

**Table 1**  
**CECMC Rule 915 Soil Analysis - Inorganics**  
Chaco Energy Company - Kindt 1  
CECMC Project #: 24530

Sample ID	Depth	Sample Date	Location Description	EC <sup>1</sup>	SAR <sup>1</sup>	pH <sup>1</sup>	Boron <sup>2</sup>
	ft bgs			mmhos/cm	ratio		mg/L
CECMC Table 915-1 Clean Up Concentrations				< 4	< 6	6-8.3	2
Tank 01 @ 3'	3	8/31/2023	Former Tank Location	0.416	0.111	8.08	0.189
Sep 01 @ 3'	3	8/31/2023	Former Separator Location	0.880	3.71	8.58	3.53
BKG 01 @ 2'	2	8/31/2023	West Background	0.338	0.299	8.13	0.310
WH 01 @ 2'	2	8/31/2023	Well Head	0.867	0.877	7.71	0.210
BKG 02 @ 2'	2	8/31/2023	East Background	0.265	0.218	8.08	0.227
PWC 01 @ 2'	2	8/31/2023	Produced Water Pit Center	2.66	5.52	9.88	25.6
PWN 01 @ 1'	1	8/31/2023	Produced Water Pit North	5.12	10.1	7.29	3.26
PWW 01 @ 1'	1	8/31/2023	Produced Water Pit West	4.93	4.76	7.35	0.618
PWE 01 @ 2'	2	8/31/2023	Produced Water Pit East	4.59	3.08	7.05	0.562
PWS 01 @ 3'	3	8/31/2023	Produced Water Pit South	6.52	2.08	6.95	0.240
BKB 03 @ 2'	2	8/31/2023	South Background	8.69	2.79	7.05	0.157
PWC02 @ 2'	2	5/28/2024	North Center Pit	9.31	113.465	9.52	15.555
Berm NW @ 2'	2	5/28/2024	NW Berm Corner	4.42	3.351	7.63	0.549
Berm SW @ 2'	2	5/28/2024	SW Berm Corner	10.41	1.786	7.53	0.164
Berm SE @ 2'	2	5/28/2024	SE Berm Corner	6.69	3.478	7.57	0.508
Berm NE @ 2'	2	5/28/2024	NE Berm Corner	17.78	19.024	7.72	25.393
Sep 01 @ 4'	4	5/28/2024	Former Separator Location	0.304	0.818	8.79	0.412
BKG05 @ 2'	2	5/28/2024	N Background	0.371	0.592	8.52	0.536
BKD 06 @ 2'	2	5/28/2024	NW Background	0.794	4.241	8.69	0.598
PWC03 @ 3'	3	5/28/2024	East Pit Center	6.61	85.578	9.94	5.940
PWC04 @ 3'	3	5/28/2024	South Pit Center	10.88	268.181	9.45	49.715
PWC 05 @ 2'	2	5/28/2024	West Pit Center	9.23	90.731	9.15	23.469
PWC01 @ 3'	3	5/28/2024	Center Pit Sample	3.29	53.252	9.69	18.786

Concentrations exceeding the CECMC Table 915-1 allowable concentrations are expressed in **bold** type face

