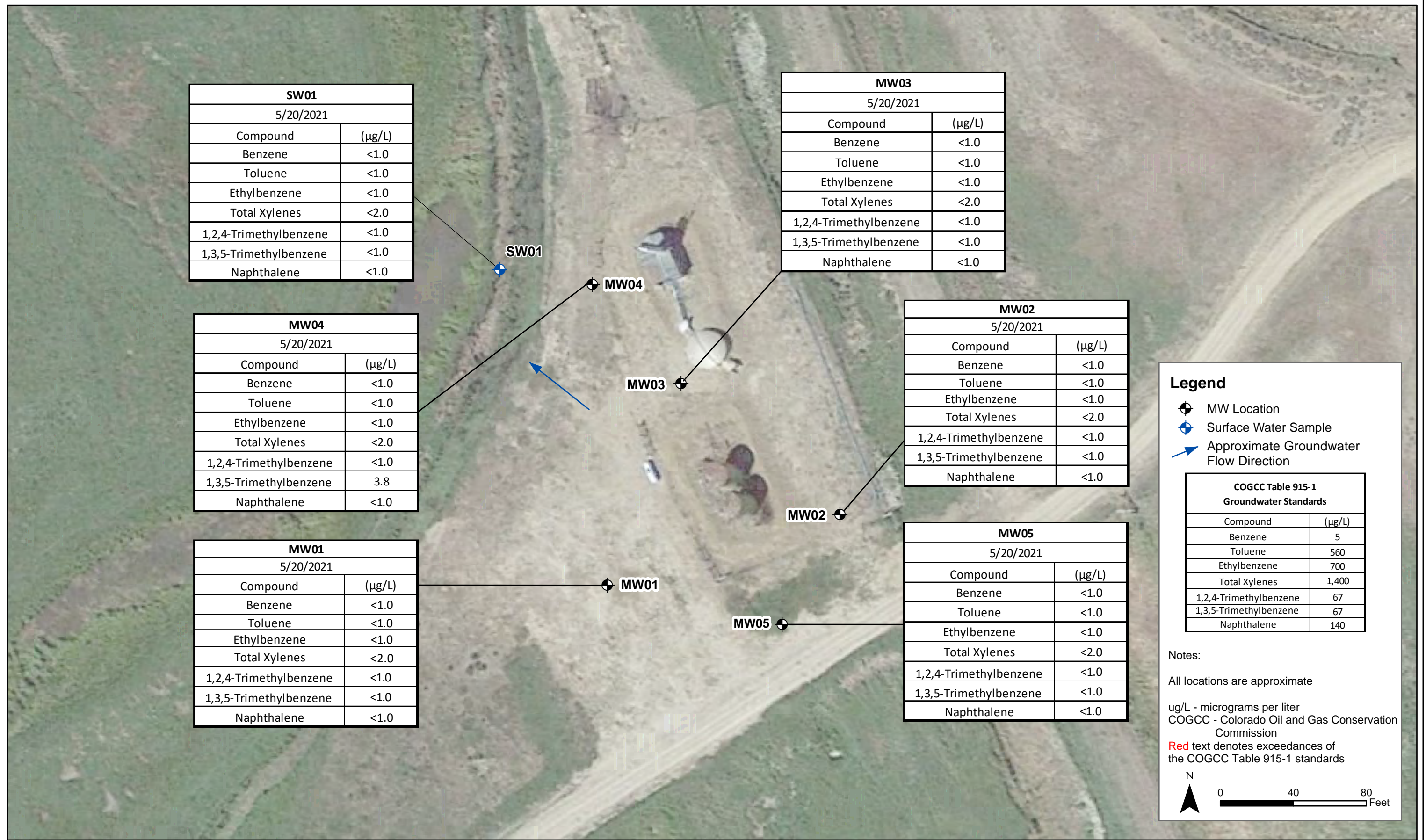
DATE: June 2021
DESIGNED BY: B. Humphey
DRAWN BY: C. Ambler

TASMAN GEOSCIENCES
Tasman Geosciences, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

Foundation Energy Inc.
Allard 30-8-5 South
SENE, Section 30, Township 10 North, Range 79 West
Jackson County, Colorado

Former Battery and Treater Area
Soil Sample Analytical Map
(May 17-18, 2021)

Figure
5



Attachment A:
Summit Scientific Lab Reports

-2105348

-2105389

-2105419

-2105496

-2105346

-2105347

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 08, 2021

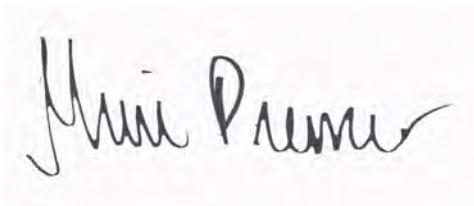
Alyssa Beard
Foundation Energy
1801 Broadway, Suite 1500
Denver, CO 80202

RE: Allard 30-8-5

Work Order #2105348

Enclosed are the results of analyses for samples received by Summit Scientific on 05/20/21 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premer". The signature is written in a cursive style with a large, stylized "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01@2'	2105348-01	Soil	05/17/21 13:50	05/20/21 18:00
MW01@6'	2105348-02	Soil	05/17/21 14:00	05/20/21 18:00
MW02@3'	2105348-03	Soil	05/18/21 10:00	05/20/21 18:00
MW02@6'	2105348-04	Soil	05/18/21 10:20	05/20/21 18:00
MW03@5'	2105348-05	Soil	05/18/21 13:00	05/20/21 18:00
MW03@8'	2105348-06	Soil	05/18/21 13:20	05/20/21 18:00
MW04@3'	2105348-07	Soil	05/18/21 14:20	05/20/21 18:00
MW04@6'	2105348-08	Soil	05/18/21 14:40	05/20/21 18:00
MW05@4'	2105348-09	Soil	05/18/21 15:40	05/20/21 18:00
MW05@6'	2105348-10	Soil	05/18/21 16:00	05/20/21 18:00
MW07@3'	2105348-11	Soil	05/19/21 11:50	05/20/21 18:00
MW07@6'	2105348-12	Soil	05/19/21 12:10	05/20/21 18:00
MW08@3'	2105348-13	Soil	05/19/21 12:50	05/20/21 18:00
MW08@6'	2105348-14	Soil	05/19/21 13:05	05/20/21 18:00
MW09@3'	2105348-15	Soil	05/19/21 13:30	05/20/21 18:00
MW09@6'	2105348-16	Soil	05/19/21 13:50	05/20/21 18:00

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.

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

2105348.1

Page 1 of 2

Client: Foundation / Tasman

Address: 6855 W 119th Ave

City/State/Zip: Broomfield, CO 80020

Phone: 303-462-1228 Fax:

Sampler Name: Brian Gabe

Project Manager: Jeb Watts / Alyssa Board

E-Mail: jwatts@tasman-sco.com / aboard@foundationenergy.com

Project Name: Allard 30-8-5

Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:												Special Instructions				
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Table 95-1																
MW01 @ 2'	5/17/21	1350	4			X			X				X															
MW01 @ 6'	5/17/21	1400	4			X			X				X															
MW02 @ 3'	5/18/21	1000	4			X			X				X															
MW02 @ 6'	5/18/21	1020	4			X			X				X															
MW03 @ 5'	5/18/21	1300	4			X			X				X															
MW03 @ 8'	5/18/21	1320	4			X			X				X															
MW04 @ 3'	5/18/21	1420	4			X			X				X															
MW04 @ 6'	5/18/21	1440	4			X			X				X															
MW05 @ 4'	5/18/21	1540	4			X			X				X															
MW05 @ 6'	5/18/21	1600	4			X			X				X															

Relinquished by: <u>D. J. L.</u>	Date/Time: <u>5/20/21 1800</u>	Received by: <u></u>	Date/Time: <u></u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>4.6°</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes: Please shorten Hold Time
Relinquished by: <u></u>	Date/Time: <u></u>	Received by: <u></u>	Date/Time: <u></u>		
Relinquished by: <u></u>	Date/Time: <u></u>	Received in Lab by: <u></u>	Date/Time: <u>5.20.21 1800</u>		

Summit Scientific

2105348.2

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 2 of 2

Client: Foundation / tasman
Address: 6855 W 119th Ave
City/State/Zip: Broomfield, CO 80020
Phone: 303-487-1228 Fax:
Sampler Name: Brian Gabel

Project Manager: Jeff Watts / Alyssa Beard
E-Mail: swatts@tasman-geo.com / abeard@foundationenergy.com
Project Name: Allard 30-8-5
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:												Special Instructions
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Table 915-1												
MW07 @ 3'	5/19/21	1150	4			X			X			X												
MW07 @ 6'	5/19/21	1210	4			X			X			X												
MW08 @ 3'	5/19/21	1250	4			X			X			X												
MW08 @ 6'	5/19/21	1305	4			X			X			X												
MW09 @ 3'	5/19/21	1330	3			X			X			X												
MW09 @ 6'	5/19/21	1350	3			X			X			X												

Relinquished by: <u>Brian Gabel</u>	Date/Time: <u>5/20/21 180</u>	Received by:	Date/Time:	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>4.6°</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time: <u>5-20-21 1800</u>		

Sample Receipt Checklist

S2 Work Order

2105348

Client: Foundation/Tasman

Client Project ID: Allard 30-8-5

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

Airbill #:

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply):

☐ Air

☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Temp (°C)

4.6

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? 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):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name or Initials

Signature of Custodian

Date/Time

5-20-21



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW01@2'
2105348-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	64	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW01@2'
2105348-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.05	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW01@2'
2105348-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.04	0.249	mg/kg dry	1	BEE0433	05/24/21	05/25/21	EPA 6020B
Barium	98.6	0.497	"	"	"	"	"	"
Cadmium	ND	0.249	"	"	"	"	"	"
Copper	11.7	0.497	"	"	"	"	"	"
Lead	6.93	0.249	"	"	"	"	"	"
Nickel	12.0	0.497	"	"	"	"	"	"
Selenium	0.386	0.323	"	"	"	"	"	"
Silver	0.0403	0.0249	"	"	"	"	"	"
Zinc	55.0	0.497	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.6	0.0622	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	9.58	0.0622	"	"	"	"	"	"	
Sodium	160	0.0622	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.13	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW01@2'
2105348-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.4	%	1	BEE0439	05/24/21	05/25/21	Calculation
----------	------	---	---	---------	----------	----------	-------------

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.743	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/17/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.78		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW01@6'
2105348-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW01@6'
2105348-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.431	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW01@6'
2105348-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	2.12	0.253	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	53.4	0.505	"	"	"	"	"	"
Cadmium	ND	0.253	"	"	"	"	"	"
Copper	6.32	0.505	"	"	"	"	"	"
Lead	5.33	0.253	"	"	"	"	"	"
Nickel	5.78	0.505	"	"	"	"	"	"
Selenium	ND	0.328	"	"	"	"	"	"
Silver	ND	0.0253	"	"	"	"	"	"
Zinc	24.6	0.505	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.6	0.0631	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	4.10	0.0631	"	"	"	"	"	"	
Sodium	127	0.0631	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.95	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW01@6'
2105348-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.2		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.498	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/17/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.81		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW02@3'
2105348-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/18/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW02@3'
2105348-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		47.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.223	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW02@3'
2105348-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.927	0.224	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	15.9	0.448	"	"	"	"	"	"
Cadmium	ND	0.224	"	"	"	"	"	"
Copper	3.30	0.448	"	"	"	"	"	"
Lead	3.57	0.224	"	"	"	"	"	"
Nickel	3.09	0.448	"	"	"	"	"	"
Selenium	ND	0.291	"	"	"	"	"	"
Silver	ND	0.0224	"	"	"	"	"	"
Zinc	16.8	0.448	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.6	0.0560	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	13.7	0.0560	"	"	"	"	"	"	
Sodium	19.0	0.0560	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.625	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW02@3'
2105348-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	89.3			%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.368	0.0100		mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/18/21 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.45			pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW02@6'
2105348-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/18/21 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW02@6'
2105348-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		44.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.125	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW02@6'
2105348-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.33	0.233	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	77.0	0.465	"	"	"	"	"	"
Cadmium	ND	0.233	"	"	"	"	"	"
Copper	4.62	0.465	"	"	"	"	"	"
Lead	4.09	0.233	"	"	"	"	"	"
Nickel	4.34	0.465	"	"	"	"	"	"
Selenium	0.348	0.302	"	"	"	"	"	"
Silver	0.0519	0.0233	"	"	"	"	"	"
Zinc	28.6	0.465	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.7	0.0581	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	13.6	0.0581	"	"	"	"	"	"	
Sodium	18.6	0.0581	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.621	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/21 10:20**

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

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW02@6'
2105348-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.0	%	1	BEE0439	05/24/21	05/25/21	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.351	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.50		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW03@5'
2105348-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/18/21 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		125 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW03@5'
2105348-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		36.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		43.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.123	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW03@5'
2105348-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.06	0.218	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	27.0	0.437	"	"	"	"	"	"
Cadmium	ND	0.218	"	"	"	"	"	"
Copper	3.23	0.437	"	"	"	"	"	"
Lead	5.10	0.218	"	"	"	"	"	"
Nickel	5.05	0.437	"	"	"	"	"	"
Selenium	ND	0.284	"	"	"	"	"	"
Silver	0.0369	0.0218	"	"	"	"	"	"
Zinc	21.4	0.437	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.1	0.0546	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	13.8	0.0546	"	"	"	"	"	"	
Sodium	22.3	0.0546	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.740	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW03@5'
2105348-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.397	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/18/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW03@8'
2105348-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0031	0.0020	mg/kg	1	BEE0421	05/22/21	05/25/21	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	0.011	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	29	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		292 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	200	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW03@8'
2105348-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
Anthracene	0.0777	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0300	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0327	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00903	0.00500	"	"	"	"	"	"	
Fluorene	0.0320	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0147	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0445	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0342	0.00500	"	"	"	"	"	"	

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		34.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		41.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.165	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW03@8'
2105348-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.05	0.246	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	38.5	0.491	"	"	"	"	"	"
Cadmium	ND	0.246	"	"	"	"	"	"
Copper	6.89	0.491	"	"	"	"	"	"
Lead	4.33	0.246	"	"	"	"	"	"
Nickel	4.29	0.491	"	"	"	"	"	"
Selenium	ND	0.319	"	"	"	"	"	"
Silver	ND	0.0246	"	"	"	"	"	"
Zinc	20.4	0.491	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	109	0.0614	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	39.5	0.0614	"	"	"	"	"	"	
Sodium	52.2	0.0614	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.09	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW03@8'
2105348-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.889	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/18/21 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW04@3'
2105348-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/18/21 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	93	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW04@3'
2105348-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0415	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/21 14:20**

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

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW04@3'
2105348-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.32	0.223	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	34.0	0.445	"	"	"	"	"	"
Cadmium	ND	0.223	"	"	"	"	"	"
Copper	2.58	0.445	"	"	"	"	"	"
Lead	4.22	0.223	"	"	"	"	"	"
Nickel	3.34	0.445	"	"	"	"	"	"
Selenium	ND	0.289	"	"	"	"	"	"
Silver	ND	0.0223	"	"	"	"	"	"
Zinc	18.1	0.445	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.8	0.0557	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	6.25	0.0557	"	"	"	"	"	"	
Sodium	53.7	0.0557	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.74	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW04@3'
2105348-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	89.8			%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.341	0.0100		mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/18/21 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.50			pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW04@6'
2105348-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/25/21	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	6.1	0.50	"	"	"	"	"	"	

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		148 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	84	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW04@6'
2105348-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0351	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW04@6'
2105348-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.676	0.226	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	31.7	0.453	"	"	"	"	"	"
Cadmium	ND	0.226	"	"	"	"	"	"
Copper	4.22	0.453	"	"	"	"	"	"
Lead	4.84	0.226	"	"	"	"	"	"
Nickel	3.49	0.453	"	"	"	"	"	"
Selenium	ND	0.294	"	"	"	"	"	"
Silver	0.0267	0.0226	"	"	"	"	"	"
Zinc	18.4	0.453	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	102	0.0566	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	29.7	0.0566	"	"	"	"	"	"	
Sodium	26.5	0.0566	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.594	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW04@6'
2105348-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.791	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/18/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW05@4'
2105348-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/18/21 15:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW05@4'
2105348-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		41.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0289	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW05@4'
2105348-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.53	0.233	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	66.1	0.466	"	"	"	"	"	"
Cadmium	ND	0.233	"	"	"	"	"	"
Copper	9.07	0.466	"	"	"	"	"	"
Lead	5.36	0.233	"	"	"	"	"	"
Nickel	6.17	0.466	"	"	"	"	"	"
Selenium	ND	0.303	"	"	"	"	"	"
Silver	0.0390	0.0233	"	"	"	"	"	"
Zinc	28.1	0.466	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	17.5	0.0583	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	5.23	0.0583	"	"	"	"	"	"	
Sodium	12.0	0.0583	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.647	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW05@4'
2105348-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.8		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.161	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/18/21 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW05@6'
2105348-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/18/21 16:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.5 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW05@6'
2105348-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		42.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0140	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW05@6'
2105348-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.20	0.223	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	32.8	0.447	"	"	"	"	"	"
Cadmium	ND	0.223	"	"	"	"	"	"
Copper	4.77	0.447	"	"	"	"	"	"
Lead	4.67	0.223	"	"	"	"	"	"
Nickel	4.87	0.447	"	"	"	"	"	"
Selenium	ND	0.290	"	"	"	"	"	"
Silver	0.0311	0.0223	"	"	"	"	"	"
Zinc	23.3	0.447	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.8	0.0558	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	11.9	0.0558	"	"	"	"	"	"	
Sodium	19.8	0.0558	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.685	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW05@6'
2105348-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.5		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.343	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/18/21 16:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.30		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW07@3'
2105348-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/19/21 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW07@3'
2105348-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0674	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW07@3'
2105348-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.832	0.253	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	81.9	0.505	"	"	"	"	"	"
Cadmium	ND	0.253	"	"	"	"	"	"
Copper	8.61	0.505	"	"	"	"	"	"
Lead	8.30	0.253	"	"	"	"	"	"
Nickel	7.45	0.505	"	"	"	"	"	"
Selenium	ND	0.328	"	"	"	"	"	"
Silver	0.0413	0.0253	"	"	"	"	"	"
Zinc	41.7	0.505	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.2	0.0631	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	13.1	0.0631	"	"	"	"	"	"	
Sodium	28.2	0.0631	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.996	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW07@3'
2105348-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.2		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.376	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/19/21 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.26		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
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Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW07@6'
2105348-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/19/21 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW07@6'
2105348-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		40.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.161	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW07@6'
2105348-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.18	0.258	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	42.8	0.515	"	"	"	"	"	"
Cadmium	ND	0.258	"	"	"	"	"	"
Copper	3.70	0.515	"	"	"	"	"	"
Lead	6.43	0.258	"	"	"	"	"	"
Nickel	4.29	0.515	"	"	"	"	"	"
Selenium	ND	0.335	"	"	"	"	"	"
Silver	ND	0.0258	"	"	"	"	"	"
Zinc	22.4	0.515	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.6	0.0644	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	5.88	0.0644	"	"	"	"	"	"	
Sodium	22.1	0.0644	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.19	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW07@6'
2105348-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.6		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.172	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/19/21 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW08@3'
2105348-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/19/21 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW08@3'
2105348-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.160	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/19/21 12:50**

