

Genwal Coal Reasonable Potential Analysis For Permit Renewal 2016

Parameter, Total Metal	MAC mg/L	Data from Company mg/L	RP Testing Y or No	Monitoring or permit limits
Aluminum	0.8563	1.22	Sample Result Exceeds MAC	Permit limit
Arsenic	0.057	<0.01	N	Monitoring
Boron	0.857	0.14	N	Monitoring
Cadmium	0.0009	<0.001	N	Monitoring
Chromium	0.310	0.004	N	Monitoring
Copper	0.0351	<0.01	N	Monitoring
Lead	0.0215	<0.01	N	Monitoring
Mercury	0.014 ug/L	<0.2 ug/L	N	Monitoring
Iron	1.142	1.36	Sample Result Exceeds MAC	Permit limit
Nickel	0.195	0.006	N	Monitoring
Selenium	0.005	0.03	Sample Result Exceeds MAC	Permit limit
Silver	0.048	<0.002	N	Monitoring
T-cyanide	0.0059	<0.005	N	Monitoring
Zinc	0.48	<0.004	N	Monitoring

MAC = Maximum Allowable Concentration, taken from the wasteload analysis.

RP = Reasonable Potential

mg/L = milligrams per liter, 1mg/L = 1 part per million.

Parameters in column 1 were taken from State Water Quality Standards R317—2. Values in column 2, the maximum allowable concentrations were taken from the wasteload allocation and are the concentrations that we do not want exceeded downstream. Values for the parameters in column 3 were taken from the permittee UPDES application form and represent actual concentrations in the effluent. If the values in column 3 exceed the values in column 2 either in the Table above or anytime, over the last permit cycle, a permit limit is required. This is the reason aluminum, iron and selenium will have permit limits in this renewal permit.

Except for aluminum and iron all the metals in the above table have one value on which to base reasonable potential analysis. One data point is not appropriate for use in the model. Therefore, except for iron, aluminum and selenium, all the rest of the metals in the table above will be required to be monitored quarterly over the next permit period.