



June 17, 2019
G-Logics File 01-0410-M

Washington State Department of Ecology, NW Region
Mr. Dale Myers
3190 160th Avenue SE
Bellevue, WA 98008

Subject: DRAFT Progress Memo, May 1 to 31, 2019
Boeing Field Chevron
Ecology Facility-Site ID: 2551
Agreed Order: DE-10947
10805 East Marginal Way South
Tukwila, WA

Dear Mr. Myers:

This progress memo has been prepared per the Agreed Order requirements for the Boeing Field Chevron Site to document activities that occurred during the month of May. This memo is understood to fulfill the reporting obligations established in the Agreed Order (No. DE 10947). Presented below is information for each of the eight Agreed Order Progress Memo topics.

1 – Actions Taken at the Property to Comply with Agreed Order No. DE 10947

G-Logics performed an air-sparge / soil-vapor extraction (AS/SVE) Feasibility Study Pilot Test on May 1, 2, and 3, 2019. The objectives and approach of this test are summarized below, and will be discussed in greater detail in the pending Feasibility Study Pilot Test Report.

2 – Summary of Sampling and Testing

The following test activities were completed to meet the pilot-test objectives.

2.1 – Days 1 and 2: SVE Step Test

This first phase evaluated the effects of applying SVE to vadose zone soils at the Site. During this test, vacuum was applied in increasing increments (ranging from 10 inH₂O to 35 inH₂O) to the test well (SVE-1), with differential pressures measured in the surrounding observation wells (TW-1, TW-2, TW-3, IP-4, MW-26S). Test well locations are shown on the attached Figure 2.

2.2 – Day 2: AS/SVE Test in the upper-saturated zone

The second phase evaluated the effects of applying SVE to vadose zone soils while AS was concurrently applied within the upper-saturated zone (well AS-1). During this test, pressure and headspace vapor concentrations were measured in the surrounding observation wells (listed above). Depth to water (DTW), rate of bubbling (if observed), and dissolved oxygen (DO) also were measured periodically in the observation wells.

2.3– Day 3: AS/SVE Test in the lower-saturated zone

This phase of testing assessed the ability to inject air into the lower saturated zone (well AS-2) and evaluated the vapor transmissivity between the lower and upper-saturated zones. During this test, pressure and headspace vapor concentrations were measured in the surrounding observation wells, along with DTW, rate of bubbling (if observed), and DO. The observation wells used for this phase included those listed above plus wells IP-5, IP-7, MW-26D, MW-28S, MW-28D, and AS-1.

2.4–SVE-System Air Sampling

Vapor concentrations were periodically screened at the SVE-1 wellhead using a PID (calibrated to a 100-ppmv isobutylene calibration standard). A total of 14 samples were collected over the three days of testing (13 from the SVE-1 wellhead, and 1 from the vacuum-blower inlet) and were submitted for laboratory analysis for GRO and BTEX compounds.



3 – Summary of Deviations from the Approved Workplan

There are currently no deviations from the approved workplans for this reporting period.

4 – Summary of Contacts with Representatives from Local Community, Public Interest Groups, Press, and Federal, State, and Tribal Governments

No meetings or communication with public or private groups were conducted during this reporting period.

5 – Summary of Problems or Anticipated Problems in Meeting the Schedule or Objectives

Nothing to state during this reporting period.

6 – Summary of Solutions Developed and Implemented or Planned to Address Problems

Nothing to state during this reporting period.

7 – Changes in Key Personnel

There are no personnel changes to report.

8 – Description of Work Planned for Next Reporting Period

The Feasibility Study Pilot Test report is currently undergoing internal review. G-Logics anticipates submitting the draft report for Ecology review in early July.

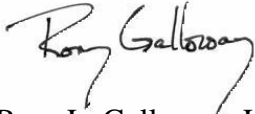


Closing

Please contact us at your convenience with any questions regarding this progress memo.

Sincerely,

G-Logics, Inc.