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

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW08@3'
2105348-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.87	0.264	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	69.1	0.527	"	"	"	"	"	"
Cadmium	ND	0.264	"	"	"	"	"	"
Copper	5.32	0.527	"	"	"	"	"	"
Lead	7.19	0.264	"	"	"	"	"	"
Nickel	6.23	0.527	"	"	"	"	"	"
Selenium	ND	0.343	"	"	"	"	"	"
Silver	0.0378	0.0264	"	"	"	"	"	"
Zinc	34.5	0.527	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.7	0.0659	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	7.32	0.0659	"	"	"	"	"	"	
Sodium	28.3	0.0659	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.36	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW08@3'
2105348-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.8		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.236	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/19/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.51		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW08@6'
2105348-14 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/19/21 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW08@6'
2105348-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		47.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0819	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW08@6'
2105348-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	ND	0.242	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	24.2	0.484	"	"	"	"	"	"
Cadmium	ND	0.242	"	"	"	"	"	"
Copper	3.41	0.484	"	"	"	"	"	"
Lead	4.39	0.242	"	"	"	"	"	"
Nickel	2.70	0.484	"	"	"	"	"	"
Selenium	0.378	0.315	"	"	"	"	"	"
Silver	ND	0.0242	"	"	"	"	"	"
Zinc	16.1	0.484	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.5	0.0605	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	6.50	0.0605	"	"	"	"	"	"	
Sodium	22.7	0.0605	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.12	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW08@6'
2105348-14 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.236	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/19/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

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1801 Broadway, Suite 1500
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Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW09@3'
2105348-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/19/21 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW09@3'
2105348-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		43.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0541	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW09@3'
2105348-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.925	0.232	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	31.1	0.464	"	"	"	"	"	"
Cadmium	ND	0.232	"	"	"	"	"	"
Copper	2.17	0.464	"	"	"	"	"	"
Lead	3.77	0.232	"	"	"	"	"	"
Nickel	3.81	0.464	"	"	"	"	"	"
Selenium	ND	0.301	"	"	"	"	"	"
Silver	ND	0.0232	"	"	"	"	"	"
Zinc	14.3	0.464	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.9	0.0580	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	7.44	0.0580	"	"	"	"	"	"	
Sodium	21.2	0.0580	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.971	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW09@3'
2105348-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BEE0439	05/24/21	05/25/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.240	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/19/21 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

Summit Scientific

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1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW09@6'
2105348-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0421	05/22/21	05/23/21	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: **05/19/21 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		97.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0422	05/22/21	05/23/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
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Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW09@6'
2105348-16 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEF0058	06/02/21	06/06/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		58.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		40.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0370	0.0100	mg/L	1	BEE0429	05/24/21	05/25/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW09@6'
2105348-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.773	0.245	mg/kg dry	1	BEE0433	05/24/21	05/26/21	EPA 6020B
Barium	50.9	0.490	"	"	"	"	"	"
Cadmium	ND	0.245	"	"	"	"	"	"
Copper	3.91	0.490	"	"	"	"	"	"
Lead	3.95	0.245	"	"	"	"	"	"
Nickel	4.26	0.490	"	"	"	"	"	"
Selenium	1.63	0.319	"	"	"	"	"	"
Silver	ND	0.0245	"	"	"	"	"	"
Zinc	22.0	0.490	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEE0473	05/25/21	05/27/21	EPA 7196A	

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

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.6	0.0613	mg/L dry	1	BEE0436	05/24/21	05/26/21	EPA 6020B	
Magnesium	5.79	0.0613	"	"	"	"	"	"	
Sodium	12.4	0.0613	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.668	0.00100	units	1	BEE0537	05/28/21	05/28/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

MW09@6'
2105348-16 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BEE0389	05/21/21	05/21/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.122	0.0100	mmhos/cm	1	BEE0452	05/25/21	05/25/21	EPA 120.1	

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

Date Sampled: **05/19/21 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BEE0451	05/25/21	05/25/21	EPA 9045D	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEE0421 - EPA 5030 Soil MS

Blank (BEE0421-BLK1)

Prepared: 05/22/21 Analyzed: 05/23/21

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.6	21-167			

LCS (BEE0421-BS1)

Prepared: 05/22/21 Analyzed: 05/23/21

Benzene	0.115	0.0020	mg/kg	0.100		115	70-130			
Toluene	0.112	0.0050	"	0.100		112	70-130			
Ethylbenzene	0.112	0.0050	"	0.100		112	70-130			
m,p-Xylene	0.231	0.010	"	0.200		115	70-130			
o-Xylene	0.110	0.0050	"	0.100		110	70-130			
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
Naphthalene	0.109	0.0038	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0448		"	0.0400		112	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.7	21-167			

Matrix Spike (BEE0421-MS1)

Source: 2105331-01

Prepared: 05/22/21 Analyzed: 05/23/21

Benzene	0.121	0.0020	mg/kg	0.100	0.00369	117	70-130			
Toluene	0.118	0.0050	"	0.100	ND	118	70-130			
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
m,p-Xylene	0.210	0.010	"	0.200	0.00369	103	70-130			
o-Xylene	0.0996	0.0050	"	0.100	ND	99.6	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
Naphthalene	0.119	0.0038	"	0.100	0.00795	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0434		"	0.0400		109	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0339		"	0.0400		84.8	21-167			

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEE0421 - EPA 5030 Soil MS

Matrix Spike Dup (BEE0421-MSD1)	Source: 2105331-01			Prepared: 05/22/21 Analyzed: 05/23/21						
Benzene	0.119	0.0020	mg/kg	0.100	0.00369	115	70-130	1.50	30	
Toluene	0.112	0.0050	"	0.100	ND	112	70-130	4.74	30	
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	3.84	30	
m,p-Xylene	0.220	0.010	"	0.200	0.00369	108	70-130	4.82	30	
o-Xylene	0.108	0.0050	"	0.100	ND	108	70-130	7.76	30	
1,2,4-Trimethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	11.1	30	
1,3,5-Trimethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	8.26	30	
Naphthalene	0.116	0.0038	"	0.100	0.00795	108	70-130	2.83	30	
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	21-167			

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEE0422 - EPA 3550A

Blank (BEE0422-BLK1)

Prepared & Analyzed: 05/22/21

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BEE0422-BS1)

Prepared & Analyzed: 05/22/21

C10-C28 (DRO)	543	50	mg/kg	500	109	70-130
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Matrix Spike (BEE0422-MS1)

Source: 2105331-01

Prepared & Analyzed: 05/22/21

C10-C28 (DRO)	1920	50	mg/kg	500	1120	159	70-130			QM-07
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Matrix Spike Dup (BEE0422-MSD1)

Source: 2105331-01

Prepared: 05/22/21 Analyzed: 05/23/21

C10-C28 (DRO)	1960	50	mg/kg	500	1120	168	70-130	2.10	20	QM-07
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEF0058 - EPA 5030 Soil MS

Blank (BEF0058-BLK1)

Prepared: 06/02/21 Analyzed: 06/06/21

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0188		"	0.0333		56.4	40-150			
Surrogate: Fluoranthene-d10	0.0196		"	0.0333		58.9	40-150			

LCS (BEF0058-BS1)

Prepared: 06/02/21 Analyzed: 06/06/21

Acenaphthene	0.0304	0.00500	mg/kg	0.0333	91.1	31-137
Anthracene	0.0304	0.00500	"	0.0333	91.3	30-120
Benzo (a) anthracene	0.0302	0.00500	"	0.0333	90.6	30-120
Benzo (a) pyrene	0.0297	0.00500	"	0.0333	89.0	30-120
Benzo (b) fluoranthene	0.0307	0.00500	"	0.0333	92.0	30-120
Benzo (k) fluoranthene	0.0307	0.00500	"	0.0333	92.0	30-120
Chrysene	0.0304	0.00500	"	0.0333	91.2	30-120
Dibenz (a,h) anthracene	0.0288	0.00500	"	0.0333	86.4	30-120
Fluoranthene	0.0376	0.00500	"	0.0333	113	30-120
Fluorene	0.0296	0.00500	"	0.0333	88.9	30-120
Indeno (1,2,3-cd) pyrene	0.0285	0.00500	"	0.0333	85.4	30-120
Pyrene	0.0323	0.00500	"	0.0333	97.0	35-142
1-Methylnaphthalene	0.0283	0.00500	"	0.0333	84.8	35-142
2-Methylnaphthalene	0.0316	0.00500	"	0.0333	94.7	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0179		"	0.0333	53.6	40-150
Surrogate: Fluoranthene-d10	0.0141		"	0.0333	42.2	40-150

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEF0058 - EPA 5030 Soil MS

Matrix Spike (BEF0058-MS1)

Source: 2105335-01

Prepared: 06/02/21 Analyzed: 06/06/21

Acenaphthene	0.0319	0.00500	mg/kg	0.0333	ND	95.7	31-137		
Anthracene	0.0318	0.00500	"	0.0333	ND	95.3	30-120		
Benzo (a) anthracene	0.0324	0.00500	"	0.0333	ND	97.1	30-120		
Benzo (a) pyrene	0.0317	0.00500	"	0.0333	ND	95.1	30-120		
Benzo (b) fluoranthene	0.0313	0.00500	"	0.0333	ND	93.9	30-120		
Benzo (k) fluoranthene	0.0311	0.00500	"	0.0333	ND	93.3	30-120		
Chrysene	0.0320	0.00500	"	0.0333	ND	95.9	30-120		
Dibenz (a,h) anthracene	0.0305	0.00500	"	0.0333	ND	91.6	30-120		
Fluoranthene	0.0203	0.00500	"	0.0333	ND	61.0	30-120		
Fluorene	0.0317	0.00500	"	0.0333	ND	95.2	30-120		
Indeno (1,2,3-cd) pyrene	0.0306	0.00500	"	0.0333	ND	91.8	30-120		
Pyrene	0.0333	0.00500	"	0.0333	ND	100	35-142		
1-Methylnaphthalene	0.0306	0.00500	"	0.0333	ND	91.8	15-130		
2-Methylnaphthalene	0.0338	0.00500	"	0.0333	ND	102	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0164		"	0.0333		49.1	40-150		
Surrogate: Fluoranthene-d10	0.0159		"	0.0333		47.8	40-150		

Matrix Spike Dup (BEF0058-MSD1)

Source: 2105335-01

Prepared: 06/02/21 Analyzed: 06/06/21

Acenaphthene	0.0316	0.00500	mg/kg	0.0333	ND	94.7	31-137	0.981	30
Anthracene	0.0320	0.00500	"	0.0333	ND	96.0	30-120	0.799	30
Benzo (a) anthracene	0.0329	0.00500	"	0.0333	ND	98.6	30-120	1.56	30
Benzo (a) pyrene	0.0316	0.00500	"	0.0333	ND	94.7	30-120	0.336	30
Benzo (b) fluoranthene	0.0318	0.00500	"	0.0333	ND	95.3	30-120	1.41	30
Benzo (k) fluoranthene	0.0316	0.00500	"	0.0333	ND	94.8	30-120	1.62	30
Chrysene	0.0326	0.00500	"	0.0333	ND	97.7	30-120	1.85	30
Dibenz (a,h) anthracene	0.0300	0.00500	"	0.0333	ND	89.9	30-120	1.93	30
Fluoranthene	0.0274	0.00500	"	0.0333	ND	82.3	30-120	29.7	30
Fluorene	0.0318	0.00500	"	0.0333	ND	95.4	30-120	0.213	30
Indeno (1,2,3-cd) pyrene	0.0301	0.00500	"	0.0333	ND	90.4	30-120	1.61	30
Pyrene	0.0348	0.00500	"	0.0333	ND	104	35-142	4.36	30
1-Methylnaphthalene	0.0325	0.00500	"	0.0333	ND	97.4	15-130	5.89	50
2-Methylnaphthalene	0.0322	0.00500	"	0.0333	ND	96.6	15-130	4.95	50
Surrogate: 2-Methylnaphthalene-d10	0.0167		"	0.0333		50.2	40-150		
Surrogate: Fluoranthene-d10	0.0158		"	0.0333		47.4	40-150		

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

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

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

Batch BEE0429 - EPA 3050B

Blank (BEE0429-BLK1)

Prepared: 05/24/21 Analyzed: 05/25/21

Boron ND 0.0100 mg/L

LCS (BEE0429-BS1)

Prepared: 05/24/21 Analyzed: 05/25/21

Boron 5.86 0.0100 mg/L 5.00 117 80-120

Duplicate (BEE0429-DUP1)

Source: 2105337-02

Prepared: 05/24/21 Analyzed: 05/25/21

Boron 0.434 0.0100 mg/L 0.419 3.46 20

Matrix Spike (BEE0429-MS1)

Source: 2105337-02

Prepared: 05/24/21 Analyzed: 05/25/21

Boron 5.41 0.0100 mg/L 5.00 0.419 99.8 75-125

Matrix Spike Dup (BEE0429-MSD1)

Source: 2105337-02

Prepared: 05/24/21 Analyzed: 05/25/21

Boron 5.37 0.0100 mg/L 5.00 0.419 98.9 75-125 0.843 25

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BEE0433 - EPA 3050B

Blank (BEE0433-BLK1)

Prepared: 05/24/21 Analyzed: 05/25/21

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BEE0433-BS1)

Prepared: 05/24/21 Analyzed: 05/25/21

Arsenic	34.6	0.200	mg/kg wet	40.0	86.5	80-120
Barium	33.0	0.400	"	40.0	82.4	80-120
Cadmium	1.84	0.200	"	2.00	92.0	80-120
Copper	33.5	0.400	"	40.0	83.7	80-120
Lead	19.2	0.200	"	20.0	95.9	80-120
Nickel	33.9	0.400	"	40.0	84.8	80-120
Selenium	3.86	0.260	"	4.00	96.5	80-120
Silver	1.85	0.0200	"	2.00	92.6	80-120
Zinc	34.7	0.400	"	40.0	86.7	80-120

Duplicate (BEE0433-DUP1)

Source: 2105348-01

Prepared: 05/24/21 Analyzed: 05/25/21

Arsenic	1.05	0.249	mg/kg dry	1.04	1.02	20
Barium	99.9	0.497	"	98.6	1.29	20
Cadmium	0.210	0.249	"	0.205	2.33	20
Copper	12.9	0.497	"	11.7	9.18	20
Lead	6.87	0.249	"	6.93	0.860	20
Nickel	12.7	0.497	"	12.0	5.64	20
Selenium	0.387	0.323	"	0.386	0.320	20
Silver	0.0392	0.0249	"	0.0403	2.64	20
Zinc	57.6	0.497	"	55.0	4.65	20

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEE0433 - EPA 3050B

Matrix Spike (BEE0433-MS1)		Source: 2105348-01			Prepared: 05/24/21		Analyzed: 05/26/21	
Arsenic	42.1	0.249	mg/kg dry	49.7	1.04	82.6	75-125	
Barium	147	0.497	"	49.7	98.6	97.5	75-125	
Cadmium	2.21	0.249	"	2.49	0.205	80.6	75-125	
Copper	52.5	0.497	"	49.7	11.7	81.9	75-125	
Lead	26.0	0.249	"	24.9	6.93	76.7	75-125	
Nickel	55.1	0.497	"	49.7	12.0	86.7	75-125	
Selenium	4.60	0.323	"	4.97	0.386	84.8	75-125	
Silver	2.11	0.0249	"	2.49	0.0403	83.1	75-125	
Zinc	94.7	0.497	"	49.7	55.0	79.9	75-125	

Matrix Spike Dup (BEE0433-MSD1)		Source: 2105348-01			Prepared: 05/24/21		Analyzed: 05/26/21	
Arsenic	43.9	0.249	mg/kg dry	49.7	1.04	86.2	75-125	4.10 25
Barium	139	0.497	"	49.7	98.6	80.8	75-125	5.82 25
Cadmium	2.27	0.249	"	2.49	0.205	83.1	75-125	2.76 25
Copper	53.8	0.497	"	49.7	11.7	84.5	75-125	2.43 25
Lead	25.9	0.249	"	24.9	6.93	76.4	75-125	0.345 25
Nickel	54.8	0.497	"	49.7	12.0	86.1	75-125	0.544 25
Selenium	4.63	0.323	"	4.97	0.386	85.4	75-125	0.641 25
Silver	2.11	0.0249	"	2.49	0.0403	83.3	75-125	0.230 25
Zinc	97.1	0.497	"	49.7	55.0	84.6	75-125	2.45 25

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEE0473 - 3060A Mod

Blank (BEE0473-BLK1)

Prepared: 05/25/21 Analyzed: 05/27/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEE0473-BS1)

Prepared: 05/25/21 Analyzed: 05/27/21

Chromium, Hexavalent 22.8 0.30 mg/kg wet 25.0 91.0 80-120

Duplicate (BEE0473-DUP1)

Source: 2105348-01

Prepared: 05/25/21 Analyzed: 05/27/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEE0473-MS1)

Source: 2105348-01

Prepared: 05/25/21 Analyzed: 05/27/21

Chromium, Hexavalent 27.7 0.30 mg/kg dry 31.1 ND 89.0 75-125

Matrix Spike Dup (BEE0473-MSD1)

Source: 2105348-01

Prepared: 05/25/21 Analyzed: 05/27/21

Chromium, Hexavalent 27.7 0.30 mg/kg dry 31.1 ND 89.0 75-125 0.00 20

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

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

Summit Scientific

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

Batch BEE0436 - General Preparation

Blank (BEE0436-BLK1)

Prepared: 05/24/21 Analyzed: 05/26/21

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

LCS (BEE0436-BS1)

Prepared: 05/24/21 Analyzed: 05/26/21

Calcium	4.95	0.0500	mg/L wet	5.00	99.1	70-130
Magnesium	5.25	0.0500	"	5.00	105	70-130
Sodium	4.92	0.0500	"	5.00	98.3	70-130

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

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

Summit Scientific

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

Batch BEE0389 - General Preparation

Duplicate (BEE0389-DUP1) **Source: 2105307-02** Prepared & Analyzed: 05/21/21

% Solids	83.4	%		83.7		0.349	20
----------	------	---	--	------	--	-------	----

Batch BEE0439 - General Preparation

Duplicate (BEE0439-DUP1) **Source: 2105348-01** Prepared: 05/24/21 Analyzed: 05/25/21

% Solids	77.3	%		80.4		4.02	20
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Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

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

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

Batch BEE0452 - General Preparation

Blank (BEE0452-BLK1)

Prepared & Analyzed: 05/25/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEE0452-BS1)

Prepared & Analyzed: 05/25/21

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 90-110

Duplicate (BEE0452-DUP1)

Source: 2105335-01

Prepared & Analyzed: 05/25/21

Specific Conductance (EC) 1.41 0.0100 mmhos/cm 1.42 0.635 20

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

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

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

Batch BEE0451 - General Preparation

LCS (BEE0451-BS1)

Prepared & Analyzed: 05/25/21

pH	9.17	pH Units	9.21	99.6	95-105
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Duplicate (BEE0451-DUP1)

Source: 2105335-01

Prepared & Analyzed: 05/25/21

pH	8.16	pH Units	8.16	0.00	20
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Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/08/21 16:16

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 03, 2021

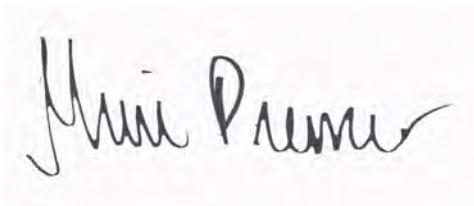
Alyssa Beard
Foundation Energy
1801 Broadway, Suite 1500
Denver, CO 80202

RE: Allard 30-8-5

Work Order #2105389

Enclosed are the results of analyses for samples received by Summit Scientific on 05/25/21 14:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premer". The signature is written in a cursive, flowing style. The first name "Muri" is written with a large, stylized 'M' and 'u'. The last name "Premer" is written with a large 'P' and a trailing flourish.

