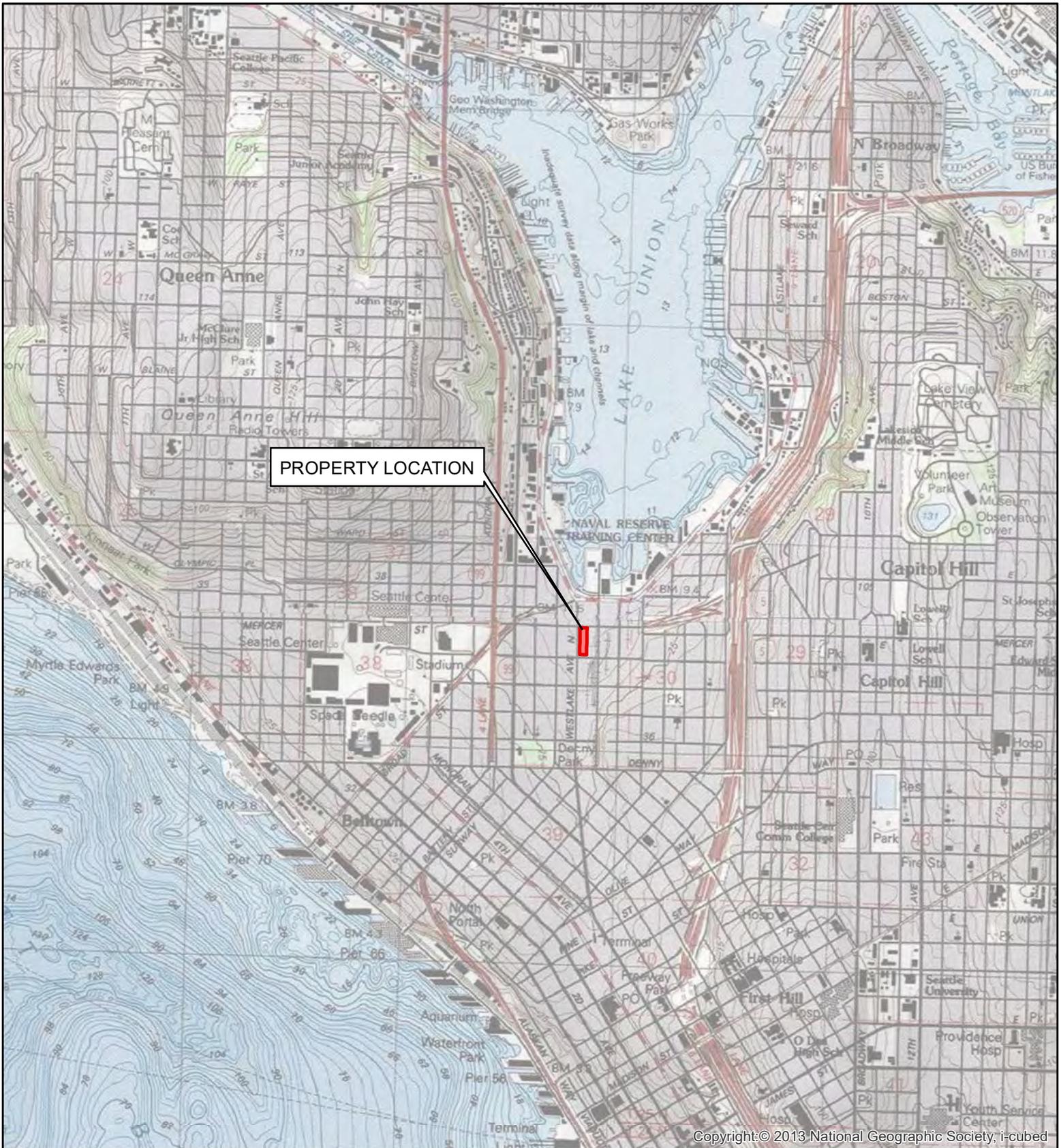


# Figures



REFERENCE: 7.5 MINUTE USGS QUADRANGLE SEATTLE NORTH, WASHINGTON, DATED 1983



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**FIGURE 1**  
**VICINITY MAP**  
**BLOCK 38 WEST PROPERTY**  
**SEATTLE, WASHINGTON**

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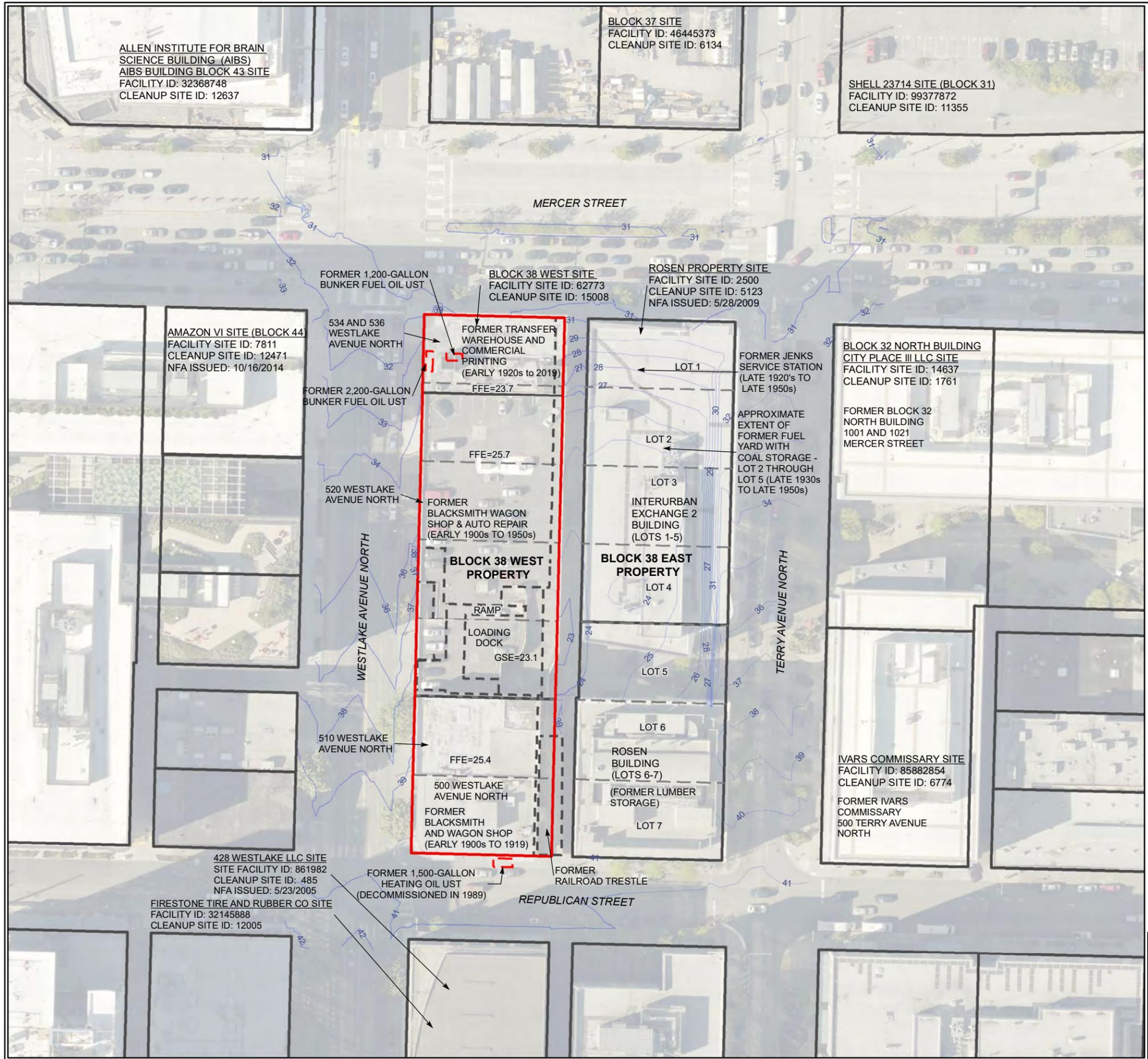
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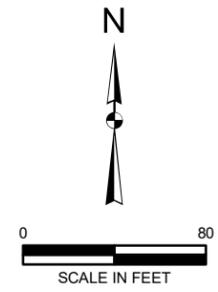


