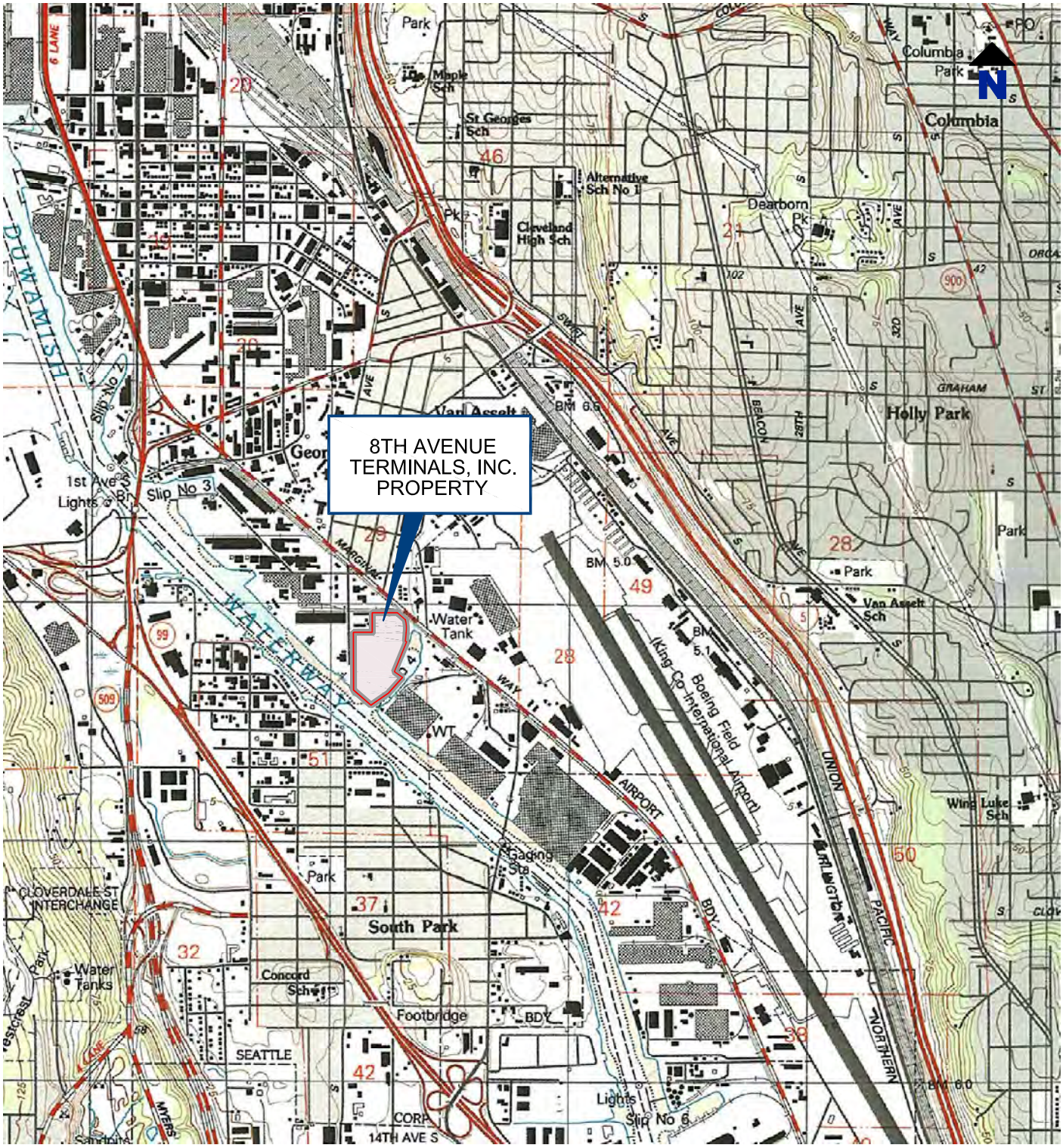
FIGURES



SUBJECT PROPERTY BOUNDARY

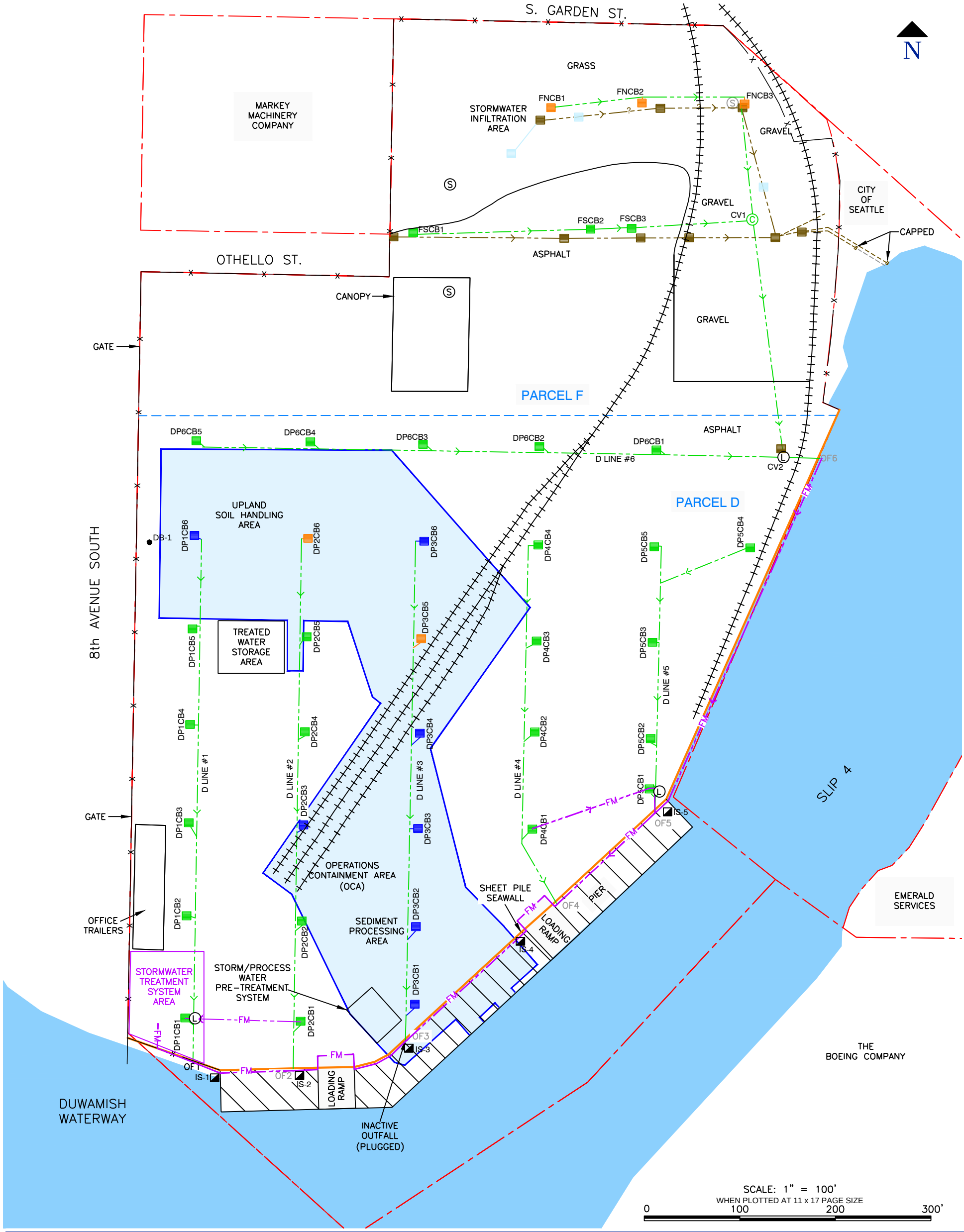
SCALE: 1" = 2000'
WHEN PLOTTED AT 8.5 x 11 PAGE SIZE
0 2000 4000' 6000'