Muri Premer For Paul Shrewsbury
President



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]

Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WJA-N@4.5'	2105389-01	Soil	05/25/21 09:17	05/25/21 14:02
WJA-S@4.5'	2105389-02	Soil	05/25/21 09:29	05/25/21 14:02
WJA-W@4.5'	2105389-03	Soil	05/25/21 09:47	05/25/21 14:02
WJA-E@4.5'	2105389-04	Soil	05/25/21 09:58	05/25/21 14:02

Summit Scientific

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2105389

Summit Scientific



4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 1

Client: Foundation Energy / Tatum

Project Manager: Alyssa Brand / Jeb Watts

Address: 6855 W. 119th Ave

E-Mail: abrand@foundationenergy.com; jwatts@tatum-gas.com

City/State/Zip: Broomfield, CO 80020

Vscruggs@tatum-gas.com

Phone: 303-487-1228

Project Name: Allard 3D-8-5

Sampler Name: Vscrggs

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Table 915-1					
1	WJA-N @ 4.5'	5/25/11	0917	4			X			X			X					
2	WJA-S @ 4.5'		0929	4			X			X			X					
3	WJA-W @ 4.5'		0947	4			X			X			X					
4	WJA-E @ 4.5'		0958	4			X			X			X					
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished by:	Date/Time: 5/25/11 1402	Received by:	Date/Time: 05/25/2011 1409	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 8.2 Samples Intact: <input checked="" type="checkbox"/> Yes No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order

2405389

Client:

Foundation / Tanager

Client Project ID:

Allard

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

Airbill #:

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply):

☐ Air

☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Temp (°C)

8.2

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ice
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? 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):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name or Initials

Signature of Custodian

Date/Time

05/25/2001



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-N@4.5'
2105389-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEE0474	05/25/21	05/25/21	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: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		126 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0475	05/25/21	05/25/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-N@4.5'
2105389-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEE0485	05/26/21	06/02/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		50.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0815	0.0100	mg/L	1	BEE0548	05/28/21	05/31/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/21 09:17**

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

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-N@4.5'
2105389-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.560	0.227	mg/kg dry	1	BEE0493	05/26/21	05/27/21	EPA 6020B
Barium	93.2	0.454	"	"	"	"	"	"
Cadmium	ND	0.227	"	"	"	"	"	"
Copper	14.2	0.454	"	"	"	"	"	"
Lead	6.22	0.227	"	"	"	"	"	"
Nickel	12.0	0.454	"	"	"	"	"	"
Selenium	0.658	0.295	"	"	"	"	"	"
Silver	0.0277	0.0227	"	"	"	"	"	"
Zinc	48.5	0.454	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEF0014	06/01/21	06/03/21	EPA 7196A	

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

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.5	0.0567	mg/L dry	1	BEE0521	05/27/21	05/29/21	EPA 6020B	
Magnesium	13.9	0.0567	"	"	"	"	"	"	
Sodium	18.0	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.654	0.00100	units	1	BEF0011	06/01/21	06/01/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/21 09:17**

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

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-N@4.5'
2105389-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.1	%	1	BEE0479	05/26/21	05/26/21	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.331	0.0100	mmhos/cm	1	BEE0542	05/28/21	05/28/21	EPA 120.1	

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

Date Sampled: **05/25/21 09:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BEE0541	05/28/21	05/28/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-S@4.5'
2105389-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0474	05/25/21	05/25/21	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: **05/25/21 09:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0475	05/25/21	05/25/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-S@4.5'
2105389-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEE0485	05/26/21	06/02/21	EPA 8270D SIM	
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	0.00697	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.258	0.0100	mg/L	1	BEE0548	05/28/21	05/31/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-S@4.5'
2105389-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.68	0.238	mg/kg dry	1	BEE0493	05/26/21	05/27/21	EPA 6020B
Barium	117	0.476	"	"	"	"	"	"
Cadmium	ND	0.238	"	"	"	"	"	"
Copper	11.1	0.476	"	"	"	"	"	"
Lead	8.89	0.238	"	"	"	"	"	"
Nickel	10.8	0.476	"	"	"	"	"	"
Selenium	0.701	0.309	"	"	"	"	"	"
Silver	0.0656	0.0238	"	"	"	"	"	"
Zinc	56.9	0.476	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEF0014	06/01/21	06/03/21	EPA 7196A	

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

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.2	0.0595	mg/L dry	1	BEE0521	05/27/21	05/29/21	EPA 6020B	
Magnesium	18.4	0.0595	"	"	"	"	"	"	
Sodium	100	0.0595	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.99	0.00100	units	1	BEF0011	06/01/21	06/01/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/21 09:29**

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

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-S@4.5'
2105389-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.1	%	1	BEE0479	05/26/21	05/26/21	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.694	0.0100	mmhos/cm	1	BEE0542	05/28/21	05/28/21	EPA 120.1	

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

Date Sampled: **05/25/21 09:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BEE0541	05/28/21	05/28/21	EPA 9045D	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-W@4.5'
2105389-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEE0474	05/25/21	05/26/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.012	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.0065	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.82	0.50	"	"	"	"	"	"	

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0475	05/25/21	05/25/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-W@4.5'
2105389-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEE0485	05/26/21	06/02/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		43.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		44.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0888	0.0100	mg/L	1	BEE0548	05/28/21	05/31/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-W@4.5'
2105389-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.03	0.253	mg/kg dry	1	BEE0493	05/26/21	05/27/21	EPA 6020B
Barium	173	0.506	"	"	"	"	"	"
Cadmium	ND	0.253	"	"	"	"	"	"
Copper	15.8	0.506	"	"	"	"	"	"
Lead	12.8	0.253	"	"	"	"	"	"
Nickel	15.5	0.506	"	"	"	"	"	"
Selenium	0.979	0.329	"	"	"	"	"	"
Silver	0.104	0.0253	"	"	"	"	"	"
Zinc	81.6	0.506	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEF0014	06/01/21	06/03/21	EPA 7196A	

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

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.4	0.0633	mg/L dry	1	BEE0521	05/27/21	05/29/21	EPA 6020B	
Magnesium	3.75	0.0633	"	"	"	"	"	"	
Sodium	14.2	0.0633	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.933	0.00100	units	1	BEF0011	06/01/21	06/01/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-W@4.5'
2105389-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.0	%	1	BEE0479	05/26/21	05/26/21	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.121	0.0100	mmhos/cm	1	BEE0542	05/28/21	05/28/21	EPA 120.1	

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

Date Sampled: **05/25/21 09:47**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.39		pH Units	1	BEE0541	05/28/21	05/28/21	EPA 9045D	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-E@4.5'
2105389-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEE0474	05/25/21	05/26/21	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: **05/25/21 09:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEE0475	05/25/21	05/25/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		117 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-E@4.5'
2105389-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEE0485	05/26/21	06/02/21	EPA 8270D SIM	
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	0.0147	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	0.00646	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.182	0.0100	mg/L	1	BEE0548	05/28/21	05/31/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/25/21 09:58**

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

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-E@4.5'
2105389-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.83	0.251	mg/kg dry	1	BEE0493	05/26/21	05/27/21	EPA 6020B
Barium	170	0.503	"	"	"	"	"	"
Cadmium	ND	0.251	"	"	"	"	"	"
Copper	13.8	0.503	"	"	"	"	"	"
Lead	11.1	0.251	"	"	"	"	"	"
Nickel	11.9	0.503	"	"	"	"	"	"
Selenium	1.18	0.327	"	"	"	"	"	"
Silver	0.0822	0.0251	"	"	"	"	"	"
Zinc	71.9	0.503	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEF0014	06/01/21	06/03/21	EPA 7196A	

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

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.5	0.0628	mg/L dry	1	BEE0521	05/27/21	05/29/21	EPA 6020B	
Magnesium	5.05	0.0628	"	"	"	"	"	"	
Sodium	13.8	0.0628	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.763	0.00100	units	1	BEF0011	06/01/21	06/01/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/25/21 09:58**

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

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

WJA-E@4.5'
2105389-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.6	%	1	BEE0479	05/26/21	05/26/21	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.149	0.0100	mmhos/cm	1	BEE0542	05/28/21	05/28/21	EPA 120.1	

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

Date Sampled: **05/25/21 09:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.30		pH Units	1	BEE0541	05/28/21	05/28/21	EPA 9045D	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEE0474 - EPA 5030 Soil MS

Blank (BEE0474-BLK1)

Prepared: 05/25/21 Analyzed: 05/26/21

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0281		"	0.0400		70.2	23-173			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0373		"	0.0400		93.2	21-167			

LCS (BEE0474-BS1)

Prepared: 05/25/21 Analyzed: 05/26/21

Benzene	0.136	0.0020	mg/kg	0.150		90.8	70-130			
Toluene	0.139	0.0050	"	0.150		92.4	70-130			
Ethylbenzene	0.114	0.0050	"	0.150		75.8	70-130			
m,p-Xylene	0.232	0.010	"	0.300		77.2	70-130			
o-Xylene	0.120	0.0050	"	0.150		80.1	70-130			
1,2,4-Trimethylbenzene	0.151	0.0050	"	0.150		101	70-130			
1,3,5-Trimethylbenzene	0.148	0.0050	"	0.150		98.9	70-130			
Naphthalene	0.126	0.0038	"	0.150		83.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0283		"	0.0400		70.8	23-173			
Surrogate: Toluene-d8	0.0369		"	0.0400		92.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0373		"	0.0400		93.3	21-167			

Matrix Spike (BEE0474-MS1)

Source: 2105391-01

Prepared: 05/25/21 Analyzed: 05/26/21

Benzene	0.120	0.0020	mg/kg	0.150	0.00744	74.8	70-130			
Toluene	0.121	0.0050	"	0.150	0.00402	77.8	70-130			
Ethylbenzene	0.133	0.0050	"	0.150	ND	88.5	70-130			
m,p-Xylene	0.217	0.010	"	0.300	0.00315	71.4	70-130			
o-Xylene	0.110	0.0050	"	0.150	ND	73.1	70-130			
1,2,4-Trimethylbenzene	0.146	0.0050	"	0.150	ND	97.4	70-130			
1,3,5-Trimethylbenzene	0.144	0.0050	"	0.150	ND	96.2	70-130			
Naphthalene	0.144	0.0038	"	0.150	0.0134	87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0286		"	0.0400		71.6	23-173			
Surrogate: Toluene-d8	0.0360		"	0.0400		90.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	21-167			

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEE0474 - EPA 5030 Soil MS

Matrix Spike Dup (BEE0474-MSD1)		Source: 2105391-01			Prepared: 05/25/21 Analyzed: 05/26/21					
Benzene	0.132	0.0020	mg/kg	0.150	0.00744	83.2	70-130	10.0	30	
Toluene	0.125	0.0050	"	0.150	0.00402	80.6	70-130	3.39	30	
Ethylbenzene	0.132	0.0050	"	0.150	ND	87.8	70-130	0.772	30	
m,p-Xylene	0.222	0.010	"	0.300	0.00315	73.0	70-130	2.14	30	
o-Xylene	0.114	0.0050	"	0.150	ND	76.3	70-130	4.18	30	
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.150	ND	98.3	70-130	0.919	30	
1,3,5-Trimethylbenzene	0.140	0.0050	"	0.150	ND	93.3	70-130	3.04	30	
Naphthalene	0.127	0.0038	"	0.150	0.0134	75.9	70-130	12.3	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0310		"	0.0400		77.4	23-173			
Surrogate: Toluene-d8	0.0368		"	0.0400		91.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	21-167			

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1801 Broadway, Suite 1500
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Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEE0475 - EPA 3550A

Blank (BEE0475-BLK1)

Prepared: 05/25/21 Analyzed: 05/26/21

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BEE0475-BS1)

Prepared: 05/25/21 Analyzed: 05/26/21

C10-C28 (DRO)	601	50	mg/kg	500	120	70-130
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Matrix Spike (BEE0475-MS1)

Source: 2105391-01

Prepared: 05/25/21 Analyzed: 05/26/21

C10-C28 (DRO)	438	50	mg/kg	500	17.3	84.2	70-130
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Matrix Spike Dup (BEE0475-MSD1)

Source: 2105391-01

Prepared: 05/25/21 Analyzed: 05/26/21

C10-C28 (DRO)	450	50	mg/kg	500	17.3	86.5	70-130	2.59	20
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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEE0485 - EPA 5030 Soil MS

Blank (BEE0485-BLK1)

Prepared: 05/26/21 Analyzed: 06/01/21

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0222		"	0.0333		66.6	40-150			
Surrogate: Fluoranthene-d10	0.0220		"	0.0333		66.1	40-150			

LCS (BEE0485-BS1)

Prepared: 05/26/21 Analyzed: 06/02/21

Acenaphthene	0.0275	0.00500	mg/kg	0.0333		82.4	31-137			
Anthracene	0.0268	0.00500	"	0.0333		80.3	30-120			
Benzo (a) anthracene	0.0250	0.00500	"	0.0333		75.0	30-120			
Benzo (a) pyrene	0.0254	0.00500	"	0.0333		76.1	30-120			
Benzo (b) fluoranthene	0.0294	0.00500	"	0.0333		88.3	30-120			
Benzo (k) fluoranthene	0.0293	0.00500	"	0.0333		87.8	30-120			
Chrysene	0.0251	0.00500	"	0.0333		75.4	30-120			
Dibenz (a,h) anthracene	0.0219	0.00500	"	0.0333		65.8	30-120			
Fluoranthene	0.0263	0.00500	"	0.0333		78.8	30-120			
Fluorene	0.0278	0.00500	"	0.0333		83.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0252	0.00500	"	0.0333		75.5	30-120			
Pyrene	0.0257	0.00500	"	0.0333		77.1	35-142			
1-Methylnaphthalene	0.0282	0.00500	"	0.0333		84.7	35-142			
2-Methylnaphthalene	0.0258	0.00500	"	0.0333		77.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0249		"	0.0333		74.8	40-150			
Surrogate: Fluoranthene-d10	0.0249		"	0.0333		74.8	40-150			

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEE0485 - EPA 5030 Soil MS

Matrix Spike (BEE0485-MS1)

Source: 2105370-01

Prepared: 05/26/21 Analyzed: 06/02/21

Acenaphthene	0.0261	0.00500	mg/kg	0.0333	ND	78.2	31-137		
Anthracene	0.0263	0.00500	"	0.0333	ND	78.8	30-120		
Benzo (a) anthracene	0.0248	0.00500	"	0.0333	ND	74.5	30-120		
Benzo (a) pyrene	0.0248	0.00500	"	0.0333	ND	74.5	30-120		
Benzo (b) fluoranthene	0.0282	0.00500	"	0.0333	ND	84.6	30-120		
Benzo (k) fluoranthene	0.0277	0.00500	"	0.0333	ND	83.0	30-120		
Chrysene	0.0250	0.00500	"	0.0333	ND	75.0	30-120		
Dibenz (a,h) anthracene	0.0282	0.00500	"	0.0333	ND	84.7	30-120		
Fluoranthene	0.0258	0.00500	"	0.0333	ND	77.3	30-120		
Fluorene	0.0268	0.00500	"	0.0333	ND	80.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0217	0.00500	"	0.0333	ND	65.2	30-120		
Pyrene	0.0249	0.00500	"	0.0333	ND	74.7	35-142		
1-Methylnaphthalene	0.0277	0.00500	"	0.0333	ND	83.0	15-130		
2-Methylnaphthalene	0.0260	0.00500	"	0.0333	ND	77.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0241		"	0.0333		72.3	40-150		
Surrogate: Fluoranthene-d10	0.0243		"	0.0333		72.8	40-150		

Matrix Spike Dup (BEE0485-MSD1)

Source: 2105370-01

Prepared: 05/26/21 Analyzed: 06/02/21

Acenaphthene	0.0285	0.00500	mg/kg	0.0333	ND	85.4	31-137	8.78	30
Anthracene	0.0288	0.00500	"	0.0333	ND	86.5	30-120	9.29	30
Benzo (a) anthracene	0.0290	0.00500	"	0.0333	ND	87.1	30-120	15.6	30
Benzo (a) pyrene	0.0291	0.00500	"	0.0333	ND	87.2	30-120	15.8	30
Benzo (b) fluoranthene	0.0328	0.00500	"	0.0333	ND	98.5	30-120	15.2	30
Benzo (k) fluoranthene	0.0319	0.00500	"	0.0333	ND	95.6	30-120	14.1	30
Chrysene	0.0285	0.00500	"	0.0333	ND	85.5	30-120	13.1	30
Dibenz (a,h) anthracene	0.0223	0.00500	"	0.0333	ND	66.9	30-120	23.5	30
Fluoranthene	0.0284	0.00500	"	0.0333	ND	85.1	30-120	9.65	30
Fluorene	0.0295	0.00500	"	0.0333	ND	88.5	30-120	9.55	30
Indeno (1,2,3-cd) pyrene	0.0254	0.00500	"	0.0333	ND	76.3	30-120	15.7	30
Pyrene	0.0284	0.00500	"	0.0333	ND	85.1	35-142	12.9	30
1-Methylnaphthalene	0.0304	0.00500	"	0.0333	ND	91.2	15-130	9.38	50
2-Methylnaphthalene	0.0292	0.00500	"	0.0333	ND	87.5	15-130	11.5	50
Surrogate: 2-Methylnaphthalene-d10	0.0272		"	0.0333		81.7	40-150		
Surrogate: Fluoranthene-d10	0.0271		"	0.0333		81.3	40-150		

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

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

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

Batch BEE0548 - EPA 3050B

Blank (BEE0548-BLK1)

Prepared: 05/28/21 Analyzed: 05/31/21

Boron ND 0.0100 mg/L

LCS (BEE0548-BS1)

Prepared: 05/28/21 Analyzed: 05/31/21

Boron 5.71 0.0100 mg/L 5.00 114 80-120

Duplicate (BEE0548-DUP1)

Source: 2105384-04

Prepared: 05/28/21 Analyzed: 05/31/21

Boron 0.170 0.0100 mg/L 0.156 8.85 20

Matrix Spike (BEE0548-MS1)

Source: 2105384-04

Prepared: 05/28/21 Analyzed: 05/31/21

Boron 5.86 0.0100 mg/L 5.00 0.156 114 75-125

Matrix Spike Dup (BEE0548-MSD1)

Source: 2105384-04

Prepared: 05/28/21 Analyzed: 05/31/21

Boron 6.02 0.0100 mg/L 5.00 0.156 117 75-125 2.73 25

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEE0493 - EPA 3050B

Blank (BEE0493-BLK1)

Prepared: 05/26/21 Analyzed: 05/27/21

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BEE0493-BS1)

Prepared: 05/26/21 Analyzed: 05/27/21

Arsenic	38.8	0.200	mg/kg wet	40.0	97.1	80-120
Barium	36.2	0.400	"	40.0	90.5	80-120
Cadmium	1.89	0.200	"	2.00	94.6	80-120
Copper	38.2	0.400	"	40.0	95.4	80-120
Lead	18.7	0.200	"	20.0	93.6	80-120
Nickel	38.6	0.400	"	40.0	96.5	80-120
Selenium	3.98	0.260	"	4.00	99.4	80-120
Silver	1.89	0.0200	"	2.00	94.5	80-120
Zinc	38.1	0.400	"	40.0	95.3	80-120

