

From: [Song, Jing \(ECY\)](#)
To: [Knecht, Renee](#)
Cc: Toni.DeMayo@shell.com
Subject: RE: NW2048 - 803 NW Market St Seattle Project update
Date: Monday, June 5, 2023 1:06:22 PM
Attachments: [image001.png](#)

Renee,

Thank you for submitting the project update and requesting Ecology's comment.

Ecology reviewed the groundwater sampling data and has the following comments.

- When comparing diesel- and heavy-oil range petroleum hydrocarbons (TPH-D and TPH-O) to MTCA Method A cleanup level, the concentrations of TPH-D and TPH-O should be added together to compare with the cleanup level of 2,000 mg/kg (for soil) and 500 µg/L (for groundwater). Please refer to Ecology's [Implementation Memorandum No. 4](#) for more detail.
- Monitoring wells MW-17, MW-21, MW-26, and MW-27 are located near the north, east, and southeast boundary of the northeast plume. These wells can provide important data for plume delineation and stability. These wells should be sampled quarterly.
- Monitoring well MW-18 is located near the LNAPL well MW-14, and contaminated well MW-38. Ecology does not concur that the exceedance detected July 2022 is an anomaly at this point. Ecology recommends quarterly monitoring at this well to determine the groundwater condition at this location.
- Monitoring well MW-16, MW-34, and MW-47 are located near the boundary of the southwest plume. These wells should be sampled quarterly to provide plume delineation and stability data.
- Monitoring well MW-23 was occasionally detected to contain LNAPL. This well should be sampled quarterly to evaluate the LNAPL and plume stability.
- Monitoring well MW-32, MW-35, MW-34, and MW-44 should be sampled semi-annually to assess the groundwater condition near the LNAPL and evaluate the LNAPL stability.
- In summary, Ecology recommends the following groundwater sampling plan:
 - Quarterly gauging of MW-14 through MW-24, MW-26, MW-27, and MW-32 through

MW-47.

- Quarterly sampling of MW-16, MW-17, MW-18, MW-21, MW-26, MW-27, MW-34, MW-39 (replacement well, MW-39R), MW-40, MW-41, MW-42, MW-43, MW-46, and MW-47.
- Semi-annual sampling of MW-15, MW-19, MW-23, MW-32, MW-33, MW-35, MW-37, MW-38, MW-44, and MW-45.
- No sampling of MW-20, MW-22, and MW-24.

In addition, I noticed that MW-39 is consistently being dry or does not have sufficient water for sampling. And quarterly monitoring is proposed for a replacement well MW-39R. Is this replacement well MW-39R installed?

Please let me know if you have any questions regarding Ecology's comments.

Jing Song, LG, LHG

Voluntary Cleanup Program Site Manager | Toxics Cleanup Program | WA Department of Ecology,
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Cell: (425) 229-2565 | **Email:** jing.song@ecy.wa.gov

From: Knecht, Renee <Renee.Knecht@aecom.com>

Sent: Wednesday, April 19, 2023 11:13 AM

To: Song, Jing (ECY) <JISO461@ECY.WA.GOV>

Cc: Toni.DeMayo@shell.com

Subject: RE: NW2048 - 803 NW Market St Seattle Project update

Hi Jing-

This letter update was meant to be specific to vapor but also wanted to give you an update on groundwater and our planned next steps with a Remedial Investigation Work Plan that would include the items you are asking for in one inclusive document. I have attached the well logs for MW-38 through MW-47.

Hope you are doing well.

Renee

Renee Knecht, LG

she/her/hers

Senior Geologist/Project Manager

Direct: 206.403.4259 Cell: 206.992.1095

Email: renee.knecht@aecom.com

From: Song, Jing (ECY) <JISO461@ECY.WA.GOV>
Sent: Tuesday, April 18, 2023 2:22 PM
To: Knecht, Renee <Renee.Knecht@aecom.com>
Cc: Toni.DeMayo@shell.com
Subject: RE: NW2048 - 803 NW Market St Seattle Project update

Thank you Renee. Please also send the boring logs for the newly installed wells MW-38 to MW-47.

From: Knecht, Renee <Renee.Knecht@aecom.com>
Sent: Tuesday, April 18, 2023 1:58 PM
To: Song, Jing (ECY) <JISO461@ECY.WA.GOV>
Cc: Toni.DeMayo@shell.com
Subject: RE: NW2048 - 803 NW Market St Seattle Project update

Hi Jing-

Attached are the Ecology decommissioning logs from the drillers. The “intermediate screened” monitoring wells MW-7 through MW-13 were decommissioned January 9, 2022.

Please let me know if you have any additional questions.

Thanks

Renee

Renee Knecht, LG
she/her/hers
Senior Geologist/Project Manager
Direct: 206.403.4259 Cell: 206.992.1095
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From: Song, Jing (ECY) <JISO461@ECY.WA.GOV>
Sent: Monday, April 17, 2023 3:09 PM
To: Knecht, Renee <Renee.Knecht@aecom.com>
Cc: Toni.DeMayo@shell.com
Subject: RE: NW2048 - 803 NW Market St Seattle Project update

Renee,

In Ecology’s April 23, 2021 Opinion Letter, Ecology requested decommissioning “intermediate screened” monitoring wells MW-7 through MW-13. Have these wells been decommissioned? If yes, please provide the well decommission log.

Thanks,

Jing

From: Song, Jing (ECY)
Sent: Monday, April 17, 2023 2:53 PM
To: Knecht, Renee <Renee.Knecht@aecom.com>
Cc: Toni.DeMayo@shell.com
Subject: RE: NW2048 - 803 NW Market St Seattle Project update

Renee,

Please provide the boring logs for the newly installed wells. They are not included in the March 2023 report. Thanks,

Jing

From: Knecht, Renee <Renee.Knecht@aecom.com>
Sent: Tuesday, March 7, 2023 7:18 AM
To: Song, Jing (ECY) <JISO461@ECY.WA.GOV>
Cc: Toni.DeMayo@shell.com
Subject: RE: NW2048 - 803 NW Market St Seattle Project update

Good morning Jing. Yes we would like your response to the letter.

Thank you

Renee Knecht, LG
she/her/hers
Senior Geologist/Project Manager
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From: Song, Jing (ECY) <JISO461@ECY.WA.GOV>
Sent: Monday, March 6, 2023 8:06 AM
To: Knecht, Renee <Renee.Knecht@aecom.com>
Cc: Toni.DeMayo@shell.com
Subject: RE: NW2048 - 803 NW Market St Seattle Project update

Thank you Renee. Do you request an opinion at this time?

From: Knecht, Renee <Renee.Knecht@aecom.com>
Sent: Friday, March 3, 2023 2:01 PM
To: Song, Jing (ECY) <JISO461@ECY.WA.GOV>

Cc: Toni.DeMayo@shell.com

Subject: NW2048 - 803 NW Market St Seattle Project update

Hi Jing-

Attached for your review and comment are the results of the vapor investigation and groundwater monitoring for 2022, NW2048 – 803 NW Market St 2023 Vapor Results Update Ltr_230303. Please let me know if you would like to discuss this project update and our path forward.

I have also attached a letter for your records of the change in Shell Program Manager.

Hope you are doing well and have a great weekend.

Renee

Renee Knecht, LG

she/her/hers

Senior Geologist/Project Manager

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