**LEGEND**

- PILE
- - - BUILDING FEATURES (BUILDINGS ON BLOCK 38 WEST PROPERTY DEMOLISHED IN 2019)
- · - · LOT LINE
- 30— GROUND SURFACE ELEVATION CONTOUR
- ▭ PROPERTY BOUNDARY
- ▭ KING COUNTY PARCEL BOUNDARY

NOTES:  
 LOADING DOCK HIGHER THAN GSE  
 ELEVATION SOURCE: BUSH, ROED, & HITCHINGS, INC. (2014)  
 ELEVATION DATA PRESENTED IN FEET ABOVE MEAN SEA LEVEL IN THE NORTH AMERICAN VERTICAL DATUM OF 1988

FFE = APPROXIMATE FINISH FLOOR ELEVATIONS OF GROUND FLOOR OF FORMER BUILDING  
 GSE = APPROXIMATE GROUND SURFACE ELEVATION OF FORMER LOADING DOCK AREA  
 UST = UNDERGROUND STORAGE TANK



ALL LOCATIONS ARE APPROXIMATE. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

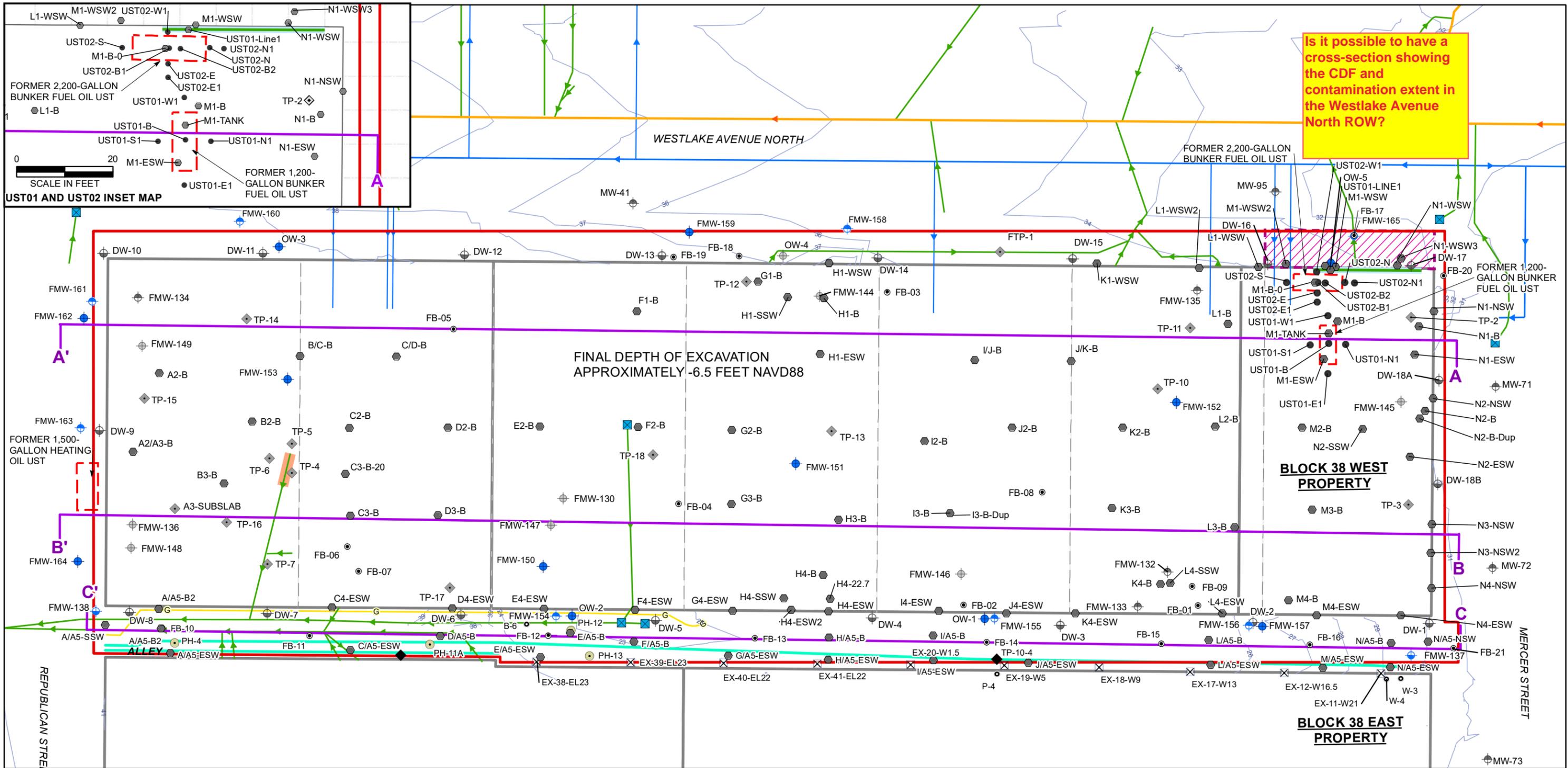
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**FIGURE 2**  
 SITE PLAN WITH  
 HISTORICAL FEATURES  
 BLOCK 38 WEST SITE  
 SEATTLE, WASHINGTON  
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**LEGEND**

