ATTACHMENT C

Venrick #1A Well Site - March 2023 Spill
Analytical Results Summary
PADCO LLC

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-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	Naph-thalene (mg/kg)	pH
---	---	**Table 915**	---	---	---	---	---	---	**500**	**0.0026**	**0.69**	**0.78**	**9.9**	**0.0081**	**0.0087**	**0.0038**	**6-8.3**
3/22/2023	Lesair	V1	2303552-01	Initial Spill Sample	~3"	1,000	19,000	3,700	23,700	ND	ND	ND	1.2	6.7	4.0	1.3	7.58
4/17/2023	Lesair	V1-6"	2304363-01	East of PU (2nd sample at pt. V1)	~6"	ND	180	ND	180	ND	ND	ND	ND	ND	ND	ND	8.21
4/21/2023	Lesair	V1A-E	2304486-01	East of PU	~4"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.03
4/17/2023	Lesair	V1-W	2304363-03	West of PU	~4"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.45
4/21/2023	Lesair	V1A-W	2304486-02	West of PU	~6"	ND	260	68	328	ND	ND	ND	ND	ND	ND	ND	7.45
4/17/2023	Lesair	V1-S	2304363-02	South of PU	~4"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.47
4/21/2023	Lesair	V1A-N	2304486-03	North of PU	~6"	ND	1,300	350	1,650	ND	ND	ND	ND	ND	ND	ND	7.70
5/3/2023	Lesair	V1A-Na	2305068-05	N side of PU	~66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/3/2023	Lesair	V1A-Nn	2305068-01	N side of PU	~61"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/3/2023	Lesair	V1A-Ns	2305068-02	N side of PU	~66"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/3/2023	Lesair	V1A-Ne	2305068-03	N side of PU	~43"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/3/2023	Lesair	V1A-Nw	2305068-04	N side of PU	~64"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/3/2023	Lesair	V1A-SWnn	2305067-01	North Sidewall	~18"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
5/3/2023	Lesair	V1A-SWn	2305066-01	North Sidewall	~40"	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
4/21/2023	Lesair	Pile V1	2304487-01	Waste Soil Pile #2	~12"	24	1,100	190	1,314	ND	ND	ND	ND	ND	0.0260	ND	---

NOTES: Sample V1-6" and V1A-E, V1-W, V1A-W, V1-S provide confirmation that soil impacted by the spill has been cleaned up to meet Table 915-1 thresholds.
Samples V1A-Na, Nn, Ns, Ne, Nw, SWn, SWnn are confirmation samples for sample V1A-N, indicating that soils on the North side of the pumping unit were delineated and meet Table 915-1 thresholds.
Sample V1A-W provides confirmation that soils on the West side of the pumping unit meet the Table 915-1 threshold for pH.
Waste soil piile #2, based on analysis results of sample "Pile V1", will be hauled to an offsite disposal facility (Pawnee Waste)
PU = Pumping Unit

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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**
3/22/2023	Lesair	V1	2303552-01	Initial Spill Sample	~3"	4.30	1.04	73.8	0.91	7.58
4/17/2023	Lesair	V1-6"	2304363-01	2nd Sample (V1)	~6"	1.87	0.84	86.0	0.66	8.21
4/21/2023	Lesair	V1A-E	2304486-01	East of PU	~4"	0.95	0.38	86.3	0.42	8.03
4/17/2023	Lesair	V1-W	2304363-03	West of PU	~4"	0.54	0.68	86.0	0.31	8.45
4/21/2023	Lesair	V1A-W	2304486-02	West of PU	~6"	1.23	0.50	85.2	0.40	7.45
4/17/2023	Lesair	V1-S	2304363-02	South of PU	~4"	1.27	0.55	86.5	0.22	7.47
4/21/2023	Lesair	V1A-N	2304486-03	North of PU	~6"	1.01	0.58	85.0	0.80	7.70
4/8/2024	Lesair	V1A-Na	2404130-06	N side of PU	~66	0.05	0.10	84.0	ND	---
4/8/2024	Lesair	V1A-Nn	2404130-07	N side of PU	~61"	0.06	0.10	87.6	ND	---
4/8/2024	Lesair	V1A-Ns	2404130-08	N side of PU	~66"	0.07	0.12	84.1	ND	---
4/8/2024	Lesair	V1A-Ne	2404130-09	N side of PU	~43"	0.09	0.13	84.3	ND	---
4/8/2024	Lesair	V1A-Nw	2404130-10	N side of PU	~64"	0.08	0.13	90.1	ND	---
4/21/2023	Lesair	Pile V1	2304487-01	Waste Soil Pile #2	~12"	1.98	0.67	79.4	1.84	7.59