8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Drawing
SUBJECT PROPERTY LOCATION MAP

SLR
22118 20th AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800
F: 425-402-8488

Date April 19, 2018	Scale AS SHOWN	Fig. No. 1
File Name 01-01	Project No. 101.00205.00037	



NOTES

1) CATCH BASINS AND CONVEYANCE LINES THAT ARE SHADED BLUE ARE REMOVED COMPONENTS OF THE PREVIOUS DRAINAGE SYSTEM THAT ARE SHOWN ON A LAYRITE CONCRETE PRODUCTS DRAWING TITLED "PLANT LAYOUT", DATED JUNE 1946, OR ON AN UNNAMED PRELIMINARY DRAWING DATED APPROXIMATELY 1990 THAT WAS IN CROWLEY MARITIME CORPORATION'S FILES.

2) CATCH BASINS AND CONVEYANCE LINES THAT ARE BROWN ARE ABANDONED OR REMOVED COMPONENTS OF THE PREVIOUS DRAINAGE SYSTEM.

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- EXISTING STORM WATER CONVEYANCE LINE
- FM — FORCE MAIN LINE
- SHEET PILE SEAWALL
- DP1CB6 — STORMWATER ROUTED TO PRE-TREATMENT SYSTEM
- DP2CB1 — EXISTING STORM WATER CATCH BASIN LOCATION AND DESIGNATION
- DP1CB1 — CURRENTLY CLOSED STORM WATER CATCH BASIN LOCATION AND DESIGNATION
- L — LIFT STATION
- S — INACTIVE WASH WATER SUMP
- S — FORMER WASH WATER SUMP
- C — CONVEYANCE VAULT
- OF6 — FORMER OUTFALL LOCATION AND DESIGNATION
- OF1 — OUTFALL LOCATION AND DESIGNATION
- OPERATIONS CONTAINMENT AREA (OCA) (MIN. 6" ASPHALT CONTAINMENT BERM)
- IS — 2013 INTERTIDAL SEDIMENT SAMPLE LOCATION

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7400 8TH AVENUE SOUTH
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Drawing: CURRENT PROPERTY FEATURES AND STORM WATER DRAINAGE SYSTEM

Date	June 19, 2019	Scale	AS SHOWN
File Name	02-02	Project No.	101.00205.00037
Fig. No.	2		

