

**From:** [Warfel, Michael \(ECY\)](#)  
**To:** [Kucharski, Margaret](#)  
**Cc:** [Meg Strong](#); [Boyd, Robyn](#); [Funis, Chelsey \(Consultant\)](#)  
**Subject:** RE: 520 Program - Montlake Gas Station (VCP NW3242)  
**Date:** Friday, June 9, 2023 9:54:57 AM

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Hi Margaret:

Thank you for providing the information regarding monitoring well MW-7-22. Ecology concurs with the following planned activities regarding this well:

- Collection of a final groundwater sample prior to well decommissioning;
- Decommissioning of the well (following requirements of WAC 173-160-460; and
- Not replacing the well, given the past groundwater sampling results showing contaminants of concern below Method A cleanup levels.

Mike

*Michael R. (Mike) Warfel, LG, LHG, RG*  
*Site Manager, Voluntary Cleanup Program*  
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Ecology web site: <https://ecology.wa.gov/>

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**From:** Kucharski, Margaret <KucharM@wsdot.wa.gov>  
**Sent:** Friday, June 9, 2023 9:35 AM  
**To:** Warfel, Michael (ECY) <MWAR461@ECY.WA.GOV>  
**Cc:** Meg Strong <Meg.Strong@shanwil.com>; Boyd, Robyn <BoydRL@wsdot.wa.gov>; Funis, Chelsey (Consultant) <FunisCh@consultant.wsdot.wa.gov>  
**Subject:** 520 Program - Montlake Gas Station (VCP NW3242)

Good morning Mike – Hope you are doing well!

I'm writing to inform you that due to construction related work we will be decommissioning one of the monitoring wells (MW-7-22) at the former Montlake Gas Station (Exhibit 1). Monitoring well MW-7-22 is currently being sampled on a quarterly basis as part of the post remediation compliance work. The results from groundwater samples collected during the preceding five quarters have been below the cleanup levels and have mostly been non-detect (see attached Draft Exhibit 3 for Q5).

The reason that monitoring well MW-7-22 will need to be decommissioned is because a signal pole is slated to be installed immediately adjacent to the well. The work is anticipated to occur in July 2023. The work to install the signal pole will damage the monitoring well if it were to remain. Consequently, it is proposed that the well be decommissioned. We do intend to collect a groundwater sample from monitoring well MW-7-22 prior to decommissioning the well.

Given the previous groundwater sampling results at MW-7-22 have been below the cleanup levels for five consecutive quarters, we do not feel it would be necessary to replace monitoring MW-7-22. However, we would appreciate your opinion on the matter.

