

- LEGEND:**
- CONFIRMATION SOIL SAMPLE LOCATION
 - SOIL SAMPLE LOCATION GREATER THAN TABLE 915-1

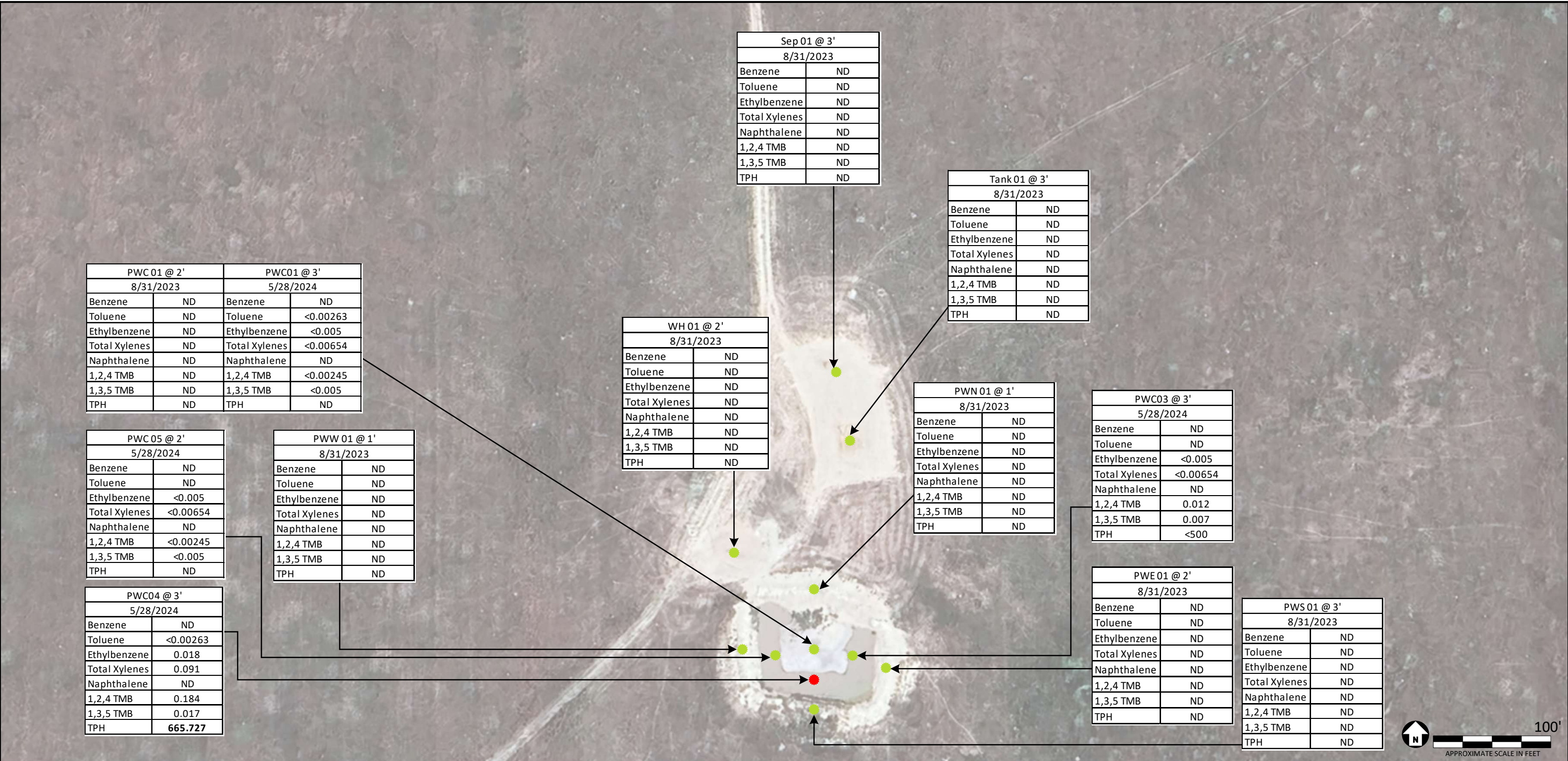
NOTES:
VALUES PRESENTED IN **BOLD** EXCEED CECMC TABLE 915-1 REGULATORY LIMITS
ALL LOCATIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE

CECMC Table 915-1 Soil Screening Levels	
EC	<4 mmhos/cm
SAR	<6
pH	6-8.3
Boron	2 mg/l

CECMC- Colorado Energy & Carbon Management Commission
EC- Electrical conductivity
Mmhos/cm- millimhos per centimeter
Mg/l- milligrams per liter
SAR- Sodium absorption ratio

CHACO ENERGY COMPANY
WELD COUNTY KINDT
ECMC REM #24530
API 123-12182/ LOCATION ID 327811/
PIT ID 117932
NENW S11, T7N R57W





