



May 1, 2018

Department of Ecology, NW Region
3190 160th Avenue SE
Bellevue, WA 98008

Attn: Ms. Diane Escobedo, VCP Site Manager
P: (425) 649-7097
E: diane.escobedo@ecy.wa.gov

and

PNEC Corporation d.b.a. SC Fuels
1800 West Katella Avenue, Suite 400
Orange, CA 92867

Attn: Mr. De Holbrook
P: 714-516-7273
E: holbrookd@scfuels.com

Re: **Work Plan for Additional Soil, Groundwater, and Sediment Sampling**
Former Tosco Bainbridge Island Bulk Plant 1784
Weaver Avenue & Shepard Way NW
Bainbridge Island, Kitsap County, Washington
Cleanup Site ID No. 3690 Facility/Site ID No. 26595127
VCP Project No. NW3070
Terracon Project No. 81177343

Dear Ms. Escobedo and Mr. Holbrook:

Terracon Consultants, Inc. (Terracon) is pleased to present the Washington Department of Ecology (Ecology) and PNEC Corporation (PNEC) with the following work plan for performing additional soil, groundwater, and sediment sampling at the above-referenced site.

The proposed scope of work includes advancing up to 11 direct-push technology soil borings and collecting soil and/or groundwater samples from the borings; collecting groundwater samples from existing monitoring wells MW-@a, MW-4, and MW-5; and collecting a sediment sample from the beach at the onsite retention pond discharge pipe. This work was discussed with Ecology during a meeting at Ecology's Northwest Regional Office in November 2017. This work plan is being submitted to Ecology under the Voluntary Cleanup Program (VCP) in order to obtain a No Further Action (NFA) letter from Ecology.



Terracon Consultants, Inc. 21905 64th Avenue West, Suite 100 Mountlake Terrace, Washington 98043
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Environmental

Facilities

Geotechnical

Materials

1.0 PROJECT INFORMATION

The site is a former heating oil bulk petroleum storage facility located in Kitsap County at the southwest corner of the intersection of Shepard Way NW and Bromley Place NW east of Weaver Avenue in Bainbridge Island, Washington (Kitsap County Parcel No. 272502-4-005-2011). The property is located in the southwest quarter of the southeast quarter of section 27, township 25 north, range 2 east.

The 0.9-acre parcel is unpaved, and measures approximately 60 feet wide (east to west) and 600 feet long. The surrounding properties are residential or undeveloped park property. Weaver Creek is located along a portion of the west side of the site, and Eagle Harbor is located at the south end of the site. A residential housing development (Leslie Landing) and associated private road (Bromley Place NW) and a City of Bainbridge Island walking path right-of-way (ROW) are located east of the site. City of Bainbridge Island park property (Strawberry Plant Park) is located west of the site. A Topographic Map and a Parcel Map that show the site in relation to the surrounding area are included as Exhibit 1 and Exhibit 1A, respectively, in Appendix A.

The facility was constructed by Union Oil Company of California (UNOCAL) in about 1970. Former site features consisted of two 10,000-gallon and two 4,000-gallon, horizontal, above ground storage tanks (ASTs); a pumping station; an overhead loading rack; and a detention pond in the southern portion of the property. A Site Diagram showing the approximate locations of former site features is included as Exhibit 2 in Appendix A. Based on a review of historical aerial photographs, there does not appear to have been any product piping from Eagle Harbor to the facility. Copies of the historical aerial photographs were provided to Ecology in Terracon's document, *Response to Ecology July 25, 2017 Opinion Letter*, dated October 12, 2017. Tosco Corporation (Tosco) acquired the site from UNOCAL in March 1997. PNEC purchased the site from Tosco in June 1997 and removed the facility ASTs, pumping station, and overhead loading rack structures in September 1997.

Several previous site assessment and remedial treatment activities have been conducted at the site by Tosco and PNEC between 1997 and 2017, as described in detail in Terracon's *Site Remediation and Monitoring Summary Report*, dated November 18, 2016. Soil and groundwater impacts exceeding the Washington State Model Toxics Control Act (MTCA) Method A cleanup levels were detected. Approximate soil boring, groundwater monitoring/remediation well, and remedial soil excavation area locations are shown on Exhibit 2. A summary of cumulative soil sample data is attached as Table 1 in Appendix B. Areas with soil impacts prior to and following remedial excavation work are depicted on Exhibit 3 and Exhibit 4, respectively, in Appendix A. A summary of cumulative groundwater sample data is attached as Table 2 in Appendix B. Historical groundwater sample data are illustrated on Exhibit 5 of Appendix A.

Based on the site history, contaminants of concern (COCs) were previously identified as gasoline-, diesel-, and oil-range TPH; BTEX; and PAHs. Following extensive remedial activities

at the site, gasoline-range TPH and BTEX are no longer detected in the site groundwater. Based on our site findings, current COCs at the site are diesel- and oil-range TPH and PAHs (see Table 2 in Appendix B).

2.0 COMMITMENT TO SAFETY

Terracon has a 100% commitment to the safety of all its employees. As such, and in accordance with our *Incident and Injury Free*® safety culture, Terracon will develop a safety plan to be used by our personnel during field services. Prior to commencement of on-site activities, Terracon will hold a meeting to review health and safety needs for this specific project. At this time, we anticipate performing fieldwork in a USEPA Level D work uniform consisting of hard hats, safety glasses, protective gloves, and steel-toed boots. It may become necessary to upgrade this level of protection while sampling activities are being conducted in the event that petroleum or chemical constituents are encountered in soils or groundwater that present an increased risk for personal exposure.

3.0 SCOPE OF SERVICES

Ecology has requested that additional soil and groundwater sampling be performed in the area of the detention pond and former remedial excavations. The proposed sampling locations are shown on Exhibit 6 in Appendix A. In addition, Ecology has requested that a sediment sample be collected from the area of the outfall pipe from the detention pond. The proposed scope of work is to perform the requested soil, groundwater, and sediment sampling work requested by Ecology.

The following activities will be performed as part of the planned field activities:

- Update the existing site specific health and safety plan.
- Arrange for and coordinate the services of a drilling subcontractor.
- No later than 72 hours prior to intrusive activities, Terracon will contact the utility locator service to arrange for underground utility clearance for the proposed explorations.

3.1 Utility Locates in Work Area

In an effort to locate utilities in the work area, Terracon will review any site plans provided to us and no later than 72 hours prior to intrusive activities for the drilling event will contact the utility locator service to arrange for underground utility clearance for the proposed explorations. To the extent practicable, the locations and depths of the various utilities will be identified to avoid damage to such utilities.

In addition to the public utility locate, a private utility line locate survey will be performed at the site during the drilling event to identify utilities in the proposed areas of exploration using

geophysical investigation techniques. The survey will be completed by a subcontractor accompanied by Terracon field personnel. The geophysical survey subcontractor will also assist Terracon in tracing the discharge pipe from the detention pond and attempt to locate the outfall pipe at the beach.

3.2 Soil and Groundwater Sampling, Former Bulk Plant/Detention Pond Area

A subcontract drilling crew and a Terracon field geologist will be used to perform the soil and groundwater sampling in the area of the detention pond and former remedial excavations. The soil borings will be advanced utilizing a direct-push technology (DPT) track-mounted rig. Up to 11 soil borings will be advanced to a maximum depth of approximately 15 feet bgs by a Washington State-licensed driller. The borings will be advanced at the approximate locations depicted on the Proposed Boring Location Map included as Exhibit 6 in Appendix A. Groundwater is anticipated to be encountered at a depth of 5 to 6 feet bgs.

Soil samples will be collected continuously from the borings a stainless steel sample barrel equipped with a clean acetate sleeve. The collected soil samples will be assessed for petroleum hydrocarbon impacts using field screening equipment (photoionization detector [PID]), sheen test, and visual and/or olfactory indicators). Up to two soil samples will be collected from each soil boring at approximately 2 to 5 feet bgs (above the groundwater table) and analyzed for chemicals of concern. For borings where no field indications of soil impacts are observed, the soil samples will be analyzed for hydrocarbon identification (HCID) as gasoline-, diesel-, or oil-range total petroleum hydrocarbons (TPH). For gasoline-range detections by HCID, follow-up analysis for gasoline-range TPH by Northwest Method NWTPH-Gx and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260 will be requested. For diesel- or oil-range detections by HCID, follow-up analysis for diesel- and oil-range TPH by Northwest Method NWTPH-Dx, BTEX by EPA Method 8260, and polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8260 with selected ion monitoring (SIM) will be requested. For borings where field impacts are noted, samples will be submitted for gasoline-range TPH, diesel- and oil-range TPH, BTEX, and PAHs analysis.