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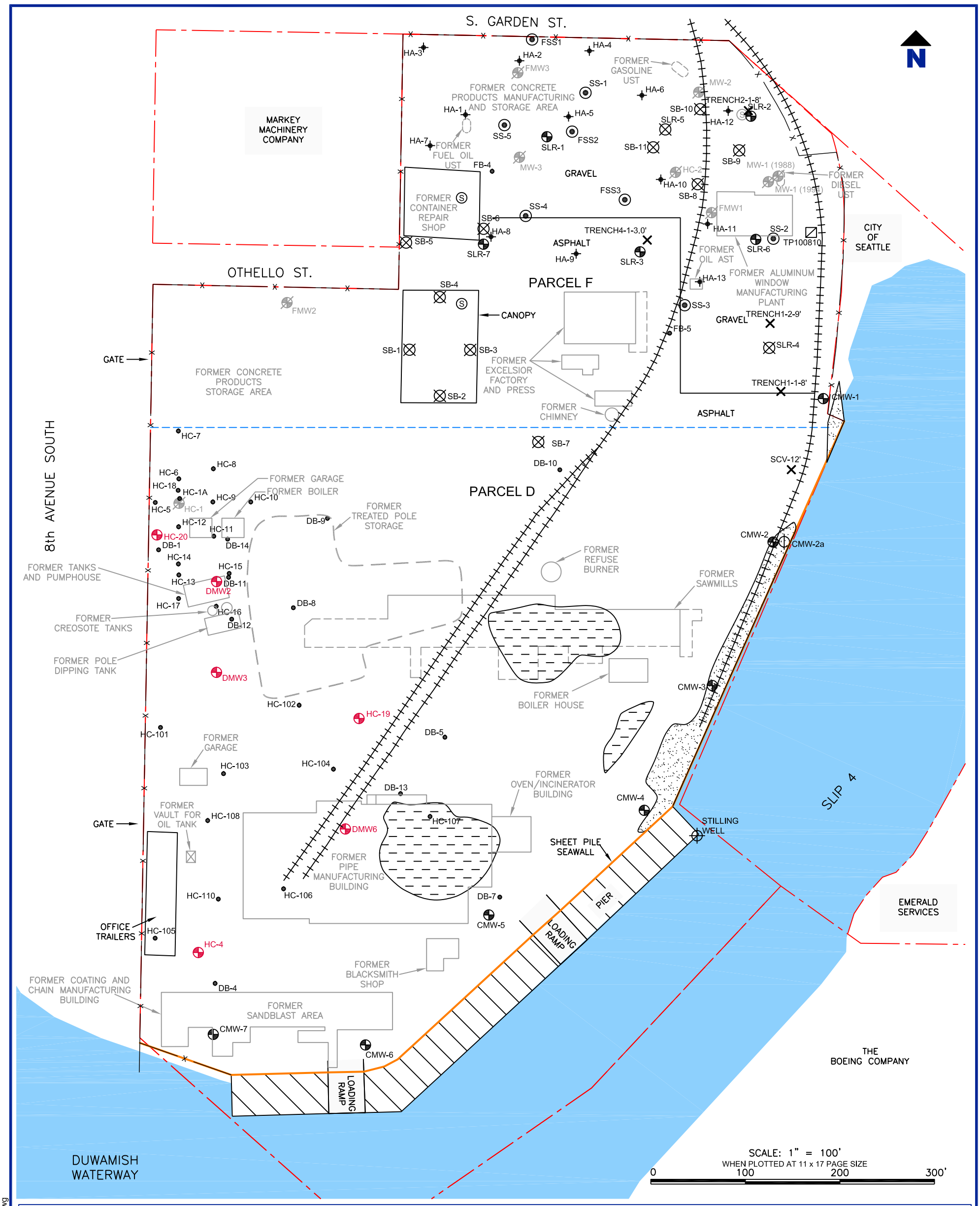

NOTES

DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- APPROX. LOCATION OF DREDGE FILL AREA
- APPROX. LOCATION OF SAND AND DREDGE FILL AREA
- 2012 TRENCH SAMPLE LOCATION
- 2008 GROUNDWATER MONITORING WELL
- 1989 OR 1990 GROUNDWATER MONITORING WELL (ABANDONED OR DESTROYED)
- 1989 OR 1990 GROUNDWATER MONITORING WELL
- 1989 OR 1990 SOIL BORING (APPROX. LOCATION)
- 1989 OR 1990 SURFACE SOIL SAMPLE (APPROXIMATE LOCATION)
- 1994 SOIL BORING (APPROXIMATE LOCATION)
- 2008 SOIL BORING (APPROXIMATE LOCATION)
- 2009 SOIL BORING (APPROXIMATE LOCATION)
- 2010 TEST PIT (APPROXIMATE LOCATION)
- INACTIVE WASH WATER SUMP
- FORMER WASH WATER SUMP

8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Drawing
SOIL AND GROUNDWATER INVESTIGATION LOCATIONS PRIOR TO RI

Date May 23, 2018	Scale AS SHOWN	Fig. No. 3
File Name 01-03	Project No. 101.00205.00037	

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NOTES

AERIAL IMAGE REFERENCED FROM GOOGLE EARTH, 2017

LEGEND

PARCEL BOUNDARY

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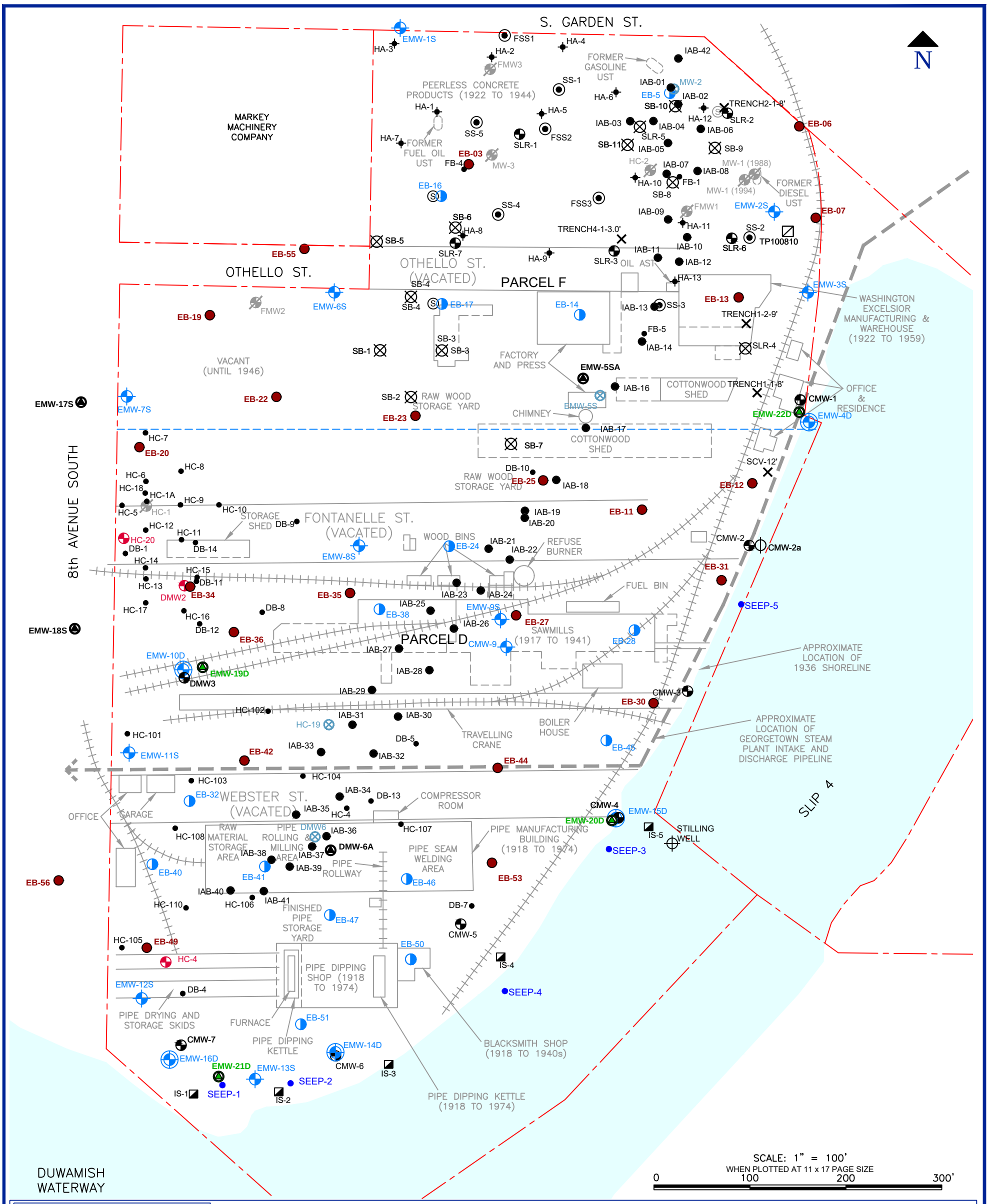
SEATTLE, WASHINGTON

