

Gulley Off-Location Flowline Removal Project
Analytical Results Summary
PADCO LLC

Hydrocarbon Analysis Results

Sample Date	Sampled By	Soil Sample	Lab ID	Location	Sample Depth (inches)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylene (mg/kg)	1,2,4-Tri methyl benzene (mg/kg)	1,3,5-Tri methyl benzene (mg/kg)	Naphthalene (mg/kg)	pH
---	---	Table 915 ¹	---	---	---	---	---	---	500	0.0026	0.69	0.78	9..9	0.0081	0.0087	0.0038	6-8.3
5/9/2023	Lesair	G1-WHR	2305255-01	Riser at Well	~60"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.73
5/9/2023	Lesair	G1a	2305255-02	Steel to Fiberglass	~60"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.83
8/15/2023	Lesair	G1a1	2308364-01	Steel to Fiberglass	~66"	---	---	---	---	---	---	---	---	---	---	---	---
5/29/2023	Lesair	G1f ²	---	~250' Sample	~60"	ND	ND	ND	ND	---	---	---	---	---	---	---	---
5/9/2023	Lesair	G1b	2305255-03	Staining at Fiberglass Collar	~66"	ND	3,200	790	3,990	ND	ND	ND	ND	ND	ND	ND	7.36
5/9/2023	Lesair	G1b2 ³	2305253-05	Staining at FG Collar (G1b)	~96"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.73
5/9/2023	Lesair	G1b-SWn	2305253-01	Side wall on N side of ditch	~60"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/9/2023	Lesair	G1b-SWs	2305253-02	Side wall on S side of ditch	~60"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/9/2023	Lesair	G1b-DE	2305253-03	10' East of G1b2 in ditch	~80"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/9/2023	Lesair	G1b-DW	2305253-04	10' West of G1b2 in ditch	~72"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/9/2023	Lesair	G1c	2305255-04	Fiberglass to Steel	~72"	1.3	600	79	680	ND	ND	ND	ND	ND	ND	ND	7.97
5/9/2023	Lesair	G1c2 ⁴	2305254-04	Fiberglass to Steel (G1c)	~76"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.43
8/15/2023	Lesair	G1c5 ⁵	2308368-01	Fiberglass to Steel (G1c)	~79"	---	---	---	---	---	---	---	---	---	---	---	7.92
5/9/2023	Lesair	G1c-SWn	2305254-05	Side wall on N side of ditch	~47"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/9/2023	Lesair	G1c-SWs	2305254-01	Side wall on S side of ditch	~44"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/9/2023	Lesair	G1c-DE	2305254-02	10' East of G1c2 in ditch	~75"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/9/2023	Lesair	G1c-DW	2305254-03	10' West of G1c2 in ditch	~75"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/9/2023	Lesair	G1-TRTR	2305255-05	Riser at Treater	~66"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.85

- NOTES:** 1 - Values shown in red exceed Table 915-1 "Protection of Groundwater" Soil Screening Levels
2 - G1f sample point - Lesair performed a qualitative field sample analysis using a PID at ~250' (approximate mid-point of 475' flowline) with a resulting <5ppm voc reading.
3 - G1b sample point - Lesair obtained a closing sample (G1b2) from ~96" below ground surface (bgs) with a TPH reading of ND (non detect)
4 - G1c sample point - Lesair obtained a closing sample (G1c2) from ~76" bgs with a TPH reading of ND (non detect)
5 - G1c sample point - Lesair obtained a closing sample (G1c5) from ~79" bgs with a pH reading of 7.92

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Soil Suitability for Reclamation Results

Sample Date	Sampled By	Soil Sample	Lab ID	Location	Sample Depth (inches)	Sodium Adsorption Ratio (SAR)	Specific Conductance (EC) (mmhos/cm)	% Solids	Boron (mg/l)	pH
---	---	Table 915	---	---	---	<6	<4	---	2	6-8.3
5/9/2023	Lesair	G1-WHR	2305255-01	Riser at Well	~60"	5.06	3.72	87.8	0.75	7.73
5/9/2023	Lesair	G1a	2305255-02	Steel to Fiberglass	~60"	4.47	2.26	86.5	5.84 ⁶	7.83
8/15/2023	Lesair	G1a1 ⁷	2308364-01	Steel to Fiberglass	~66"	---	---	---	0.31	---
5/29/2023	Lesair	G1f	---	~250' Sample	~60"	---	---	---	---	---
5/9/2023	Lesair	G1b	2305255-03	Staining at Fiberglass Collar	~66"	2.99	2.28	86.4	0.42	7.36
5/9/2023	Lesair	G1b2	2305253-05	Staining at FG Collar (G1b)	~96"	3.13	1.17	87.7	0.32	7.73
5/9/2023	Lesair	G1b-SWn	2305253-01	Side wall on N side of ditch	~60"	---	---	---	---	---
5/9/2023	Lesair	G1b-SWs	2305253-02	Side wall on S side of ditch	~60"	---	---	---	---	---
5/9/2023	Lesair	G1b-DE	2305253-03	10' East of G1b2 in ditch	~80"	---	---	---	---	---
5/9/2023	Lesair	G1b-DW	2305253-04	10' West of G1b2 in ditch	~72"	---	---	---	---	---
5/9/2023	Lesair	G1c	2305255-04	Fiberglass to Steel	~72"	4.01	0.76	88.1	0.50	7.97
5/9/2023	Lesair	G1c2	2305254-05	Fiberglass to Steel (G1c)	~76"	1.21	0.39	87.6	0.47	8.43
8/15/2023	Lesair	G1c5 ⁸	2308368-01	Fiberglass to Steel (G1c)	~79"	---	---	---	---	7.92
5/9/2023	Lesair	G1c-SWn	2305254-01	Side wall on N side of ditch	~47"	---	---	---	---	---
5/9/2023	Lesair	G1c-SWs	2305254-02	Side wall on S side of ditch	~44"	---	---	---	---	---
5/9/2023	Lesair	G1c-DE	2305254-03	10' East of G1c2 in ditch	~75"	---	---	---	---	---
5/9/2023	Lesair	G1c-DW	2305254-04	10' West of G1c2 in ditch	~75"	---	---	---	---	---
5/9/2023	Lesair	G1-TRTR	2305255-05	Riser at Treater	~66"	5.62	1.67	85.0	0.47	7.85