Analysis	Sample Type	Maximum No. of Samples	Method
Two soil samples collected from each boring			
TPH-HCID	Soil	22	NWTPH-HCID
Soil samples collected from each boring with observed impacts			
Gasoline-range TPH	Soil	TBD	NWTPH Gx
BTEX	Soil	TBD	EPA 8260
Diesel- and oil-range TPH	Soil	TBD	NWTPH Dx
PAHs	Soil	TBD	EPA 8270SIM

TPH = total petroleum hydrocarbons; HCID = hydrocarbon identification; BTEX = benzene, toluene, ethylbenzene, and xylenes; PAHs = polycyclic aromatic hydrocarbons; SIM = selected ion monitoring. Samples will be analyzed on a normal 10-day TAT.

In addition, the soil samples with the highest TPH results collected from up to four soil boring locations will be analyzed for the following MTCA Method B risk-based constituents:

Analysis	Sample Type	Maximum No. of Samples	Method
VPH + n-Hexane	Soil	4	NW-VPH Method
EPH	Soil	4	NW-EPH Method
VOCs + Oxygenates	Soil	4	EPA 8260
PAHs	Soil	4	EPA 8270 SIM

VPH = volatile petroleum hydrocarbons, EPH = extractable petroleum hydrocarbons, VOCs = volatile organic compounds, PAH = polycyclic aromatic hydrocarbons, and SIM = selected ion monitoring. Samples will be analyzed on a normal 10-day TAT.

Soil samples will be placed into laboratory-provided glassware, placed on ice within a cooler, and transported to a Washington State-certified analytical laboratory following standard chain-of-custody procedures.

Up to four soil borings, located near existing wells MW-2A, MW-5, former soil boring SB7 at the detention pond, and the detention pond outfall valve, will be converted to temporary groundwater monitoring wells to facilitate the collection of a groundwater sample. See Exhibit 6 for the proposed temporary monitoring well soil boring locations. The temporary groundwater monitoring wells will be constructed as follows:

- Five feet of one-inch diameter, 0.010-inch machine slotted poly vinyl chloride (PVC) well screen with a threaded bottom cap;
- A one-inch diameter, threaded, flush-joint PVC riser pipe to surface; and
- Pre-sieved 10/20 grade silica sand for annular sand pack around the well screen from the bottom of the boring to the top of the well screen.

One groundwater sample will be collected from each of the temporary monitoring wells using disposable tubing and a peristaltic pump. Purging of the temporary wells will be attempted, as practical, based on groundwater recharge rates and volumes. Grab groundwater samples will be submitted for the analyses listed below. Groundwater samples will be placed into laboratory-provided glassware, placed on ice within a cooler, and transported to a Washington State-certified analytical laboratory following standard chain-of-custody procedures.

Analysis	Sample Type	Maximum No. of Samples	Method
Groundwater samples collected from temporary monitoring wells			
BTEX	Water	4	EPA 8260
Gasoline-range TPH	Water	4	NWTPH Gx
Diesel- and oil-range TPH	Water	4	NWTPH Dx

Samples will be analyzed on a normal 10-day TAT.

In addition, groundwater samples with TPH results exceeding the MTCA Method A cleanup levels collected from up to four soil boring locations will also be analyzed for MTCA Method B risk-based constituents.

Analysis	Sample Type	No. of Samples	Method
VPH + n-Hexane	Water	TBD	NW-VPH Method
EPH	Water	TBD	NW-EPH Method
VOCs + Oxygenates	Water	TBD	EPA 8260
PAHs	Water	TBD	EPA 8270 SIM

Following the collection of the grab groundwater samples, the PVC piping will be removed from the borings. The borings will be decommissioned by placing bentonite chips inside the borehole and hydrating the bentonite with potable water. The ground surface will be restored with top soil or gravel to approximately match the existing ground surface.

3.3 Groundwater Monitoring

Terracon will collect groundwater samples from the site wells MW-2A, MW-4, and MW-5. Groundwater samples will be collected from the wells using a low-flow sampling technique. Groundwater parameters (pH, temperature, specific conductance, and dissolved oxygen) will be measured during well purging, and samples will be collected when all parameters are within 10% for two consecutive readings.

Prior to sampling the wells, Terracon will measure the depth to groundwater below the top of the PVC well casing (TOC) in all of the site monitoring/remediation wells (MW-1, MW-2A, MW-3 through MW-5, and RW-1) using an electronic water well sounder. The well TOC elevation and depth to groundwater measurements will be used to determine the groundwater elevation at each well. Based on the groundwater elevation data, Terracon will estimate the horizontal groundwater gradient at the site, and produce a groundwater contour map.

Groundwater samples plus a duplicate sample collected from well MW-5 will be analyzed for the following chemicals of concern:

Analysis	Sample Type	Maximum No. of Samples	Method
Groundwater samples collected from each well plus one duplicate sample			
BTEX	Water	4	EPA 8260
Gasoline-range TPH	Water	4	NWTPH Gx
Diesel- and oil-range TPH	Water	4	NWTPH Dx
EPH	Water	4	NW-EPH Method
PAHs	Water	4	EPA 8270 SIM

Samples will be analyzed on a normal 10-day TAT.

Groundwater samples will be placed into laboratory-provided glassware, placed on ice within a cooler, and transported to a Washington State-certified analytical laboratory following standard chain-of-custody procedures.

3.4 Sediment Sample at Detention Pond Outfall

Terracon will collect one sediment sample at the approximate location of the detention pond outfall pipe, if it can be located. The sediment sample will be collected from approximately 3 inches below grade using a stainless steel spoon. The sediment sample will be placed into laboratory-provided glassware, placed on ice within a cooler, and transported to a Washington State-certified analytical laboratory following standard chain-of-custody procedures.

The sediment sample will be analyzed for the following contaminants:

Sediment sample collected from detention pond outfall pipe area			
Gasoline-range TPH	Soil	1	NWTPH Gx
BTEX	Soil	1	EPA 8260
Diesel- and oil-range TPH	Soil	1	NWTPH Dx
PAHs	Soil	1	EPA 8270SIM

3.5 Report Preparation

Upon completion of the groundwater monitoring events, a report will be prepared that will include the following:

- Summary of previous site work;
- Documentation of field activities;
- Site plan showing pertinent site features;
- Groundwater contour map;
- Soil and groundwater concentration maps;
- Analytical laboratory results;
- Data evaluation and presentation of pertinent findings; and
- Recommendations concerning further action, if necessary.

A copy of the report will be submitted to Ecology. Assuming that soil, groundwater, and sediment sample results are in compliance with MTCA cleanup levels, the report will include a request for an Ecology Opinion Letter for consideration of an NFA determination for the site.

3.6 EIM Data Entry and Site Closure

Terracon will submit all site data into the Ecology Environmental Information Management system (EIM) database. Upon receiving an NFA determination letter from Ecology, Terracon will contract with a Washington-licensed driller to decommission the site groundwater monitoring wells. The wells will be decommissioned by placing bentonite chips inside the well casing and hydrating the bentonite with potable water. The well boxes will be sealed with concrete and left in place.

3.7 Investigation Derived Wastes

Soil cuttings, purge water, and drilling/sampling equipment decontamination water will be contained in Department of Transportation (DOT) approved drums as investigation-derived waste (IDW), properly labeled, and staged on-site pending future disposal following review of laboratory analytical data. One 25-gallon drum of soil cuttings and one 25-gallon drum of decontamination/purge water are anticipated to be generated as part of the proposed work. Once laboratory data are received, Terracon will be prepared to make recommendations for the final disposition of the materials generated during the course of completing the proposed site work.

3.8 Schedule

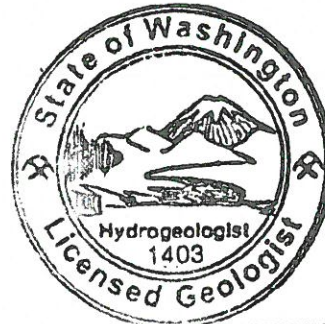
The additional soil, groundwater, and sediment sampling work will take two to three days to complete. Resource Protection Well Start Card permits will be obtained by the driller. A report of findings will be prepared within 3 weeks of receipt of all laboratory analytical results.

Please contact either of the undersigned at 425-771-3304 if you have questions regarding the information provided in this Work Plan.

Sincerely,
Terracon Consultants, Inc.