- SHALLOW WATER-BEARING ZONE MONITORING WELL
- ⊕ DEWATERING WELL
- ⊕ DEEP OUTWASH AQUIFER WELL
- ⊕ DECOMMISSIONED SHALLOW WATER-BEARING ZONE MONITORING WELL
- ⊕ INTERMEDIATE WATER-BEARING ZONE MONITORING WELL / OBSERVATION WELL
- ⊕ DECOMMISSIONED INTERMEDIATE WATER-BEARING ZONE MONITORING WELL
- BORING (FARALLON)
- BORING (GEOENGINEERS)
- ⊗ EXCAVATION BORING (FARALLON)
- ◆ TEST PIT (GEOENGINEERS)
- POT HOLE (FARALLON)
- UST SAMPLE LOCATION (FARALLON)
- EXCAVATION SAMPLE LOCATION (FARALLON)
- ◆ TEST PIT (FARALLON)

- PIPING DISCOVERED IN SIDEWALL [BELIEVED TO BE ASSOCIATED WITH DISCOVERED USTs]
- MTCA SITE BOUNDARY
- FORMER UNDERGROUND STORAGE TANKS (USTs)
- MECHANICAL EQUIPMENT AREA DECOMMISSIONED AND FILLED WITH CDF
- KING COUNTY PARCELS
- LOT LINE
- LINE OF CROSS SECTION

- ⊕ CATCH BASIN
- APPROXIMATE SECTION OF THE SIDE SEWER WHERE OILY SUBSTANCE OBSERVED
- COMBINED SEWER LATERAL
- WATER LINE
- COMBINED MAIN
- FIBER OPTIC LINE
- NEW GAS LINE

NOTES:  
 1. ALL LOCATIONS ARE APPROXIMATE.  
 2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.  
 3. CDF = CONTROLLED DENSITY FILL  
 4. MTCA = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION  
 5. ELEVATION DATA PRESENTED IN FEET ABOVE MEAN SEA LEVEL IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ELEVATION SOURCE: BUSH, ROED, & HITCHINGS, INC. (2014)



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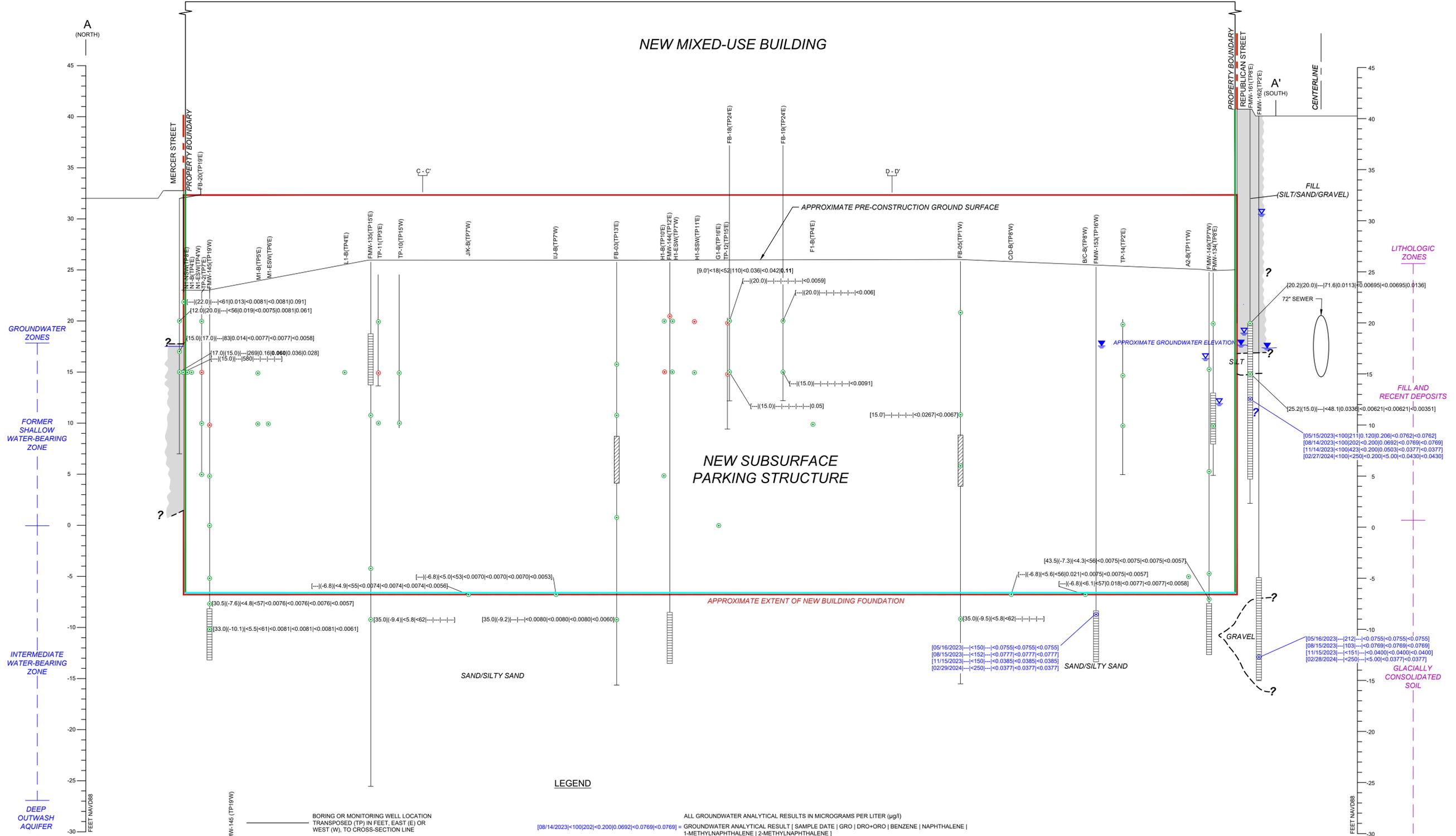
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**FIGURE 3**

