Red Rocks 1-13		1/30/2025
CLEANUP CONCENTRATIONS		**SS1 RR113-SA01**
Contaminant of Concern	**Concentrations**	
Soil TPH (total volatile [C6-C10] and extractable [C10- C36] hydrocarbons)	500mg/kg	121.0000
Soils and Groundwater - liquid hydrocarbons including condensate and oil	below visual detection limits	
Soil Suitability for Reclamation		
Electrical conductivity (EC) (by saturated paste method)	<4mmhos/cm	8.9000
Sodium adsorption ratio (SAR) (by saturated paste method)	<6	2.3000
pH (by saturated paste method)	6–8.3	8.1000
boron (hot water soluble soil extract)	2mg/l	14.0000
Organic Compounds in Groundwater		
benzene	5µg/l	
toluene	560 to 1,000µg/l	
ethylbenzene	700µg/l	
xylenes (sum of o-, m- and p- isomers = total xylenes)	1,400 to 10,000µg/l	
naphthalene	140µg/l	
1,2,4-trimethylbenzene	67µg/l	
1,3,5-trimethylbenzene	67µg/l	
Groundwater Inorganic Parameters		
total dissolved solids (TDS)	<1.25 X local background	
chloride ion	250mg/l or <1.25 X local background	
sulfate ion	250mg/l or <1.25 X local background	

Soils	**Residential Soil Screening Level Concentrations (mg/kg)**	**Protection of Groundwater Soil Screening Level Concentrations (mg/kg)**	
Organic Compounds in Soils			
benzene	1.2000	0.0026 (M)	ND
toluene	490.0000	0.69 (M)	ND
ethylbenzene	5.8000	0.78 (M)	ND
xylenes (sum of o-, m- and p- isomers = total xylenes)	58.0000	9.9 (M)	ND
1,2,4-trimethylbenzene	30.0000	0.0081 (R)	ND
1,3,5-trimethylbenzene	27.0000	0.0087 (R)	ND
acenaphthene	360.0000	0.55 (R)	0.0470
anthracene	1800.0000	5.8 (R)	0.0950
benz(a)anthracene	1.1000	0.011 (R)	0.1100
benzo(b)fluoranthene	1.1000	0.3 (R)	0.1100
benzo(k)fluoranthene	11.0000	2.9 (R)	0.1000
benzo(a)pyrene	0.1100	0.24 (M)	0.1000
chrysene	110.0000	9 (R)	0.1100
dibenzo(a,h)anthracene	0.1100	0.096 (R)	0.1000
fluoranthene	240.0000	8.9 (R)	0.1100
fluorene	240.0000	0.54 (R)	0.0990
indeno(1,2,3-cd)pyrene	1.1000	0.98 (R)	0.0980
1-methylnaphthalene	18.0000	0.006 (R)	0.0220
2-methylnaphthalene	24.0000	0.019 (R)	0.0230
naphthalene	2.0000	0.0038 (R)	0.0098
pyrene	180.0000	1.3 (R)	0.1100
Metals in Soils			
arsenic	0.6800	0.29 (M)	6.9000
barium	15000.0000	82 (M)	270.0000
cadmium	71.0000	0.38 (M)	0.3100

chromium (VI)	0.3000	0.00067 (R)	ND
copper	3100.0000	46 (M)	16.0000
lead	400.0000	14 (M)	12.0000
nickel	1500.0000	26 (R)	16.0000
selenium	390.0000	0.26 (M)	0.3800
silver	390.0000	0.8 (R)	0.0520
zinc	23000.0000	370 (R)	57.0000

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

1/30/2025
SS2 RR113-BG01
ND
0.9100
17.0000
8.9000
13.0000
ND
ND
ND
ND
ND
ND
0.0090
0.0078
0.0080
0.0089
0.0086
0.0078
0.0080
0.0091
0.0081
0.0120
0.0090
0.0076
0.0079
ND
0.0079
6.8000
390.0000
0.2900

ND
17.0000
12.0000
17.0000
0.5700
0.0470
63.0000

ıe drinking water MCL.