

**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
---	---	<b>Table 915</b>	---	---	---	---	---	---	<b>500</b>	<b>1.2</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>30</b>	<b>27</b>	<b>2</b>	<b>6-8.3</b>
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	---	~250' Sample	~60"	ND	ND	ND	ND	---	---	---	---	---	---	---	---
5/9/2023	Lesair	G1b	2305255-03	Staining at Fiberglass Collar	~66"	ND	3,200	790	<b>3,990</b>	ND	ND	ND	ND	ND	ND	ND	7.36
5/9/2023	Lesair	G1b2	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	<b>680</b>	ND	ND	ND	ND	ND	ND	ND	7.97
5/9/2023	Lesair	G1c2	2305254-04	Fiberglass to Steel (G1c)	~76"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>8.43</b>
8/15/2023	Lesair	G1c5	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:** Values shown in red exceed Table 915-1 "Protection of Groundwater" Soil Screening Levels

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 void space reading.

G1b sample point - Lesair obtained a closing sample (G1b2) from ~96" bgl with a TPH reading of ND (non detect)

G1c sample point - Lesair obtained a closing sample (G1c2) from ~76" bgl with a TPH reading of ND (non detect)

G1c sample point - Lesair obtained a closing sample (G1c5) from ~79" bgl with a pH reading of 7.92

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PADCO LLC**

**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
---	---	<b>Table 915</b>	---	---	---	<6	<4	---	<b>2</b>	<b>6-8.3</b>
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	<b>5.84</b>	7.83
8/15/2023	Lesair	G1a1	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	<b>8.43</b>
8/15/2023	Lesair	G1c5	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:** 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.

G1a sample point - Lesair obtained a closing sample (G1a1) from ~66" bgl with a boron reading of 0.31 mg/l

G1c sample point - Lesair obtained a closing sample (G1c5) from ~79" bgl with a pH reading of 7.92

**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
---	---	<b>Table 915</b>	---	---	---	<b>0.29</b>	<b>82</b>	<b>0.38</b>	<b>0.00067</b>	<b>46</b>	<b>14</b>	<b>26</b>	<b>0.26</b>	<b>0.8</b>	<b>370</b>	<b>6-8.3</b>
8/15/2023	Erick	G1c5	2308368-01	Fiberglass to Steel (G1c)	~79"	<b>1.58</b>	<b>171</b>	ND	ND	ND	8.8	2.3	ND	0.082	8.1	7.92
3/22/2023	Lesair	A (backgrd)	2303554-01	East of Gulley Site	~6"	<b>3.34</b>	<b>133</b>	0.256	---	---	---	---	<b>0.88</b>	---	---	7.66
7/28/2023	Lesair	WTB-BG	2307586-01	East of Gulley Site	~12"	<b>0.87</b>	<b>103</b>	ND	ND	ND	7.2	2.5	<b>0.32</b>	0.032	7.5	7.00

**NOTES:** Background samples A and WTB-BG (located East of the Gulley flowline area) indicate native soil has high Arsenic, Barium, and Selenium composition.

Due to high background Arsenic and Barium concentrations, PADCO requests a NFA (no further action) regarding table 915 metals concentrations.