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NOTES:
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CECMC Table 915-1 Soil Standards		
Compound	Residential (mg/kg)	Protection of Groundwater (mg/kg)
Benzene	1.2	0.0026
Toluene	490	0.69
Ethylbenzene	5.8	0.78
Total Xylenes	58	9.9
Naphthalene	30	0.0081
1,2,4-Trimethylbenzene	27	0.0087
1,3,5-Trimethylbenzene	2	0.0038
TPH	500	500

mg/kg- milligrams per kilogram
TPH- Total Petroleum Hydrocarbons
CECMC- Colorado Energy & Carbon Management Commission
ND- Not detected

Imagery source: Google Earth; 2016 Google

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PWC 01 @ 2'		PWC01 @ 3'	
8/31/2023		5/28/2024	
Arsenic	0.604	Arsenic	3.312
Barium	234	Barium	180.857
Cadmium	ND	Cadmium	0.143
Chrmioium	ND	Chrmioium	<0.0800
Copper	1.23	Copper	15.132
Lead	7.23	Lead	10.042
Nickel	1.26	Nickel	5.558
Selenium	ND	Selenium	2.179
Silver	ND	Silver	<0.250
Zinc	4.49	Zinc	28.988

PWC 05 @ 2'	
5/28/2024	
Arsenic	2.576
Barium	130.023
Cadmium	0.101
Chrmioium	<0.0800
Copper	8.755
Lead	7.229
Nickel	4.910
Selenium	1.461
Silver	<0.250
Zinc	20.750

PWW 01 @ 1'	
8/31/2023	
Arsenic	0.571
Barium	110
Cadmium	ND
Chrmioium	ND
Copper	1.08
Lead	6.61
Nickel	1.37
Selenium	ND
Silver	0.0272
Zinc	4.53

PWC04 @ 3'	
5/28/2024	
Arsenic	2.645
Barium	209.096
Cadmium	0.150
Chrmioium	<0.0800
Copper	21.275
Lead	9.663
Nickel	6.871
Selenium	1.701
Silver	<0.250
Zinc	29.249

WH 01 @ 2'	
8/31/2023	
Arsenic	1.08
Barium	349
Cadmium	ND
Chrmioium	ND
Copper	1.59
Lead	15.4
Nickel	1.83
Selenium	ND
Silver	0.0346
Zinc	9.27

Sep 01 @ 3'	
8/31/2023	
Arsenic	0.793
Barium	187
Cadmium	ND
Chrmioium	ND
Copper	1.07
Lead	6.85
Nickel	1.30
Selenium	ND
Silver	0.0227
Zinc	4.59

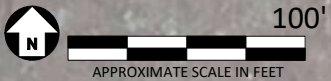
Tank 01 @ 3'	
8/31/2023	
Arsenic	0.91
Barium	299
Cadmium	ND
Chrmioium	ND
Copper	1.12
Lead	7.1
Nickel	1.43
Selenium	ND
Silver	0.0289
Zinc	4.68

PWN 01 @ 1'	
8/31/2023	
Arsenic	0.51
Barium	101
Cadmium	ND
Chrmioium	ND
Copper	1.18
Lead	6.33
Nickel	1.26
Selenium	ND
Silver	0.0246
Zinc	4.56

PWC03 @ 3'	
5/28/2024	
Arsenic	1.629
Barium	160.902
Cadmium	0.108
Chrmioium	<0.0800
Copper	4.973
Lead	6.166
Nickel	3.710
Selenium	2
Silver	<0.250
Zinc	13.806

PWE 01 @ 2'	
8/31/2023	
Arsenic	0.559
Barium	140
Cadmium	ND
Chrmioium	ND
Copper	1.05
Lead	5.48
Nickel	1.14
Selenium	ND
Silver	ND
Zinc	4.06

PWS 01 @ 3'	
8/31/2023	
Arsenic	0.582
Barium	124
Cadmium	ND
Chrmioium	ND
Copper	1.16
Lead	6.53
Nickel	1.28
Selenium	ND
Silver	0.0229
Zinc	4.65



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CECMC Table 915-1 Soil Screening Levels		
Compound	Residential (mg/kg)	Protection of Groundwater (mg/kg)
Arsenic	0.68	0.29 (M)
Barium	15000	82 (M)
Cadmium	71	0.38 (M)
Chrmioium (VI)	0.3	0.00067 (R)
Copper	3100	46 (M)
Lead	400	14 (M)
Nickel	1500	26 (R)
Selenium	390	0.26 (M)
Silver	390	0.8 (R)
Zinc	23000	370 (R)

mg/kg- milligrams per kilogram
(R)- Risk based screening level
(M)- Drinking water maximum contaminant level
CECMC- Colorado Energy & Carbon Management Commission

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.

