

Gulley Off-Location Flowline Removal Project
PADCO LLC
Analytical Results of Hydrocarbon and Produced Water Impacted Soil

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	---	---	---	---	---	---	500	1.2	490	5.8	58	30	27	2	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
5/31/2023	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	3,990	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	680	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	8.43
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: Lesair believes the 8.43 pH for sample 2305254-04 does not require further investigation and is requesting a NFA determination. Lesair performed a field sample analysis using a FID at ~250' (approximate mid-point of 475' flowline) with a resulting 0 reading.

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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	7.83
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	Pending	Staining at FG Collar (G1b)	~96"	3.13	1.17	87.7	0.32	7.73
5/9/2023	Lesair	G1b-SWn	Pending	Side wall on N side of ditch	~60"	---	---	---	---	---
5/9/2023	Lesair	G1b-SWs	Pending	Side wall on S side of ditch	~60"	---	---	---	---	---
5/9/2023	Lesair	G1b-DE	Pending	10' East of G1b2 in ditch	~80"	---	---	---	---	---
5/9/2023	Lesair	G1b-DW	Pending	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
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. Lesair believes this warrants NFA.

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	---	---	---	0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000	6-8.3