<sup>1</sup> By Saturated Paste Method

<sup>2</sup> Hot Water Soluble Soil Extract

EC = Electrical Conductivity

SAR = Sodium Adsorption Ratio

ft bgs - Feet below ground surface

mmhos/cm - Millimhos per centimeter

mg/L - Milligrams per liter

NA - Not Analyzed

CECMC - Colorado Energy and Carbon Management Commission



**Table 2**  
**CECMC Rule 915 Soil Analysis - Organics**

Chaco Energy Company - Kindt 1

CECMC Project #: 24530

Sample ID	Depth	Sample Date	Location Description	PID	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB	TPH
	ft bgs			ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CECMC Table 915-1 Residential Soil Screening Level Concentrations					1.2	490	5.8	58	2	30	27	500
Tank 01 @ 3'	3	8/31/2023	Former Tank Location	11.5	ND	ND	ND	ND	ND	ND	ND	ND
Sep 01 @ 3'	3	8/31/2023	Former Separator Location	8.7	ND	ND	ND	ND	ND	ND	ND	ND
BKG 01 @ 2'	2	8/31/2023	West Background	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH 01 @ 2'	2	8/31/2023	Well Head	6.4	ND	ND	ND	ND	ND	ND	ND	ND
BKG 02 @ 2'	2	8/31/2023	East Background	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWC 01 @ 2'	2	8/31/2023	Produced Water Pit Center	3.3	ND	ND	ND	ND	ND	ND	ND	ND
PWN 01 @ 1'	1	8/31/2023	Produced Water Pit North	1.9	ND	ND	ND	ND	ND	ND	ND	ND
PWW 01 @ 1'	1	8/31/2023	Produced Water Pit West	4.1	ND	ND	ND	ND	ND	ND	ND	ND
PWE 01 @ 2'	2	8/31/2023	Produced Water Pit East	4	ND	ND	ND	ND	ND	ND	ND	ND
PWS 01 @ 3'	3	8/31/2023	Produced Water Pit South	5.5	ND	ND	ND	ND	ND	ND	ND	ND
BKB 03 @ 2'	2	8/31/2023	South Background	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWC02 @ 2'	2	5/28/2024	North Center Pit	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm NW @ 2'	2	5/28/2024	NW Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm SW @ 2'	2	5/28/2024	SW Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm SE @ 2'	2	5/28/2024	SE Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm NE @ 2'	2	5/28/2024	NE Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep 01 @ 4'	4	5/28/2024	Former Separator Location	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG05 @ 2'	2	5/28/2024	N Background	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKD 06 @ 2'	2	5/28/2024	NW Background	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWC03 @ 3'	3	5/28/2024	East Pit Center	73.3	ND	ND	<0.005	<0.00654	ND	0.012	0.007	<500
PWC04 @ 3'	3	5/28/2024	South Pit Center	48.8	ND	<0.00263	0.018	0.091	ND	0.184	0.017	665.7268
PWC 05 @ 2'	2	5/28/2024	West Pit Center	2.8	ND	ND	<0.005	<0.00654	ND	<0.00245	<0.005	ND
PWC01 @ 3'	3	5/28/2024	Center Pit Sample	NA	ND	<0.00263	<0.005	<0.00654	ND	<0.00245	<0.005	ND

Concentrations exceeding the CECMC Table 915-1 allowable concentrations are expressed in **bold** type face

TPH - Total volatile (C6 - C10) and extractable (C10-C36) petroleum hydrocarbons

ft bgs - Feet below ground surface

PID - Photoionization Detector

mg/kg - Milligrams per kilogram

ppm - Parts per million

TMB - Trimethylbenzene

ND - Non-detect

NA - Not Analyzed

CECMC - Colorado Energy and Carbon Management Commission



**Table 3**  
**CECMC Rule 915 Soil Analysis - Metals**

Chaco Energy Company - Kindt 1

CECMC Project #: 24530

Sample ID	Depth	Sample Date	Location Description	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Nickel	Selenium	Silver	Zinc
	ft bgs			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CECMC Table 915-1 Allowable Residential Soil Screening Level Concentration				1.25 x BKD	15000	71	0.3	3100	400	1500	390	390	23000
Tank 01 @ 3'	3	8/31/2023	Former Tank Location	0.91	299	ND	ND	1.12	7.10	1.43	ND	0.0289	4.68
Sep 01 @ 3'	3	8/31/2023	Former Separator Location	0.793	187	ND	ND	1.07	6.85	1.30	ND	0.0227	4.59
BKG 01 @ 2'	2	8/31/2023	West Background	0.832	243	ND	ND	1.35	6.84	1.57	ND	0.0406	4.74
WH 01 @ 2'	2	8/31/2023	Well Head	1.08	349	ND	ND	1.59	15.4	1.83	ND	0.0346	9.27
BKG 02 @ 2'	2	8/31/2023	East Background	0.856	413	ND	ND	0.967	6.23	1.32	ND	0.0239	4.04
PWC 01 @ 2'	2	8/31/2023	Produced Water Pit Center	0.604	234	ND	ND	1.23	7.23	1.26	ND	ND	4.49
PWN 01 @ 1'	1	8/31/2023	Produced Water Pit North	0.51	101	ND	ND	1.18	6.33	1.26	ND	0.0246	4.56
PWW 01 @ 1'	1	8/31/2023	Produced Water Pit West	0.571	110	ND	ND	1.08	6.61	1.37	ND	0.0272	4.53
PWE 01 @ 2'	2	8/31/2023	Produced Water Pit East	0.559	140	ND	ND	1.05	5.48	1.14	ND	ND	4.06
PWS 01 @ 3'	3	8/31/2023	Produced Water Pit South	0.582	124	ND	ND	1.16	6.53	1.28	ND	0.0229	4.65
BKB 03 @ 2'	2	8/31/2023	South Background	1.01	187	ND	ND	1.71	5.48	1.83	ND	0.0400	5.44
PWC02 @ 2'	2	5/28/2024	North Center Pit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm NW @ 2'	2	5/28/2024	NW Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm SW @ 2'	2	5/28/2024	SW Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm SE @ 2'	2	5/28/2024	SE Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm NE @ 2'	2	5/28/2024	NE Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep 01 @ 4'	4	5/28/2024	Former Separator Location	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG05 @ 2'	2	5/28/2024	N Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKD 06 @ 2'	2	5/28/2024	NW Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWC03 @ 3'	3	5/28/2024	East Pit Center	1.629	160.902	0.108	<0.0800	4.973	6.166	3.710	2.003	<0.250	13.806
PWC04 @ 3'	3	5/28/2024	South Pit Center	2.645	209.096	0.150	<0.0800	21.275	9.663	6.871	1.701	<0.250	29.249
PWC 05 @ 2'	2	5/28/2024	West Pit Center	2.576	130.023	0.101	<0.0800	8.755	7.229	4.910	1.461	<0.250	20.750
PWC01 @ 3'	3	5/28/2024	Center Pit Sample	3.312	180.857	0.143	<0.0800	15.132	10.042	5.558	2.179	<0.250	28.988