Imagery source: Google Earth; 2016 Google

CHACO ENERGY COMPANY
WELD COUNTY KINDT
ECMC REM #24530
API 123-12182/ LOCATION ID 327811/
PIT ID 117932
NENW S11, T7N R57W



PWC01 @ 2'		PWC01 @ 3'	
8/31/2023		5/28/2024	
Acenaphthene	ND	Acenaphthene	ND
Anthracene	ND	Anthracene	ND
Benz(a)anthracene	ND	Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND	Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND	Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND	Benzo(a)pyrene	ND
Chrysene	ND	Chrysene	ND
Dibenzo(a,h)anthracene	ND	Dibenzo(a,h)anthracene	ND
Fluoranthene	ND	Fluoranthene	ND
Fluorene	ND	Fluorene	ND
Indeno(1,2,3-cd)pyrene	ND	Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND	Pyrene	ND
1-methylnaphthalene	ND	1-methylnaphthalene	ND
2-methylnaphthalene	ND	2-methylnaphthalene	<0.010

PWC05 @ 2'	
5/28/2024	
Acenaphthene	ND
Anthracene	ND
Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Chrysene	ND
Dibenzo(a,h)anthracene	ND
Fluoranthene	ND
Fluorene	ND
Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND
1-methylnaphthalene	ND
2-methylnaphthalene	<0.010

PWC04 @ 3'	
5/28/2024	
Acenaphthene	ND
Anthracene	ND
Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Chrysene	0.01221
Dibenzo(a,h)anthracene	ND
Fluoranthene	ND
Fluorene	ND
Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND
1-methylnaphthalene	<0.010
2-methylnaphthalene	0.01881

PWW01 @ 1'	
8/31/2023	
Acenaphthene	ND
Anthracene	ND
Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Chrysene	ND
Dibenzo(a,h)anthracene	ND
Fluoranthene	ND
Fluorene	ND
Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND
1-methylnaphthalene	ND
2-methylnaphthalene	ND

WH01 @ 2'	
8/31/2023	
Acenaphthene	ND
Anthracene	ND
Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Chrysene	ND
Dibenzo(a,h)anthracene	ND
Fluoranthene	ND
Fluorene	ND
Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND
1-methylnaphthalene	ND
2-methylnaphthalene	ND

Sep01 @ 3'	
8/31/2023	
Acenaphthene	ND
Anthracene	ND
Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Chrysene	ND
Dibenzo(a,h)anthracene	ND
Fluoranthene	ND
Fluorene	ND
Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND
1-methylnaphthalene	ND
2-methylnaphthalene	ND

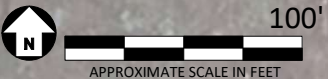
Tank01 @ 3'	
8/31/2023	
Acenaphthene	ND
Anthracene	ND
Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Chrysene	ND
Dibenzo(a,h)anthracene	ND
Fluoranthene	ND
Fluorene	ND
Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND
1-methylnaphthalene	ND
2-methylnaphthalene	ND

PWN01 @ 1'	
8/31/2023	
Acenaphthene	ND
Anthracene	ND
Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Chrysene	ND
Dibenzo(a,h)anthracene	ND
Fluoranthene	ND
Fluorene	ND
Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND
1-methylnaphthalene	ND
2-methylnaphthalene	ND



PWE01 @ 2'	
8/31/2023	
Acenaphthene	ND
Anthracene	ND
Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Chrysene	ND
Dibenzo(a,h)anthracene	ND
Fluoranthene	ND
Fluorene	ND
Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND
1-methylnaphthalene	ND
2-methylnaphthalene	ND

PWC03 @ 3'	
5/28/2024	
Acenaphthene	ND
Anthracene	<0.010
Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Chrysene	ND
Dibenzo(a,h)anthracene	ND
Fluoranthene	<0.010
Fluorene	0.015
Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND
1-methylnaphthalene	ND
2-methylnaphthalene	<0.010

PWS01 @ 3'	
8/31/2023	
Acenaphthene	ND
Anthracene	ND
Benz(a)anthracene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(a)pyrene	ND
Chrysene	ND
Dibenzo(a,h)anthracene	ND
Fluoranthene	ND
Fluorene	ND
Indeno(1,2,3-cd)pyrene	ND
Pyrene	ND
1-methylnaphthalene	ND
2-methylnaphthalene	ND



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Compound	Residential (mg/kg)	Protection of Groundwater (mg/kg)
Acenaphthene	360	0.55 (R)
Anthracene	1800	5.8 (R)
Benz(a)anthracene	1.1	0.011 (R)
Benzo(b)fluoranthene	1.1	0.03 (R)
Benzo(k)fluoranthene	11	2.9 (R)
Benzo(a)pyrene	0.11	0.24 (M)
Chrysene	110	9 (R)
Dibenzo(a,h)anthracene	0.11	0.096 (R)
Fluoranthene	240	8.9 (R)
Fluorene	240	0.54 (R)
Indeno(1,2,3-cd)pyrene	1.1	0.98 (R)
Pyrene	180	1.3 (R)
1-methylnaphthalene	18	0.006 (R)
2-methylnaphthalene	24	0.019 (R)

mg/kg- milligrams per kilogram
(R)- Risk based screening level
(M)- Drinking water maximum
contaminant level
CECMC- Colorado Energy & Carbon
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