Duplicate (BEE0493-DUP1)

Source: 2105198-07

Prepared: 05/26/21 Analyzed: 05/27/21

Arsenic	1.24	0.265	mg/kg dry	1.15	7.76	20
Barium	93.2	0.530	"	97.5	4.56	20
Cadmium	0.192	0.265	"	0.184	4.02	20
Copper	11.0	0.530	"	10.6	3.67	20
Lead	9.28	0.265	"	8.47	9.16	20
Nickel	8.10	0.530	"	7.81	3.73	20
Selenium	0.538	0.345	"	0.587	8.71	20
Silver	0.0370	0.0265	"	0.0377	1.86	20
Zinc	38.5	0.530	"	37.1	3.69	20

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEE0493 - EPA 3050B

Matrix Spike (BEE0493-MS1)

Source: 2105198-07

Prepared: 05/26/21 Analyzed: 05/27/21

Arsenic	46.5	0.265	mg/kg dry	53.0	1.15	85.5	75-125
Barium	147	0.530	"	53.0	97.5	92.5	75-125
Cadmium	2.66	0.265	"	2.65	0.184	93.4	75-125
Copper	57.5	0.530	"	53.0	10.6	88.4	75-125
Lead	32.2	0.265	"	26.5	8.47	89.6	75-125
Nickel	54.4	0.530	"	53.0	7.81	87.9	75-125
Selenium	5.12	0.345	"	5.30	0.587	85.4	75-125
Silver	2.44	0.0265	"	2.65	0.0377	90.7	75-125
Zinc	86.5	0.530	"	53.0	37.1	93.1	75-125

Matrix Spike Dup (BEE0493-MSD1)

Source: 2105198-07

Prepared: 05/26/21 Analyzed: 05/27/21

Arsenic	49.3	0.265	mg/kg dry	53.0	1.15	90.9	75-125	6.02	25
Barium	148	0.530	"	53.0	97.5	94.9	75-125	0.863	25
Cadmium	2.70	0.265	"	2.65	0.184	94.8	75-125	1.38	25
Copper	59.1	0.530	"	53.0	10.6	91.5	75-125	2.84	25
Lead	32.7	0.265	"	26.5	8.47	91.5	75-125	1.59	25
Nickel	56.7	0.530	"	53.0	7.81	92.2	75-125	4.06	25
Selenium	5.48	0.345	"	5.30	0.587	92.2	75-125	6.79	25
Silver	2.53	0.0265	"	2.65	0.0377	94.1	75-125	3.67	25
Zinc	91.7	0.530	"	53.0	37.1	103	75-125	5.83	25

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEF0014 - 3060A Mod

Blank (BEF0014-BLK1)

Prepared: 06/01/21 Analyzed: 06/03/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEF0014-BS1)

Prepared: 06/01/21 Analyzed: 06/03/21

Chromium, Hexavalent 24.9 0.30 mg/kg wet 25.0 99.6 80-120

Duplicate (BEF0014-DUP1)

Source: 2105284-09

Prepared: 06/01/21 Analyzed: 06/03/21

Chromium, Hexavalent ND 0.30 mg/kg wet ND 20

Matrix Spike (BEF0014-MS1)

Source: 2105284-09

Prepared: 06/01/21 Analyzed: 06/03/21

Chromium, Hexavalent 24.2 0.30 mg/kg wet 25.0 ND 96.8 75-125

Matrix Spike Dup (BEF0014-MSD1)

Source: 2105284-09

Prepared: 06/01/21 Analyzed: 06/03/21

Chromium, Hexavalent 24.2 0.30 mg/kg wet 25.0 ND 96.8 75-125 0.00 20

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

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

Summit Scientific

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

Batch BEE0521 - General Preparation

Blank (BEE0521-BLK1)

Prepared: 05/27/21 Analyzed: 05/29/21

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

LCS (BEE0521-BS1)

Prepared: 05/27/21 Analyzed: 05/29/21

Calcium	5.23	0.0500	mg/L wet	5.00	105	70-130
Magnesium	5.48	0.0500	"	5.00	110	70-130
Sodium	5.01	0.0500	"	5.00	100	70-130

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

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

Summit Scientific

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

Batch BEE0479 - General Preparation

Duplicate (BEE0479-DUP1)

Source: 2105198-07

Prepared & Analyzed: 05/26/21

% Solids	75.6	%	75.5	0.131	20
----------	------	---	------	-------	----

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

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

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

Batch BEE0542 - General Preparation

Blank (BEE0542-BLK1)

Prepared & Analyzed: 05/28/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEE0542-BS1)

Prepared & Analyzed: 05/28/21

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 99.9 90-110

Duplicate (BEE0542-DUP2)

Source: 2105387-01

Prepared & Analyzed: 05/28/21

Specific Conductance (EC) 2.60 0.0100 mmhos/cm 2.62 0.652 20

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]

Project Manager: Alyssa Beard

Reported:

06/03/21 10:53

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

Summit Scientific

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

Batch BEE0541 - General Preparation

LCS (BEE0541-BS1)

Prepared & Analyzed: 05/28/21

pH	9.25	pH Units	9.21	100	95-105
----	------	----------	------	-----	--------

Duplicate (BEE0541-DUP2)

Source: 2105387-01

Prepared & Analyzed: 05/28/21

pH	7.97	pH Units	7.96	0.126	20
----	------	----------	------	-------	----

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/03/21 10:53

Notes and Definitions

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

June 10, 2021

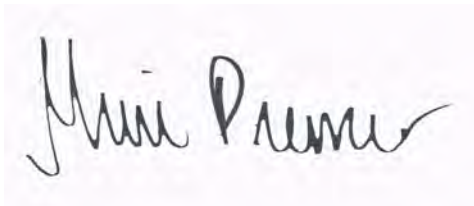
Alyssa Beard
Foundation Energy
1801 Broadway, Suite 1500
Denver, CO 80202

RE: Allard 30-8-5

Work Order #2105419

Enclosed are the results of analyses for samples received by Summit Scientific on 05/26/21 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premer". The signature is written in a cursive, flowing style. The first name "Muri" is written with a large, stylized 'M' and 'u'. The last name "Premer" is written with a large 'P' and a trailing flourish.

Muri Premer For Paul Shrewsbury
President



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]

Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WJA-B@5'	2105419-02	Soil	05/26/21 10:40	05/26/21 16:45

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.

2105419

303-277-9310

Page 1 of 1

Project Manager: Alyssa Beard / Jpb Wix

E-Mail: qbrand@fordaffordenergy.com; jerryt2@fordaffordenergy.com

VSR4995@f95m44-500.com

Project Name: Allgood 30-8-5

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other											
1	WJA-W2@4.5'	5/16/21	1030	4			X			X			Full Table 9F-1 X										
2	WJA-B@5'	5/16/21	1040	4			X			X			X										
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
Relinquished by:		Date/Time:		Received by:		Date/Time:		Turn Around Time		(Check)		Notes:											
VLD		5/16/21 1645						Same Day		X										72 hours		—	
Relinquished by:		Date/Time:		Received by:		Date/Time:		24 hours		—										Standard		—	
Relinquished by:		Date/Time:		Received by:		Date/Time:		48 hours		—		Sample Integrity:											
Relinquished by:		Date/Time:		Received by:		Date/Time:		Temperature Upon Receipt:		S.1													
								Samples Intact:		(Yes)		No											

Sample Receipt Checklist

S2 Work Order 2105419

Client: Foundation/Tasman Client Project ID: Allard 30-8-5

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

Matrix (check all that apply): ☒ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C)	<u>8.1</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same Day</u>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? 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): 				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

AT
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

5.26.71
Date/Time



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

WJA-B@5'
2105419-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	0.33	0.20	mg/kg	100	BEE0501	05/26/21	05/26/21	EPA 8260B	
Toluene	0.59	0.50	"	"	"	"	"	"	
Ethylbenzene	0.81	0.50	"	"	"	"	"	"	
Xylenes (total)	4.2	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.6	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	2.3	0.50	"	"	"	"	"	"	
Naphthalene	1.5	0.38	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1700	50	"	"	"	"	"	"	

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		85.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		128 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	130	50	mg/kg	1	BEE0502	05/26/21	05/26/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

R-01

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

WJA-B@5'
2105419-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

R-01

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.195	0.0500	mg/kg	10	BEF0168	06/08/21	06/10/21	EPA 8270D SIM	
Anthracene	1.35	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	0.491	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0980	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	0.529	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	0.150	0.0500	"	"	"	"	"	"	
Fluorene	0.775	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	0.220	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	3.27	0.0500	"	"	"	"	"	"	
2-Methylnaphthalene	2.98	0.0500	"	"	"	"	"	"	

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		94.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		199 %	40-150		"	"	"	"	S-02

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.188	0.0100	mg/L	1	BEF0077	06/03/21	06/07/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.20	0.243	mg/kg dry	1	BEF0004	06/01/21	06/02/21	EPA 6020B	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

WJA-B@5'
2105419-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Barium	113	0.486	mg/kg dry	1	BEF0004	06/01/21	06/02/21	EPA 6020B
Cadmium	ND	0.243	"	"	"	"	"	"
Copper	13.7	0.486	"	"	"	"	"	"
Lead	26.8	0.243	"	"	"	"	"	"
Nickel	12.0	0.486	"	"	"	"	"	"
Selenium	1.12	0.316	"	"	"	"	"	"
Silver	0.0384	0.0243	"	"	"	"	"	"
Zinc	60.2	0.486	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BEF0084	06/03/21	06/03/21	EPA 7196A	

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

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	75.6	0.0608	mg/L dry	1	BEE0550	05/28/21	06/03/21	EPA 6020B	
Magnesium	26.4	0.0608	"	"	"	"	"	"	
Sodium	49.8	0.0608	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.26	0.00100	units	1	BEF0117	06/04/21	06/04/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.2		%	1	BEF0009	06/01/21	06/01/21	Calculation	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

WJA-B@5'
2105419-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.659	0.0100		mmhos/cm	1	BEF0040	06/02/21	06/02/21	EPA 120.1	

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

Date Sampled: **05/26/21 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.21			pH Units	1	BEF0039	06/02/21	06/02/21	EPA 9045D	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEE0501 - EPA 5030 Soil MS

Blank (BEE0501-BLK1)

Prepared: 05/26/21 Analyzed: 05/27/21

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0400		98.5	23-173			
Surrogate: Toluene-d8	0.0476		"	0.0400		119	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		102	21-167			

LCS (BEE0501-BS1)

Prepared: 05/26/21 Analyzed: 05/27/21

Benzene	0.0863	0.0020	mg/kg	0.100		86.3	70-130			
Toluene	0.114	0.0050	"	0.100		114	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.212	0.010	"	0.200		106	70-130			
o-Xylene	0.106	0.0050	"	0.100		106	70-130			
1,2,4-Trimethylbenzene	0.105	0.0050	"	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100		106	70-130			
Naphthalene	0.0801	0.0038	"	0.100		80.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0287		"	0.0400		71.8	23-173			
Surrogate: Toluene-d8	0.0458		"	0.0400		114	20-170			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	21-167			

Matrix Spike (BEE0501-MS1)

Source: 2105414-04

Prepared: 05/26/21 Analyzed: 05/27/21

Benzene	0.0786	0.0020	mg/kg	0.100	ND	78.6	70-130			
Toluene	0.0975	0.0050	"	0.100	ND	97.5	70-130			
Ethylbenzene	0.0960	0.0050	"	0.100	ND	96.0	70-130			
m,p-Xylene	0.188	0.010	"	0.200	ND	94.0	70-130			
o-Xylene	0.0957	0.0050	"	0.100	ND	95.7	70-130			
1,2,4-Trimethylbenzene	0.0968	0.0050	"	0.100	0.00429	92.5	70-130			
1,3,5-Trimethylbenzene	0.0958	0.0050	"	0.100	ND	95.8	70-130			
Naphthalene	0.0892	0.0038	"	0.100	ND	89.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0340		"	0.0400		85.0	23-173			
Surrogate: Toluene-d8	0.0452		"	0.0400		113	20-170			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.3	21-167			

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEE0501 - EPA 5030 Soil MS

Matrix Spike Dup (BEE0501-MSD1)		Source: 2105414-04			Prepared: 05/26/21 Analyzed: 05/27/21					
Benzene	0.0886	0.0020	mg/kg	0.100	ND	88.6	70-130	12.0	30	
Toluene	0.105	0.0050	"	0.100	ND	105	70-130	6.98	30	
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	11.5	30	
m,p-Xylene	0.208	0.010	"	0.200	ND	104	70-130	10.2	30	
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	9.36	30	
1,2,4-Trimethylbenzene	0.105	0.0050	"	0.100	0.00429	101	70-130	8.57	30	
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	8.20	30	
Naphthalene	0.0922	0.0038	"	0.100	ND	92.2	70-130	3.31	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0356		"	0.0400		89.0	23-173			
Surrogate: Toluene-d8	0.0428		"	0.0400		107	20-170			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.7	21-167			

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEE0502 - EPA 3550A

Blank (BEE0502-BLK1)

Prepared: 05/26/21 Analyzed: 05/27/21

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BEE0502-BS1)

Prepared: 05/26/21 Analyzed: 05/27/21

C10-C28 (DRO)	588	50	mg/kg	500	118	70-130
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Matrix Spike (BEE0502-MS1)

Source: 2105414-04

Prepared: 05/26/21 Analyzed: 05/27/21

C10-C28 (DRO)	458	50	mg/kg	500	13.1	89.0	70-130
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Matrix Spike Dup (BEE0502-MSD1)

Source: 2105414-04

Prepared: 05/26/21 Analyzed: 05/27/21

C10-C28 (DRO)	461	50	mg/kg	500	13.1	89.7	70-130	0.680	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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BEF0168 - EPA 5030 Soil MS

Blank (BEF0168-BLK1)

Prepared: 06/08/21 Analyzed: 06/09/21

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0301		"	0.0333		90.3	40-150			
Surrogate: Fluoranthene-d10	0.0266		"	0.0333		79.7	40-150			

LCS (BEF0168-BS1)

Prepared: 06/08/21 Analyzed: 06/09/21

Acenaphthene	0.0316	0.00500	mg/kg	0.0333		94.9	31-137			
Anthracene	0.0321	0.00500	"	0.0333		96.2	30-120			
Benzo (a) anthracene	0.0378	0.00500	"	0.0333		113	30-120			
Benzo (a) pyrene	0.0318	0.00500	"	0.0333		95.4	30-120			
Benzo (b) fluoranthene	0.0317	0.00500	"	0.0333		95.1	30-120			
Benzo (k) fluoranthene	0.0303	0.00500	"	0.0333		90.8	30-120			
Chrysene	0.0359	0.00500	"	0.0333		108	30-120			
Dibenz (a,h) anthracene	0.0305	0.00500	"	0.0333		91.5	30-120			
Fluoranthene	0.0396	0.00500	"	0.0333		119	30-120			
Fluorene	0.0337	0.00500	"	0.0333		101	30-120			
Indeno (1,2,3-cd) pyrene	0.0305	0.00500	"	0.0333		91.4	30-120			
Pyrene	0.0292	0.00500	"	0.0333		87.6	35-142			
1-Methylnaphthalene	0.0303	0.00500	"	0.0333		91.0	35-142			
2-Methylnaphthalene	0.0393	0.00500	"	0.0333		118	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0178		"	0.0333		53.3	40-150			
Surrogate: Fluoranthene-d10	0.0178		"	0.0333		53.5	40-150			

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEF0168 - EPA 5030 Soil MS

Matrix Spike (BEF0168-MS1)

Source: 2105182-01

Prepared: 06/08/21 Analyzed: 06/09/21

Acenaphthene	0.0327	0.00500	mg/kg	0.0333	ND	98.2	31-137		
Anthracene	0.0338	0.00500	"	0.0333	ND	101	30-120		
Benzo (a) anthracene	0.0397	0.00500	"	0.0333	ND	119	30-120		
Benzo (a) pyrene	0.0328	0.00500	"	0.0333	ND	98.5	30-120		
Benzo (b) fluoranthene	0.0327	0.00500	"	0.0333	ND	98.1	30-120		
Benzo (k) fluoranthene	0.0308	0.00500	"	0.0333	ND	92.5	30-120		
Chrysene	0.0373	0.00500	"	0.0333	ND	112	30-120		
Dibenz (a,h) anthracene	0.0311	0.00500	"	0.0333	ND	93.4	30-120		
Fluoranthene	0.0313	0.00500	"	0.0333	ND	93.9	30-120		
Fluorene	0.0340	0.00500	"	0.0333	ND	102	30-120		
Indeno (1,2,3-cd) pyrene	0.0313	0.00500	"	0.0333	ND	93.9	30-120		
Pyrene	0.0312	0.00500	"	0.0333	ND	93.7	35-142		
1-Methylnaphthalene	0.0311	0.00500	"	0.0333	ND	93.4	15-130		
2-Methylnaphthalene	0.0423	0.00500	"	0.0333	ND	127	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0218		"	0.0333		65.5	40-150		
Surrogate: Fluoranthene-d10	0.0167		"	0.0333		50.0	40-150		

Matrix Spike Dup (BEF0168-MSD1)

Source: 2105182-01

Prepared: 06/08/21 Analyzed: 06/09/21

Acenaphthene	0.0328	0.00500	mg/kg	0.0333	ND	98.3	31-137	0.131	30
Anthracene	0.0333	0.00500	"	0.0333	ND	100	30-120	1.22	30
Benzo (a) anthracene	0.0399	0.00500	"	0.0333	ND	120	30-120	0.499	30
Benzo (a) pyrene	0.0330	0.00500	"	0.0333	ND	98.9	30-120	0.464	30
Benzo (b) fluoranthene	0.0330	0.00500	"	0.0333	ND	99.0	30-120	0.912	30
Benzo (k) fluoranthene	0.0316	0.00500	"	0.0333	ND	94.8	30-120	2.45	30
Chrysene	0.0370	0.00500	"	0.0333	ND	111	30-120	0.849	30
Dibenz (a,h) anthracene	0.0309	0.00500	"	0.0333	ND	92.6	30-120	0.878	30
Fluoranthene	0.0314	0.00500	"	0.0333	ND	94.3	30-120	0.390	30
Fluorene	0.0347	0.00500	"	0.0333	ND	104	30-120	1.83	30
Indeno (1,2,3-cd) pyrene	0.0308	0.00500	"	0.0333	ND	92.5	30-120	1.53	30
Pyrene	0.0314	0.00500	"	0.0333	ND	94.3	35-142	0.586	30
1-Methylnaphthalene	0.0306	0.00500	"	0.0333	ND	91.7	15-130	1.89	50
2-Methylnaphthalene	0.0418	0.00500	"	0.0333	ND	125	15-130	1.21	50
Surrogate: 2-Methylnaphthalene-d10	0.0154		"	0.0333		46.1	40-150		
Surrogate: Fluoranthene-d10	0.0139		"	0.0333		41.6	40-150		

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

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

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

Batch BEF0077 - EPA 3050B

Blank (BEF0077-BLK1)

Prepared: 06/03/21 Analyzed: 06/06/21

Boron ND 0.0100 mg/L

LCS (BEF0077-BS1)

