

Attachment 1

Summary of Past Cleanup Decisions at Sites with Petroleum Contaminated Groundwater

Background

- Approximately 300 sites have received an NFA letter since January 1, 2012.
- On-line information was evaluated for over 50% of this total.
- This information typically included the NFA letter or NFA determination. In some cases other information was included such as:
 1. Site investigation and remedial action reports, and
 2. Monitoring data.

General Information

- LUST systems were responsible for the contamination at approximately 85% of the sites.
- It was not always possible to determine the exact source of the release for these sites.
- Restrictive covenants were used to address residual contamination in about 11% of the cases.

Soil Cleanup Levels

- The vast majority of sites (nearly 85%) used Method A for establishing soil cleanup levels.
- Over 80% of those met the Method A soil cleanup levels following remedial action.

Groundwater Cleanup Levels

- Method A groundwater cleanup levels were used at nearly 95% of the sites.
- Approximately 98% of the sites evaluated met the selected groundwater cleanup levels.

Remedy Selection

- Soil removal was used as the sole remedial option or as a portion of the remedy in nearly 87% of the cases.
- The other major remedies used were:
 - Soil vapor extraction (22%),
 - Groundwater extraction (18%),
 - Chemical injection (15%),
 - Air sparging (13%),
 - Free product removal (8%), and
 - Capping (4%)
- Approximately half of the sites with free product were spill response situation.