

**Attachment 3: Groundwater Water Quality Objectives
for Cleanup Projects of Typical Petroleum Constituents in the North Coast Region**

| Constituent of Concern | Practical Quantitation Limit (µg/L) | Water Quality Objective¹ (µg/L) |
|-------------------------------|--|---|
| Gasoline | 50 | 5 ² |
| Diesel | 50 | 100 ³ |
| Motor oil | 175 | None available |
| Benzene | 0.5 | 0.15 ⁴ |
| Toluene | 0.5 | 42 ⁵ |
| Ethylbenzene | 0.5 | 3.2 ⁶ |
| Xylenes | 0.5 | 17 ⁵ |
| Methyl tert-butyl ether | 0.5 | 5 ⁷ |
| Tert-butyl alcohol | 5 | 12 ⁸ |
| Diisopropyl ether | 0.5 | 0.8 ⁹ |
| Naphthalene | 1.0 | 17 ⁸ |
| 1,2-Dichloroethane | 0.5 | 0.4 ⁴ |

- ¹ Practical quantitation limits are based on current technology. For instances when technology cannot achieve the water quality objective the practical quantitation limit will be used.
- ² Published literature provides a taste and odor threshold of 5 µg/L, applied to the narrative groundwater taste and odor water quality objective of the Basin Plan.
- ³ Published literature provides a taste and odor threshold of 100 µg/L, applied to the narrative groundwater taste and odor water quality objective of the Basin Plan.
- ⁴ California Public Health Goal in Drinking Water (Office of Environmental Health Hazard Assessment), applied to the groundwater toxicity water quality objective in the Basin Plan.
- ⁵ US EPA taste and odor threshold, Federal Register 54 (97):22064-22138, which is applied to the narrative groundwater taste and odor water quality objective in the Basin Plan.
- ⁶ Cal/EPA Cancer Potency Factor, applied to the groundwater toxicity water quality objective in the Basin Plan.
- ⁷ California Department of Health Services Secondary Maximum Contaminant Level, applied to groundwater taste and odor water quality objective in the Basin Plan.
- ⁸ California Department of Public Health Drinking Water Notification Level, applied to the groundwater toxicity water quality objective in the Basin Plan.
- ⁹ Published literature provides a taste and odor threshold of 0.8 µg/L, applied to the narrative groundwater taste and odor water quality objective of the Basin Plan.