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## 11.1 GROUNDWATER QUALITY

The two groundwater test wells were sampled by SGI on April 25, 2005, to determine the chemical condition of groundwater underlying the project area (to compare to groundwater discharge screening levels). The grab samples were combined by the laboratory. The composite sample was then analyzed for the following:

- Semi-volatile organic compounds (SVOCs) and 1,4-dioxane using EPA Method 8270C
- Bio-chemical oxygen demand (BOD) using EPA 405.1
- Total petroleum hydrocarbons (TPH, C<sub>6</sub>-C<sub>44</sub>), and alcohols (ethanol and methanol) using EPA 8015M
- Total phenols using EPA 420.1
- Perchlorate using EPA 314.0
- Volatile organic compounds (VOCs), fuel oxygenates, acrolein, acrylonitrile, 1,2-dibromoethane, 2-chloroethyl vinyl ether, and tetrahydrofuran (THF) using EPA 826B
- Polynuclear aromatic hydrocarbons (PAHs) using EPA 8310
- Nitrate as nitrogen, nitrite as nitrogen, chloride, and sulfate using EPA 300.0
- Total dissolved solids (TDS) using EPA 160.0
- Total suspended solids (TSS) using EPA 160.2
- Residual chlorine using EPA 330.3
- Polychlorinated biphenyls (PCBs) using EPA 8082
- TPH as gasoline (TPHg) using gas chromatography/mass spectrometry (GC/MS)
- Pesticides using EPA 8081A
- Total Metals
- Hexavalent chrome using EPA 216.6
- Total boron using EPA 200.7
- Turbidity using EPA 180.1
- Settleable solids using EPA 160.5
- Total cyanide using SM 4500CN
- Asbestos using EPA 100.2
- 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD, dioxin) using EPA 1613B

Of the analysis listed above, most showed concentrations that were below their respective detection limits. The analytes that were detected included BOD (29 mg/L), sulfate (53 mg/L), TDS (400 mg/L) chloride (50 mg/L), TPHg (660 µg/L), cadmium (1.3 µg/L), copper (13 µg/l), zinc (96 µg/L, boron (0.20 mg/L), turbidity (2.0 NTU), and tetrahydrofuran (THF) (9,800 µg/L, which was estimated due to limitations in the text procedures and analytical equipment).

To better determine the source of the dissolved hydrocarbons (TPHg and THF), the two grab well samples were individually analyzed for VOCs, fuel oxygenates, TPHg, and THF using EPA 8260B. Only THF was detected, and at concentrations of 6,400 µg/L and 25,000 µg/L. THF is used as solvent for high polymers such as PVC (polyvinyl chloride). The source of the THF is unknown; however, it is unlikely to have originated from historical site operations.

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