**SITE PLAN WITH SAMPLE LOCATIONS**  
**BLOCK 38 WEST SITE**  
**SEATTLE, WASHINGTON**

FARALLON PN: 397-019

NEW MIXED-USE BUILDING



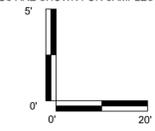
LEGEND

- BORING OR MONITORING WELL LOCATION TRANPOSED (TP) IN FEET, EAST (E) OR WEST (W), TO CROSS-SECTION LINE
  - INDICATES CONCENTRATIONS OF ONE OR MORE HAZARDOUS SUBSTANCES EXCEEDED THE APPLICABLE MTCA CLEANUP LEVELS
  - INDICATES CONCENTRATIONS OF HAZARDOUS SUBSTANCES ANALYZED DID NOT EXCEED THE APPLICABLE MTCA CLEANUP LEVELS
  - APPROXIMATE GROUNDWATER ELEVATION
  - STRATIGRAPHIC CONTACT
  - BLANK CASING OR BORING
  - STATIC GROUNDWATER ELEVATION (MOST RECENT)
  - GROUNDWATER ELEVATION AT TIME OF DRILLING
  - TEMPORARY SCREEN INTERVAL
  - GROUNDWATER SAMPLE LOCATION
  - WELL SCREEN INTERVAL
- ALL GROUNDWATER ANALYTICAL RESULTS IN MICROGRAMS PER LITER (µg/l)
- GROUNDWATER ANALYTICAL RESULT [ SAMPLE DATE | GRO | DRO+ORO | BENZENE | NAPHTHALENE ]  
 1-METHYLNAPHTHALENE | 2-METHYLNAPHTHALENE ]
- \*\* = DENOTES SAMPLE IS RECONNAISSANCE GROUNDWATER GRAB SAMPLE
- ++ = GRO REPORTED AT A CONCENTRATION OF 1,100 µg/l; HOWEVER, RE-EVALUATION BY THE ANALYTICAL LABORATORY INDICATED THAT THE REPORTED CONCENTRATION OF GRO WAS ATTRIBUTED TO A SINGLE PEAK ON THE CHROMATOGRAM, WHICH WAS IN THE RANGE OF NAPHTHALENE.
- ALL SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)
- SOIL ANALYTICAL RESULTS [ DEPTH | ELEVATION IN FEET NAVD88 | GRO | DRO+ORO | NAPHTHALENE | 1-METHYLNAPHTHALENE | 2-METHYLNAPHTHALENE ] (SPAH TEC)
- GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS  
 DRO = TPH AS DIESEL-RANGE ORGANICS  
 ORO = TPH AS OIL-RANGE ORGANICS  
 DRO+ORO = SUM OF DRO AND ORO
- cPAH TEC = CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS TOXIC EQUIVALENT CONCENTRATION
- BOLD** = DENOTES CONCENTRATIONS THAT EXCEED APPLICABLE CLEANUP LEVELS
- = SAMPLE NOT ANALYZED OR NOT APPLICABLE
- < = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED
- NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
- COPC = CONSTITUENT OF POTENTIAL CONCERN
- MTCA = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION
- APPROXIMATE AREA OF WOOD DEBRIS/ORGANICS LAYER
- VERTICAL VAPOR/GROUNDWATER BARRIER SYSTEM
- SUB-SLAB VAPOR BARRIER SYSTEM

ANALYTE	SOIL (mg/kg)		GROUNDWATER (µg/L)	
	VADOSE	SATURATED	GRO	CLEANUP LEVEL
GRO	30	30	800	
DRO+ORO	2,000	2,000	500	
NAPHTHALENE	1,600	1,600	2.4	
1-METHYLNAPHTHALENE	34	34	8.9	
2-METHYLNAPHTHALENE	320	320	1.5	
cPAH TEC	0.19	0.19	32	

SOIL CLEANUP LEVELS FOR NAPHTHALENE, 1-METHYLNAPHTHALENE, 2-METHYLNAPHTHALENE, WERE UPDATED BASED ON THE DIRECT CONTACT PATHWAY SINCE THE LEACHING PATHWAY IS NO LONGER COMPLETE FOLLOWING INTERIM ACTIONS.

DATA IS ONLY SHOWN FOR PERFORMANCE AND COMPLIANCE SAMPLES THAT REMAIN IN PLACE. NO SOIL DATA STRINGS ARE SHOWN FOR SAMPLES THAT WERE REMOVED.



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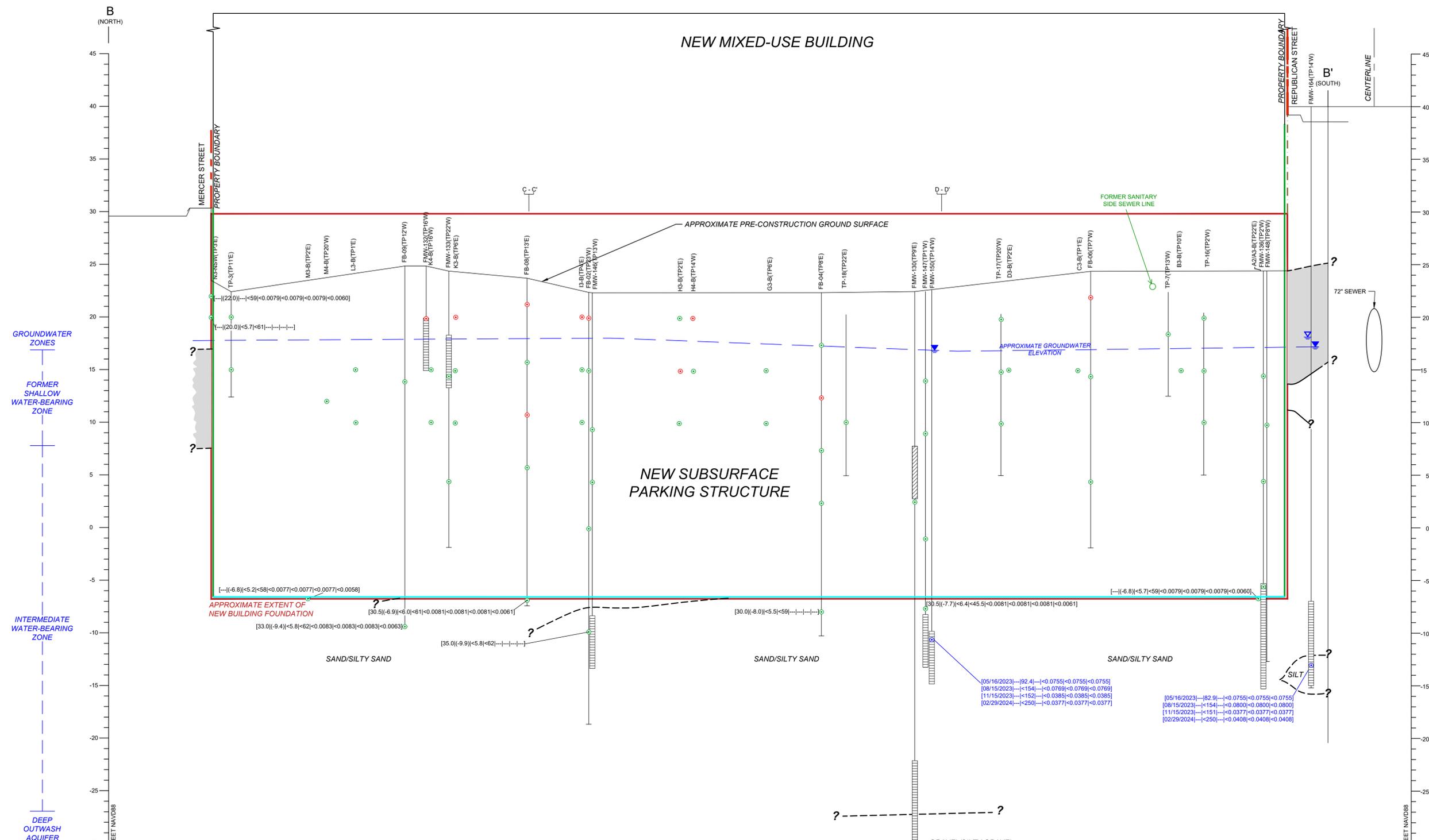
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**FIGURE 4**  
POST INTERIM ACTION  
CROSS SECTION A-A'  
BLOCK 38 WEST SITE  
SEATTLE, WASHINGTON

