

Table 1
CECMC Rule 915 Soil Analysis - Inorganics

Providence Operating LLC- Kallsen Tank Battery

CECMC Remediation No. 34744

Sample ID	Depth	Sample Date	Location Description	EC ¹	SAR ¹	pH ¹	Boron ²
	ft bgs			mmhos/cm	ratio		mg/L
<i>CECMC Table 915-1 Clean Up Concentrations</i>				< 4	< 6	6-8.3	2
Tank01 @ 5'	5	5/7/2024	North tank	1.556	2.674	5.63	0.570
Tank02 @ 1'	1	5/7/2024	South Tank	0.796	5.961	5.70	0.103
West Pipe @ 2'	2	5/7/2024	West of tank battery	0.478	1.009	5.65	0.205
Background01 @ 1.5'	1.5	5/7/2024	West background	0.294	0.182	6.74	0.167
Background02 @ 1.5'	1.5	5/7/2024	East background	0.337	0.174	7.42	0.132

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

¹ By Saturated Paste Method

² 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

Providence Operating LLC- Kallsen Tank Battery

CECMC Remediation No. 34744

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
<i>CECMC Table 915-1 Residential Soil Screening Level Concentrations</i>					1.2	490	5.8	58	2	30	27	500
Tank01 @ 5'	5	5/7/2024	North tank	6.1	<0.00242	<0.00263	<0.005	<0.00654	ND	0.00385	<0.005	<500
Tank02 @ 1'	1	5/7/2024	South Tank	9.9	ND	<0.00263	<0.005	<0.00654	ND	<0.00245	<0.005	<500
West Pipe @ 2'	2	5/7/2024	West of tank battery	1.2	ND	ND	ND	ND	ND	<0.00245	<0.005	<500
Background01 @ 1.5'	1.5	5/7/2024	West background	-	ND	<0.00263	ND	ND	ND	<0.00245	<0.005	<500
Background02 @ 1.5'	1.5	5/7/2024	East background	-	ND	ND	ND	ND	ND	<0.00245	<0.005	<500

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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

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(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.



Table 3
CECMC Rule 915 Soil Analysis - Metals
 Providence Operating LLC- Kallsen Tank Battery
 CECMC Remediation No. 34744

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
<i>CECMC Table 915-1 Allowable Residential Soil Screening Level Concentration</i>				<i>0.68</i>	<i>15000</i>	<i>71</i>	<i>0.3</i>	<i>3100</i>	<i>400</i>	<i>1500</i>	<i>390</i>	<i>390</i>	<i>23000</i>
Tank01 @ 5'	5	5/7/2024	North tank	2.041	37.460	0.148	0.1137	6.078	6.913	3.496	1.895	<0.250	18.005
Tank02 @ 1'	1	5/7/2024	South Tank	1.863	38.389	0.063	0.1200	5.645	14.960	3.081	1.331	<0.025	16.901
West Pipe @ 2'	2	5/7/2024	West of tank battery	1.788	40.380	0.063	<0.0800	5.871	7.638	3.052	1.720	<0.250	18.808
Background01 @ 1.5'	1.5	5/7/2024	West background	1.863	46.780	0.066	<0.0800	5.662	6.980	3.388	1.400	<0.025	14.770
Background02 @ 1.5'	1.5	5/7/2024	East background	1.458	29.094	0.089	<0.0800	5.490	5.589	2.374	0.885	<0.025	12.079

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mg/kg - Milligrams per kilogram

ND - Non-detect

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Table 4
CECMC Rule 915 Soil Analysis - Polycyclic Aromatic Hydrocarbons (PAHs)

Providence Operating LLC- Kallsen Tank Battery

CECMC Remediation No. 34744

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
<i>CECMC Table 915-1 Allowable Residential Soil Screening Level Concentration</i>					<i>360</i>	<i>1800</i>	<i>1.1</i>	<i>0.11</i>	<i>1.1</i>	<i>11</i>	<i>110</i>	<i>0.11</i>	<i>240</i>	<i>240</i>	<i>1.1</i>	<i>180</i>	<i>18</i>	<i>24</i>
Tank01 @ 5'	5	5/7/2024	North tank	6.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tank02 @ 1'	1	5/7/2024	South Tank	9.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
West Pipe @ 2'	2	5/7/2024	West of tank battery	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Background01 @ 1.5'	1.5	5/7/2024	West background	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Background02 @ 1.5'	1.5	5/7/2024	East background	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.010	<0.010

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