Drawing
AERIAL VIEW OF SUBJECT PROPERTY AREA

Date	May 31, 2019	Scale	AS SHOWN	Fig. No.	4
File Name	01-04	Project No.	101.00205.00037		

SLR

Last Saved: May 31, 2019 2:17:44 PM by rkane Drawing path: N:\Bothell\1 PROJECTS\Crowley - 205\00037 Prepare Final RI Report\Figures\01-04.dwg



NOTES

1. DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG
2. LOCATIONS OF HISTORIC OPERATIONS FROM HART CROWSER (1991), AND AERIAL PHOTOGRAPHS.
3. SANDBLASTING OCCURRED AT THE SOUTHERN END OF THE PROPERTY FROM 1943 TO 1974, AND THE LOCATION OF THE SANDBLAST AREA IS SHOWN ON FIGURE 6.
4. LAYRITE CONCRETE PRODUCTS OPERATED AT THE NORTHERN END OF THE PROPERTY FROM 1944 TO 1981, AND THE LOCATION OF THEIR OPERATIONS IS SHOWN ON FIGURE 6.

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- 2013 SOIL BORING LOCATION
- 2013 SHALLOW GROUNDWATER MONITORING WELL
- 2013 INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL
- 2012 TRENCH SAMPLE LOCATION
- 2008 GROUNDWATER MONITORING WELL
- 1989 OR 1990 GROUNDWATER MONITORING WELL (ABANDONED OR DESTROYED)
- 1989 OR 1990 GROUNDWATER MONITORING WELL
- 1989 OR 1990 SOIL BORING (APPROX. LOCATION)
- 1989 OR 1990 SURFACE SOIL SAMPLE (APPROXIMATE LOCATION)
- 1994 SOIL BORING (APPROXIMATE LOCATION)
- 2008 SOIL BORING (APPROXIMATE LOCATION)
- 2009 SOIL BORING (APPROXIMATE LOCATION)
- 2010 TEST PIT (APPROXIMATE LOCATION)
- 2013 GROUNDWATER SEEP SAMPLE LOCATION
- JULY 2014 SOIL BORING
- 2014 DECOMMISSIONED GROUNDWATER MONITORING WELL
- DECEMBER 2014 SOIL BORING
- 2014 SHALLOW GROUNDWATER MONITORING WELL
- 2014 DEEP GROUNDWATER MONITORING WELL

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Drawing: HISTORICAL PROPERTY OPERATIONS - 1918 TO 1949

Date May 23, 2018	Scale AS SHOWN	Fig. No. 5
File Name 01-05	Project No. 101.00205.00037	

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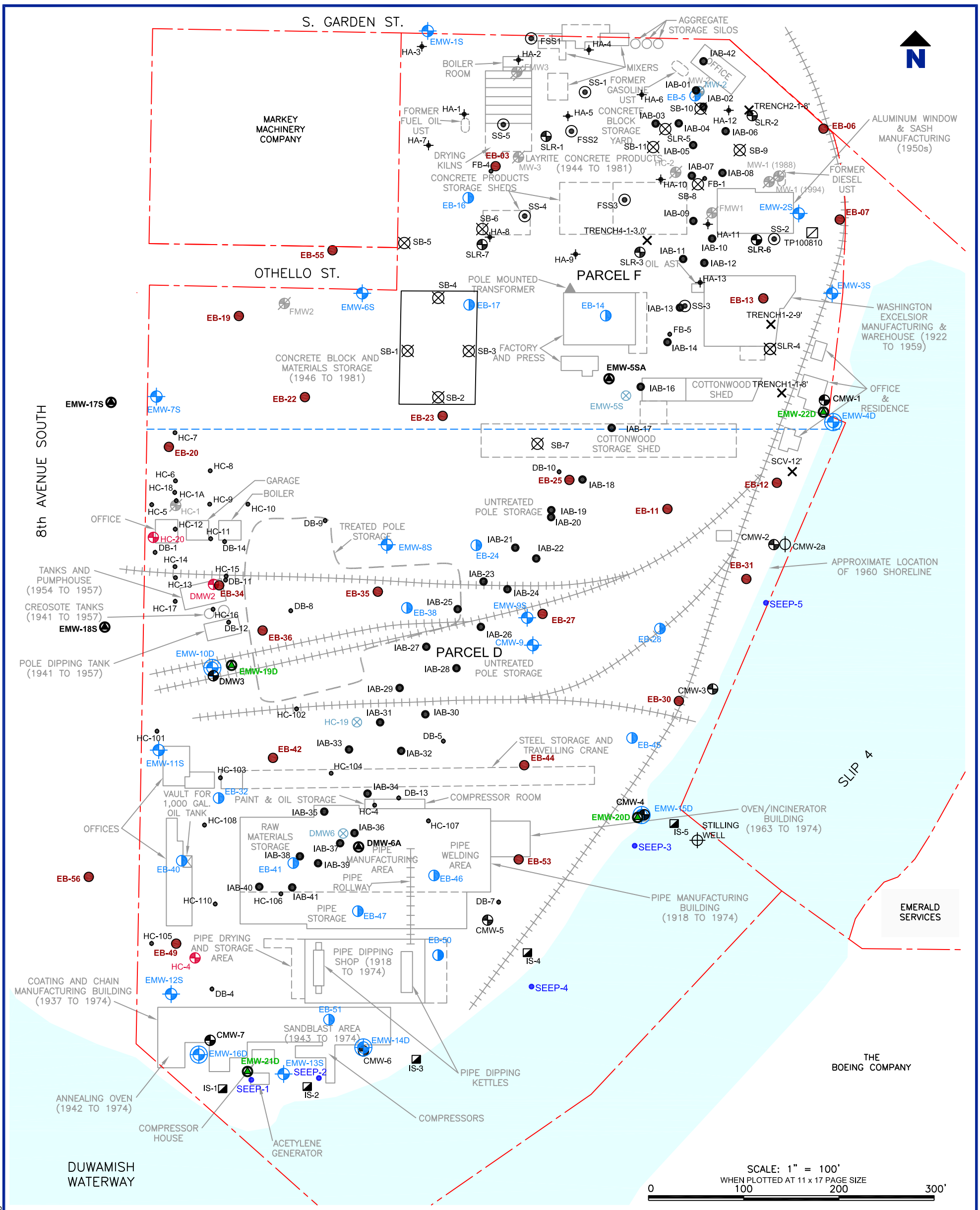

