

**Rhoades Unit 5-4
Analytical Results Summary
Williford Energy Company**

Hydrocarbon and Organic Compounds in Soils (using Groundwater Soil Screening Level Concentrations)

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)
---	---	Table 915	---	---	---	---	---	---	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
3/8/2025	Lesair	RU54-1a	2503133-01	~30' W of WH	~10"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/8/2025	Lesair	RU54-2a	2503133-02	Wellhead	~24"	ND	680	200	880	ND	ND	ND	ND	0.0140	0.0065	0.015
6/11/2025	Lesair	2C-a	2506033-01	Wellhead	~36"	2	1,400	240	1,642	ND	0.01	ND	0.02	0.2700	0.0960	ND
7/29/2025	Lesair	2C-b	2507063-05	Wellhead	~42"	ND	110	ND	110	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	2N-a	2506033-02	Wellhead	~36"	5	1,500	270	1,775	ND	ND	ND	ND	ND	ND	0.023
7/29/2025	Lesair	2N-b	2507063-01	Wellhead	~42"	ND	440	690	1,130	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	2S-a	2506033-05	Wellhead	~24"	1	860	270	1,131	ND	0.01	ND	0.015	0.0740	0.0290	0.160
7/29/2025	Lesair	2S-b	2507063-02	Wellhead	~42"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	2E-a	2506033-03	Wellhead	~36"	780	4,100	180	5,060	ND	19.00	ND	ND	99.00	39.00	21.00
7/29/2025	Lesair	2E-b	2507063-03	Wellhead	~42"	8	850	ND	858	ND	ND	ND	ND	0.6500	0.5400	0.0810
6/11/2025	Lesair	2W-a	2506033-04	Wellhead	~36"	1	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
7/29/2025	Lesair	2W-b	2507063-04	Wellhead	~42"	ND	ND	2	2	ND	ND	ND	ND	0.0084	ND	0.0130
3/8/2025	Lesair	RU54-3a	2503133-03	~30' S of WH	~8"	ND	620	140	760	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	3C-a	2506039-01	~30' S of WH	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	3N-a	2506039-02	~30' S of WH	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	3S-a	2506039-04	~30' S of WH	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	3E-a	2506039-03	~30' S of WH	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	3W-a	2506039-05	~30' S of WH	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/8/2025	Lesair	RU54-4a	2503133-04	~30' N of WH	~12"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/29/2025	Lesair	RU54 L1	2507065-01	~45 S of WH	~0-3"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES: Values in "RED" are above the ECMC thresholds for Table 915 compliance.

**Rhoades Unit 5-4
Analytical Results Summary
Williford Energy Company**

Organic Compounds in Soils (using Groundwater Soil Screening Level Concentrations)

Sample Date	Sampled By	Soil Sample	Lab ID	Location	Sample Depth (inches)	Acenaphtane (mg/kg)	Anthracene (mg/kg)	Benzo(a) anthracene (mg/kg)	Benzo(a) pyrene (mg/kg)	Benzo(b) fluoranthene (mg/kg)	Benzo(k) fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	Pyrene (mg/kg)	1-methyl naphthalene (mg/kg)	2-methyl naphthalene (mg/kg)
---	---	Table 915	---	---	---	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
3/8/2025	Lesair	RU54-1a	2503133-01	~30' W of WH	~10"	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3/8/2025	Lesair	RU54-2a	2503133-02	Wellhead	~24"	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6/11/2025	Lesair	2C-a	2506033-01	Wellhead	~36"	0.063	ND	ND	ND	ND	ND	ND	ND	0.026	0.148	ND	ND	1.110	1.650
7/29/2025	Lesair	2C-b	2507063-05	Wellhead	~42"	ND	ND	0.0200	ND	ND	ND	0.0167	ND	ND	ND	ND	0.0117	ND	ND
6/11/2025	Lesair	2N-a	2506033-02	Wellhead	~36"	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	ND	ND	0.064	0.019
7/29/2025	Lesair	2N-b	2507063-01	Wellhead	~42"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	2S-a	2506033-05	Wellhead	~24"	ND	ND	ND	ND	ND	ND	ND	ND	0.008	0.070	ND	ND	0.336	0.197
7/29/2025	Lesair	2S-b	2507063-02	Wellhead	~42"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	2E-a	2506033-03	Wellhead	~36"	0.076	ND	0.080	ND	ND	ND	0.059	ND	0.044	0.085	ND	0.172	2.470	1.240
7/29/2025	Lesair	2E-b	2507063-03	Wellhead	~42"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.150	1.130
6/11/2025	Lesair	2W-a	2506033-04	Wellhead	~36"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/29/2025	Lesair	2W-b	2507063-04	Wellhead	~42"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/8/2025	Lesair	RU54-3a	2503133-03	~30' S of WH	~8"	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6/11/2025	Lesair	3C-a	2506039-01	~30' S of WH	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	3N-a	2506039-02	~30' S of WH	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	3S-a	2506039-04	~30' S of WH	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	3E-a	2506039-03	~30' S of WH	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6/11/2025	Lesair	3W-a	2506039-05	~30' S of WH	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3/8/2025	Lesair	RU54-4a	2503133-04	~30' N of WH	~12"	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7/29/2025	Lesair	RU54 L1	2507065-01	~45 S of WH	~0-3"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0166	0.0223

NOTES: Values in "RED" are above the ECMC thresholds for Table 915 compliance.