Thanks much – Margaret

**Margaret Kucharski**

**WSDOT Environmental Services Office**

Megaprograms Environmental Manager

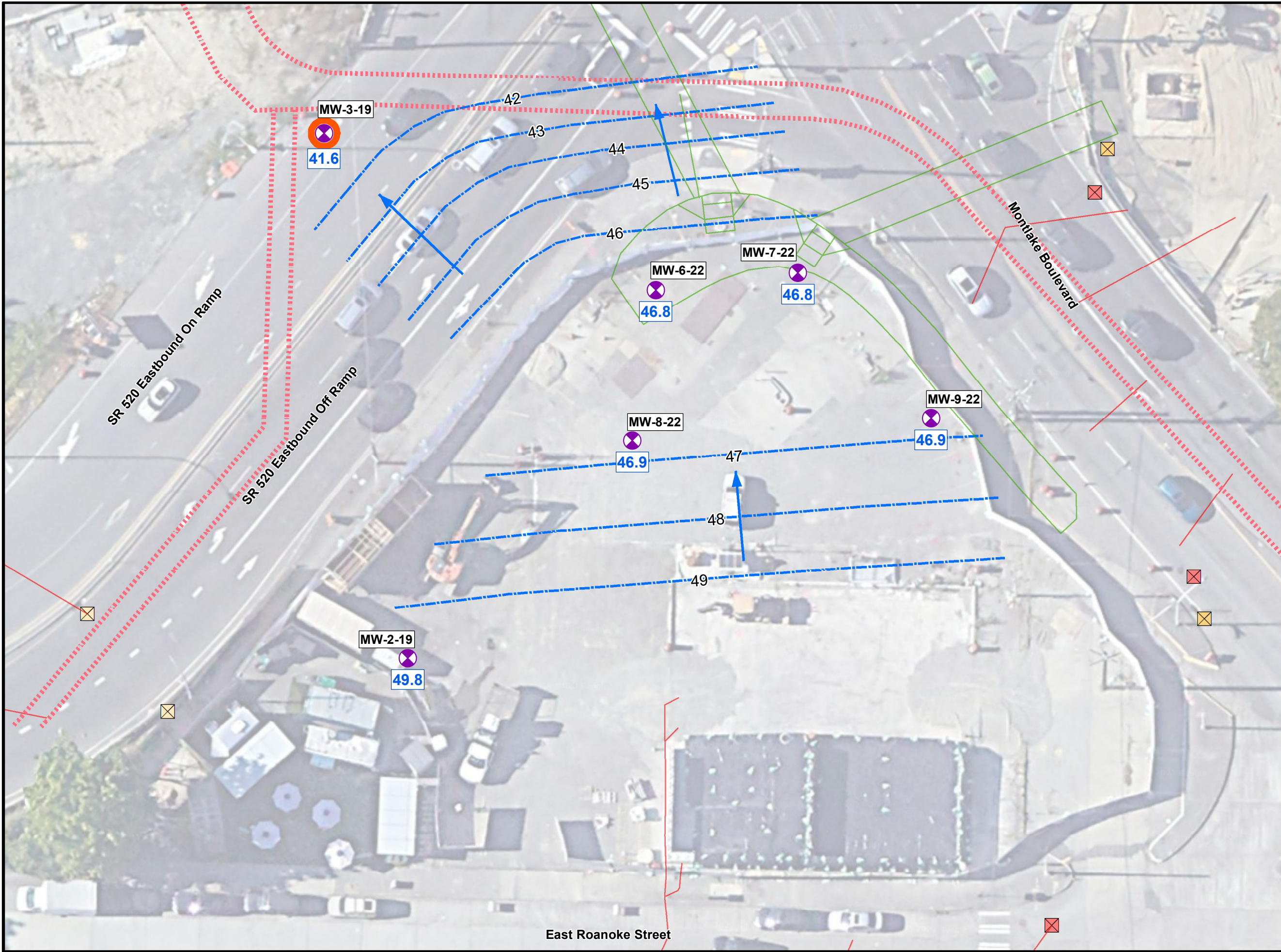
**Office:** 206-704-0971

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### LEGEND

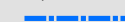
Monitoring Well Location and Designation



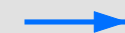
Well With Groundwater Concentrations Exceeding Applicable Cleanup Levels



Interpolated Groundwater Elevation (Feet, NAVD 88)



Interpolated Groundwater Flowline



Groundwater Elevation at Monitoring Well (February 2023)



Existing Utility - Catch Basin



Existing Utility - Inlet



Existing Utility - Wastewater Pipe



Existing Utility - Sewer or Combined-Sewer Line



Approximate Post Construction Crosswalk/Sidewalk Configuration



#### NOTE:

All Existing Utility data should be considered approximate. City of Seattle, 2019.



SR 520 Bridge Replacement and HOV Program  
 SR 520 I-5 to Montlake -I/C and Bridge Replacement  
 Groundwater Monitoring Report No. 4  
 2625 East Montlake Place East  
 Seattle, WA