NOTES: 6 - G1a sample point - The 5.84 mg/l Boron result for sample 2305255-02 is uncharacteristic and is not thought to be a result of oil & gas operations.
7 - G1a sample point - Lesair obtained a closing sample (G1a1) from ~66" bgl with a boron reading of 0.31 mg/l
8 - G1c sample point - Lesair obtained a closing sample (G1c5) from ~79" bgl with a pH reading of 7.92

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Metals Analysis Results

Sample Date	Sampled By	Soil Sample	Lab ID	Location	Sample Depth (inches)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (kg/mg)	Lead (kg/mg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	pH
---	---	Table 915 ⁹	---	---	---	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370	6-8.3
1/3/2024	Lesair	G1-WHR-M1 ¹⁰	2401055-01	Riser at well (G1-WHR)	~60"	3.54	132	0.266	ND	5.8	10.5	6.5	ND	0.047	21.7	---
1/3/2024	Lesair	G1a-M1 ¹⁰	2401055-02	Steel to Fiberglass (G1a)	~60"	4.28	176	0.291	ND	6.5	9.0	6.9	ND	0.050	22.5	---
1/3/2024	Lesair	G1b-M1 ¹⁰	2401055-03	Staining at Fbgls Collr (G1b)	~66"	3.66	156	0.272	ND	5.5	8.1	6.1	ND	0.047	18.8	---
1/3/2024	Lesair	G1c-M1 ¹⁰	2401055-04	Fiberglass to Steel (G1c)	~72"	4.09	227	0.288	ND	6.0	8.5	6.5	ND	0.038	21.0	---
8/15/2023	Lesair	G1c5	2308368-01	Fiberglass to Steel (G1c)	~79"	1.58	171	ND	ND	ND	8.8	2.3	ND	0.082	8.1	7.92
1/3/2024	Lesair	G1-TRTR-M1 ¹⁰	2401055-05	Riser at Treater (G1-TRTR)	~66"	6.27	230	0.314	ND	6.1	9.4	6.9	ND	0.050	22.4	---
2/8/2024	Lesair	GBKG1 ¹¹	2402187-01	50' South of Gulley FL	~60"	5.85	272	---	---	---	---	---	---	---	---	---
2/8/2024	Lesair	GYBKG3 ¹¹	2402188-01	50' South of Gulley FL	~70"	6.63	300	---	---	---	---	---	---	---	---	---
3/22/2023	Lesair	A (backgrd) ¹²	2303554-01	East of Gulley Site	~6"	3.34	133	0.256	---	---	---	---	0.88	---	---	7.66
7/28/2023	Lesair	WTB-BG ¹²	2307586-01	East of Gulley Site	~12"	0.87	103	ND	ND	ND	7.2	2.5	0.32	0.032	7.5	7.00

NOTES: 9 - Values shown in red exceed Table 915-1 "Protection of Groundwater" Soil Screening Levels
10 - G1-WHR, G1a, G1b, G1c, G1-TRTR sample points - Lesair obtained closing samples (G1-WHR-M1, G1a-M1, G1b-M1, G1c-M1, G1-TRTR-M1) from ~60-72" bgs with Metals values below 'Table 915-1 thresholds ("Protection of Groundwater" SSL), except for Arsenic and Barium. High Arsenic and Barium values are due to naturally high levels, as confirmed by background samples (GBKG1 and GYBKG3) which were obtained from similar depths (~60-70" bgs).
11 - GBKG1 and GYBKG3 Sample Point - Using approved background sample location (phone call and email on 01/30/2024) soil samples indicate naturally high Arsenic and Barium values from ~60-70" bgs.
12 - Background samples A and WTB-BG (~6-12" bgs) are located ~350' East of the Gulley flowline area. Analysis indicates native soil has high Arsenic, Barium, and Selenium values as compared to Table 915-1