FARALLON PN-397-019  
Date: 8/2/2024



**LEGEND**

TP-3 (TP11E) BORING OR MONITORING WELL LOCATION TRANSPROSED (TP) IN FEET, EAST (E) OR WEST (W), TO CROSS-SECTION LINE  
 INDICATES CONCENTRATIONS OF ONE OR MORE HAZARDOUS SUBSTANCES EXCEEDED THE APPLICABLE MTCA CLEANUP LEVELS  
 INDICATES CONCENTRATIONS OF HAZARDOUS SUBSTANCES ANALYZED DID NOT EXCEED THE APPLICABLE MTCA CLEANUP LEVELS  
 APPROXIMATE GROUNDWATER ELEVATION  
 STRATIGRAPHIC CONTACT  
 BLANK CASING OR BORING  
 STATIC GROUNDWATER ELEVATION (MOST RECENT)  
 GROUNDWATER ELEVATION AT TIME OF DRILLING  
 TEMPORARY SCREEN INTERVAL  
 GROUNDWATER SAMPLE LOCATION  
 WELL SCREEN INTERVAL

ALL GROUNDWATER ANALYTICAL RESULTS IN MICROGRAMS PER LITER (µg/l)  
 [08/15/2023]--[58.9]--[<0.07 69]--[<0.0769]--[<0.0769] = GROUNDWATER ANALYTICAL RESULT | SAMPLE DATE | GRO | DRO+ORO | BENZENE | NAPHTHALENE | 1-METHYLNAPHTHALENE | 2-METHYLNAPHTHALENE  
 \*\* = DENOTES SAMPLE IS RECONNAISSANCE GROUNDWATER GRAB SAMPLE  
 ++ = GRO REPORTED AT A CONCENTRATION OF 1,100 µg/l, HOWEVER, RE-EVALUATION BY THE ANALYTICAL LABORATORY INDICATED THAT THE REPORTED CONCENTRATION OF GRO WAS ATTRIBUTED TO A SINGLE PEAK ON THE CHROMATOGRAM, WHICH WAS IN THE RANGE OF NAPHTHALENE.  
 ALL SOIL ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)  
 -- = SOIL ANALYTICAL RESULTS | DEPTH | (ELEVATION IN FEET NAVD88) | GRO | DRO+ORO | NAPHTHALENE | 1-METHYLNAPHTHALENE | 2-METHYLNAPHTHALENE | cPAH TEC  
 GRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE-RANGE ORGANICS  
 DRO = TPH AS DIESEL-RANGE ORGANICS  
 ORO = TPH AS OIL-RANGE ORGANICS  
 DRO+ORO = SUM OF DRO AND ORO  
 cPAH TEC = CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS TOXIC EQUIVALENT CONCENTRATION  
**BOLD** = DENOTES CONCENTRATIONS THAT EXCEED APPLICABLE CLEANUP LEVELS  
 - - = SAMPLE NOT ANALYZED OR NOT APPLICABLE  
 < = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED  
 NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988  
 COPC = CONSTITUENT OF POTENTIAL CONCERN  
 MTCA = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION

APPROXIMATE AREA OF WOOD DEBRIS/ORGANICS LAYER  
 VERTICAL VAPOR/GROUNDWATER BARRIER SYSTEM  
 SUB-SLAB VAPOR BARRIER SYSTEM  
 ESTIMATED EXTENT OF COAL/CHARCOAL LAYER

ANALYTE	SOIL (mg/kg)		CLEANUP LEVEL	
	VADOSE	SATURATED	VADOSE	SATURATED
GRO	30	30		
DRO+ORO	2,000	2,000		
NAPHTHALENE	1,600	1,600		
1-METHYLNAPHTHALENE	34	34		
2-METHYLNAPHTHALENE	320	320		
cPAH TEC	0.19	0.19		

ANALYTE	GROUNDWATER (µg/L)	
	GRO	CLEANUP LEVEL
DRO+ORO	800	
BENZENE	500	
NAPHTHALENE	2.4	
1-METHYLNAPHTHALENE	8.9	
1-METHYLNAPHTHALENE	1.5	
2-METHYLNAPHTHALENE	32	

SOIL CLEANUP LEVELS FOR NAPHTHALENE, 1-METHYLNAPHTHALENE, 2-METHYLNAPHTHALENE, WERE UPDATED BASED ON THE DIRECT CONTACT PATHWAY SINCE THE LEACHING PATHWAY IS NO LONGER COMPLETE FOLLOWING INTERIM ACTIONS.  
 DATA IS ONLY SHOWN FOR PERFORMANCE AND COMPLIANCE SAMPLES THAT REMAIN IN PLACE. NO SOIL DATA STRINGS ARE SHOWN FOR SAMPLES THAT WERE REMOVED.

