

## **Agenda**

Union Station Site  
Seattle, Washington

August 2, 2024

- I. Introductions
- II. Groundwater Monitoring Requirements
  - A. Established per Consent Decree with Ecology – CAP Table 3.
  - B. April 2024 Groundwater Monitoring Event
    - i. Performed per Ecology-approved Groundwater Monitoring Work Plan
    - ii. Summary of results
- III. Data objectives for Additional Groundwater Monitoring
  - A. Stable or decreasing groundwater data trends
  - B. Applicable COCs based on suspected source
  - C. Frequency of Groundwater Monitoring
- IV. Action Items
  - A. Determine applicability of Constituents of Concern and Screening Levels

Meeting Notes:

### Groundwater Monitoring Requirements

- Discussed reason for increased groundwater monitoring frequency is based on 2019 exceedances of site-specific groundwater cleanup levels (CULs) at conditional points of compliance (monitoring wells MW-101R and MW-105), which triggered additional groundwater monitoring requirements per Table 3 of the CAP.
  - Analytical results from follow up sampling event performed in 2021 included exceedances CULs for benzene at MW-101R and arsenic at upgradient well B-6R, triggering quarterly monitoring for one year per CAP Table 3.
- Summarized April 2024 groundwater monitoring event analytical results:
  - CUL exceedances of benzene at MW-105;

- Polycyclic aromatic hydrocarbons (PAHs) at MW-101R;
- Arsenic only exceeded the Puget Sound background concentration at upgradient well B-6R.
- Discussed lab versus field filtration of dissolved arsenic samples.
  - Field filters are not completely effective at removing particles greater than 0.45 microns in size and Apex Laboratories senior chemist advises lab filtration of samples for dissolved arsenic.
- Ecology confirmed that arsenic is not the risk driver for the Union Station Site and that concentrations are consistent with or close to Puget Sound background levels in the region. Ecology requested that arsenic continue to be monitored for during future groundwater monitoring events.

#### Data Objectives for Groundwater Monitoring

Discuss applicable constituents of concerns (COCs) for the Union Station Site.

- Farallon provided data interpretation summary from Apex Laboratories regarding the flagged detections of total petroleum hydrocarbons as diesel range organics (DRO). Apex Laboratories clarified that the diesel range organics (DRO) detected do not match the standard fuel pattern and the peaks are attributed to the presence of PAHs, specifically naphthalene, methylnaphthalene and alkylated PAHs, and are not representative of diesel fuel, gasoline, or oil range standard fuel patterns.
- Apex Laboratories suggests running an expanded EPA Method 8270 to include alkylated PAHs to further determine the percentage of mass showing up in DRO attributable to PAHs. Ecology agrees with the expanded 8260 scan approach for the next sampling event.
- Farallon proposed reducing the analyte list to PAHs, benzene, toluene, ethylbenzene and xylenes (BTEX) and arsenic.
  - Ecology requested that petroleum hydrocarbons be analyzed for, along with the expanded 8270 scan, for the next quarterly event.
  - If results are consistent then Ecology concurred that we can discontinue and/or eliminate analyzing for petroleum hydrocarbons moving forward.
- Ecology agrees that based on the existing data trends it is reasonable to reduce the future analyte list to PAHs, BTEX and arsenic.

### Frequency of Groundwater Monitoring

- Based on stable trends in groundwater concentrations, discussed the opportunity to revisit the groundwater monitoring conditions presented in Table 3 of the CAP.
- Ecology concurred that upon completion of the required four quarterly groundwater monitoring events that Ecology, Attorney General's Office, and Union Station representatives should meet to discuss a revision to the site-specific cleanup levels, groundwater monitoring frequency, and contingency action items that were memorialized in the CAP.

### Action Items

- Schedule Second Quarterly Groundwater Monitoring Event for August 27, 2024.
  - This will include the full analyte list per the Ecology-approved Groundwater Monitoring Work Plan.
  - This will include an expanded 8270 analysis for alkylated PAHs.
  - Ecology was flexible with the second quarterly event being completed by late August 2024.
  - Farallon will collect both field filtered samples and unfiltered non-preserved samples for analysis of dissolved metals. Unfiltered samples will be laboratory filtered prior to analysis. Both field and laboratory filtered sample results for dissolved metals will be reported.
- Upon completion of the Second Quarterly Groundwater Monitoring Event coordinate a follow up call with Ecology to discuss the data set and confirm a reduction of the groundwater analyte list for the third and fourth quarterly groundwater monitoring events.