

## **CHAPTER 13: IRRETRIEVABLE AND IRREVERSIBLE COMMITMENT OF RESOURCES**

---

Construction and operation of Shaft 33B and the water main connection would involve the use of various construction materials, materials for operation and maintenance, fuels and energy used for construction and operation, and the land area used for the Shaft itself. Some of these materials are nonrenewable resources and are considered irretrievably and irreversibly committed, because reuse is not possible or is highly unlikely.

Construction materials include steel, concrete, and other materials used for the Shaft construction. Maintenance materials include replacement parts for the equipment. During construction, fuel would be used for operation of construction equipment (trucks, cranes, front end loaders, etc.) During activation of Shaft 33B, water and chemicals used to disinfect the Shaft will be consumed along with electricity used to power pumps. While the shaft itself does not require electricity to deliver water into the distribution system, electricity would be consumed by various mechanical systems, including pumps and dehumidifiers that will operate within the Shaft's distribution chamber.

Without construction of Shaft 33B, however, water pressure reliability and water supply delivery capability in the area would continue to decline as existing systems continue to age. With water supply from City Tunnel No. 3 in place, including Shaft 33B, there would be no service disruptions or dramatic changes in pressure when City Tunnel No. 1 is taken off-line for inspection and repair.

No potential significant irreversible or irretrievable resources impacts are expected.

