

**Table 2**  
**Land Application Permit for**  
**Produced Water or Gas Plant Effluent Water**

**Analyses required for Permit Application**

<b>General Parameters</b>
pH (standard units)
Total Dissolved Solids
Chlorides
Sulfates
Phosphorus
Ammonia Nitrogen
Calcium
Magnesium
Sodium
Potassium
Iron
Manganese
Total Petroleum Hydrocarbons (TPH)
Phenols
Naphthalene

<b>Toxic Pollutants</b>	
<b>Parameter</b>	<b>Min. SDL(mg/l)*</b>
Aluminum	0.03
Arsenic	0.01
Barium	0.01
Benzene	0.01
Cadmium	0.001
Chromium	0.01
Hexavalent Chromium	0.01
Cyanide	0.02
Lead	0.005
Mercury	0.0002
Selenium	0.01
Silver	0.002
Zinc	0.005

\*\*\* These toxic pollutants have numerical criteria specified in the [Texas Surface Water Quality Standards](#) and may be present in some produced water or gas plant wastewater. Toxic pollutant concentrations above the specified **minimum sample detection limit** (SDL) must be reported. If the laboratory, using acceptable analytical practices, cannot report concentrations down to the specified level due to reasons such as matrix interference, a statement to that effect from the laboratory must be submitted with the results. Also, the SDL achieved by the laboratory for each toxic pollutant must be reported.