Prepared: 06/03/21 Analyzed: 06/06/21

Boron 5.93 0.0100 mg/L 5.00 119 80-120

Duplicate (BEF0077-DUP1)

Source: 2105410-02

Prepared: 06/03/21 Analyzed: 06/06/21

Boron 0.260 0.0100 mg/L 0.247 5.06 20

Matrix Spike (BEF0077-MS1)

Source: 2105410-02

Prepared: 06/03/21 Analyzed: 06/06/21

Boron 5.66 0.0100 mg/L 5.00 0.247 108 75-125

Matrix Spike Dup (BEF0077-MSD1)

Source: 2105410-02

Prepared: 06/03/21 Analyzed: 06/06/21

Boron 5.58 0.0100 mg/L 5.00 0.247 107 75-125 1.31 25

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEF0004 - EPA 3050B

Blank (BEF0004-BLK1)

Prepared & Analyzed: 06/01/21

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BEF0004-BS1)

Prepared & Analyzed: 06/01/21

Arsenic	42.4	0.200	mg/kg wet	40.0	106	80-120
Barium	38.5	0.400	"	40.0	96.2	80-120
Cadmium	2.12	0.200	"	2.00	106	80-120
Copper	40.7	0.400	"	40.0	102	80-120
Lead	20.6	0.200	"	20.0	103	80-120
Nickel	40.2	0.400	"	40.0	100	80-120
Selenium	4.17	0.260	"	4.00	104	80-120
Silver	2.05	0.0200	"	2.00	102	80-120
Zinc	43.5	0.400	"	40.0	109	80-120

Duplicate (BEF0004-DUP1)

Source: 2105414-02

Prepared & Analyzed: 06/01/21

Arsenic	3.08	0.237	mg/kg dry	2.87	6.95	20
Barium	99.6	0.474	"	85.0	15.8	20
Cadmium	0.147	0.237	"	0.141	4.61	20
Copper	10.1	0.474	"	9.70	3.79	20
Lead	8.12	0.237	"	7.71	5.22	20
Nickel	9.34	0.474	"	8.49	9.58	20
Selenium	0.895	0.308	"	0.826	7.97	20
Silver	0.0392	0.0237	"	0.0350	11.4	20
Zinc	31.8	0.474	"	30.6	3.77	20

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEF0004 - EPA 3050B

Matrix Spike (BEF0004-MS1)

Source: 2105414-02

Prepared & Analyzed: 06/01/21

Arsenic	47.5	0.237	mg/kg dry	47.4	2.87	94.1	75-125
Barium	126	0.474	"	47.4	85.0	86.7	75-125
Cadmium	2.49	0.237	"	2.37	0.141	99.3	75-125
Copper	53.3	0.474	"	47.4	9.70	92.0	75-125
Lead	29.1	0.237	"	23.7	7.71	90.1	75-125
Nickel	53.7	0.474	"	47.4	8.49	95.3	75-125
Selenium	4.81	0.308	"	4.74	0.826	84.1	75-125
Silver	2.30	0.0237	"	2.37	0.0350	95.8	75-125
Zinc	78.9	0.474	"	47.4	30.6	102	75-125

Matrix Spike Dup (BEF0004-MSD1)

Source: 2105414-02

Prepared: 06/01/21 Analyzed: 06/02/21

Arsenic	48.2	0.237	mg/kg dry	47.4	2.87	95.6	75-125	1.50	25
Barium	134	0.474	"	47.4	85.0	102	75-125	5.73	25
Cadmium	2.51	0.237	"	2.37	0.141	99.8	75-125	0.470	25
Copper	55.0	0.474	"	47.4	9.70	95.7	75-125	3.19	25
Lead	29.3	0.237	"	23.7	7.71	91.0	75-125	0.757	25
Nickel	54.4	0.474	"	47.4	8.49	96.9	75-125	1.38	25
Selenium	5.02	0.308	"	4.74	0.826	88.5	75-125	4.24	25
Silver	2.34	0.0237	"	2.37	0.0350	97.1	75-125	1.35	25
Zinc	82.3	0.474	"	47.4	30.6	109	75-125	4.29	25

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BEF0084 - 3060A Mod

Blank (BEF0084-BLK1)

Prepared & Analyzed: 06/03/21

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BEF0084-BS1)

Prepared & Analyzed: 06/03/21

Chromium, Hexavalent 24.2 0.30 mg/kg wet 25.0 97.0 80-120

Duplicate (BEF0084-DUP1)

Source: 2105418-01

Prepared & Analyzed: 06/03/21

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BEF0084-MS1)

Source: 2105418-01

Prepared & Analyzed: 06/03/21

Chromium, Hexavalent 25.9 0.30 mg/kg dry 29.1 ND 89.0 75-125

Matrix Spike Dup (BEF0084-MSD1)

Source: 2105418-01

Prepared & Analyzed: 06/03/21

Chromium, Hexavalent 25.9 0.30 mg/kg dry 29.1 ND 89.0 75-125 0.00 20

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

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

Summit Scientific

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

Batch BEE0550 - General Preparation

Blank (BEE0550-BLK1)

Prepared: 05/28/21 Analyzed: 06/03/21

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

LCS (BEE0550-BS1)

Prepared: 05/28/21 Analyzed: 06/03/21

Calcium	4.81	0.0500	mg/L wet	5.00	96.3	70-130
Magnesium	5.45	0.0500	"	5.00	109	70-130
Sodium	5.13	0.0500	"	5.00	103	70-130

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]

Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

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

Summit Scientific

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

Batch BEF0009 - General Preparation

Duplicate (BEF0009-DUP1)		Source: 2105416-01		Prepared & Analyzed: 06/01/21						
% Solids	87.6		%		87.4			0.219	20	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

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

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

Batch BEF0040 - General Preparation

Blank (BEF0040-BLK1)

Prepared & Analyzed: 06/02/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEF0040-BS1)

Prepared & Analyzed: 06/02/21

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.6 90-110

Duplicate (BEF0040-DUP1)

Source: 2105256-01

Prepared & Analyzed: 06/02/21

Specific Conductance (EC) 0.948 0.0100 mmhos/cm 0.951 0.347 20

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

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

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

Batch BEF0039 - General Preparation

LCS (BEF0039-BS1)

Prepared & Analyzed: 06/02/21

pH	9.19	pH Units	9.21	99.8	95-105
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Duplicate (BEF0039-DUP1)

Source: 2105256-01

Prepared & Analyzed: 06/02/21

pH	8.36	pH Units	8.36	0.00	20
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Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/10/21 17:53

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
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

June 17, 2021

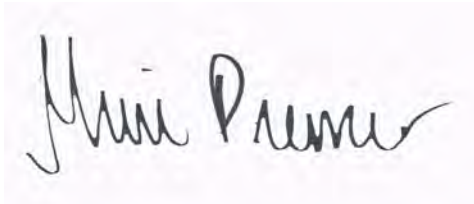
Alyssa Beard
Foundation Energy
1801 Broadway, Suite 1500
Denver, CO 80202

RE: Allard 30-8-5

Work Order #2105496

Enclosed are the results of analyses for samples received by Summit Scientific on 05/28/21 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premer", is shown on a light pink background.

Muri Premer For Paul Shrewsbury
President



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]

Project Manager: Alyssa Beard

Reported:
06/17/21 13:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WJA-W3@4.5'	2105496-01	Soil	05/27/21 10:00	05/28/21 12:00

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.

Summit Scientific

2105496

S₂

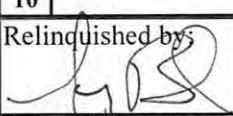
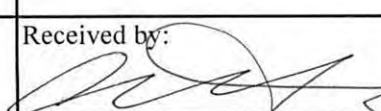
4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: FOUNDATION ENERGY Project Manager: Alyssa Beard + Jeb Watts
 Address: 1775 Sherman St Suite 1800 E-Mail: abeard@foundationenergy.com ; jwatts@tasman-geo.com
 City/State/Zip: Denver CO 80203
 Phone: 720 257 7302 Project Name: Allard 30-8-5
 Sampler Name: A. Beard Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions			
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	TABLET ORGANICS											
1	WJA-W3C4.5'	5/27/21	1000	3			X			X				X										
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

Relinquished by: 	Date/Time: 5/28/21 1200	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by: 	Date/Time: 5-28-21 1200	Sample Integrity: Temperature Upon Receipt: 14.3° Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

2105496

Sample Receipt Checklist

S2 Work Order _____

Client: Foundation Client Project ID: Allard 30-8-5Shipped Via: ☒ H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)Temp (°C) 14.3

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input 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):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

AT
Custodian Printed Name or InitialsCLAR
Signature of Custodian5.28.21
Date/Time



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 13:58

WJA-W3@4.5'
2105496-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEF0124	06/04/21	06/04/21	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: **05/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		124 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEF0125	06/04/21	06/04/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/27/21 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		81.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 13:58

WJA-W3@4.5'
2105496-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **05/27/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BEF0267	06/11/21	06/12/21	EPA 8270D SIM	
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	"	"	"	"	"	"	

Date Sampled: **05/27/21 10:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10		79.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.0 %	40-150		"	"	"	"	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 13:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEF0124 - EPA 5030 Soil MS

Blank (BEF0124-BLK1)

Prepared & Analyzed: 06/04/21

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0380		"	0.0400		95.1	23-173			
Surrogate: Toluene-d8	0.0480		"	0.0400		120	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	21-167			

LCS (BEF0124-BS1)

Prepared & Analyzed: 06/04/21

Benzene	0.0812	0.0020	mg/kg	0.100		81.2	70-130			
Toluene	0.0799	0.0050	"	0.100		79.9	70-130			
Ethylbenzene	0.0892	0.0050	"	0.100		89.2	70-130			
m,p-Xylene	0.177	0.010	"	0.200		88.6	70-130			
o-Xylene	0.0820	0.0050	"	0.100		82.0	70-130			
1,2,4-Trimethylbenzene	0.0897	0.0050	"	0.100		89.7	70-130			
1,3,5-Trimethylbenzene	0.0885	0.0050	"	0.100		88.5	70-130			
Naphthalene	0.0992	0.0038	"	0.100		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0259		"	0.0400		64.8	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		99.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.4	21-167			

Matrix Spike (BEF0124-MS1)

Source: 2105494-01

Prepared & Analyzed: 06/04/21

Benzene	0.0905	0.0020	mg/kg	0.100	ND	90.5	70-130			
Toluene	0.0776	0.0050	"	0.100	ND	77.6	70-130			
Ethylbenzene	0.0940	0.0050	"	0.100	ND	94.0	70-130			
m,p-Xylene	0.183	0.010	"	0.200	0.00321	90.0	70-130			
o-Xylene	0.0849	0.0050	"	0.100	ND	84.9	70-130			
1,2,4-Trimethylbenzene	0.0908	0.0050	"	0.100	ND	90.8	70-130			
1,3,5-Trimethylbenzene	0.0902	0.0050	"	0.100	ND	90.2	70-130			
Naphthalene	0.104	0.0038	"	0.100	0.00726	96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0324		"	0.0400		80.9	23-173			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0364		"	0.0400		91.1	21-167			

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 13:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEF0124 - EPA 5030 Soil MS

Matrix Spike Dup (BEF0124-MSD1)		Source: 2105494-01			Prepared & Analyzed: 06/04/21					
Benzene	0.0888	0.0020	mg/kg	0.100	ND	88.8	70-130	1.94	30	
Toluene	0.0793	0.0050	"	0.100	ND	79.3	70-130	2.18	30	
Ethylbenzene	0.0958	0.0050	"	0.100	ND	95.8	70-130	1.86	30	
m,p-Xylene	0.185	0.010	"	0.200	0.00321	90.7	70-130	0.799	30	
o-Xylene	0.0852	0.0050	"	0.100	ND	85.2	70-130	0.388	30	
1,2,4-Trimethylbenzene	0.0934	0.0050	"	0.100	ND	93.4	70-130	2.83	30	
1,3,5-Trimethylbenzene	0.0914	0.0050	"	0.100	ND	91.4	70-130	1.32	30	
Naphthalene	0.0774	0.0038	"	0.100	0.00726	70.1	70-130	29.1	30	
Surrogate: 1,2-Dichloroethane-d4		0.0308	"	0.0400		77.0	23-173			
Surrogate: Toluene-d8		0.0395	"	0.0400		98.8	20-170			
Surrogate: 4-Bromofluorobenzene		0.0376	"	0.0400		94.1	21-167			

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 13:58

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEF0125 - EPA 3550A

Blank (BEF0125-BLK1)

Prepared & Analyzed: 06/04/21

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BEF0125-BS1)

Prepared & Analyzed: 06/04/21

C10-C28 (DRO)	509	50	mg/kg	500	102	70-130
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Matrix Spike (BEF0125-MS1)

Source: 2105494-01

Prepared & Analyzed: 06/04/21

C10-C28 (DRO)	437	50	mg/kg	500	13.7	84.6	70-130
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Matrix Spike Dup (BEF0125-MSD1)

Source: 2105494-01

Prepared & Analyzed: 06/04/21

C10-C28 (DRO)	454	50	mg/kg	500	13.7	88.1	70-130	3.86	20
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Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 13:58

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEF0267 - EPA 5030 Soil MS

Blank (BEF0267-BLK1)

Prepared: 06/11/21 Analyzed: 06/12/21

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0385		"	0.0333		115	40-150			
Surrogate: Fluoranthene-d10	0.0311		"	0.0333		93.3	40-150			

LCS (BEF0267-BS1)

Prepared: 06/11/21 Analyzed: 06/12/21

Acenaphthene	0.0324	0.00500	mg/kg	0.0333		97.3	31-137			
Anthracene	0.0338	0.00500	"	0.0333		101	30-120			
Benzo (a) anthracene	0.0201	0.00500	"	0.0333		60.2	30-120			
Benzo (a) pyrene	0.0292	0.00500	"	0.0333		87.7	30-120			
Benzo (b) fluoranthene	0.0361	0.00500	"	0.0333		108	30-120			
Benzo (k) fluoranthene	0.0296	0.00500	"	0.0333		88.7	30-120			
Chrysene	0.0352	0.00500	"	0.0333		106	30-120			
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333		55.2	30-120			
Fluoranthene	0.0251	0.00500	"	0.0333		75.4	30-120			
Fluorene	0.0336	0.00500	"	0.0333		101	30-120			
Indeno (1,2,3-cd) pyrene	0.0223	0.00500	"	0.0333		67.0	30-120			
Pyrene	0.0118	0.00500	"	0.0333		35.3	35-142			
1-Methylnaphthalene	0.0346	0.00500	"	0.0333		104	35-142			
2-Methylnaphthalene	0.0403	0.00500	"	0.0333		121	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333		64.7	40-150			
Surrogate: Fluoranthene-d10	0.0185		"	0.0333		55.5	40-150			

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 13:58

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEF0267 - EPA 5030 Soil MS

Matrix Spike (BEF0267-MS1)

Source: 2105475-01

Prepared: 06/11/21 Analyzed: 06/12/21

Acenaphthene	0.0337	0.00500	mg/kg	0.0333	ND	101	31-137		
Anthracene	0.0346	0.00500	"	0.0333	ND	104	30-120		
Benzo (a) anthracene	0.0162	0.00500	"	0.0333	ND	48.6	30-120		
Benzo (a) pyrene	0.0307	0.00500	"	0.0333	ND	92.1	30-120		
Benzo (b) fluoranthene	0.0365	0.00500	"	0.0333	ND	110	30-120		
Benzo (k) fluoranthene	0.0295	0.00500	"	0.0333	ND	88.6	30-120		
Chrysene	0.0366	0.00500	"	0.0333	ND	110	30-120		
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	46.0	30-120		
Fluoranthene	0.0183	0.00500	"	0.0333	ND	54.9	30-120		
Fluorene	0.0351	0.00500	"	0.0333	ND	105	30-120		
Indeno (1,2,3-cd) pyrene	0.0227	0.00500	"	0.0333	ND	68.0	30-120		
Pyrene	0.0124	0.00500	"	0.0333	ND	37.3	35-142		
1-Methylnaphthalene	0.0352	0.00500	"	0.0333	ND	106	15-130		
2-Methylnaphthalene	0.0420	0.00500	"	0.0333	ND	126	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0217		"	0.0333		65.0	40-150		
Surrogate: Fluoranthene-d10	0.0235		"	0.0333		70.5	40-150		

Matrix Spike Dup (BEF0267-MSD1)

Source: 2105475-01

Prepared: 06/11/21 Analyzed: 06/12/21

Acenaphthene	0.0347	0.00500	mg/kg	0.0333	ND	104	31-137	3.15	30
Anthracene	0.0352	0.00500	"	0.0333	ND	106	30-120	1.76	30
Benzo (a) anthracene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	25.6	30
Benzo (a) pyrene	0.0323	0.00500	"	0.0333	ND	96.9	30-120	5.03	30
Benzo (b) fluoranthene	0.0384	0.00500	"	0.0333	ND	115	30-120	5.02	30
Benzo (k) fluoranthene	0.0314	0.00500	"	0.0333	ND	94.1	30-120	6.03	30
Chrysene	0.0378	0.00500	"	0.0333	ND	114	30-120	3.41	30
Dibenz (a,h) anthracene	0.0154	0.00500	"	0.0333	ND	46.1	30-120	0.280	30
Fluoranthene	0.0221	0.00500	"	0.0333	ND	66.2	30-120	18.8	30
Fluorene	0.0362	0.00500	"	0.0333	ND	109	30-120	3.21	30
Indeno (1,2,3-cd) pyrene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	0.291	30
Pyrene	0.0125	0.00500	"	0.0333	ND	37.5	35-142	0.588	30
1-Methylnaphthalene	0.0357	0.00500	"	0.0333	ND	107	15-130	1.33	50
2-Methylnaphthalene	0.0307	0.00500	"	0.0333	ND	92.1	15-130	31.2	50
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333		64.7	40-150		
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.4	40-150		

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 13:58

Notes and Definitions

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

June 11, 2021

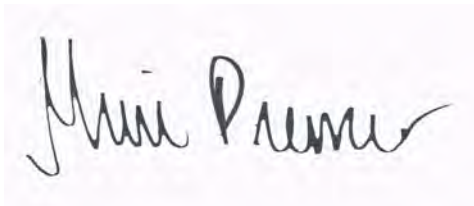
Alyssa Beard
Foundation Energy
1801 Broadway, Suite 1500
Denver, CO 80202

RE: Allard 30-8-5

Work Order #2105346

Enclosed are the results of analyses for samples received by Summit Scientific on 05/20/21 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premer". The signature is written in a cursive style with a large, stylized "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]

Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	2105346-01	Water	05/20/21 12:59	05/20/21 18:00
MW02	2105346-02	Water	05/20/21 13:08	05/20/21 18:00
MW03	2105346-03	Water	05/20/21 13:32	05/20/21 18:00
MW04	2105346-04	Water	05/20/21 13:44	05/20/21 18:00
MW05	2105346-05	Water	05/20/21 13:18	05/20/21 18:00
MW06	2105346-06	Water	05/20/21 12:21	05/20/21 18:00
MW07	2105346-07	Water	05/20/21 11:48	05/20/21 18:00
MW08	2105346-08	Water	05/20/21 11:59	05/20/21 18:00
MW09	2105346-09	Water	05/20/21 12:08	05/20/21 18:00