NOTES

1. DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG
2. LOCATIONS OF HISTORIC OPERATIONS FROM HART CROWSER (1991), SEACOR (1994), AND AERIAL PHOTOGRAPHS.

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- 2013 SOIL BORING LOCATION
- 2013 SHALLOW GROUNDWATER MONITORING WELL
- 2013 INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL
- 2012 TRENCH SAMPLE LOCATION
- 2008 GROUNDWATER MONITORING WELL
- 1989 OR 1990 GROUNDWATER MONITORING WELL (ABANDONED OR DESTROYED)
- 1989 OR 1990 GROUNDWATER MONITORING WELL
- 1989 OR 1990 SOIL BORING (APPROX. LOCATION)
- 1989 OR 1990 SURFACE SOIL SAMPLE (APPROXIMATE LOCATION)
- 1994 SOIL BORING (APPROXIMATE LOCATION)
- 2008 SOIL BORING (APPROXIMATE LOCATION)
- 2009 SOIL BORING (APPROXIMATE LOCATION)
- 2010 TEST PIT (APPROXIMATE LOCATION)
- 2013 GROUNDWATER SEEP SAMPLE LOCATION
- JULY 2014 SOIL BORING
- 2014 DECOMMISSIONED GROUNDWATER MONITORING WELL
- DECEMBER 2014 SOIL BORING
- 2014 SHALLOW GROUNDWATER MONITORING WELL
- 2014 DEEP GROUNDWATER MONITORING WELL

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Drawing: HISTORICAL PROPERTY OPERATIONS - 1950 TO 1981

Date May 23, 2018	Scale AS SHOWN	Fig. No. 6
File Name 01-06	Project No. 101.00205.00037	

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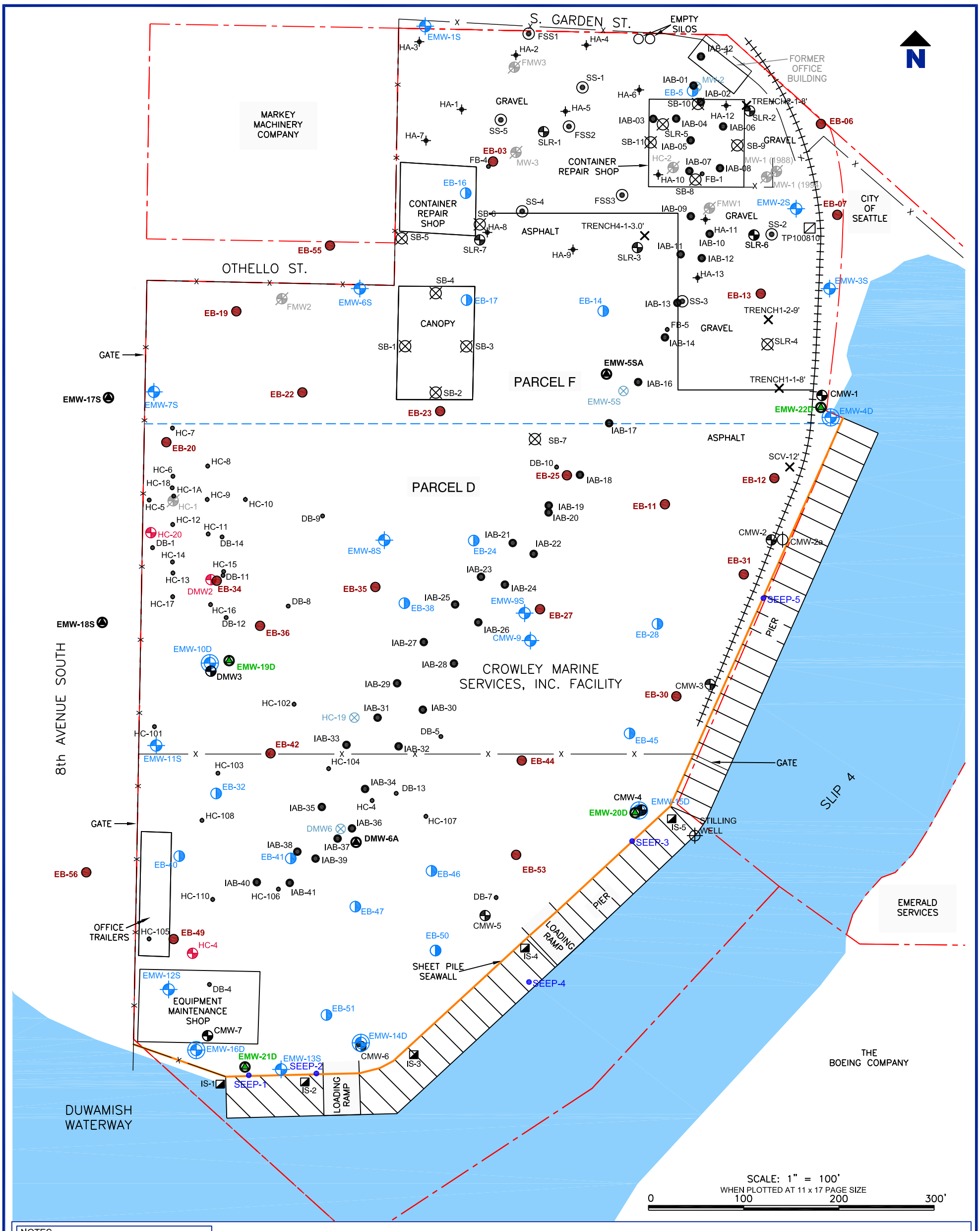