Lucas Swart, L.G.
Project Manager

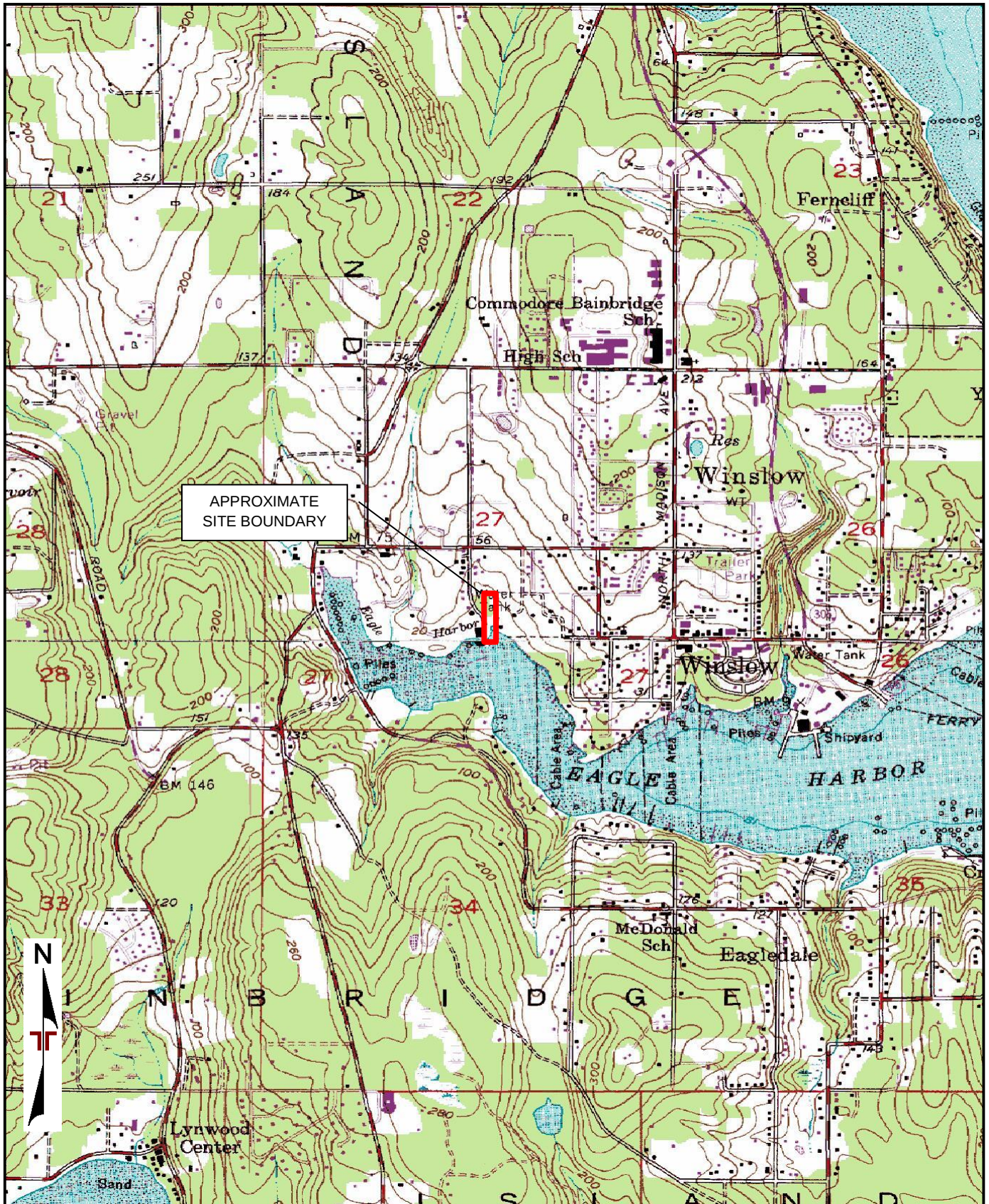



Michael D. Noll, L.G., L.H.G.
Senior Project Manager

Attachments: Appendix A - Exhibits
Appendix B - Tables

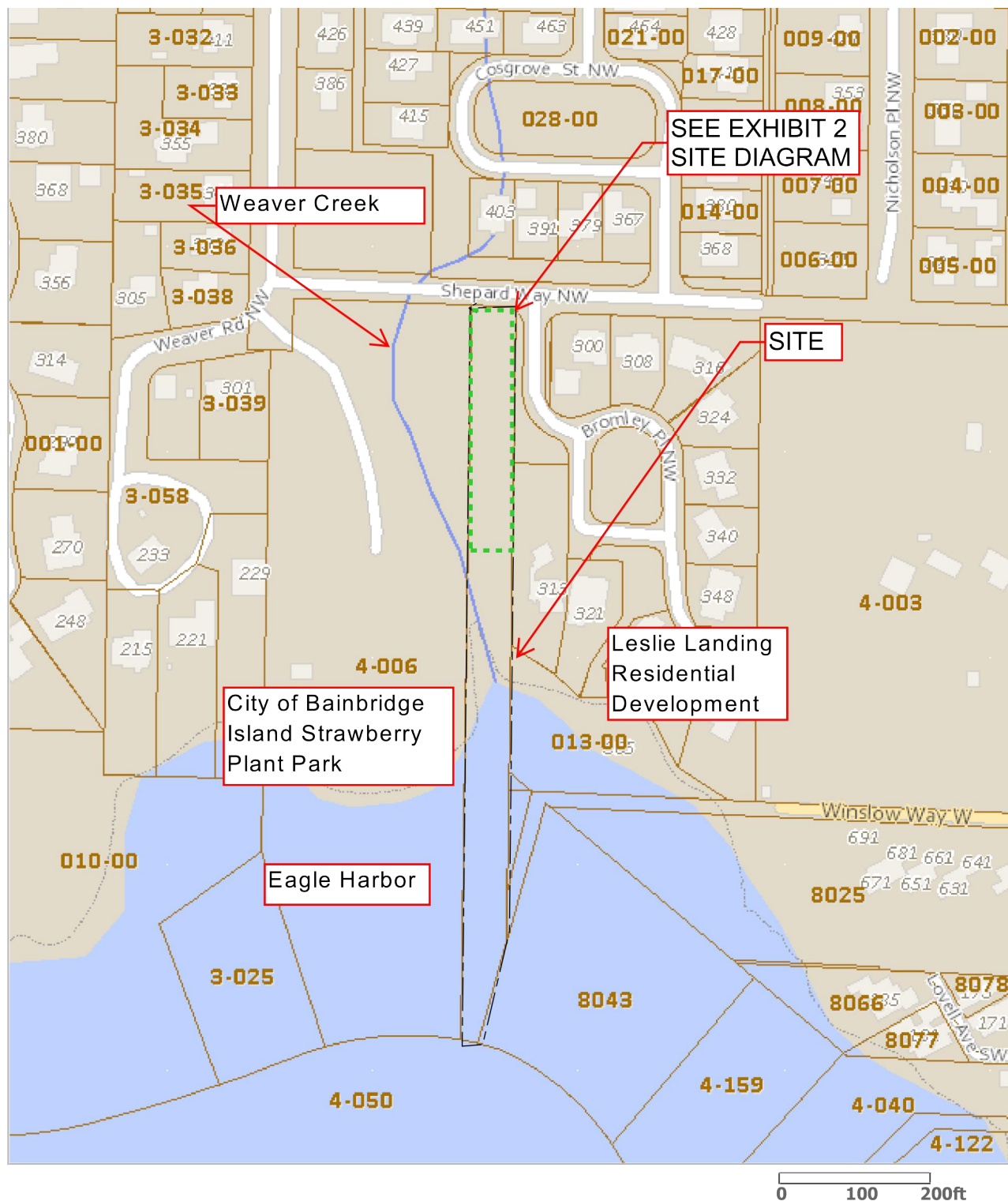
APPENDIX A

EXHIBITS



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
 QUADRANGLES INCLUDE: SUQUAMISH, WA (1/1/1997) and BREMERTON EAST, WA (1/1/1981).

Project Manager: MDN	Project No. 81177343	Terracon 21905 64th Ave W Ste 100 Mountlake Terrace, WA 98043-2251	TOPOGRAPHIC MAP	Exhibit
Drawn by: LCS	Scale: 1"=2,000'		Former Tosco Bulk Plant 1784 Weaver Avenue & Shepard Way NW Bainbridge Island, Kitsap County, Washington	1
Checked by: MDN	File Name: Exhibit			
Approved by: MDN	Date: 8/10/2017			