Summit Scientific

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Summit Scientific

2105346

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Foundation / Terman

Address: 6855 W 119th Ave

City/State/Zip: Broomfield, CO 80020

Phone: 303-482-1228 Fax:

Sampler Name: Brian Gabel

Project Manager: Jeb Watts / Alyssa Beard

E-Mail: jwatts@fasman-geo.com / abeard@foundationenergy.com

Project Name: Allard 30-8-5

Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:										Special Instructions				
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Table 95-1 organics	Table 95-1 Inorganics													
MW01	5/20/21	1259	4			X		X					X	X												
MW02		1308																								
MW03		1332																								
MW04		1344																								
MW05		1318																								
MW06		1221																								
MW07		1148																								
MW08		1159																								
MW09		1208																								

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>4.6°</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

S2 Work Order 2105346

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

Temp (°C)	4.6
-----------	-----

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	no
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? 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"/>	
<u>Additional Comments (if any):</u>				

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

5.20.21

Date/Time



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

MW01
2105346-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/20/21 12:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEE0415	05/21/21	05/22/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/20/21 12:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		56.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/20/21 12:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	64.2	6.00	mg/L	100	BEE0453	05/25/21	05/25/21	EPA 300.0	
Sulfate	134	60.0	"	200	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/20/21 12:59**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	727	10.0	mg/L	1	BEE0392	05/21/21	05/21/21	SM2540C	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

MW02
2105346-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/20/21 13:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEE0415	05/21/21	05/22/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/20/21 13:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		68.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/20/21 13:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	15.2	12.0	mg/L	200	BEE0453	05/25/21	05/25/21	EPA 300.0	
Sulfate	84.0	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/20/21 13:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	342	10.0	mg/L	1	BEE0392	05/21/21	05/21/21	SM2540C	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

MW03
2105346-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/20/21 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEE0415	05/21/21	05/22/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/20/21 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		57.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		111 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/20/21 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	14.4	12.0	mg/L	200	BEE0453	05/25/21	05/25/21	EPA 300.0	
Sulfate	107	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/20/21 13:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	317	10.0	mg/L	1	BEE0392	05/21/21	05/21/21	SM2540C	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

MW04
2105346-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/20/21 13:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEE0415	05/21/21	05/23/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.8	1.0	"	"	"	"	"	"	

Date Sampled: **05/20/21 13:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/20/21 13:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	10.2	6.00	mg/L	100	BEE0453	05/25/21	05/25/21	EPA 300.0	
Sulfate	83.4	60.0	"	200	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/20/21 13:44**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	346	10.0	mg/L	1	BEE0392	05/21/21	05/21/21	SM2540C	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

MW05
2105346-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/20/21 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEE0415	05/21/21	05/23/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/20/21 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		94.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/20/21 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	21.6	12.0	mg/L	200	BEE0453	05/25/21	05/25/21	EPA 300.0	
Sulfate	67.8	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/20/21 13:18**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	317	10.0	mg/L	1	BEE0392	05/21/21	05/21/21	SM2540C	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

MW06
2105346-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/20/21 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.5	1.0	ug/l	1	BEE0415	05/21/21	05/23/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	27	2.0	"	"	"	"	"	"	
Naphthalene	3.7	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	7.1	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	25	1.0	"	"	"	"	"	"	

Date Sampled: **05/20/21 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.1 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.7 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/20/21 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	20.2	12.0	mg/L	200	BEE0453	05/25/21	05/25/21	EPA 300.0	
Sulfate	71.8	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/20/21 12:21**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	278	10.0	mg/L	1	BEE0392	05/21/21	05/21/21	SM2540C	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

MW07
2105346-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/20/21 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEE0415	05/21/21	05/23/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/20/21 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.4 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/20/21 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	2.00	0.0600	mg/L	1	BEE0453	05/25/21	05/25/21	EPA 300.0	
Sulfate	208	60.0	"	200	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/20/21 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	408	10.0	mg/L	1	BEE0392	05/21/21	05/21/21	SM2540C	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

MW08
2105346-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/20/21 11:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEE0415	05/21/21	05/22/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/20/21 11:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		67.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.6 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/20/21 11:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	19.0	12.0	mg/L	200	BEE0453	05/25/21	05/25/21	EPA 300.0	
Sulfate	60.4	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/20/21 11:59**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	206	10.0	mg/L	1	BEE0392	05/21/21	05/21/21	SM2540C	

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

MW09
2105346-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/20/21 12:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BEE0415	05/21/21	05/22/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/20/21 12:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		63.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		108 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/20/21 12:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	18.6	12.0	mg/L	200	BEE0453	05/25/21	05/25/21	EPA 300.0	
Sulfate	117	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/20/21 12:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	308	10.0	mg/L	1	BEE0392	05/21/21	05/21/21	SM2540C	

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEE0415 - EPA 5030 Water MS

Blank (BEE0415-BLK1)

Prepared: 05/21/21 Analyzed: 05/22/21

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	9.15		"	13.3		68.6	23-173			
Surrogate: Toluene-d8	14.8		"	13.3		111	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.3	21-167			

LCS (BEE0415-BS1)

Prepared: 05/21/21 Analyzed: 05/22/21

Benzene	30.0	1.0	ug/l	33.3		90.0	51-132			
Toluene	34.4	1.0	"	33.3		103	51-138			
Ethylbenzene	35.4	1.0	"	33.3		106	58-146			
m,p-Xylene	70.7	2.0	"	66.7		106	57-144			
o-Xylene	35.0	1.0	"	33.3		105	53-146			
Naphthalene	26.7	1.0	"	33.3		80.0	70-130			
1,2,4-Trimethylbenzene	31.3	1.0	"	33.3		93.9	70-130			
1,3,5-Trimethylbenzene	32.4	1.0	"	33.3		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	8.15		"	13.3		61.1	23-173			
Surrogate: Toluene-d8	14.2		"	13.3		106	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.6	21-167			

Matrix Spike (BEE0415-MS1)

Source: 2105313-01

Prepared: 05/21/21 Analyzed: 05/22/21

Benzene	28.2	1.0	ug/l	33.3	ND	84.6	34-141			
Toluene	39.6	1.0	"	33.3	ND	119	27-151			
Ethylbenzene	37.9	1.0	"	33.3	ND	114	29-160			
m,p-Xylene	77.6	2.0	"	66.7	ND	116	20-166			
o-Xylene	37.9	1.0	"	33.3	ND	114	33-159			
Naphthalene	29.4	1.0	"	33.3	ND	88.3	70-130			
1,2,4-Trimethylbenzene	36.0	1.0	"	33.3	ND	108	70-130			
1,3,5-Trimethylbenzene	37.0	1.0	"	33.3	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	6.29		"	13.3		47.2	23-173			
Surrogate: Toluene-d8	16.0		"	13.3		120	20-170			
Surrogate: 4-Bromofluorobenzene	14.6		"	13.3		110	21-167			

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

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 BEE0415 - EPA 5030 Water MS

Matrix Spike Dup (BEE0415-MSD1)	Source: 2105313-01			Prepared: 05/21/21 Analyzed: 05/22/21						
Benzene	30.3	1.0	ug/l	33.3	ND	90.9	34-141	7.18	30	
Toluene	36.1	1.0	"	33.3	ND	108	27-151	9.04	30	
Ethylbenzene	35.6	1.0	"	33.3	ND	107	29-160	6.40	30	
m,p-Xylene	71.2	2.0	"	66.7	ND	107	20-166	8.47	30	
o-Xylene	35.0	1.0	"	33.3	ND	105	33-159	7.82	30	
Naphthalene	33.4	1.0	"	33.3	ND	100	70-130	12.6	30	
1,2,4-Trimethylbenzene	30.8	1.0	"	33.3	ND	92.6	70-130	15.5	30	
1,3,5-Trimethylbenzene	31.7	1.0	"	33.3	ND	95.2	70-130	15.2	30	
Surrogate: 1,2-Dichloroethane-d4	10.3		"	13.3		77.0	23-173			
Surrogate: Toluene-d8	14.8		"	13.3		111	20-170			
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		104	21-167			

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BEE0453 - General Preparation

Blank (BEE0453-BLK1)

Prepared & Analyzed: 05/25/21

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BEE0453-BS1)

Prepared & Analyzed: 05/25/21

Chloride	2.90	0.0600	mg/L	3.00	96.7	90-110
Sulfate	15.7	0.300	"	15.0	104	90-110

Duplicate (BEE0453-DUP1)

Source: 2105378-01

Prepared & Analyzed: 05/25/21

Chloride	10.9	0.0600	mg/L	10.9	0.110	20
Sulfate	61.4	0.300	"	61.0	0.732	20

Matrix Spike (BEE0453-MS1)

Source: 2105378-01

Prepared & Analyzed: 05/25/21

Chloride	13.6	0.0600	mg/L	3.00	10.9	91.3	80-120
Sulfate	74.2	0.300	"	15.0	61.0	88.0	80-120

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BEE0392 - General Preparation

Blank (BEE0392-BLK1)

Prepared & Analyzed: 05/21/21

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BEE0392-DUP1)

Source: 2105326-01

Prepared & Analyzed: 05/21/21

Total Dissolved Solids 656 10.0 mg/L 656 0.122 20

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/11/21 16:16

Notes and Definitions

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

June 17, 2021

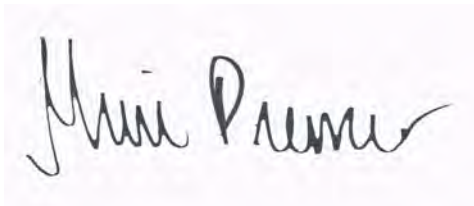
Alyssa Beard
Foundation Energy
1801 Broadway, Suite 1500
Denver, CO 80202

RE: Allard 30-8-5

Work Order #2105347

Enclosed are the results of analyses for samples received by Summit Scientific on 05/20/21 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premer". The signature is written in a cursive, flowing style. The first name "Muri" is written with a large, stylized 'M' and the last name "Premer" follows in a similar cursive script.

Muri Premer For Paul Shrewsbury
President



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]

Project Manager: Alyssa Beard

Reported:
06/17/21 12:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW01	2105347-01	Water	05/20/21 13:56	05/20/21 18:00

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.

2105342

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: Foundation / Tasman

Address: 6855 W 119th Ave

City/State/Zip: Broomfield, CO 80020

Phone: 303-487-1228 Fax:

Sampler Name: Brian Gabel

Project Manager: Job Watts / Alyssa Beard

E-Mail: hwatts@tasman-geo.com / abeard@foundationenergy.com

Project Name: Allgrid 30-8-5

Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:										Special Instructions							
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Table 915-1 organics	Table 915-1 Inorganics															
SW01	5/20/21	1356	4			X		X					X	X														
Relinquished by: <u>Brian Gabel</u> Date/Time: <u>5/20/21 1800</u>				Received by: <u></u> Date/Time: <u></u>				Turn Around Time (Check) Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>										Notes:										
Relinquished by: <u></u> Date/Time: <u></u>				Received by: <u></u> Date/Time: <u></u>				Sample Integrity: Temperature Upon Receipt: <u>4.6</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				
Relinquished by: <u></u> Date/Time: <u></u>				Received in Lab by: <u></u> Date/Time: <u>5.20.21 1800</u>																								

Sample Receipt Checklist

S2 Work Order

2105347

Client: Foundation/Tasman

Client Project ID: Allard 30-8-5

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

Airbill #: _____

Matrix (check all that apply):

☐ Air

☐ Soil/Solid

☒ Water

☐ Other: _____

(Describe)

Temp (°C)

4.6

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>none</u>
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? 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):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name or Initials

AT

Signature of Custodian

[Signature]

Date/Time

5.20.21



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 12:51

SW01
2105347-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/20/21 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEE0440	05/24/21	05/26/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **05/20/21 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		131 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.9 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/20/21 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	2.31	0.0600	mg/L	1	BEE0453	05/25/21	05/27/21	EPA 300.0	
Sulfate	23.5	0.300	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **05/20/21 13:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Total Dissolved Solids	111	10.0	mg/L	1	BEE0483	05/26/21	05/26/21	SM2540C	

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5
Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 12:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEE0440 - EPA 5030 Water MS

Blank (BEE0440-BLK1)

Prepared: 05/24/21 Analyzed: 05/25/21

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		112	23-173			
Surrogate: Toluene-d8	15.1		"	13.3		113	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

LCS (BEE0440-BS1)

Prepared: 05/24/21 Analyzed: 05/25/21

Benzene	61.2	1.0	ug/l	50.0		122	51-132			
Toluene	50.2	1.0	"	50.0		100	51-138			
Ethylbenzene	50.2	1.0	"	50.0		100	58-146			
m,p-Xylene	103	2.0	"	100		103	57-144			
o-Xylene	53.3	1.0	"	50.0		107	53-146			
Naphthalene	49.0	1.0	"	50.0		98.0	70-130			
1,2,4-Trimethylbenzene	49.4	1.0	"	50.0		98.7	70-130			
1,3,5-Trimethylbenzene	49.0	1.0	"	50.0		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.8	23-173			
Surrogate: Toluene-d8	12.7		"	13.3		95.0	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.4	21-167			

Matrix Spike (BEE0440-MS1)

Source: 2105367-01

Prepared: 05/24/21 Analyzed: 05/25/21

Benzene	61.2	1.0	ug/l	50.0	ND	122	34-141			
Toluene	50.2	1.0	"	50.0	ND	100	27-151			
Ethylbenzene	48.9	1.0	"	50.0	ND	97.9	29-160			
m,p-Xylene	100	2.0	"	100	ND	100	20-166			
o-Xylene	52.4	1.0	"	50.0	ND	105	33-159			
Naphthalene	49.7	1.0	"	50.0	1.04	97.4	70-130			
1,2,4-Trimethylbenzene	48.8	1.0	"	50.0	ND	97.6	70-130			
1,3,5-Trimethylbenzene	48.0	1.0	"	50.0	ND	95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		100	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		96.0	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.3	21-167			

Summit Scientific

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Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 12:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEE0440 - EPA 5030 Water MS

Matrix Spike Dup (BEE0440-MSD1)		Source: 2105367-01			Prepared: 05/24/21 Analyzed: 05/25/21					
Benzene	61.9	1.0	ug/l	50.0	ND	124	34-141	1.07	30	
Toluene	50.8	1.0	"	50.0	ND	102	27-151	1.15	30	
Ethylbenzene	51.5	1.0	"	50.0	ND	103	29-160	5.10	30	
m,p-Xylene	104	2.0	"	100	ND	104	20-166	3.64	30	
o-Xylene	55.4	1.0	"	50.0	ND	111	33-159	5.40	30	
Naphthalene	53.1	1.0	"	50.0	1.04	104	70-130	6.55	30	
1,2,4-Trimethylbenzene	50.4	1.0	"	50.0	ND	101	70-130	3.35	30	
1,3,5-Trimethylbenzene	50.0	1.0	"	50.0	ND	100	70-130	4.21	30	
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.5	23-173			
Surrogate: Toluene-d8	12.6		"	13.3		94.5	20-170			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.4	21-167			

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 12:51

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BEE0453 - General Preparation

Blank (BEE0453-BLK1)

Prepared & Analyzed: 05/25/21

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BEE0453-BS1)

Prepared & Analyzed: 05/25/21

Chloride	2.90	0.0600	mg/L	3.00	96.7	90-110
Sulfate	15.7	0.300	"	15.0	104	90-110

Duplicate (BEE0453-DUP1)

Source: 2105378-01

Prepared & Analyzed: 05/25/21

Chloride	10.9	0.0600	mg/L	10.9	0.110	20
Sulfate	61.4	0.300	"	61.0	0.732	20

Matrix Spike (BEE0453-MS1)

Source: 2105378-01

Prepared & Analyzed: 05/25/21

Chloride	13.6	0.0600	mg/L	3.00	10.9	91.3	80-120
Sulfate	74.2	0.300	"	15.0	61.0	88.0	80-120

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 12:51

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BEE0483 - General Preparation

Blank (BEE0483-BLK1)

Prepared & Analyzed: 05/26/21

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BEE0483-DUP1)

Source: 2105347-01

Prepared & Analyzed: 05/26/21

Total Dissolved Solids 112 10.0 mg/L 111 0.269 20

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.



Foundation Energy
1801 Broadway, Suite 1500
Denver CO, 80202

Project: Allard 30-8-5

Project Number: [none]
Project Manager: Alyssa Beard

Reported:
06/17/21 12:51

Notes and Definitions

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

Attachment B:
Monitoring Well Construction Logs



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Foundation Energy

LOGGED BY: B. Gabel

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: 3 Corners

DRILLING EQUIPMENT: Excavator

DRILL BIT SIZE (INCHES): N/A

DATE STARTED - COMPLETED: 5/17/2021

TOTAL BORING DEPTH (FT. BGS): 6

DEPTH TO WATER (FT. BGS): 3.5

Allard 30-8-5

BORING / WELL ID: MW01

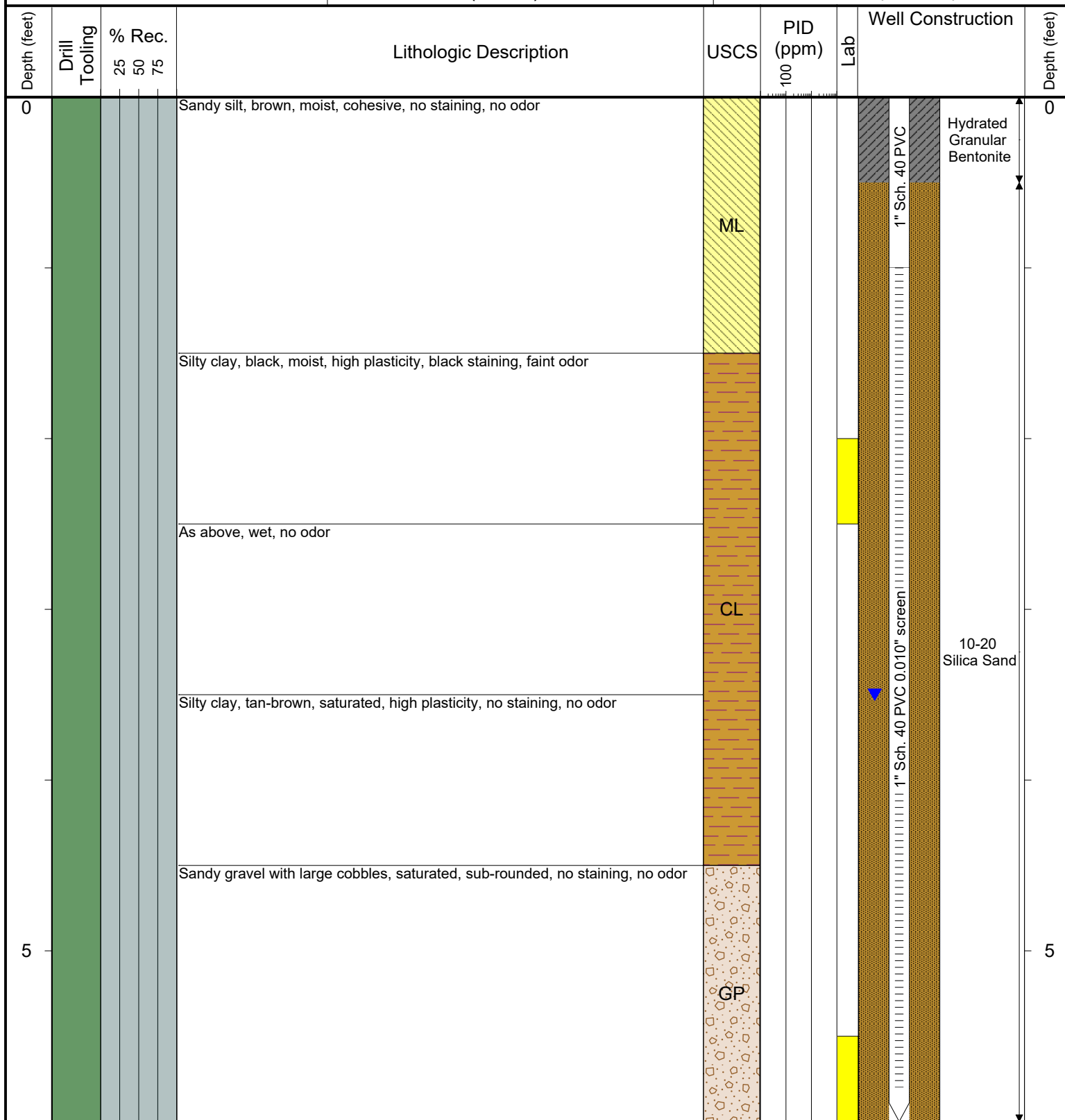
LOCATION: Jackson County, CO

LATITUDE (DEGREES): 40.810592521

LONGITUDE (DEGREES): -106.300075107

CASING ELEVATION (FT. AMSL): NM

GROUND ELEVATION (FT. AMSL): NM



Drilling / Sample Method:

Excavator bucket
CME Continuous Core

Hand Auger
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
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LOGGED BY: B. Gabel

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: 3 Corners

DRILLING EQUIPMENT: Excavator

DRILL BIT SIZE (INCHES): N/A

DATE STARTED - COMPLETED: 5/18/2021

TOTAL BORING DEPTH (FT. BGS): 6

DEPTH TO WATER (FT. BGS): 2.5

Allard 30-8-5

BORING / WELL ID: MW02

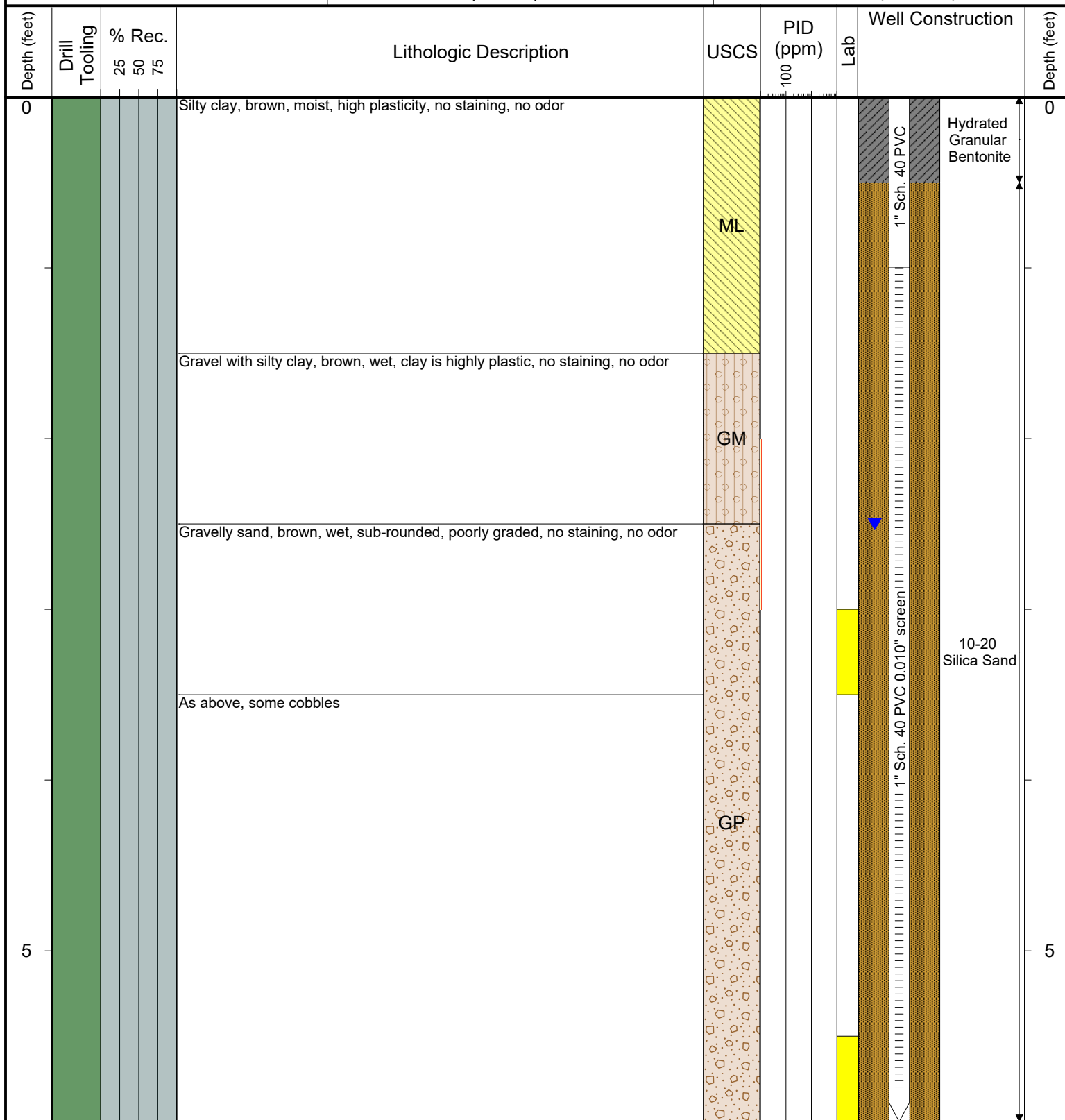
LOCATION: Jackson County, CO

LATITUDE (DEGREES): 40.810681722

LONGITUDE (DEGREES): -106.299701451

CASING ELEVATION (FT. AMSL): NM

GROUND ELEVATION (FT. AMSL): NM



Drilling / Sample Method:

Excavator bucket
CME Continuous Core

Hand Auger
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab
Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Foundation Energy

LOGGED BY: B. Gabel

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: 3 Corners

DRILLING EQUIPMENT: Excavator

DRILL BIT SIZE (INCHES): N/A

DATE STARTED - COMPLETED: 5/18/2021

TOTAL BORING DEPTH (FT. BGS): 8

DEPTH TO WATER (FT. BGS): 5

Allard 30-8-5

BORING / WELL ID: MW03

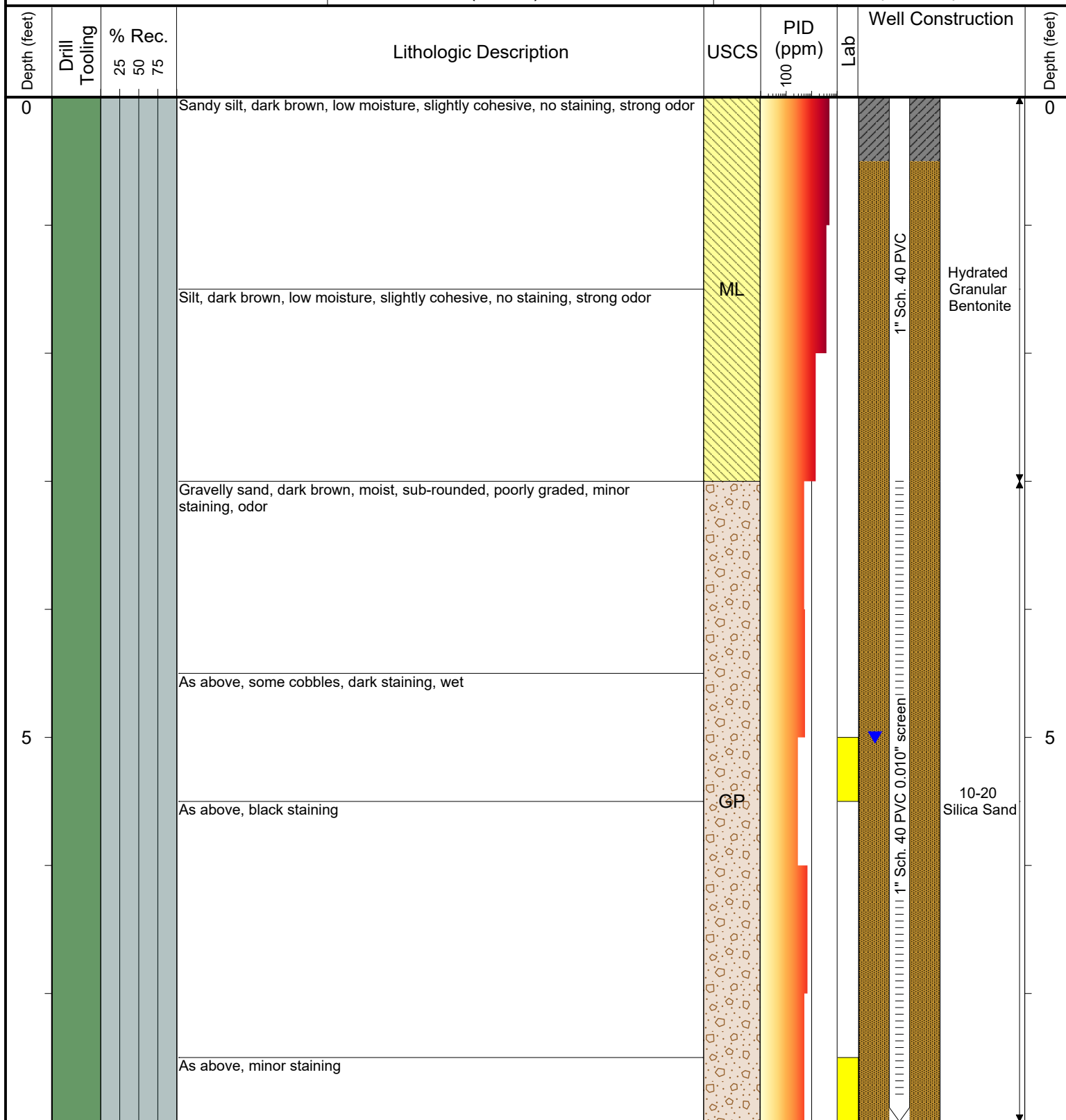
LOCATION: Jackson County, CO

LATITUDE (DEGREES): 40.810839622

LONGITUDE (DEGREES): -106.299959341

CASING ELEVATION (FT. AMSL): NM

GROUND ELEVATION (FT. AMSL): NM



Drilling / Sample Method:

Excavator bucket
CME Continuous Core

Hand Auger
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab
Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Foundation Energy

LOGGED BY: B. Gabel

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: 3 Corners

DRILLING EQUIPMENT: Excavator

DRILL BIT SIZE (INCHES): N/A

DATE STARTED - COMPLETED: 5/18/2021

TOTAL BORING DEPTH (FT. BGS): 6

DEPTH TO WATER (FT. BGS): 3

Allard 30-8-5

BORING / WELL ID: MW04

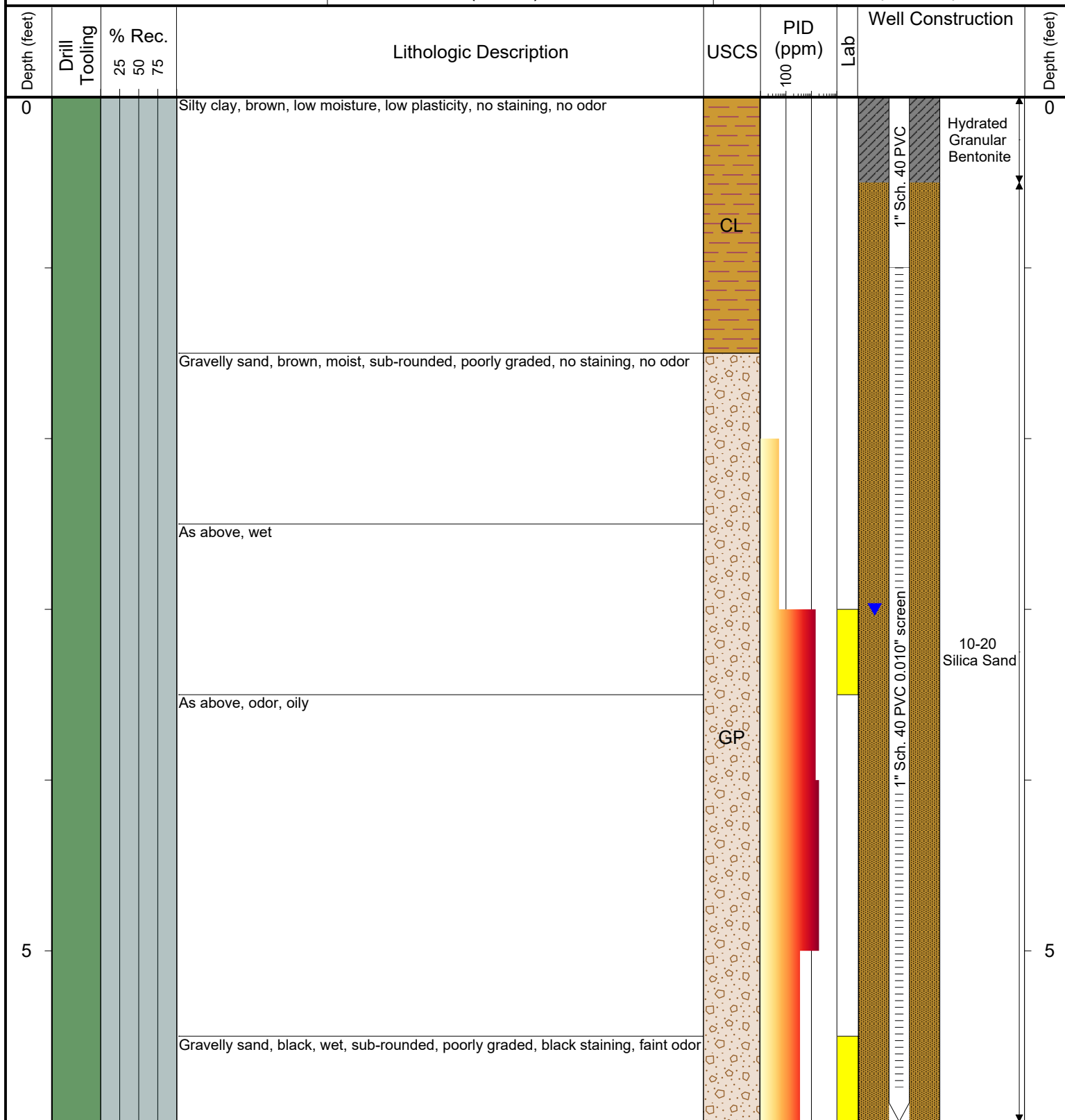
LOCATION: Jackson County, CO

LATITUDE (DEGREES): 40.810959791

LONGITUDE (DEGREES): -106.300103496

CASING ELEVATION (FT. AMSL): NM

GROUND ELEVATION (FT. AMSL): NM



Drilling / Sample Method:

Excavator bucket
CME Continuous Core

Hand Auger
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab
Geotechnical & Analytical Chemistry Lab



6899 Pecos Street, Unit C
Denver, Colorado 80221

CLIENT: Foundation Energy

LOGGED BY: B. Gabel

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: 3 Corners

DRILLING EQUIPMENT: Excavator

DRILL BIT SIZE (INCHES): N/A

DATE STARTED - COMPLETED: 5/18/2021

TOTAL BORING DEPTH (FT. BGS): 6

DEPTH TO WATER (FT. BGS): 3.5

Allard 30-8-5

BORING / WELL ID: MW05

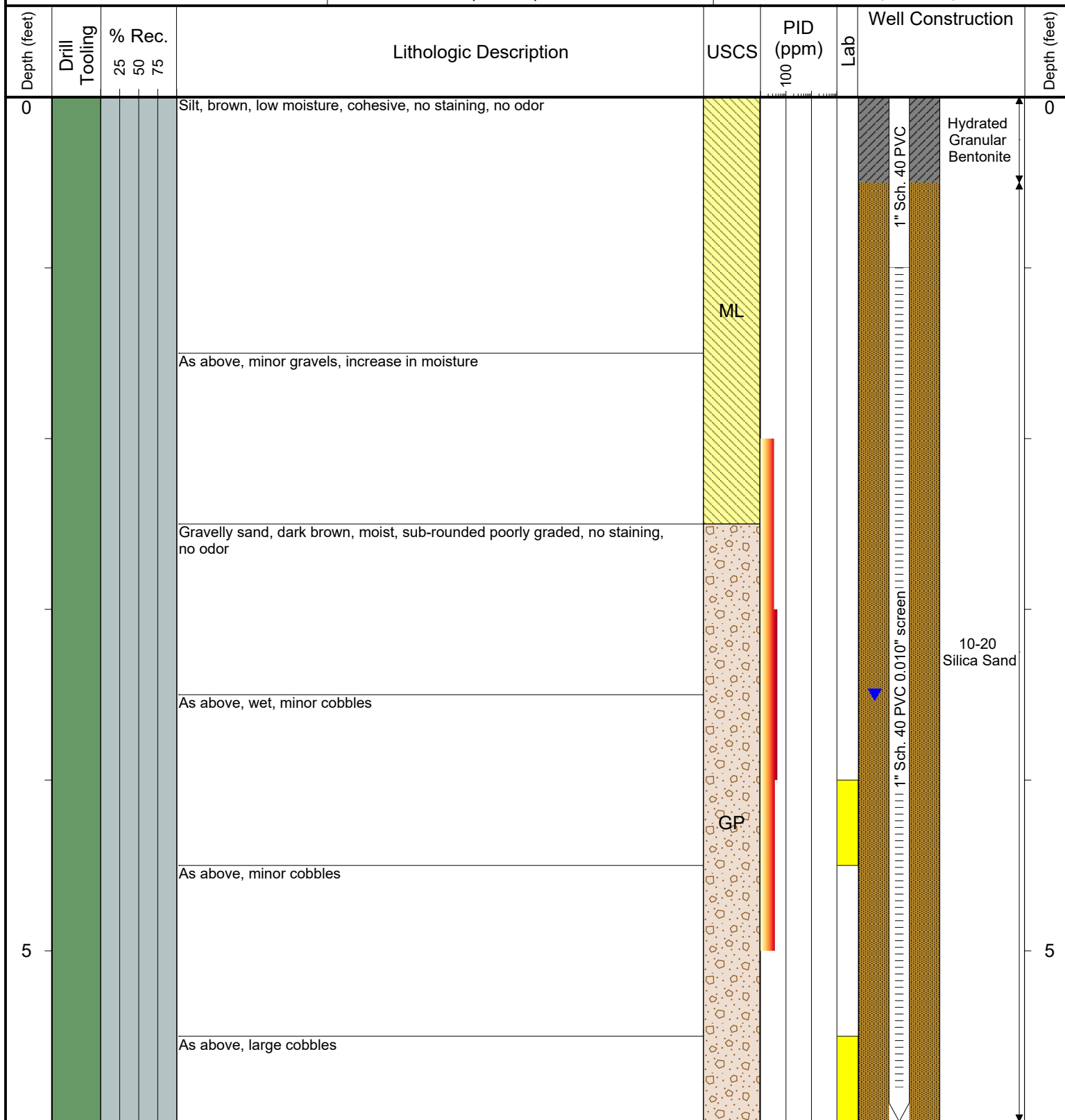
LOCATION: Jackson County, CO

LATITUDE (DEGREES): 40.810546488

LONGITUDE (DEGREES): -106.299793039

CASING ELEVATION (FT. AMSL): NM

GROUND ELEVATION (FT. AMSL): NM



Drilling / Sample Method:

Excavator bucket

CME Continuous Core

Hand Auger

Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab

Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



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Denver, Colorado 80221

CLIENT: Foundation Energy

LOGGED BY: B. Gabel

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: 3 Corners

DRILLING EQUIPMENT: Excavator

DRILL BIT SIZE (INCHES): N/A

DATE STARTED - COMPLETED: 5/19/2021

TOTAL BORING DEPTH (FT. BGS): 8

DEPTH TO WATER (FT. BGS): NM

Allard 30-8-5

BORING / WELL ID: MW06

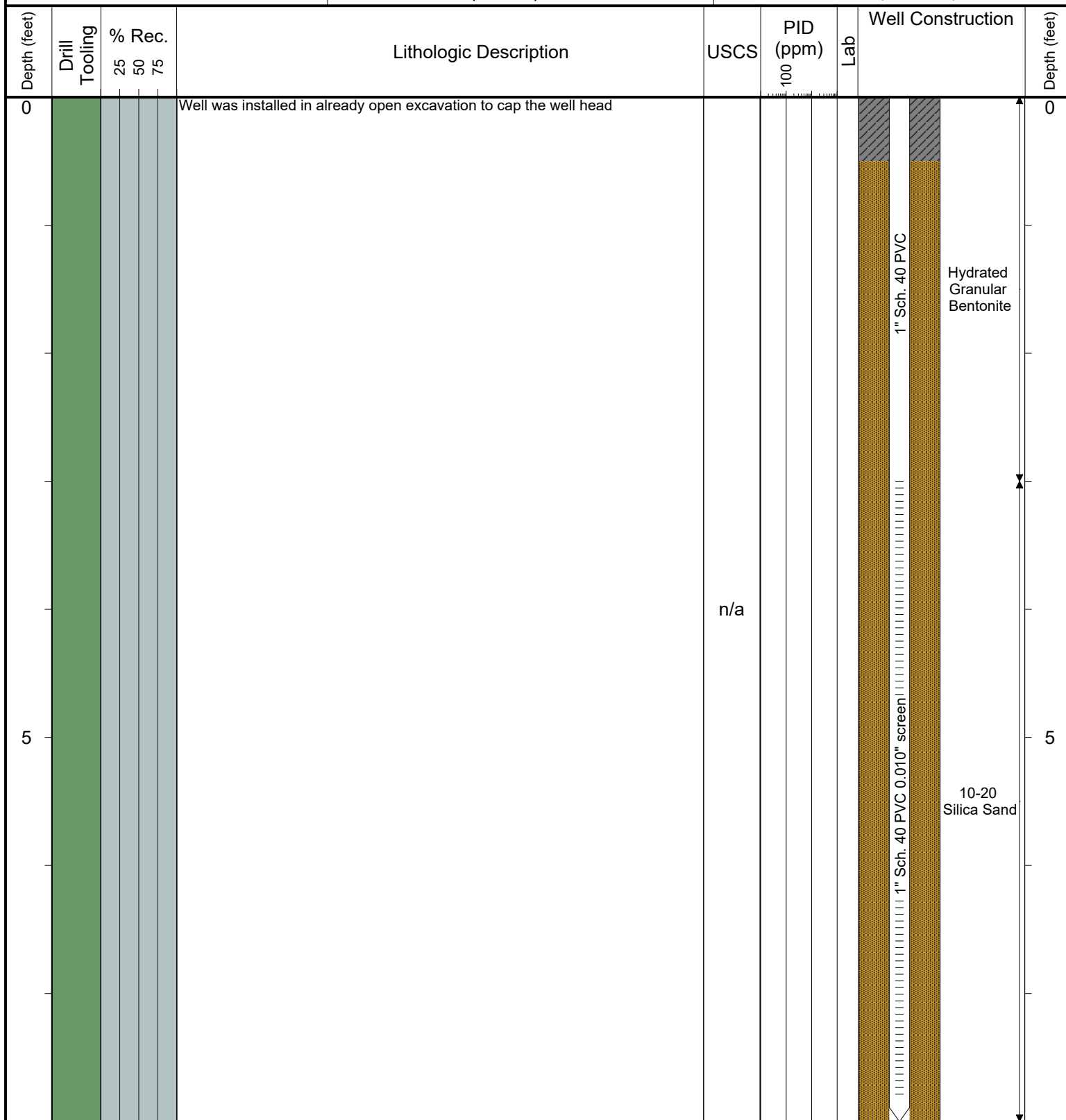
LOCATION: Jackson County, CO

LATITUDE (DEGREES): 40.8122342

LONGITUDE (DEGREES): -106.301764455

CASING ELEVATION (FT. AMSL): NM

GROUND ELEVATION (FT. AMSL): NM



Drilling / Sample Method:

Excavator bucket
CME Continuous Core

Hand Auger
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab
Geotechnical & Analytical Chemistry Lab



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Denver, Colorado 80221

CLIENT: Foundation Energy

LOGGED BY: B. Gabel

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: 3 Corners

DRILLING EQUIPMENT: Excavator

DRILL BIT SIZE (INCHES): N/A

DATE STARTED - COMPLETED: 5/19/2021

TOTAL BORING DEPTH (FT. BGS): 6

DEPTH TO WATER (FT. BGS): 3

Allard 30-8-5

BORING / WELL ID: MW07

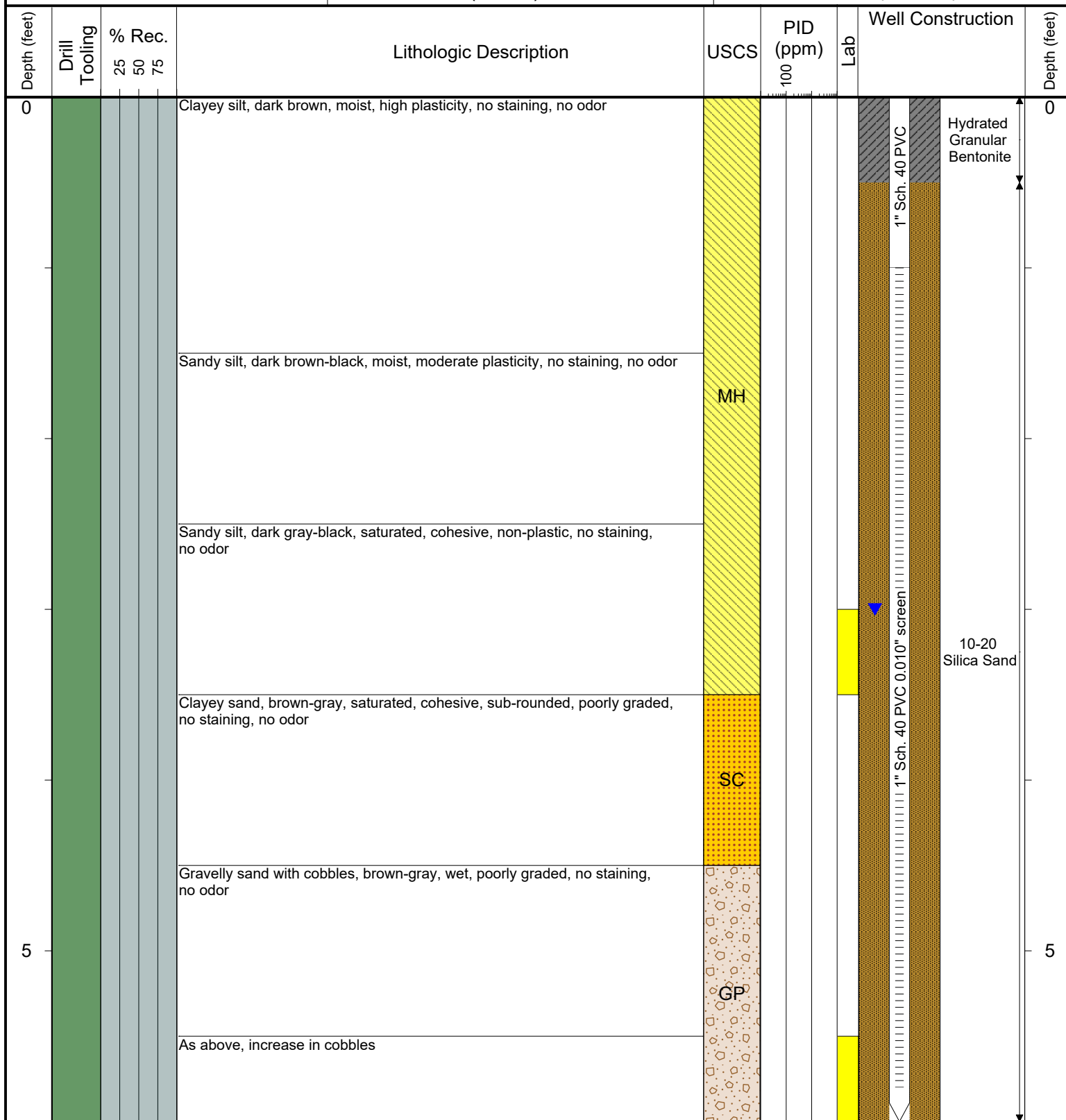
LOCATION: Jackson County, CO

LATITUDE (DEGREES): 40.812384606

LONGITUDE (DEGREES): -106.301983462

CASING ELEVATION (FT. AMSL): NM

GROUND ELEVATION (FT. AMSL): NM



Drilling / Sample Method:

Excavator bucket
CME Continuous Core

Hand Auger
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab
Geotechnical & Analytical Chemistry Lab



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Denver, Colorado 80221

CLIENT: Foundation Energy

LOGGED BY: B. Gabel

PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: 3 Corners

DRILLING EQUIPMENT: Excavator

DRILL BIT SIZE (INCHES): N/A

DATE STARTED - COMPLETED: 5/19/2021

TOTAL BORING DEPTH (FT. BGS): 6

DEPTH TO WATER (FT. BGS): 3

Allard 30-8-5

BORING / WELL ID: MW08

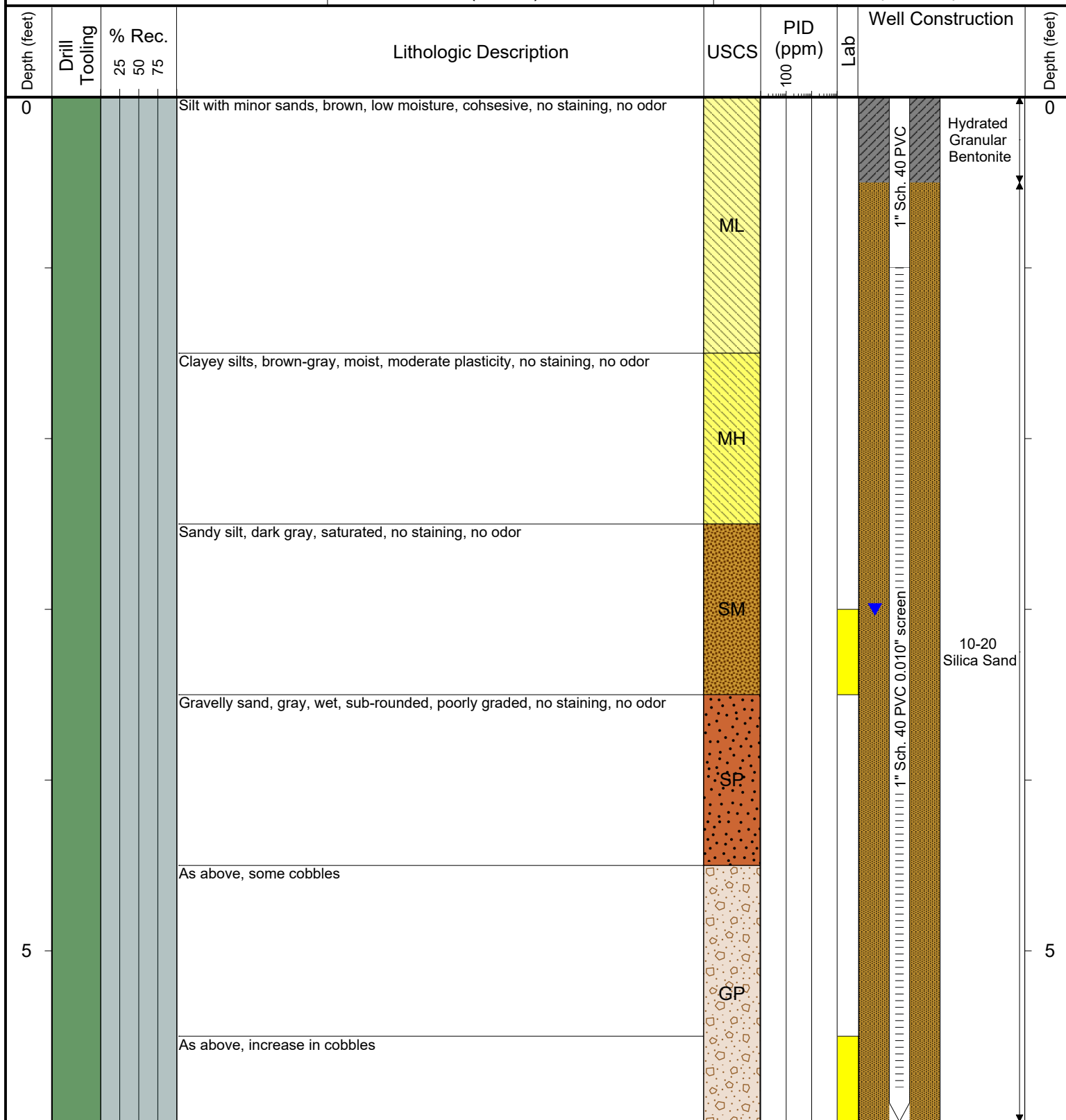
LOCATION: Jackson County, CO

LATITUDE (DEGREES): 40.812108391

LONGITUDE (DEGREES): -106.301896569

CASING ELEVATION (FT. AMSL): NM

GROUND ELEVATION (FT. AMSL): NM



Drilling / Sample Method:

Excavator bucket
CME Continuous Core

Hand Auger
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab

Geotechnical & Analytical Chemistry Lab



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PROJECT MANAGER: Jeb Watts

DRILLING CONTRACTOR: 3 Corners

DRILLING EQUIPMENT: Excavator

DRILL BIT SIZE (INCHES): N/A

DATE STARTED - COMPLETED: 5/19/2021

TOTAL BORING DEPTH (FT. BGS): 6

DEPTH TO WATER (FT. BGS): 3

Allard 30-8-5

BORING / WELL ID: MW09

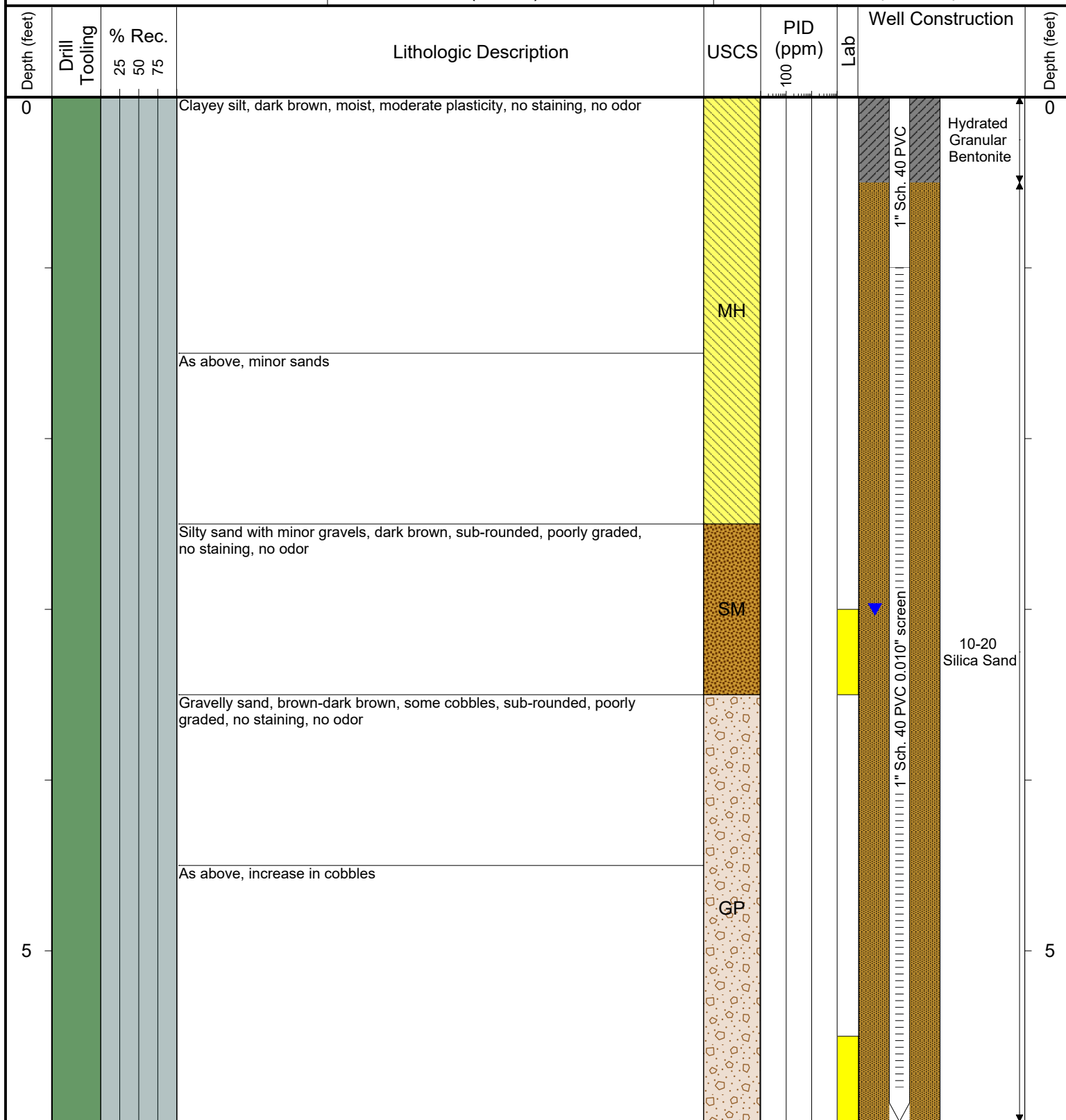
LOCATION: Jackson County, CO

LATITUDE (DEGREES): 40.812128106

LONGITUDE (DEGREES): -106.301686562

CASING ELEVATION (FT. AMSL): NM

GROUND ELEVATION (FT. AMSL): NM



Drilling / Sample Method:

Excavator bucket
CME Continuous Core

Hand Auger
Hollow Stem Auger

Laboratory Sample Types:

Geotechnical Lab
Analytical Chemistry Lab
Geotechnical & Analytical Chemistry Lab

Attachment C:
Allard 30-8-5 Photo Log



Allard South Former Battery and Treater Area facing southeast
5/24/2021



Monitoring Well at Allard South Former Battery and Treater Area
5/25/2021



Allard North Well Jack Area Excavation Pit facing southeast
5/26/21