NOTES

DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- 2013 SOIL BORING LOCATION
- 2013 SHALLOW GROUNDWATER MONITORING WELL
- 2013 INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL
- 2012 TRENCH SAMPLE LOCATION
- 2008 GROUNDWATER MONITORING WELL
- 1989 OR 1990 GROUNDWATER MONITORING WELL (ABANDONED OR DESTROYED)
- 1989 OR 1990 GROUNDWATER MONITORING WELL
- 1989 OR 1990 SOIL BORING (APPROX. LOCATION)
- 1989 OR 1990 SURFACE SOIL SAMPLE (APPROXIMATE LOCATION)
- 1994 SOIL BORING (APPROXIMATE LOCATION)
- 2008 SOIL BORING (APPROXIMATE LOCATION)
- 2009 SOIL BORING (APPROXIMATE LOCATION)
- 2010 TEST PIT (APPROXIMATE LOCATION)
- 2013 GROUNDWATER SEEP SAMPLE LOCATION
- JULY 2014 SOIL BORING
- 2014 DECOMMISSIONED GROUNDWATER MONITORING WELL
- DECEMBER 2014 SOIL BORING
- 2014 SHALLOW GROUNDWATER MONITORING WELL
- 2014 DEEP GROUNDWATER MONITORING WELL

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Drawing: HISTORICAL PROPERTY OPERATIONS - MID-1980's TO 2009

Date	May 23, 2018	Scale	AS SHOWN
File Name	01-07	Project No.	101.00205.00037
Fig. No.	7		

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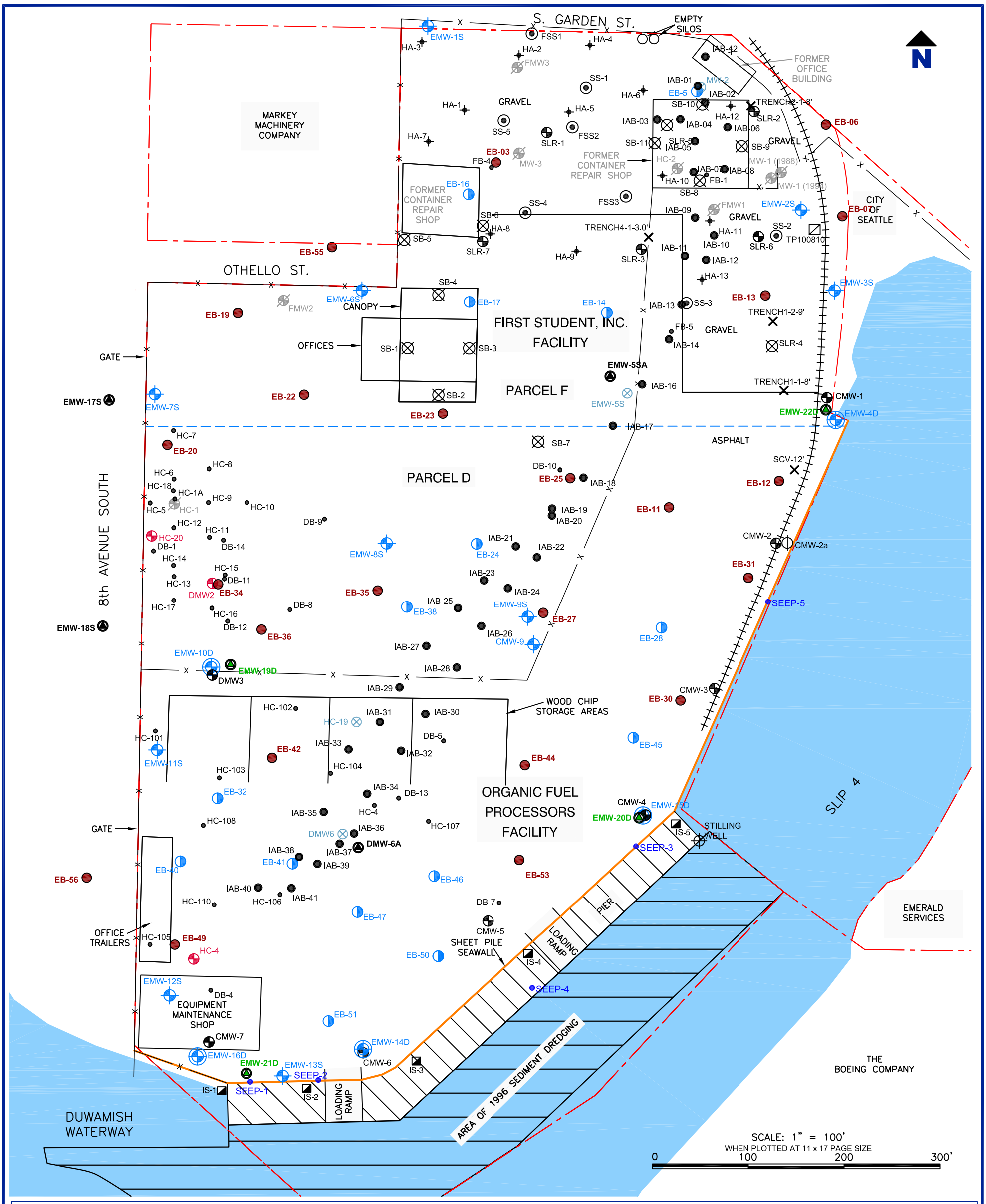

