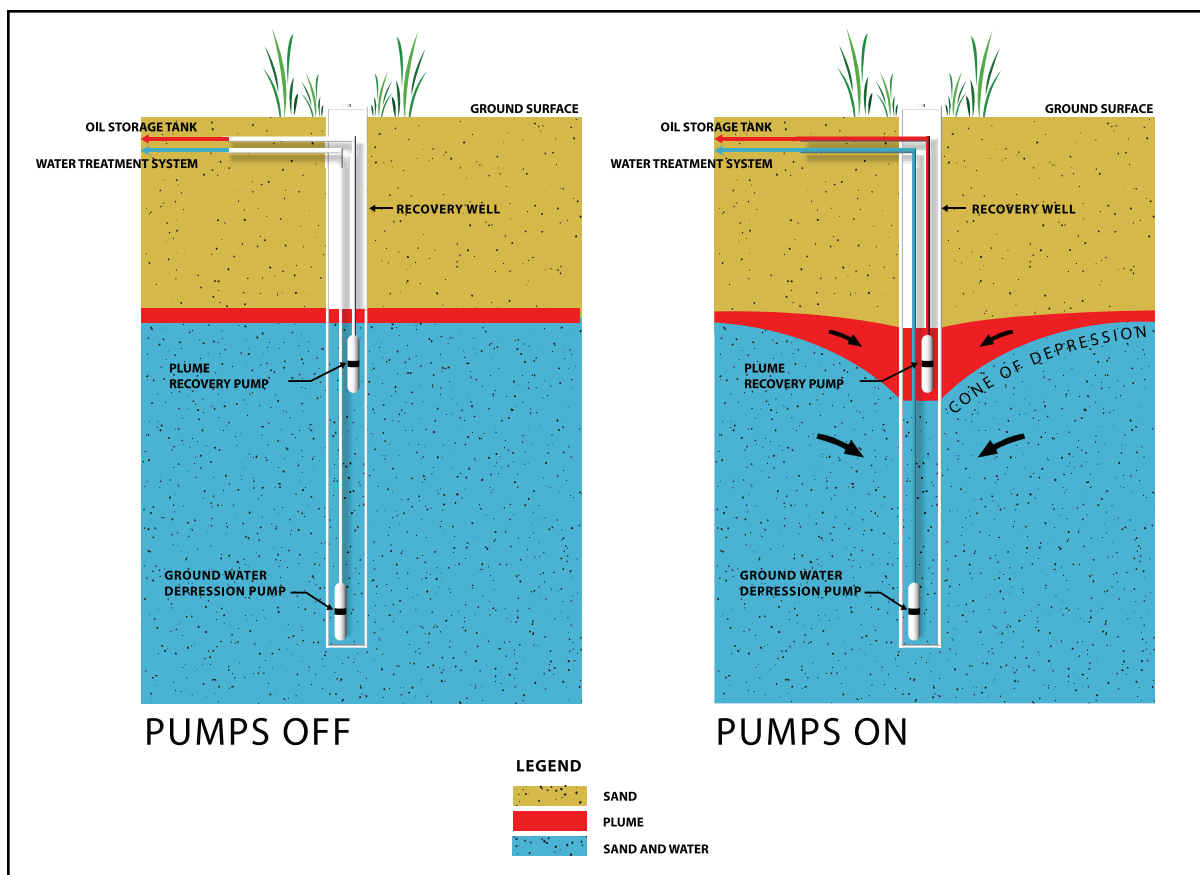


# Facts on Remediation

## GREENPOINT BROOKLYN REMEDIATION PROJECT

### Best Available Technology

ExxonMobil based the initial design of its petroleum products recovery system on a comprehensive analysis and the feasibility of available technologies. ExxonMobil continues to assess on a regular basis ways to enhance and optimize its recovery operation. The dual-pump recovery system was determined to be the most efficient and best sub-surface option for remediating the plume underneath Greenpoint.



- The dual-pump recovery system developed and implemented by ExxonMobil uses technology commonly referred to as *pump-and-treat*. The system recovers product by depressing the water table around the recovery well to create a cone of depression which allows the petroleum products to flow into the recovery well. One pump in the recovery well removes the water, and the other pump removes petroleum products into storage tanks.

**ExxonMobil**

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# Facts on Remediation

## GREENPOINT BROOKLYN REMEDIATION PROJECT

### Best Available Technology (cont.)

- Although system layouts are different, each petroleum product recovery well includes a well vault, control house, storage tank and associated piping and controls. The typical well system requires approximately 750 square feet of space for each individual property.
- Each dual-pump system is designed to maximize the rate at which petroleum products are recovered from the plume in a particular geologic area.
- Petroleum product recovered in each well is stored in product storage tanks for transportation off-site and recycling.
- Groundwater recovered from each well is piped to the system's centralized water treatment plant.
- ExxonMobil remediation experts conduct annual reviews to assess alternative technologies in the context of current site and plume conditions, system performance and remediation progress. The formal annual review process supplements ongoing desktop review of technologies.
- Based on these reviews both the Off-Site and Terminal On-Site remediation systems are periodically modified, and components are replaced or updated. Currently new well-sites are being brought on-line.

