The Mission Valley Terminal (MVT) is a 67-acre petroleum fuel storage and distribution facility in the City of San Diego adjacent to Murphy Canyon Creek, a tributary to the San Diego River. Historical releases of petroleum liquids from petroleum storage and distribution operations at the MVT have contaminated soil and groundwater onsite (known as the on-terminal area) and offsite (known as the off-terminal area). These petroleum releases may potentially impact the water quality of Murphy Canyon Creek and the San Diego River. Pollutants of concern in the soil and groundwater, in the on- and off-terminal areas, include benzene, toluene, ethylbenzene, xylene, methyl-tertiary butyl ether (MTBE), and tributyl alcohol (TBA). The Regional Water Board issued a Cleanup and Abatement Order (CAO) in 1992 after petroleum constituents were discovered in monitoring wells. Subsequent investigations indicated that the contaminated groundwater plume extended approximately 4,900 feet to the south of the MVT. In 2005, Kinder Morgan Energy Partners (discharger) implemented a remediation strategy in the off-terminal area that includes hydraulic containment at the on-terminal property boundary, groundwater and soil vapor extraction (SVE), and soil excavation. In 2015, the discharger demonstrated that the off-terminal area cleanup effort had achieved desired alternative cleanup levels for the area. The same remediation strategy is being used for the on-terminal area cleanup. The Regional Water Board is currently completing Addendum No. 8 to the CAO that sets a date of January 21, 2024 to complete cleanup of the on-terminal area.

**Water Quality Improvement Strategy**

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**Water Quality Outcomes**

- Off-terminal area cleanup actions have removed over 1.6 million pounds of petroleum from soil and groundwater.
- The rise and sharp decline seen in the concentration graphs for TBA and MTBE is due to the startup and subsequent expansion of the remediation system.
- The cleanup levels in groundwater in the off-terminal area was achieved by October 2015.

**Cumulative Benzene, MTBE, and TBA Mass Removed in the Off-Terminal Area (2005—2015)^a**


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Released October 2016