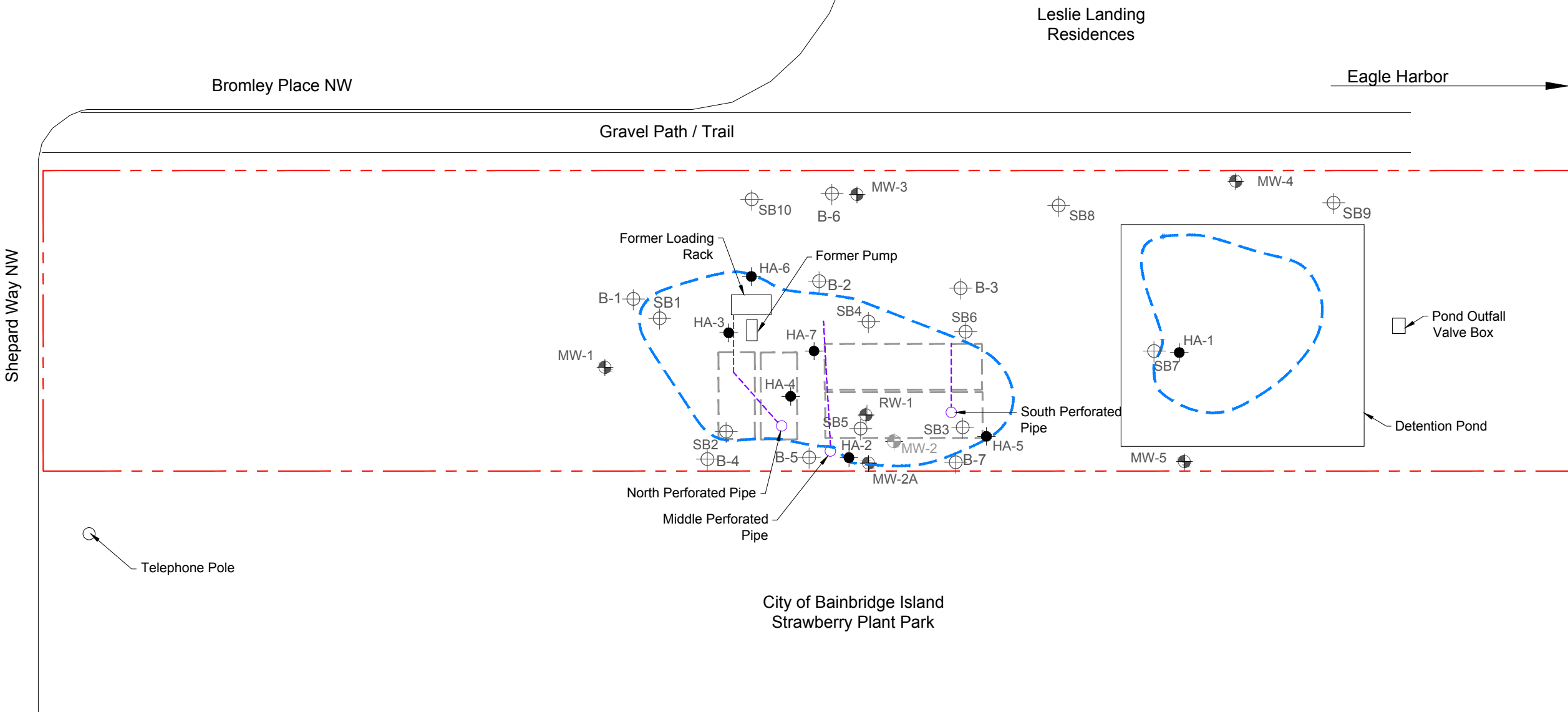
Project Mngr:	MDN	Project No.	81177343
Drawn By:	AMP	Scale:	AS SHOWN
Checked By:	MDN	File No.	Exhibit 1A
Approved By:	MDN	Date:	August 2017



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Former Tosco Bulk Plant 1784
Weaver Avenue & Shepard Way NW
Bainbridge Island, Kitsap County, Washington

1A



LEGEND			
	APPROXIMATE SITE BOUNDARY		APPROXIMATE LOCATION AND NUMBER OF DECOMMISSIONED MONITORING WELL
	APPROXIMATE LOCATION AND NUMBER OF MONITORING WELL		APPROXIMATE LOCATION AND NUMBER OF REMEDIATION WELL
	APPROXIMATE LOCATION AND NUMBER OF BORING		APPROXIMATE LOCATION OF PERFORATED PIPE RUN
	APPROXIMATE LOCATION AND NUMBER OF HAND AUGER BORING (PACIFIC ENVIRONMENTAL GROUP - SEPT. 1997)		APPROXIMATE EXTENT OF REMEDIAL EXCAVATION
			FORMER TANKS

Project Mngr:	MDN
Drawn By:	SAB/RMS
Checked By:	MDN
Approved By:	MYW

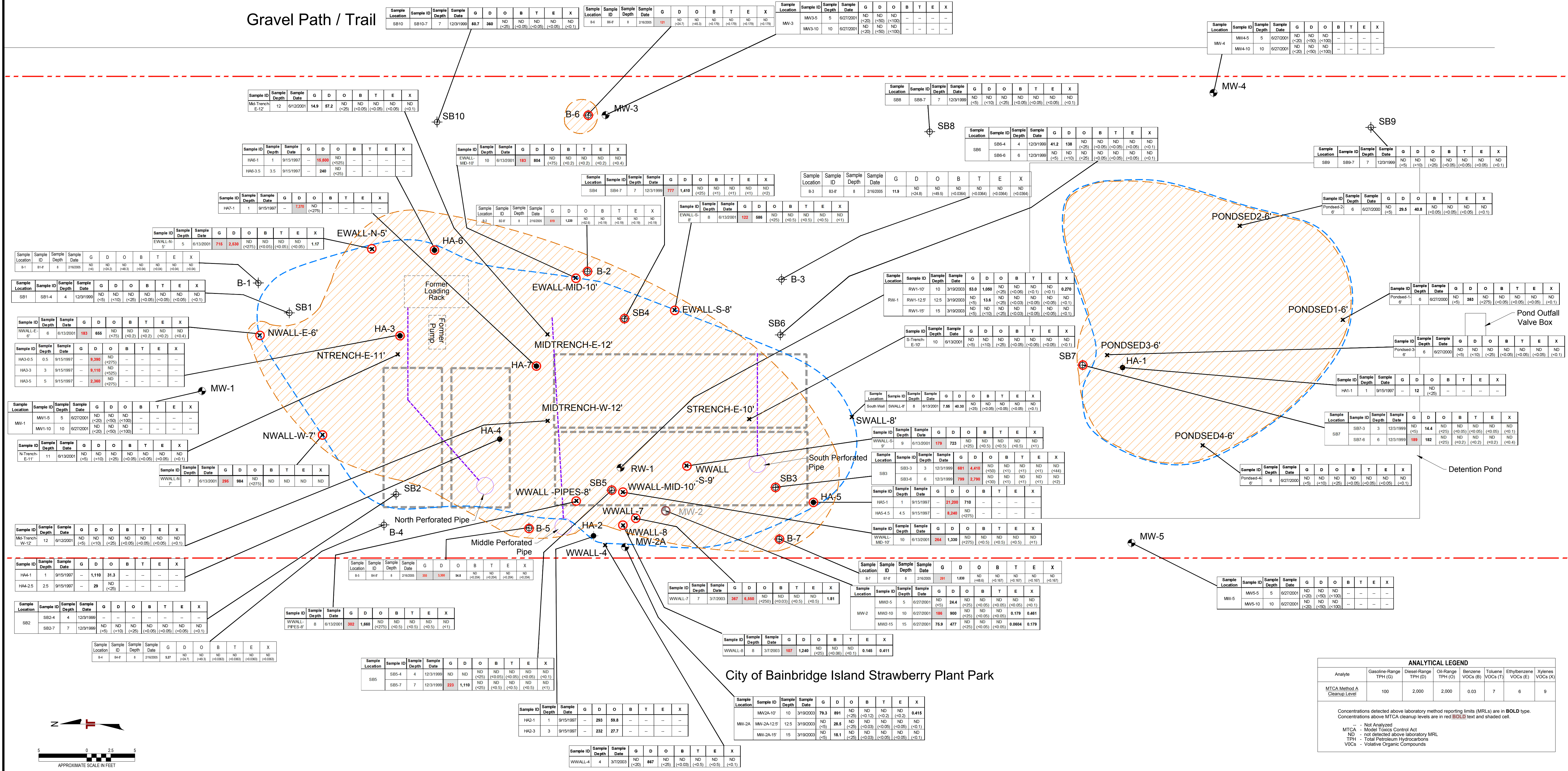
Project No.	81177343
Scale:	AS SHOWN
File No.	Exhibit 2
Date:	September 2017

Consulting Engineers and Scientists

21905 64th Avenue W, Ste 100 Mounlake Terrace, WA 98043
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SITE DIAGRAM

Former Tosco Bulk Plant 1784
Weaver Avenue & Shepard Way NW
Bainbridge Island, Kitsap County, Washington



ANALYTICAL LEGEND							
Analyte	Gasoline-Range TPH (G)	Diesel-Range TPH (D)	Oil-Range TPH (O)	Benzene VOCs (B)	Toluene VOCs (T)	Ethylbenzene VOCs (E)	Xylenes VOCs (X)
MTCA Method A Cleanup Level	100	2,000	2,000	0.03	7	6	9
Concentrations detected above laboratory method reporting limits (MRLs) are in BOLD type. Concentrations above MTCA cleanup levels are in red BOLD text and shaded cell.							
- Not Analyzed - Model Toxics Control Act ND - not detected above laboratory MRL TPH - Total Petroleum Hydrocarbons VOCs - Volatile Organic Compounds							

