

April 12, 2016

Ms. Terri Kistler 4932 Boston Harbor Road NE Olympia, Washington 98506-1852

Project: Gull Harbor Mercantile

4932 Boston Harbor Road NE Olympia, Washington 98506-1852 Ecology Facility/Site No.: 5646874 Ecology Cleanup Site ID No.: 5372

**RE:** Consulting Services & Scope of Work (WO5-05-218-041216)

Dear Ms. Kistler:

Associated Environmental Group (AEG) has prepared this Work Order (WO) for completing a remedial investigation at the Gull Harbor Mercantile, located at the above-referenced address in Olympia, Washington (Site). To support completing the Remedial Investigation (RI) and in response to the Washington State Department of Ecology's (Ecology) current concerns over potential ongoing underground storage tank (UST) system leaks, AEG proposes to use vacuum excavation to expose the USTs and product lines for inspection and repair, if necessary. Additionally, AEG proposes to excavate a test pit adjacent to the building to determine whether there is residual petroleum-contaminated soil (PCS) under the building acting as a continuing source to groundwater.

## SCOPE OF WORK

Utilizing continuous numbering from previous WOs, AEG's SOW would include the following primary tasks: 15) Project Management; and 16) UST System Exposure and Inspection; Test Pit Excavation. These tasks are described in greater detail as follows:

## Task 15: Project Management

This task includes pre-construction logistics and permitting, project coordination with contractors, and scheduling.



Specific task items include the following:

- Consulting services related to project oversight and report preparation.
- Initial Site visit/evaluation, project design and subcontractor bids.
- Custodian of any and all permits, notifications, and approvals applicable to the project including all local, state, and federal requirements.
- Prepare a Site Health & Safety Plan (HASP) to establish policies and procedures to protect all personnel from the potential hazards posed by handling of contaminated soils and/or groundwater that may be encountered during excavation activities.

## Task 16: UST System Exposure and Inspection; Test Pit Excavation

UST System Exposure and Inspection would include the following:

- Fencing the area surrounding the UST and dispenser system.
- Building a gravel driveway to allow customers to continue to access the store.
- Removing concrete and asphalt above the tanks and product lines.
- Removing up to 130 cubic yards (405 tons) of backfill and soil using vacuum excavation to expose the USTs and product lines to the dispenser islands.
- Trucking and disposing of any PCS encountered at Subtitle D landfill.
- Inspecting the system for leaks.
- Backfilling product line areas with pea gravel.
- Restoring the disturbed area with asphalt and concrete.
- Removing fencing.
- Detailing the findings of the investigation in a letter report.

If a problem in the UST or piping system is detected, AEG will coordinate with UST repair contractors to provide access for repair while the Site is exposed.

Test pit excavation adjacent to the building would include the following:

- Fencing the area.
- Excavating a test pit adjacent to the building and visual/olfactory inspection of the soil.
- Obtaining soil samples from the test pit, and submitting those soil samples to an analytical laboratory for the following analyses:



- o Gasoline-range petroleum hydrocarbons (TPH) using NWTPH-Gx.
- Benzene, toluene, ethylbenzene, and xylene (BTEX) compounds using EPA Method 8260C.
- Trucking and disposing of any PCS encountered within the test pit (estimated 14 cubic yards [about 19 tons]) at Subtitle D landfill.
- Backfilling and compacting excavation with ¾-inch minus.
- Restoring the disturbed area with asphalt and concrete.
- Removing fencing.

The attached Figure 1, *Proposed Excavation Area*, illustrates the approximate limits of the areas to be exposed, as well as the location of the temporary gravel driveway.

A Washington State Registered Site Assessor (RSA) will perform all work. All reports generated by AEG will be reviewed by a Washington State licensed hydrogeologist. A Principal of AEG will provide quality assurance.

## Schedule

AEG anticipates completing field work within two to three months following contract execution to allow for lower groundwater levels. This schedule can be impacted by factors outside the control of AEG, including changes in project information material to the analysis. Should changes occur, AEG will notify the Client if these changes will affect the schedule.

Sincerely,

Michael S. Chun

General Manager/Principal

Associated Environmental Group, LLC

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Attached: Figure 1 – Proposed Excavation Area