**GROUNDWATER POTENTIOMETRIC SURFACE MAP WITH GROUNDWATER ELEVATION**  
 March 2023 21-1-22242-104

**SHANNON & WILSON, INC.**  
 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

EXHIBIT 1



**EXHIBIT 3  
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**

Montlake Gas Station Monitoring Well	Sample Date	Petroleum Hydrocarbons (µg/L)			Volatile Organic Compounds (µg/L) <sup>3</sup>					Metals (µg/L) <sup>4</sup>	
		Gasoline Range Organics <sup>1</sup>	Diesel Range Organics <sup>2</sup>	Lube Oil Range Organics <sup>2</sup>	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Arsenic	Dissolved Arsenic
MW-2-19	10/17/2019	<100	<260	<420	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	5/2/2022	<100	<180	<240	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	8/16/2022	<100	<130	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	11/15/2022	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	2/14/2023	<100	<200	<200	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
5/17/2023	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0	
MW-3-19 <sup>5</sup>	10/17/2019	<b>1400</b>	<b>630</b>	<b>660</b>	<b>98</b>	<4	<b>24</b>	<b>9.3</b>	<b>1.1</b>	<b>17</b>	<b>7.4</b>
	5/2/2022	<b>5800</b>	<b>1300 M</b>	<b>500</b>	<b>170</b>	<10	<b>190</b>	<b>220</b>	<b>3.2</b>	<b>16</b>	<b>11</b>
	2/14/2023	<b>7300</b>	<b>2100 M</b>	<b>320</b>	<b>140</b>	<5.0	<b>72</b>	<b>94</b>	<b>2.3</b>	<b>22</b>	<b>13</b>
	5/17/2023	<b>8400</b>	<b>&lt;1700 M</b>	<b>340</b>	<b>100</b>	<20	<b>79</b>	<b>120</b>	<4.0	<b>25</b>	<b>14</b>
MW-6-22	5/2/2022	<100	<b>210</b>	<b>330</b>	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	8/16/2022	<100	<130	<b>290</b>	<0.20	<1.0	<0.20	<0.40	<0.20	<b>6.3</b>	<b>4.5</b>
	11/15/2022	<100	<200	<200	<0.20	<1.0	<0.20	<0.40	<0.20	<b>7.3</b>	<b>4.6</b>
	2/14/2023	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	5/17/2023	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
MW-7-22	5/2/2022	<100	<170	<230	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	8/17/2022	<100	<130	<b>250</b>	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	11/15/2022	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	11/15/2022	<100	<210	<b>220</b>	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	2/14/2023	<100	<200	<200	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
5/17/2023	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0	
MW-8-22	5/2/2022	<100	<170	<220	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	5/2/2022	<100	<170	<b>240</b>	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	8/16/2022	<100	<130	<b>360</b>	<0.20	<1.0	<0.20	<0.40	<0.20	<b>6.6</b>	<b>3.8</b>
	8/16/2022	<100	<140	<b>340</b>	<0.20	<1.0	<0.20	<0.40	<0.20	<b>6.5</b>	<b>4.3</b>
	11/15/2022	<100	<200	<200	<0.20	<1.0	<0.20	<0.40	<0.20	<b>6</b>	<b>5.7</b>
	2/14/2023	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<b>4.2</b>	<3.0
	2/14/2023	<100	<200	<200	<0.20	<1.0	<0.20	<0.40	<0.20	<b>4.4</b>	<3.0
	5/17/2023	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<b>4</b>	<3.0
5/17/2023	<100	<220	<220	<0.20	<1.0	<0.20	<0.40	<0.20	<b>4.1</b>	<3.0	
MW-9-22	5/2/2022	<100	<160	<220	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	8/17/2022	<100	<b>1900</b>	<300	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	11/15/2022	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<3.0
	2/14/2023	<100	<210	<210	<0.20	<1.0	<0.20	<0.40	<0.20	<3.3	<b>3.0</b>
	5/17/2023	<100	<220	<220	<0.20	<1.0	<0.20	<0.40	<0.20	<b>3.9</b>	<3.0
Trip Blank	5/2/2022	<100	--	--	<0.20	<1.0	<0.20	<0.40	<0.20	--	--
	8/18/2022	<100	--	--	<0.20	<1.0	<0.20	<0.40	<0.20	--	--
	11/15/2022	<100	--	--	<0.20	<1.0	<0.20	<0.40	<0.20	--	--
	2/14/2023	<100	--	--	<0.20	<1.0	<0.20	<0.40	<0.20	--	--
<b>MTCA Method A CUL</b>		<b>1000/800*</b>	<b>500</b>	<b>500</b>	<b>5.00</b>	<b>1000</b>	<b>700</b>	<b>1000†</b>	<b>1000†</b>	<b>20§</b>	<b>20§</b>

**NOTES:**

- 1 Gasoline-range petroleum hydrocarbons using Washington State Department of Ecology's (Ecology's) NWTPH-Gasoline Extended Method
- 2 Diesel- and oil-range petroleum hydrocarbons using Ecology's NWTPH-Diesel Extended Method
- 3 Volatile organic compounds by EPA Method 8260D
- 4 Total and dissolved arsenic by EPA Method 200.8
- 5 In August and November 2022, MW-3-19 had measurable free product and was not sampled.
- Highlighted text indicates the analyte was detected above the MTCA Method A CUL.
- Highlighted text indicates the analyte was not detected, however the practical quantitation limit is above the MTCA Method A CUL.
- Bold** text indicates the analyte was detected above laboratory practical quantitation limit.
- M flag indicates hydrocarbons in the gasoline range are impacting the diesel range result.
- \* Cleanup level (CUL) for gasoline-range organics is 1,000 µg/L without the presence of benzene and 800 µg/L with the presence of benzene.
- † MTCA Method A CUL for total xylenes is used because a MTCA Method A CUL is not established for the isomers of m-, p-, or o-xylene.
- § Site specific CUL for arsenic (total and dissolved) based on statistical analysis of natural background levels of arsenic in groundwater.
- = not analyzed; < = not detected above laboratory reporting limit; µg/L = micrograms per liter; CUL = cleanup level; EPA = U.S. Environmental Protection Agency; MTCA = Model Toxics Control Act; NWTPH = Northwest Total Petroleum Hydrocarbon