LEGEND

MW-1 APPROXIMATE LOCATION AND NUMBER OF MONITORING WELL

SB2 APPROXIMATE LOCATION AND NUMBER OF BORING

HA-1 APPROXIMATE LOCATION AND NUMBER OF HAND AUGER BORING (PACIFIC ENVIRONMENTAL GROUP - SEPT. 1997)

RW-1 APPROXIMATE LOCATION AND NUMBER OF REMEDIATION WELL

MW-2 APPROXIMATE LOCATION AND NUMBER OF DECOMMISSIONED MONITORING WELL

X APPROXIMATE SOIL SAMPLE LOCATION AND DEPTH

APPROXIMATE LOCATION OF PERFORATED PIPE RUN

APPROXIMATE EXTENT OF REMEDIAL EXCAVATION

FORMER TANKS

WWALL-4 APPROXIMATE LOCATION AND NUMBER OF EXCAVATION SOIL SAMPLING

APPROXIMATE LOCATION AND NUMBER OF EXCAVATION SOIL SAMPLING WITH MTCA METHOD A EXCEEDANCES

APPROXIMATE AREA OF TPH ABOVE MTCA METHOD A CLEANUP LEVEL

Project Mgr: MDN

Drawn By: SAB/RMS

Checked By: MDN

Approved By: MYW

Project No. 81177343

Scale: AS SHOWN

File No. Exhibit 3

Date: January 2018

Terracon
Consulting Engineers and Scientists

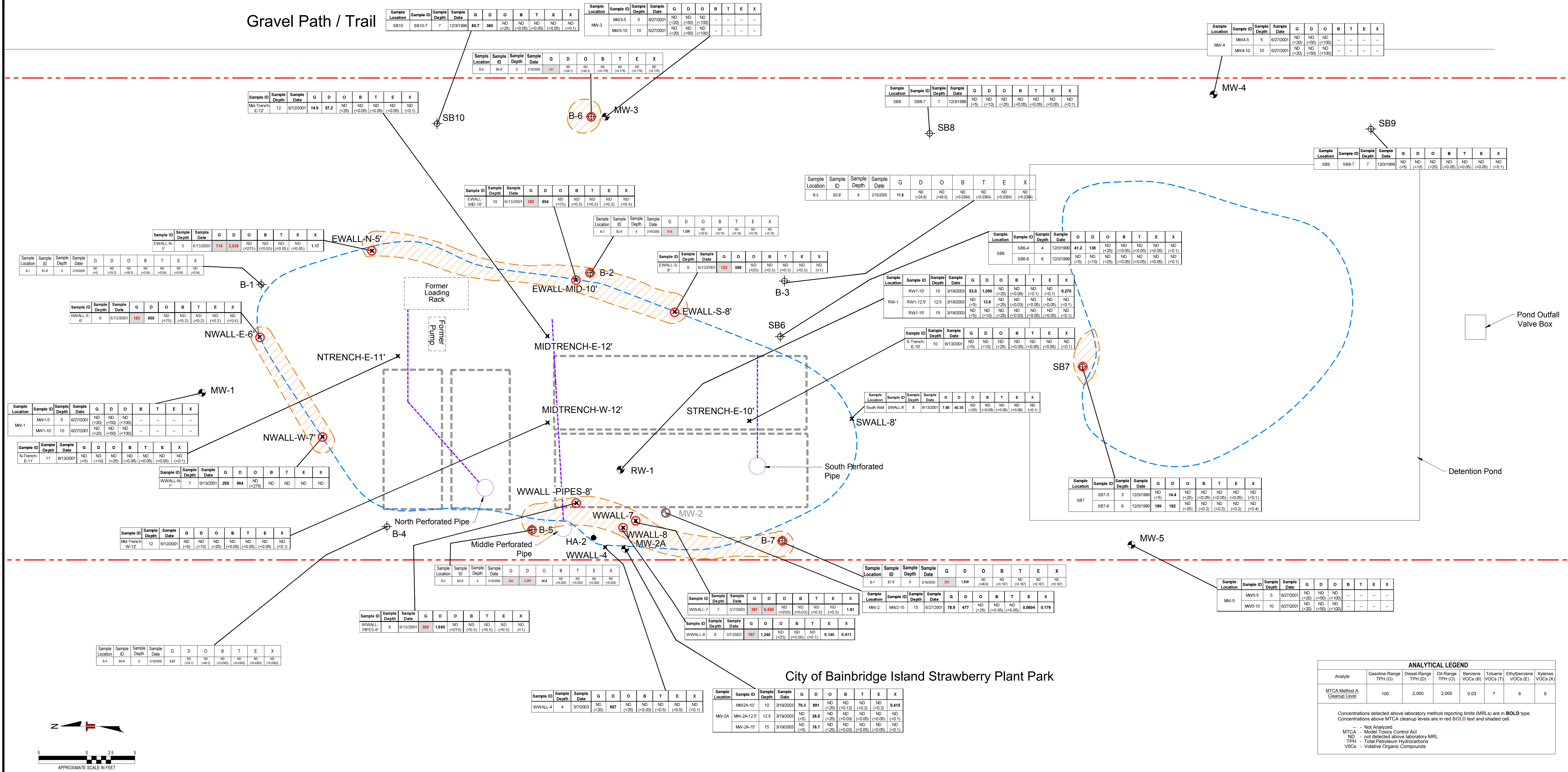
21905 64th Avenue W, Ste 100 Mountlake Terrace, WA 98043
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PRE-REMEDIAL EXCAVATION CONCENTRATION MAP

Former Tosco Bulk Plant 1784
Weaver Avenue & Shepard Way NW
Bainbridge Island, Kitsap County, Washington

EXHIBIT

3



LEGEND

- APPROXIMATE SITE BOUNDARY
- MW-1** APPROXIMATE LOCATION AND NUMBER OF MONITORING WELL
- SB2** APPROXIMATE LOCATION AND NUMBER OF BORING
- HA-1** APPROXIMATE LOCATION AND NUMBER OF HAND AUGER BORING (PACIFIC ENVIRONMENTAL GROUP - SEPT. 1997)
- RW-1** APPROXIMATE LOCATION AND NUMBER OF REMEDIATION WELL
- MW-2** APPROXIMATE LOCATION AND NUMBER OF RECOMMISSIONED MONITORING WELL
- x** APPROXIMATE SOIL SAMPLE LOCATION AND DEPTH
- APPROXIMATE LOCATION OF PERFORATED PIPE RUN
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION
- FORMER TANKS
- x** APPROXIMATE LOCATION AND NUMBER OF EXCAVATION SOIL SAMPLING
- x** APPROXIMATE LOCATION AND NUMBER OF EXCAVATION SOIL SAMPLING WITH MTCA METHOD A EXCEEDANCES
- APPROXIMATE AREA OF TPH ABOVE MTCA METHOD A CLEANUP LEVEL

Project Mgr: MDN

Drawn By: SAB/RMS

Checked By: MDN

Approved By: MYW

Project No. 81177343

Scale: AS SHOWN

File No. Exhibit 3

Date: January 2018

Terracon

Consulting Engineers and Scientists

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POST REMEDIAL EXCAVATION CONCENTRATION MAP

Former Tosco Bulk Plant 1784

Weaver Avenue & Shepard Way NW

Bainbridge Island, Kitsap County, Washington

EXHIBIT

4



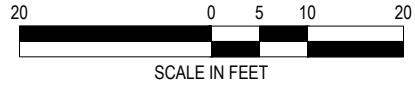
Shepard Way NW

Bromley Place NW

Leslie Landing Residences

Eagle Harbor

Telephone Pole



LEGEND

APPROXIMATE SITE BOUNDARY

MW-1 APPROXIMATE LOCATION AND NUMBER OF MONITORING WELL

SB2 APPROXIMATE LOCATION AND NUMBER OF BORING

MW-2 APPROXIMATE LOCATION AND NUMBER OF DECOMMISSIONED MONITORING WELL

RW-1 APPROXIMATE LOCATION AND NUMBER OF REMEDIATION WELL

APPROXIMATE LOCATION OF PERFORATED PIPE RUN

APPROXIMATE EXTENT OF REMEDIAL EXCAVATION

FORMER TANKS

SB10							
Date:	G	D	O	B	T	E	X
12/7/1999	363	14.9	<0.75	<0.5	<0.5	<0.5	1.03

MW-3							
Date:	G	D	O	B	T	E	X
2/2/2017	-	-	-	-	-	-	-
11/30/2016	<50	<130	<250	<2.0	<2.0	<2.0	<4.0
7/7/2016	<130	<310	<310	<2.0	<2.0	<2.0	<4.0
4/20/2016	<130	<310	<310	<2.0	<2.0	<2.0	<4.0