Rory L. Galloway, LG, LHG
Principal



Zackary S. Wall, LG
Project Geologist

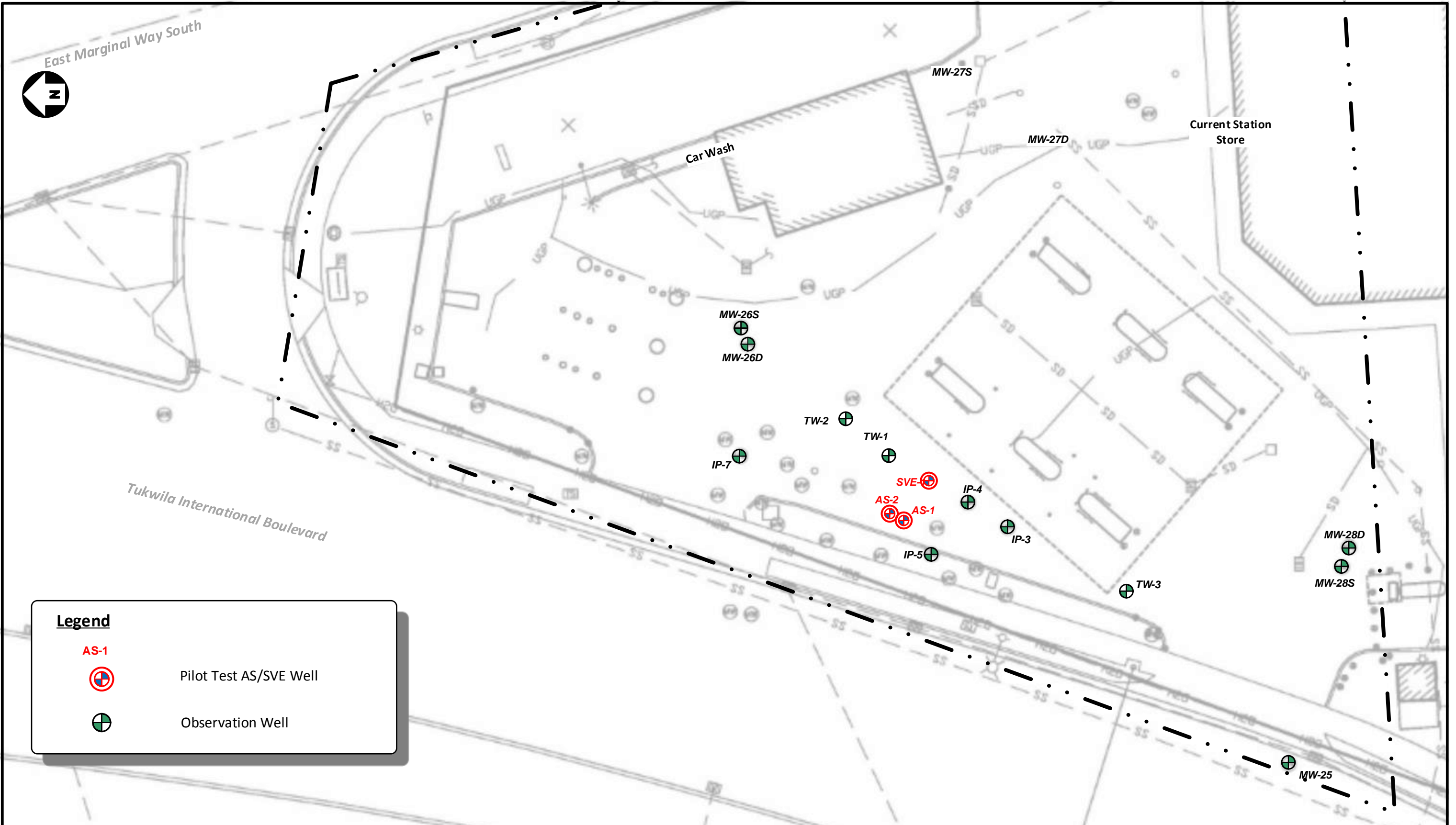


Dan Hatch
Remediation Manager



Attachments: Figure 2, Feasibility Pilot Test Wells

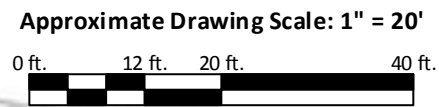
ATTACHMENTS

Project File: 01-0410-0 F2 Pilot Test Wells.vsd



Legend

- AS-1
-  Pilot Test AS/SVE Well
-  Observation Well



Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Feasibility Pilot Test Wells
 Boeing Field Chevron
 10805 East Marginal Way South
 Tukwila, WA

Figure
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