**Rhoades Unit 5-4
Analytical Results Summary
Williford Energy Company**

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
3/8/2025	Lesair	RU54-1a	2503133-01	~30' W of WH	~10"	2.43	0.75	87.7	ND	6.99
3/8/2025	Lesair	RU54-2a	2503133-02	Wellhead	~24"	8.73	2.87	86.7	ND	8.22
6/11/2025	Lesair	2C-a	2506033-01	Wellhead	~36"	0.47	2.41	87.7	ND	8.81
7/29/2025	Lesair	2C-b	2507063-05	Wellhead	~42"	---	---	94.7	---	8.84
6/11/2025	Lesair	2N-a	2506033-02	Wellhead	~36"	13.10	1.92	92.6	ND	8.58
7/29/2025	Lesair	2N-b	2507063-01	Wellhead	~42"	---	---	88.2	---	8.88
6/11/2025	Lesair	2S-a	2506033-05	Wellhead	~24"	3.44	2.23	91.0	ND	8.21
7/29/2025	Lesair	2S-b	2507063-02	Wellhead	~42"	---	---	93.6	---	8.98
6/11/2025	Lesair	2E-a	2506033-03	Wellhead	~36"	0.91	0.34	89.3	ND	7.82
7/29/2025	Lesair	2E-b	2507063-03	Wellhead	~42"	---	---	91.5	---	8.43
6/11/2025	Lesair	2W-a	2506033-04	Wellhead	~36"	9.20	2.03	92.2	ND	8.74
7/29/2025	Lesair	2W-b	2507063-04	Wellhead	~42"	---	---	93.1	---	8.46
3/8/2025	Lesair	RU54-3a	2503133-03	~30' S of WH	~8"	1.85	2.00	96.7	ND	6.86
6/11/2025	Lesair	3C-a	2506039-01	~30' S of WH	~18"	0.04	2.42	88.2	ND	7.86
6/11/2025	Lesair	3N-a	2506039-02	~30' S of WH	~18"	2.14	2.12	86.9	ND	7.84
6/11/2025	Lesair	3S-a	2506039-04	~30' S of WH	~18"	2.37	2.53	90.9	ND	7.28
6/11/2025	Lesair	3E-a	2506039-03	~30' S of WH	~18"	1.98	3.28	87.7	ND	7.56
6/11/2025	Lesair	3W-a	2506039-05	~30' S of WH	~18"	2.76	2.11	90.7	ND	7.91
3/8/2025	Lesair	RU54-4a	2503133-04	~30' N of WH	~12"	0.57	0.60	92.6	ND	6.95
7/29/2025	Lesair	RU54 L1	2507065-01	~45 S of WH	~0-3"	0.91	1.86	99.2	ND	6.59
6/11/2025	Lesair	BGD-1	2506033-06	~90' S of Wellhead	~12"	0.03	0.20	91.7	ND	6.94
6/11/2025	Lesair	BGD-2	2506033-07	~90' S of Wellhead	~36"	0.02	0.50	83.3	ND	8.03

NOTES: Values in "RED" are above the ECMC thresholds for Table 915 compliance. Yellow shaded boxes have analytical results "pending".

**Rhoades Unit 5-4
Analytical Results Summary
Williford Energy Company**

Metals in Soils (using Groundwater Soil Screening Level Concentrations)

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)
---	---	Table 915	---	---	---	0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
6/11/2025	Lesair	2C-a	2506033-01	Wellhead	~36"	44.90	110	2.40	ND	47	28	48	4.600	2.160	65.2
7/29/2025	Lesair	2C-b	2507063-05	Wellhead	~42"	---	---	---	---	---	---	---	---	---	---
7/29/2025	Lesair	2N-b	2507063-01	Wellhead	~42"	---	---	---	---	---	---	---	---	---	---
7/29/2025	Lesair	2S-b	2507063-02	Wellhead	~42"	---	---	---	---	---	---	---	---	---	---
7/29/2025	Lesair	2E-b	2507063-03	Wellhead	~42"	---	---	---	---	---	---	---	---	---	---
7/29/2025	Lesair	2W-b	2507063-04	Wellhead	~42"	---	---	---	---	---	---	---	---	---	---
6/11/2025	Lesair	3C-a	2506039-01	~30' S of WH	~18"	3.32	201	0.21	ND	6	8	8	ND	0.030	28.4
6/11/2025	Lesair	3N-a	2506039-02	~30' S of WH	~18"	2.79	203	ND	ND	4	5	6	ND	0.024	18.1
6/11/2025	Lesair	3S-a	2506039-04	~30' S of WH	~18"	3.64	112	ND	ND	6	7	7	ND	0.042	22.1
6/11/2025	Lesair	3E-a	2506039-03	~30' S of WH	~18"	3.96	162	0.23	ND	6	8	8	ND	0.040	27.1
6/11/2025	Lesair	3W-a	2506039-05	~30' S of WH	~18"	2.64	129	ND	ND	5	5	6	ND	0.021	21.4
7/29/2025	Lesair	RU54 L1	2507065-01	~45 S of WH	~0-3"	2.08	59	ND	ND	6	5	5	ND	0.025	18.2
6/11/2025	Lesair	BGD-1	2506033-06	~90' S of Wellhead	~12"	1.77	76	ND	ND	4.9	4.9	4.9	ND	ND	20.5
6/11/2025	Lesair	BGD-2	2506033-07	~90' S of Wellhead	~36"	4.36	182	0.24	ND	8.0	9.4	9.6	ND	0.049	32.3

NOTES: Values in "RED" are above the ECMC thresholds for Table 915 compliance. Yellow shaded boxes have analytical results "pending".