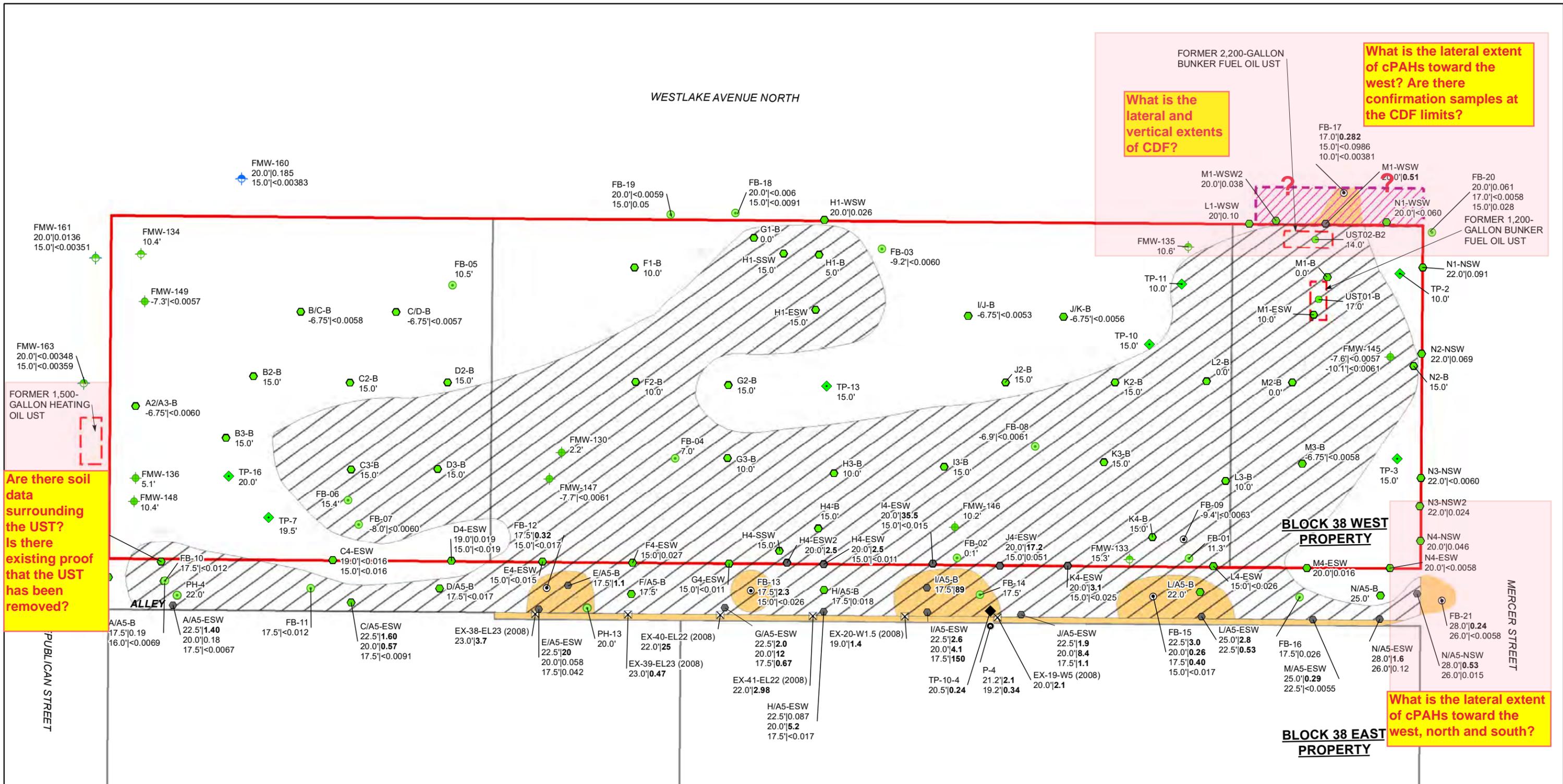
SOIL CLEANUP LEVELS FOR NAPHTHALENE, 1-METHYLNAPHTHALENE, 2-METHYLNAPHTHALENE, WERE UPDATED BASED ON THE DIRECT CONTACT PATHWAY SINCE THE LEACHING PATHWAY IS NO LONGER COMPLETE FOLLOWING INTERIM ACTIONS.  
 DATA IS ONLY SHOWN FOR PERFORMANCE AND COMPLIANCE SAMPLES THAT REMAIN IN PLACE. NO SOIL DATA STRINGS ARE SHOWN FOR SAMPLES THAT WERE REMOVED.

[05/16/2023]--[82.9]--[<0.0755]--[<0.0755]--[<0.0755]  
 [08/15/2023]--[<154]--[<0.0769]--[<0.0769]--[<0.0769]  
 [11/15/2023]--[<152]--[<0.0385]--[<0.0385]--[<0.0385]  
 [02/29/2024]--[<250]--[<0.0377]--[<0.0377]--[<0.0377]

[05/16/2023]--[82.9]--[<0.0755]--[<0.0755]--[<0.0755]  
 [08/15/2023]--[<154]--[<0.0769]--[<0.0769]--[<0.0769]  
 [11/15/2023]--[<151]--[<0.0377]--[<0.0377]--[<0.0377]  
 [02/29/2024]--[<250]--[<0.0408]--[<0.0408]--[<0.0408]







- LEGEND**
- SHALLOW WATER-BEARING ZONE MONITORING WELL
  - DECOMMISSIONED SHALLOW WATER-BEARING ZONE MONITORING WELL
  - DECOMMISSIONED INTERMEDIATE WATER-BEARING ZONE MONITORING WELL
  - BORING (FARALLON)
  - BORING (GEOENGINEERS)
  - EXCAVATION SAMPLE (GEOENGINEERS)
  - TEST PIT (GEOENGINEERS)
  - POTHOLE (FARALLON)
  - UST SAMPLE LOCATION (FARALLON)
  - EXCAVATION SAMPLE LOCATION (FARALLON)
  - TEST PIT (FARALLON)

- DENOTES SAMPLE LOCATION AND ELEVATION IN FEET NAVD88 WHERE cPAHs RESULTS ARE LESS THAN THE CLEANUP LEVEL
- ESTIMATED EXTENT OF SOIL EXCEEDING THE CLEANUP LEVEL REMAINING IN PLACE POST INTERIM ACTIONS OR INACCESSIBLE DUE TO EXISTING UTILITY BANK
- ESTIMATED EXTENT OF SOIL EXCEEDING THE SCREENING LEVEL THAT WAS EXCAVATED AND REMOVED BY INTERIM ACTIONS
- MECHANICAL EQUIPMENT AREA DECOMMISSIONED AND FILLED WITH CDF
- PROPERTY BOUNDARY
- FORMER UNDERGROUND STORAGE TANKS (USTs)
- KING COUNTY PARCEL BOUNDARY

**NOTES:**  
 DATA SHOWN ARE FOR SAMPLES COLLECTED BETWEEN 2014 THROUGH 2023 UNLESS OTHERWISE NOTED. DATA IS ONLY SHOWN FOR PERFORMANCE AND COMPLIANCE SAMPLES THAT REMAIN IN PLACE. NO SOIL DATA STRINGS ARE SHOWN FOR SAMPLES THAT WERE REMOVED.