NOTES

DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA.
SURVEY PLAN, DRAWING 06133-CC052908.DWG

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- 2013 SOIL BORING LOCATION
- 2013 SHALLOW GROUNDWATER MONITORING WELL
- 2013 INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL
- 2012 TRENCH SAMPLE LOCATION
- 2008 GROUNDWATER MONITORING WELL
- 1989 OR 1990 GROUNDWATER MONITORING WELL (ABANDONED OR DESTROYED)
- 1989 OR 1990 GROUNDWATER MONITORING WELL
- 1989 OR 1990 SOIL BORING (APPROX. LOCATION)
- 1989 OR 1990 SURFACE SOIL SAMPLE (APPROXIMATE LOCATION)
- 1994 SOIL BORING (APPROXIMATE LOCATION)
- 2008 SOIL BORING (APPROXIMATE LOCATION)
- 2009 SOIL BORING (APPROXIMATE LOCATION)
- 2010 TEST PIT (APPROXIMATE LOCATION)
- 2013 GROUNDWATER SEEP SAMPLE LOCATION
- JULY 2014 SOIL BORING
- 2014 DECOMMISSIONED GROUNDWATER MONITORING WELL
- DECEMBER 2014 SOIL BORING
- 2014 SHALLOW GROUNDWATER MONITORING WELL
- 2014 DEEP GROUNDWATER MONITORING WELL

8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Drawing: HISTORICAL PROPERTY OPERATIONS - 2010 TO 2014

Date	May 24, 2018	Scale	AS SHOWN
File Name	01-08.dwg	Project No.	101.00205.00037

Fig. No. 8

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BOTHELL, WA 98201
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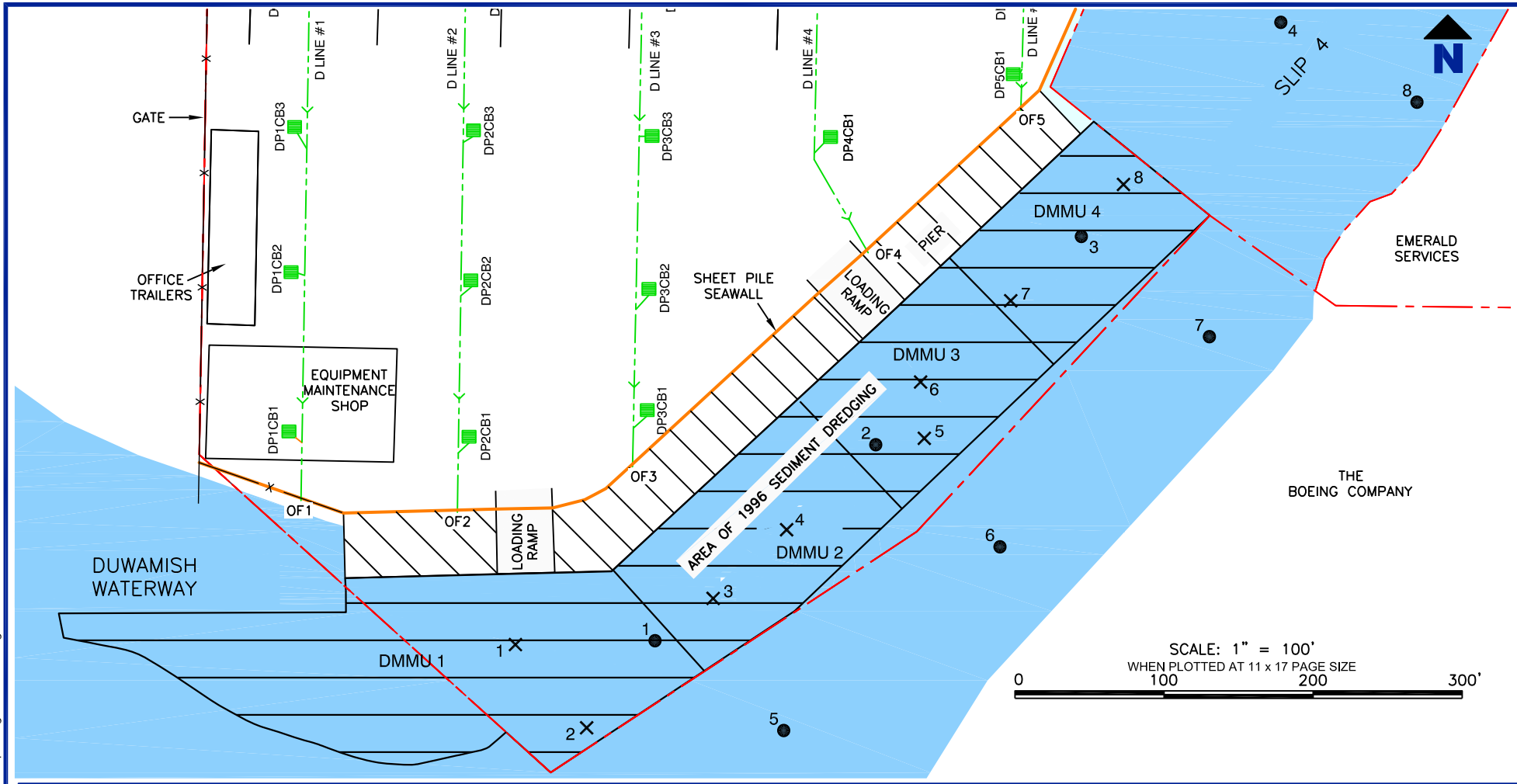

NOTES

1) DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG.

2) LOCATIONS OF STRUCTURES ARE APPROXIMATE.