NOTES: Sample V1A-W confirms the soils on the West side of the pumping unit meet the Table 915 threshold for pH

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Analytical Results Summary
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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)	pH
---	---	**Table 915**	---	---	---	**0.29**	**82**	**0.38**	**0.00067**	**46**	**14**	**26**	**0.26**	**0.8**	**370**	**6-8.3**
3/22/2023	Lesair	V1	2303552-01	Initial Spill Sample	~3"	2.87	117	0.24	ND	8.9	10.9	8.5	0.570	0.060	34.3	7.58
4/8/2024	Lesair	V1-6"	2404130-01	2nd Sample (V1)	~6"	2.07	137	0.32	ND	9.0	10.0	9.5	ND	0.037	36.8	---
4/8/2024	Lesair	V1-E	2404130-02	East of PU	~4"	1.70	120	0.28	ND	6.8	8.2	8.9	ND	0.030	31.7	---
4/8/2024	Lesair	V1-S	2404130-03	South of PU	~4"	1.95	119	0.28	ND	8.2	9.3	8.8	ND	0.040	33.0	---
4/8/2024	Lesair	V1-W	2404130-04	West of PU	~4"	2.22	128	0.21	ND	6.5	6.7	7.5	ND	0.035	24.2	---
4/8/2024	Lesair	V1A-W	2404130-05	West of PU	~6"	1.99	130	0.29	ND	9.6	9.7	11.7	ND	0.111	34.0	---
4/8/2024	Lesair	V1A-Na	2404130-06	N side of PU	~66	2.40	203	0.29	ND	7.6	8.1	9.0	ND	0.048	32.2	---
4/8/2024	Lesair	V1A-Nn	2404130-07	N side of PU	~61"	2.16	131	0.24	ND	5.8	6.5	7.3	ND	0.032	25.1	---
4/8/2024	Lesair	V1A-Ns	2404130-08	N side of PU	~66"	2.58	211	0.32	ND	7.7	8.1	9.1	ND	0.046	31.1	---
4/8/2024	Lesair	V1A-Ne	2404130-09	N side of PU	~43"	2.72	213	0.32	ND	8.0	8.4	9.5	ND	0.051	32.1	---
4/8/2024	Lesair	V1A-Nw	2404130-10	N side of PU	~64"	2.06	95	0.21	ND	5.0	5.7	6.1	ND	0.026	22.3	---
3/3/2021	Lesair	VB	2103099-01	SE of Venrick #1A	~6"	4.74	150	---	---	---	---	---	0.836	---	---	8.27
7/28/2023	Lesair	VBG	2307585-01	N of Venrick #1A	~6"	1.42	183	0.29	---	2.6	8.5	ND	ND	0.107	7.9	---
7/20/2024	Lesair	V-BG-60	2407291-01	N of Venrick #1A	~60"	2.84	190	0.35	ND	5.5	8.5	6.2	ND	0.056	21.0	---

NOTES: Sample VB is a background sample taken 03/03/2021 Southeast of the Venrick #1A well site.
Sample VBG is a background sample taken 07/28/2023 North of the Venrick #1A well site.
Arsenic, Barium, and Selenium levels greater than Table 915 Groundwater SSL thresholds are attributed to high background levels of these compounds, as shown in background samples VB, VBG, and V-BG-60
Sample V-BG-60 has a Barium level of 1901 mg/kg, using the ECMC protocol of a 1.25 multiplier a Barium value of 237.5 mg/kg could be used.This indicates the Barium values are associated with natural background levels.