SB8							
Date:	G	D	O	B	T	E	X
12/7/1999	<50	1.37	<0.75	<0.5	<0.5	<0.5	<1

MW-4							
Date:	G	D	O	B	T	E	X
2/2/2017	<50	<130	160	<2.0	<2.0	<2.0	<4.0
11/30/2016	<50	<130	380	<2.0	<2.0	<2.0	<4.0
7/7/2016	<130	240	<360	<2.0	<2.0	<2.0	<4.0
4/20/2016	<130	<310	320	<2.0	<2.0	<2.0	<4.0

SB9							
Date:	G	D	O	B	T	E	X
12/7/1999	<50	4.04	<0.75	<0.5	<0.5	<0.5	<1

SB1							
Date:	G	D	O	B	T	E	X
12/7/1999	<50	0.394	<1.37	<0.5	<0.5	<0.5	<1

MW-1							
Date:	G	D	O	B	T	E	X
2/2/2017	-	-	-	-	-	-	-
11/30/2016	<50	<130	<250	<2.0	<2.0	<2.0	<4.0
7/7/2016	<130	<310	<310	<2.0	<2.0	<2.0	<4.0
4/20/2016	<50	<130	<250	<2.0	<2.0	<2.0	<4.0

SB2							
Date:	G	D	O	B	T	E	X
12/7/1999	<50	0.470	<1.39	<0.5	0.611	<0.5	<1

RW-1							
Date:	G	D	O	B	T	E	X
2/2/2017	<50	130	<250	<2.0	<2.0	<2.0	<4.0
11/30/2016	<50	160	<250	<2.0	<2.0	<2.0	<4.0
7/7/2016	<130	300	<250	<2.0	<2.0	<2.0	<4.0
4/20/2016	<130	<310	<310	<2.0	<2.0	<2.0	<4.0

MW-2A							
Date:	G	D	O	B	T	E	X
2/2/2017	<50	180	<250	<2.0	<2.0	<2.0	<4.0
11/30/2016	<50	200	<250	<2.0	<2.0	<2.0	<4.0
7/7/2016	<130	770	<250	<2.0	<2.0	<2.0	<4.0
4/20/2016	<130	<310	470	<2.0	<2.0	<2.0	<4.0

SB3							
Date:	G	D	O	B	T	E	X
12/7/1999	<50	2,490	404	<75.8	4.79	<2.5	51.1 82.5

MW-5							
Date:	G	D	O	B	T	E	X
2/2/2017	<50	720	<250	<2.0	<2.0	<2.0	<4.0
11/30/2016	<50	960	<250	<2.0	<2.0	<2.0	<4.0
7/7/2016	<130	560	<250	<2.0	<2.0	<2.0	<4.0
4/20/2016	<130	<310	1,300	<2.0	<2.0	<2.0	<4.0

SB7							
Date:	G	D	O	B	T	E	X
12/7/1999	32,300	104	<30.8	<100	<100	<100	<200

ANALYTICAL LEGEND

	G	D	O	B	T	E	X
	Gasoline-Range TPH	Diesel-Range TPH	Oil-Range TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes
MTCA Method A Cleanup Level	1,000 ¹	500	500	5	1,000	700	1,000

All concentrations in micrograms per liter (µg/l)
Concentrations detected are in **BOLD** type
RED and **BOLD** - Exceeds MTCA Cleanup levels
TPH - Total petroleum hydrocarbons
MTCA - Model Toxics Control Act.
1 - No detectable benzene in groundwater
- - Not tested
< - Not detected at listed detection limit.

Project Mng: MDN

Drawn By: SAB/RMS

Checked By: MDN

Approved By: MYW

Project No. 81177343

Scale: AS SHOWN

File No. Exhibit 2

Date: February 2018

Terracon
Consulting Engineers and Scientists

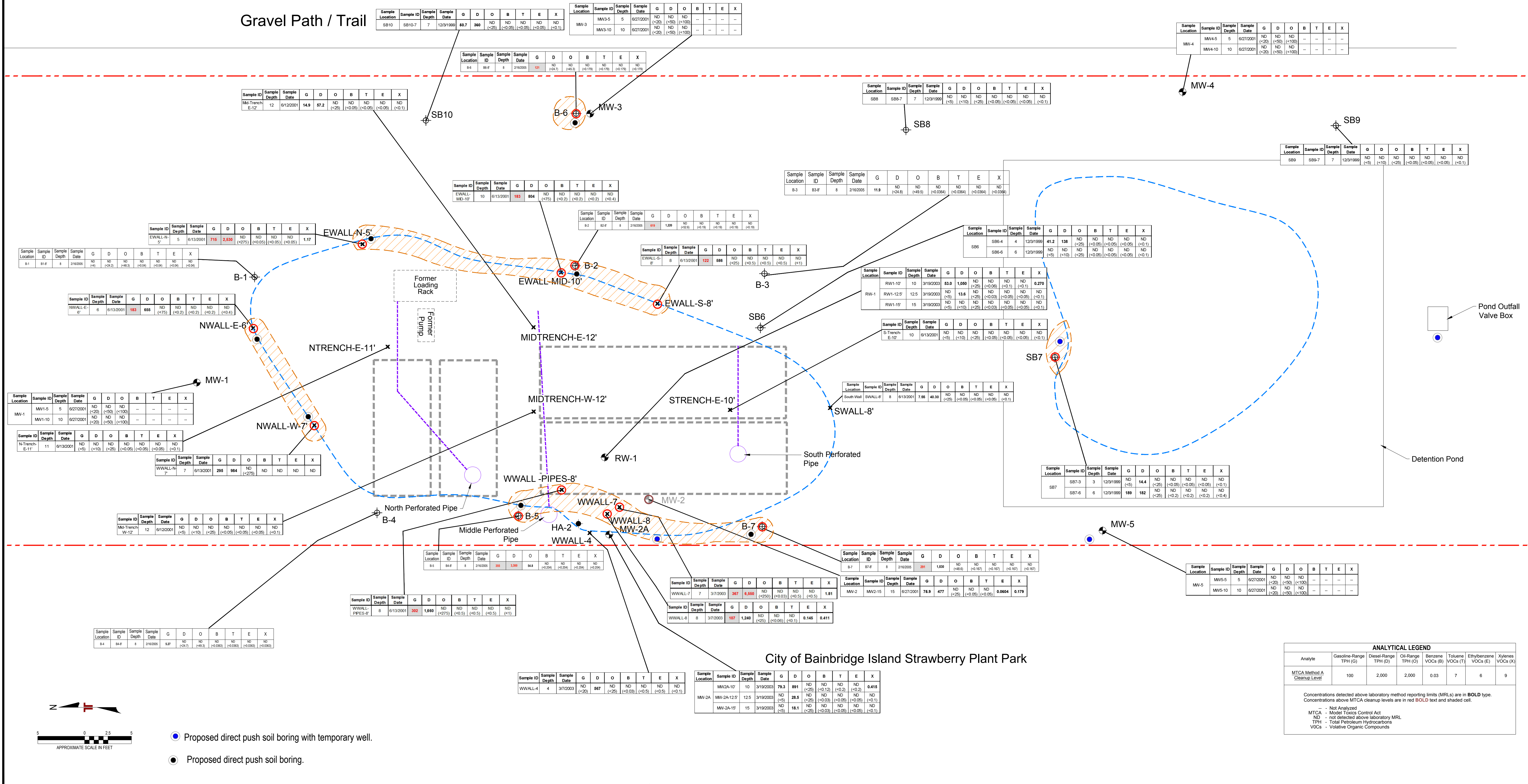
21905 64th Avenue W, Ste 100 Mountlake Terrace, WA 98043
PH. (425) 771-3304 FAX. (425) 771-3549

GROUNDWATER CONCENTRATION MAP

Former Tosco Bulk Plant 1784
Weaver Avenue & Shepard Way NW
Bainbridge Island, Kitsap County, Washington

EXHIBIT

5



APPENDIX B

TABLES

all concentrations are in mg/kg (miligram per kilogram)

See Page 2 for table notes.