**FOR SOIL SAMPLES:**  
 DEPTH AND CONCENTRATIONS REPORTED AS:  
 ELEVATION IN FEET NAVD88 | cPAH TEC  
 ANALYTICAL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)

**BOLD** = DENOTES ELEVATION AND CONCENTRATIONS THAT EXCEED THE CLEANUP LEVEL OF 0.19 mg/kg  
 < = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORTING LIMIT LISTED FOR TOTAL TOXIC EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE (mg/kg)

CDF = CONTROLLED DENSITY FILL  
 cPAHs = CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS  
 TEC = TOXIC EQUIVALENT CONCENTRATION OF BENZO(A)PYRENE FOR cPAH MIXTURE  
 MTCA = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION  
 NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988

N

0 30  
SCALE IN FEET

ALL LOCATIONS ARE APPROXIMATE. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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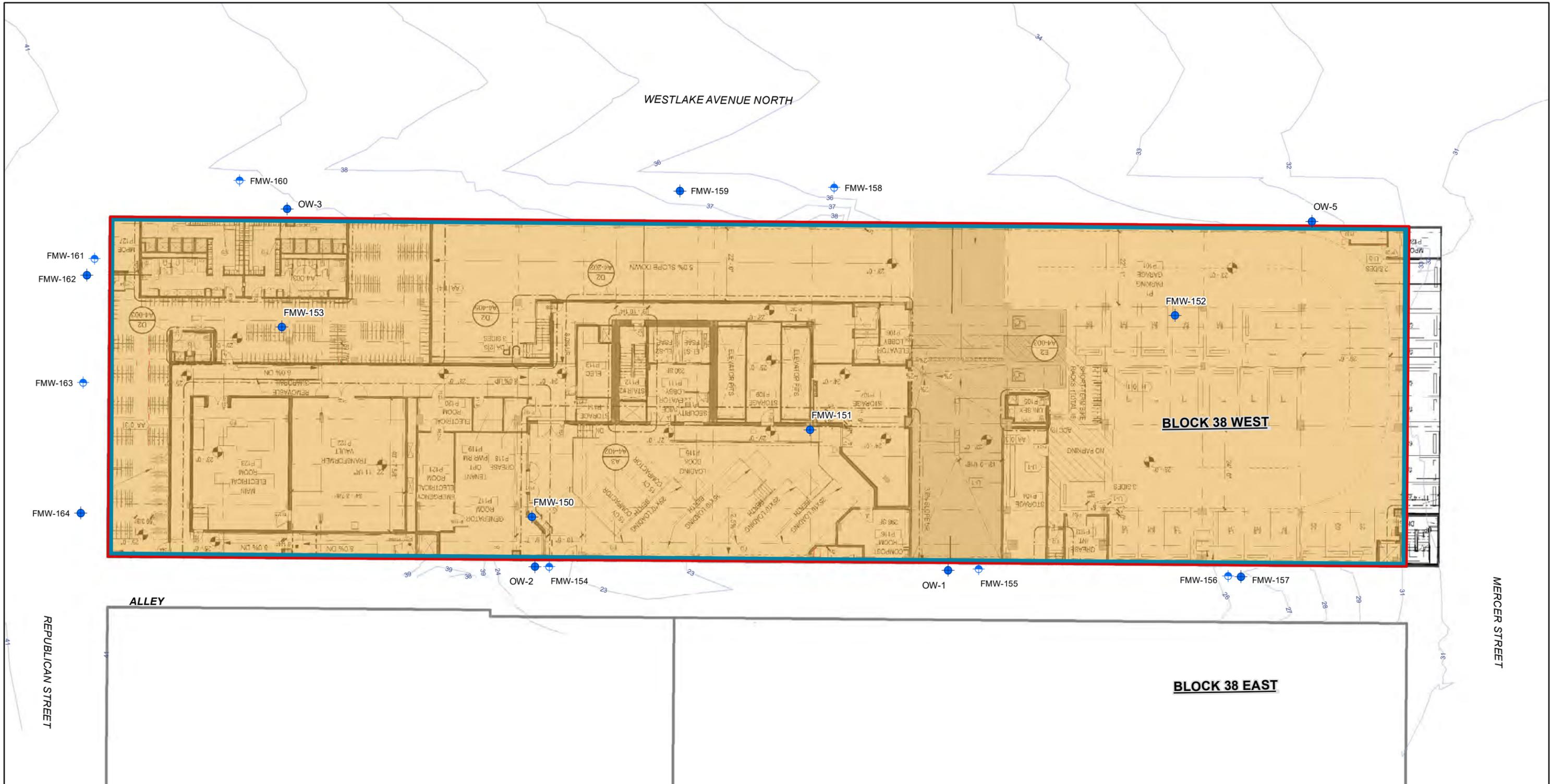
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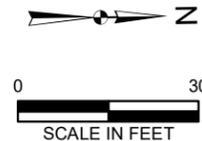
**FIGURE 8**  
 POST INTERIM ACTION  
 SOIL ANALYTICAL RESULTS  
 FOR cPAH TEC  
 BLOCK 38 WEST SITE  
 SEATTLE, WASHINGTON  
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Drawn By: jones      Checked By: JW      Date: 8/2/2024      Disc Reference: Q:\Projects\397 VULCAN\019\_Block38\Mapfiles\17F\_2024\Figure-08\_Soil-cPAHs.mxd



**LEGEND**

-  SHALLOW WATER-BEARING ZONE MONITORING WELL
-  INTERMEDIATE WATER-BEARING ZONE MONITORING WELL / OBSERVATION WELL
-  VERTICAL EXTENT OF VAPOR BARRIER INSTALLED, FROM BASE TO TOP OF SHORING WALL; HYCRETE WATERPROOF CONCRETE EXTENDS TO ELEVATION 20.0 FEET NAVD88
-  HORIZONTAL EXTENT OF VAPOR BARRIER INSTALLED ACROSS FOUNDATION; BARRIER PLACED ON TOP OF RAT SLAB FOUNDATION PRIOR TO POURING THE MAT SLAB FOUNDATION WITH TOP 12-INCHES CONSISTING OF HYCRETE WATERPROOF CONCRETE
-  ELEVATION CONTOUR
-  PROPERTY BOUNDARY
-  KING COUNTY PARCEL BOUNDARY