Concentrations exceeding the CECMC Table 915-1 allowable concentrations are expressed in **bold** type face

ft bgs - Feet below ground surface

mg/kg - Milligrams per kilogram

ND - Non-detect

NA - Not Analyzed

CECMC - Colorado Energy and Carbon Management Commission

(M) - The letter "(M)" following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.

(R) - The letter "(R)" following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach.

NOTE: Arsenic results for confirmation soil samples appear to be representative of background as opposed to E&P activities. Therefore background x 1.25 will be an alternative to the default in Table 915-1.



Table 4  
CECMC Rule 915 Soil Analysis - Polycyclic Aromatic Hydrocarbons (PAHs)  
Chaco Energy Company - Kindt 1  
CECMC Project #: 24530

Sample ID	Depth	Sample Date	Location Description	PID	Acenaphthene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene
	ft bgs			ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
CECMC Table 915-1 Allowable Residential Soil Screening Level Concentration					360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
Tank 01 @ 3'	3	8/31/2023	Former Tank Location	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sep 01 @ 3'	3	8/31/2023	Former Separator Location	8.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BKG 01 @ 2'	2	8/31/2023	West Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH 01 @ 2'	2	8/31/2023	Well Head	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BKG 02 @ 2'	2	8/31/2023	East Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWC 01 @ 2'	2	8/31/2023	Produced Water Pit Center	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWN 01 @ 1'	1	8/31/2023	Produced Water Pit North	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWW 01 @ 1'	1	8/31/2023	Produced Water Pit West	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWE 01 @ 2'	2	8/31/2023	Produced Water Pit East	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PWS 01 @ 3'	3	8/31/2023	Produced Water Pit South	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BKB 03 @ 2'	2	8/31/2023	South Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWC02 @ 2'	2	5/28/2024	North Center Pit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm NW @ 2'	2	5/28/2024	NW Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm SW @ 2'	2	5/28/2024	SW Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm SE @ 2'	2	5/28/2024	SE Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berm NE @ 2'	2	5/28/2024	NE Berm Corner	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sep 01 @ 4'	4	5/28/2024	Former Separator Location	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKG05 @ 2'	2	5/28/2024	N Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BKD 06 @ 2'	2	5/28/2024	NW Background	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PWC03 @ 3'	3	5/28/2024	East Pit Center	73.3	ND	<0.010	ND	ND	ND	ND	ND	ND	<0.010	0.015	ND	ND	ND	<0.010
PWC04 @ 3'	3	5/28/2024	South Pit Center	48.8	ND	ND	ND	ND	ND	ND	0.01221	ND	ND	ND	ND	ND	<0.010	0.01881
PWC 05 @ 2'	2	5/28/2024	West Pit Center	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.010
PWC01 @ 3'	3	5/28/2024	Center Pit Sample	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.010

Concentrations exceeding the CECMC Table 915-1 allowable concentrations are expressed in **bold** type face

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