TABLE 1

SUMMARY OF CUMULATIVE SOIL ANALYTICAL RESULTS
Former Tosco Bulk Plant 1784
Weaver Avenue & Shepard Way NW
Bainbridge Island, Kitsap County, Washington

all concentrations are in mg/kg (miligram per kilogram)

Boring ID/ Monitoring Well ID/ Sample Location	Sample ID	Sample Depth (feet)	Sample Date	Soil Sample Removed/ In- Place	TPH			VOCs				PAHs ¹												
					Gasoline-Range	Diesel-Range	Oil-Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	Acenaphthene	Anthracene	Benzo (a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Pyrene	Naphthalenes ²
MTCA Method A Cleanup Level					100	2,000	2,000	0.03	7	6	9	4,800*	24000*	1.37*	0.1	1.37*	1.37*	137*	0.137*	3,200*	3,200*	1.37*	2,400*	5
Additional Site Assessment - December 1999																								
SB1	SB1-4	4	12/3/1999	Removed	ND (<5)	ND (<10)	ND (<25)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.1)	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB1-6	6	12/3/1999	Removed	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB2	SB2-4	4	12/3/1999	Removed	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB2-7	7	12/3/1999	Removed	ND (<5)	ND (<10)	ND (<25)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.1)	--	--	--	--	--	--	--	--	--	--	--	--	--
SB3	SB3-3	3	12/3/1999	Removed	681	4,410	ND (<50)	ND (<1)	ND (<1)	ND (<1)	ND (<44)	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB3-6	6	12/3/1999	Removed	799	2,790	ND (<30)	ND (<1)	ND (<1)	ND (<1)	ND (<2)	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-4	SB4-7	7	12/3/1999	Removed	777	1,410	ND (<25)	ND (<1)	ND (<1)	ND (<1)	ND (<2)	--	--	--	--	--	--	--	--	--	--	--	--	--
SB5	SB5-4	4	12/3/1999	Removed	ND	ND	ND (<25)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.1)	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB5-7	7	12/3/1999	Removed	223	1,110	ND (<25)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<1)	--	--	--	--	--	--	--	--	--	--	--	--	--
SB6	SB6-4	4	12/3/1999	In-Place	41.2	138	ND (<25)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.1)	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB6-6	6	12/3/1999	In-Place	ND (<5)	ND (<10)	ND (<25)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.1)	--	--	--	--	--	--	--	--	--	--	--	--	--
SB7	SB7-3	3	12/3/1999	In-Place	ND (<5)	14.4	ND (<25)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.1)	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB7-6	6	12/3/1999	In-Place	189	182	ND (<25)	ND (<0.2)	ND (<0.2)	ND (<0.2)	ND (<0.4)	--	--	--	--	--	--	--	--	--	--	--	--	--
SB8	SB8-7	7	12/3/1999	In-Place	ND (<5)	ND (<10)	ND (<25)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.1)	--	--	--	--	--	--	--	--	--	--	--	--	--
SB9	SB9-7	7	12/3/1999	In-Place	ND (<5)	ND (<10)	ND (<25)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.1)	--	--	--	--	--	--	--	--	--	--	--	--	--
SB10	SB10-7	7	12/3/1999	In-Place	50.7	360	ND (<25)	ND (<0.05)	ND (<0.05)	ND (<0.05)	ND (<0.1)	--	--	--	--	--	--	--	--	--	--	--	--	--
Pacific Environmental Group, Inc. Soil Investigation - September 1997																								
HA1	HA1-1	1	9/15/1997	Removed	--	12	ND (<25)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HA2	HA2-1	1	9/15/1997	Removed	--	293	59.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	HA2-3	3	9/15/1997	Removed	--	232	27.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HA3	HA3-0.5	0.5	9/15/1997	Removed	--	9,390	ND (<275)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	HA3-3	3	9/15/1997	Removed	--	9,110	ND (<525)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	HA3-5	5	9/15/1997	Removed	--	2,360	ND (<275)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HA4	HA4-1	1	9/15/1997	Removed	--	1,110	31.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	HA4-2.5	2.5	9/15/1997	Removed	--	29	ND (<25)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HA5	HA5-1	1	9/15/1997	Removed	--	21,200	710	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	HA5-4.5	4.5	9/15/1997	Removed	--	8,240	ND (<275)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HA6	HA6-1	1	9/15/1997	Removed	--	15,600	ND (<525)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	HA6-3.5	3.5	9/15/1997	Removed	--	240	ND (<25)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HA7	HA7-1	1	9/15/1997	Removed	--	7,370	ND (<275)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Note: Concentrations detected above laboratory method reporting limits (MRLs) are in **BOLD** type. Concentrations above MTCA cleanup levels are in red **BOLD** text and shaded cell.

- - not analyzed
- MTCA - Model Toxics Control Act
- ND - not detected above laboratory MRL
- TPH - total petroleum hydrocarbons
- VOCs - volatile organic compounds
- AST - above ground storage tank
- 1 - Only analytes with concentrations above laboratory MRLs and established cleanup levels are listed. See laboratory report for a full list of analytes.
- 2 - Chromatogram indicates aged or degraded diesel.
- * - MTCA Method B cleanup level.

all concentrations are in $\mu\text{g/l}$ (micrograms per liter)

See Page 3 for tables notes.

TABLE 2																										
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS																										
Former Tosco Bulk Plant 1784																										
Weaver Avenue & Shepard Way NW																										
Bainbridge Island, Kitsap County, Washington																										
all concentrations are in µg/l (micrograms per liter)																										
Monitoring Well/ Recovery Well/ Boring ID (TOC Elevation - Feet)	Sample Date	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)	TPH			VOCs ¹						PAHs						EPH			LEAD		MTCA Method B		
				Gasoline-Range	Diesel-Range	Oil-Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Other VOCs ¹	Naphthalenes ³	Acenaphthene	Fluorene	Anthracene	Pyrene	Benz[<i>a</i>]Anthracene	Other PAHs ³	C12-C16	C21-C34	Other EPH ¹	Total Lead	Dissolved Lead	Measured TPH Concentration	Calculated Protective TPH Concentration
MTCA Method A or MTCA Method B Cleanup Level				1,000	500	500	5	1,000	700	1,000	20	Varies	160	960 ²	640 ²	4,800 ²	480 ²	0.12 ²	Varies	NA	NA	NA	15	15	NA	NA
MW-4 (17.04)	2/2/2017	3.53	13.51	ND (^{<} 50)	ND (^{<} 130)	160	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 4.0)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/30/2016	3.42	13.62	ND (^{<} 50)	ND (^{<} 130)	380	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 4.0)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	7/7/2016	8.40	8.64	ND (^{<} 130)	240	ND (^{<} 360)F1	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 4.0)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	4/20/2016	4.45	12.59	ND (^{<} 130)	ND (^{<} 310)	320	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 4.0)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/11/2016	3.67	13.37	Gauged only, not sampled.																						
	7/1/2015	8.33	8.71	Gauged only, not sampled.																						
	4/9/2015	4.20	12.84	Gauged only, not sampled.																						
	2/11/2015	--	--	Well not sampled or gauged.																						
	8/21/2014	8.94	8.10	ND (^{<} 100)	410	270	ND (^{<} 0.50)	ND (^{<} 5.0)	ND (^{<} 0.50)	ND (^{<} 1.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/19/2014	8.76	8.28	Gauged only, not sampled.																						
	6/18/2007	6.90	10.14	ND (^{<} 50)	430	ND (^{<} 95)	ND (^{<} 0.5)	ND (^{<} 0.7)	ND (^{<} 0.8)	ND (^{<} 0.8)	ND (^{<} 0.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/26/2007	3.91	13.13	ND (^{<} 48)	150	ND (^{<} 95)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/20/2006	3.34	13.70	ND (^{<} 48)	230	110	ND (^{<} 0.5)	ND (^{<} 0.7)	ND (^{<} 0.8)	ND (^{<} 0.8)	ND (^{<} 0.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/13/2006	9.65	7.39	ND (^{<} 48)	390	200	ND (^{<} 0.5)	ND (^{<} 0.7)	ND (^{<} 0.8)	ND (^{<} 0.8)	ND (^{<} 0.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2003	6.57	10.47	ND (^{<} 50)	496	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	ND (^{<} 0.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/30/2003	3.62	13.42	ND (^{<} 50)	ND (^{<} 250)	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/21/2002	4.00	13.04	ND (^{<} 50)	ND (^{<} 250)	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	--	--	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND	--	--	--	--	--	--	
	9/30/2002	9.32	7.72	ND (^{<} 50)	ND (^{<} 250)	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	--	--	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND	--	--	--	--	--	--	
	5/23/2002	4.53	12.51	ND (^{<} 50)	ND (^{<} 250)	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	--	ND	ND (^{<} 0.1)	ND (^{<} 0.1)	ND (^{<} 0.1)	ND (^{<} 0.1)	ND (^{<} 0.1)	ND (^{<} 0.1)	ND	--	--	--	ND (^{<} 1)	ND (^{<} 1)	--	--
	3/26/2002	3.63	13.41	ND (^{<} 50)	ND (^{<} 250)	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/11/2001	3.44	13.60	ND (^{<} 50)	ND (^{<} 250)	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/13/2001	7.05	9.99	ND (^{<} 50)	ND (^{<} 250)	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/28/2001	8.30	8.74	ND (^{<} 50)	ND (^{<} 250)	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	1.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5 (17.53)	2/2/2017	3.85	13.68	ND (^{<} 50)	720	ND (^{<} 250)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 4.0)	--	--	ND (^{<} 0.020)	ND (^{<} 0.020)	1.0	ND (^{<} 0.020)	ND (^{<} 0.020)	ND (^{<} 0.020)	ND	75	ND (^{<} 50)	ND	--	--	300.10	472.77
	11/30/2016	3.76	13.77	ND (^{<} 50)	960	ND (^{<} 250)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 4.0)	--	--	0.83	0.25	1.1	0.034	ND (^{<} 0.020)	ND (^{<} 0.020)	ND	70	ND (^{<} 50)	ND	--	--	295.91	468.68
	7/7/2016	9.49	8.04	ND (^{<} 130)	560	ND (^{<} 250)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 4.0)	--	--	ND (^{<} 0.022)	ND (^{<} 0.10)	ND (^{<} 0.30)	ND (^{<} 0.076)	ND (^{<} 0.035)	0.046	ND	ND (^{<} 50)	ND (^{<} 50)	ND	--	--	250.35	437.09
	4/20/2016	4.85	12.68	ND (^{<} 130)	ND (^{<} 310)	1,300	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 2.0)	ND (^{<} 4.0)	--	--	0.27	ND (^{<} 0.020)	ND (^{<} 0.020)	0.045	ND (^{<} 0.020)	ND	84	ND (^{<} 50)	ND (^{<} 50)	ND	--	--	309.36	477.67
	2/11/2016	4.09	13.44	--	810	ND (^{<} 250)	--	--	--	--	--	--	ND (^{<} 0.50)	ND (^{<} 0.50)	1.3	ND (^{<} 0.50)	ND (^{<} 0.50)	ND (^{<} 0.50)	ND	81	ND (^{<} 50)	ND	--	--	306.75	470.57
	7/1/2015	8.01	9.52	--	620	ND (^{<} 250)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/9/2015	4.61	12.92	--	940	ND (^{<} 400)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/11/2015	3.82	13.71	--	1,200	560	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/21/2014	10.71	6.82	ND (^{<} 100)	800	ND (^{<} 500)	ND (^{<} 0.50)	ND (^{<} 5.0)	ND (^{<} 0.50)	ND (^{<} 1.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/19/2014	8.76	8.77	Gauged only, not sampled.																						
	6/18/2007	6.10	11.43	130	1,100	120	ND (^{<} 0.5)	ND (^{<} 0.7)	ND (^{<} 0.8)	ND (^{<} 0.8)	ND (^{<} 0.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/26/2007	4.28	13.25	250	1,300	300	ND (^{<} 0.5)	0.7	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/20/2006	3.97	13.56	200	2,000	390	ND (^{<} 0.5)	8	ND (^{<} 0.8)	ND (^{<} 0.8)	ND (^{<} 0.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/13/2006	11.60	5.93	61	840	230	ND (^{<} 0.5)	12	ND (^{<} 0.8)	ND (^{<} 0.8)	ND (^{<} 0.5)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/26/2003	5.81	11.72	111	537	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/30/2003	4.00	13.53	377	1,410	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	0.52	ND (^{<} 1)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/21/2002	4.24	13.29	385	734	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	5.38	3.77	--	--	12	0.37	0.36	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND	--	--	--	--	--	--	--
	9/30/2002	11.12	6.41	95.2	ND (^{<} 250)	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	--	--	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND (^{<} 0.01)	ND	--	--	--	--	--	--	
	5/23/2002	4.81	12.72	236	428	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 0.5)	ND (^{<} 1)	--	ND	ND (^{<} 0.1)	ND (^{<} 0.1)	ND (^{<} 0.1)	ND (^{<} 0.1)	ND (^{<} 0.1)	ND (^{<} 0.1)	ND	--	--	--	ND (^{<} 1)	ND (^{<} 1)	--	--
	3/26/2002	4.00	13.53	469	454	ND (^{<} 500)	ND (^{<} 0.5)	ND (^{<} 0.5)	1.94	1.87	--	--	--	--	--	--										