NOTES:  
 1. ALL LOCATIONS ARE APPROXIMATE.  
 2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.  
 3. ELEVATION DATA PRESENTED IN FEET ABOVE MEAN SEA LEVEL IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)  
 ELEVATION SOURCE: BUSH, ROED, & HITCHINGS, INC. (2014)



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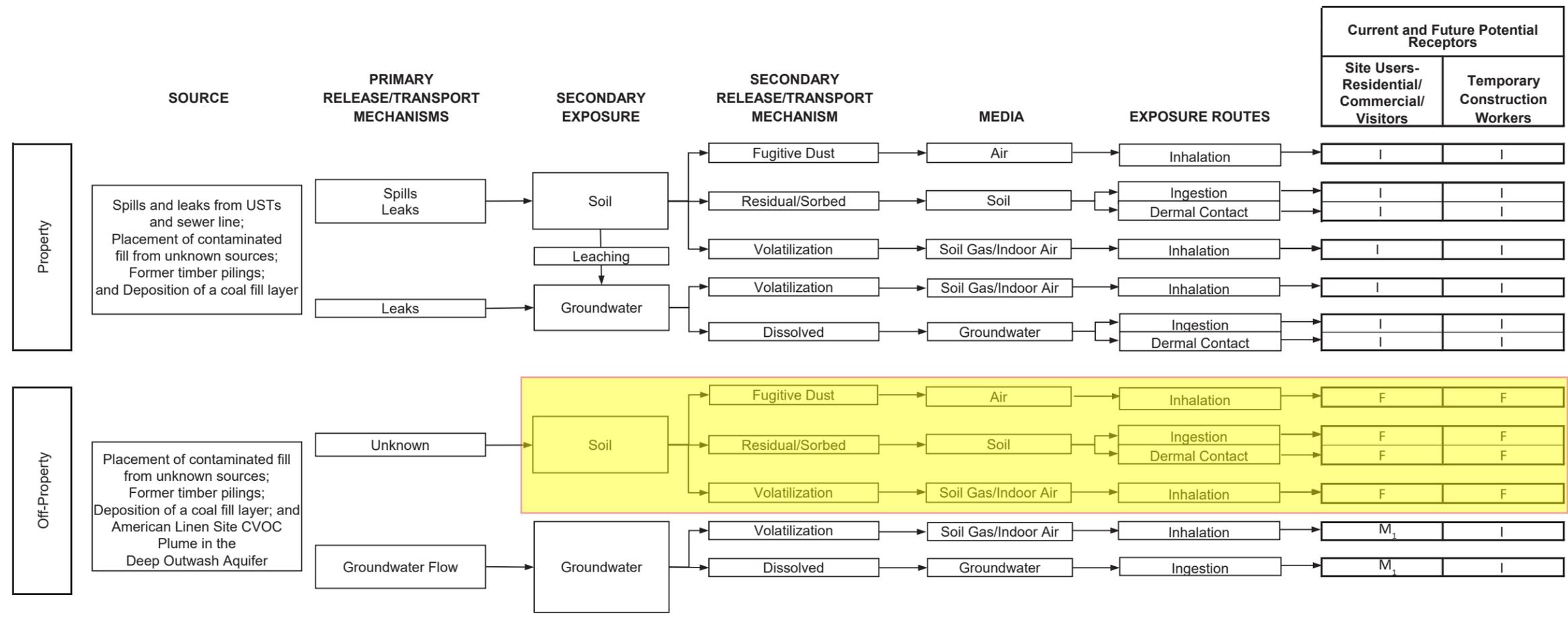
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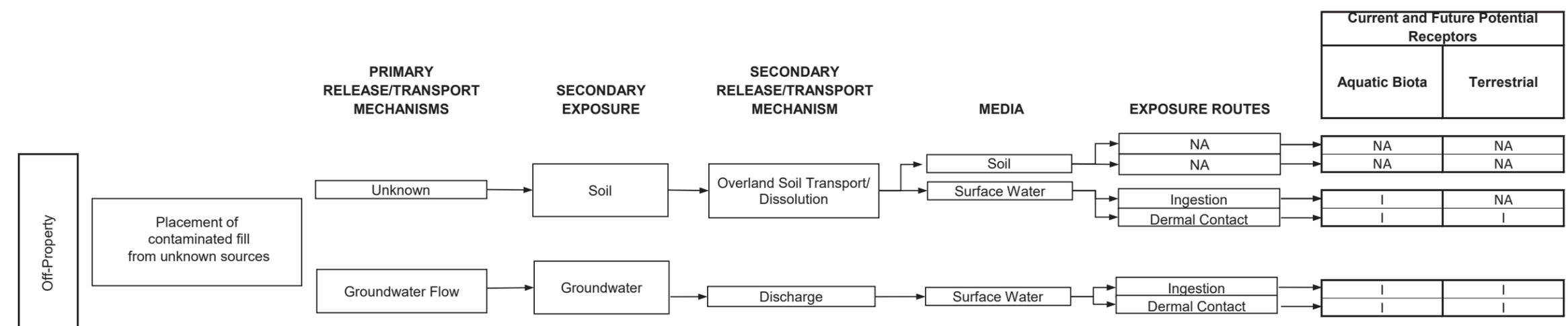
**FIGURE 9**  
 EXTENT OF VAPOR BARRIER  
 BLOCK 38 WEST SITE  
 SEATTLE, WASHINGTON

HUMAN HEALTH RISK CONCEPTUAL SITE MODEL



How is this pathway addressed?

ECOLOGICAL RISK CONCEPTUAL SITE MODEL



I = Incomplete Pathway  
 C = Complete Current Pathway  
 M = Complete pathway currently on Property mitigated by presence of vapor barrier and concrete floor  
 1 = Pathway is incomplete based on the COCs for the Block 38 West Site.  
 However the pathway is potentially complete based on the presence of the American Linen Site CVOC Plume adjacent to the Block 38 West Site.  
 F = Currently Incomplete, Potentially Complete Pathway in Future  
 NA = not applicable



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**FIGURE 10**

**EXPOSURE PATHWAY ANALYSIS**  
BLOCK 38 WEST SITE  
SEATTLE, WASHINGTON

FARALLON PN: 397-019

Drawn By: Imurock

Checked By: JW

Date: 7/19/2024

Disc Reference:

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