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Former Tosco Bulk Plant 1784
Weaver Avenue & Shepard Way NW
Bainbridge Island, Kitsap County, Washington

all concentrations are in µg/l (micrograms per liter)

Monitoring Well/ Recovery Well/Boring ID (TOC Elevation - Feet)	Sample Date	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)	TPH			VOCs ¹						PAHs						EPH			LEAD		MTCA Method B			
				Gasoline-Range	Diesel-Range	Oil-Range	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Other VOCs ¹	Naphthalenes ³	Acenaphthene	Fluorene	Anthracene	Pyrene	Benzo[A]Anthracene	Other PAHs ¹	C12-C16	C21-C34	Other EPH ¹	Total Lead	Dissolved Lead	Measured TPH Concentration	Calculated Protective TPH Concentration	
MTCA Method A or MTCA Method B Cleanup Level				1,000	500	500	5	1,000	700	1,000	20	Varies	160	960 ²	640 ²	4,800 ²	480 ²	0.12 ²	Varies	NA	NA	NA	15	15	NA	NA	
MID-PERF PIPE	12/21/2002	NA	NA	ND (^{<50})	ND (^{<250})	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	0.11	0.03	0.02	ND (^{<0.01})	ND (^{<0.01})	ND (^{<0.01})	ND	--	--	--	--	--	--	--	
	9/30/2002	NA	NA	ND (^{<50})	ND (^{<250})	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/22/2002	NA	NA	ND (^{<50})	ND (^{<250})	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	ND	ND (^{<0.1})	ND (^{<0.1})	ND (^{<0.01})	ND (^{<0.01})	ND (^{<0.01})	ND	--	--	--	ND (^{<1})	ND (^{<1})	--	--		
	3/26/2002	NA	NA	ND (^{<50})	ND (^{<250})	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	12/11/2001	NA	NA	57	ND (^{<250})	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	9/13/2001	NA	NA	289	426	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	0.766	2.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	6/27/2001	NA	NA	604	1,110	ND (^{<500})	0.796	ND (^{<0.5})	1.52	6.06	--	--	ND (^{<0.2})	1.32	3.17	ND (^{<0.2})	ND (^{<0.2})	ND (^{<0.2})	--	--	--	--	--	--	--	--	
S-PERF PIPE	12/21/2002	NA	NA	ND (^{<50})	289	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	0.07	ND (^{<0.01})	ND (^{<0.01})	ND (^{<0.01})	ND (^{<0.01})	ND (^{<0.01})	ND	--	--	--	--	--	--		
	9/30/2002	NA	NA	ND (^{<50})	ND (^{<250})	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	5/22/2002	NA	NA	154	ND (^{<250})	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	ND	2.44	0.386	1.08	ND (^{<0.01})	ND (^{<0.01})	ND (^{<0.01})	ND	--	--	--	ND (^{<1})	ND (^{<1})	--	--	
	3/26/2002	NA	NA	204	ND (^{<250})	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	12/11/2001	NA	NA	116	ND (^{<250})	ND (^{<500})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	9/13/2001	NA	NA	246	406	ND (^{<500})	ND (^{<0.5})	1.51	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	6/27/2001	NA	NA	241	842	ND (^{<500})	0.641	0.754	2.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Additional Site Assessment - December 1999																											
SB1	12/7/1999	6	NA	ND (^{<50})	394	ND (^{<1.37})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SB2	12/7/1999	6	NA	ND (^{<50})	470	ND (^{<1.39})	ND (^{<0.5})	0.611	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	6.28	ND (^{<1})	--	--		
SB3	12/7/1999	6	NA	2,490	404,000	ND (^{<75.8})	4.79	ND (^{<2.5})	51.1	82.5	--	--	--	--	--	--	--	--	--	--	--	2.89	ND (^{<1})	--	--		
SB7	12/7/1999	4	NA	32,300	104,000	ND (^{<30.8})	ND (^{<100})	ND (^{<100})	ND (^{<100})	ND (^{<200})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SB8	12/7/1999	6	NA	ND (^{<50})	1,370	ND (^{<0.75})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SB9	12/7/1999	6	NA	ND (^{<50})	4,404	ND (^{<0.75})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<1})	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SB10	12/7/1999	6	NA	363	14,900	ND (^{<0.75})	ND (^{<0.5})	ND (^{<0.5})	ND (^{<0.5})	1.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

Note: Concentrations detected above laboratory method reporting limits (MRLs) are in **BOLD** type. Concentrations above MTCA cleanup levels are in **RED BOLD** text and shaded cell.

- TPH
- EPH
- PAH
- MTBE
- MTCA
- VOCs
- Total petroleum hydrocarbons
- Extractable petroleum hydrocarbons
- Polycyclic aromatic hydrocarbons
- Methyl tert butyl ether
- Model Toxics Control Act
- Volatile Organic Compounds

- 1
- 2
- 3
- 4
- Only analytes with concentrations above laboratory MRLs and established cleanup levels are listed. See laboratory report for full list of analytes.
- MTCA Method B cleanup level
- Reported naphthalenes concentration is the total value for naphthalene, 1-methyl naphthalene, and 2-methyl naphthalene
- Reported concentration included naphthalene only.