LEGEND

PROPERTY BOUNDARIES	1● 1994 SURFACE SEDIMENT SAMPLE LOCATION
FENCE	3✕ 1995 SEDIMENT CORE LOCATION
1994 STORM WATER CONVEYANCE	DP2CB1■ 1994 STORM WATER CATCH BASIN LOCATION AND DESIGNATION
	OF5 OUTFALL LOCATION AND DESIGNATION

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SEATTLE, WASHINGTON

Drawing: LOCATIONS OF 1994 AND 1995 SEDIMENT SAMPLES

Date	May 23, 2018	Scale	AS SHOWN
File Name	01-09.dwg	Project No.	101.00205.00037

Fig. No. 9

SLR
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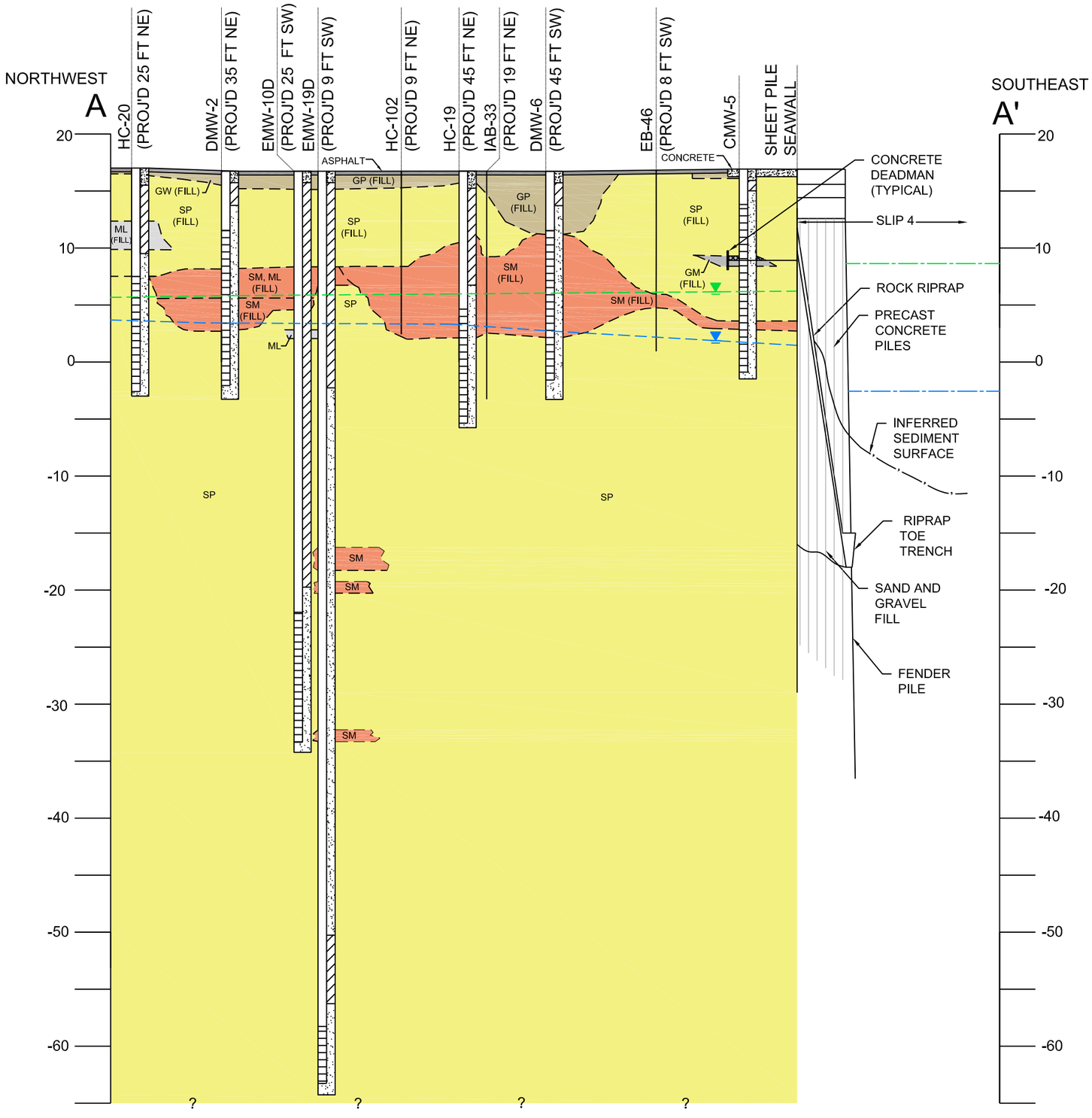
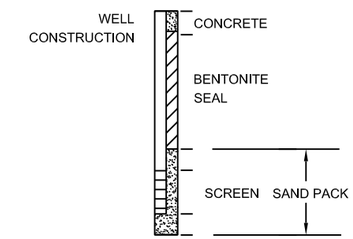


NOTES

VERTICAL ELEVATIONS RELATIVE TO NAVD 88 DATUM.

THE LOCATION OF THE CROSS SECTION IS SHOWN ON FIGURE 12.

LEGEND



GP, GW	CLEAN, SLIGHTLY SILTY TO SANDY GRAVEL
SP, SW	CLEAN, SLIGHTLY SILTY TO GRAVELY SAND
ML	SILT
SM, ML	SILTY SAND TO SANDY SILT
GM	SILTY GRAVEL
	ASPHALT
	CONCRETE
	INTERPRETED CONTACT POSITION (DASHED WHERE INFERRED)
	LOW - LOW TIDE SHALLOW GW ELEVATION (7/10/2013)
	HIGH - HIGH TIDE SHALLOW GW ELEVATION (9/23/2013)
	LOW - LOW TIDE SURFACE WATER ELEVATION (7/10/2013)
	HIGH - HIGH TIDE SURFACE WATER ELEVATION (9/23/2013)

0 10 20

APPROXIMATE VERTICAL SCALE IN FEET

0 100 200

APPROXIMATE HORIZONTAL SCALE IN FEET

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GEOLOGIC CROSS SECTION A-A'

Date June 1, 2018	Scale AS SHOWN	Fig. No. 10
File Name 01-10	Project No. 101.00205.00037	

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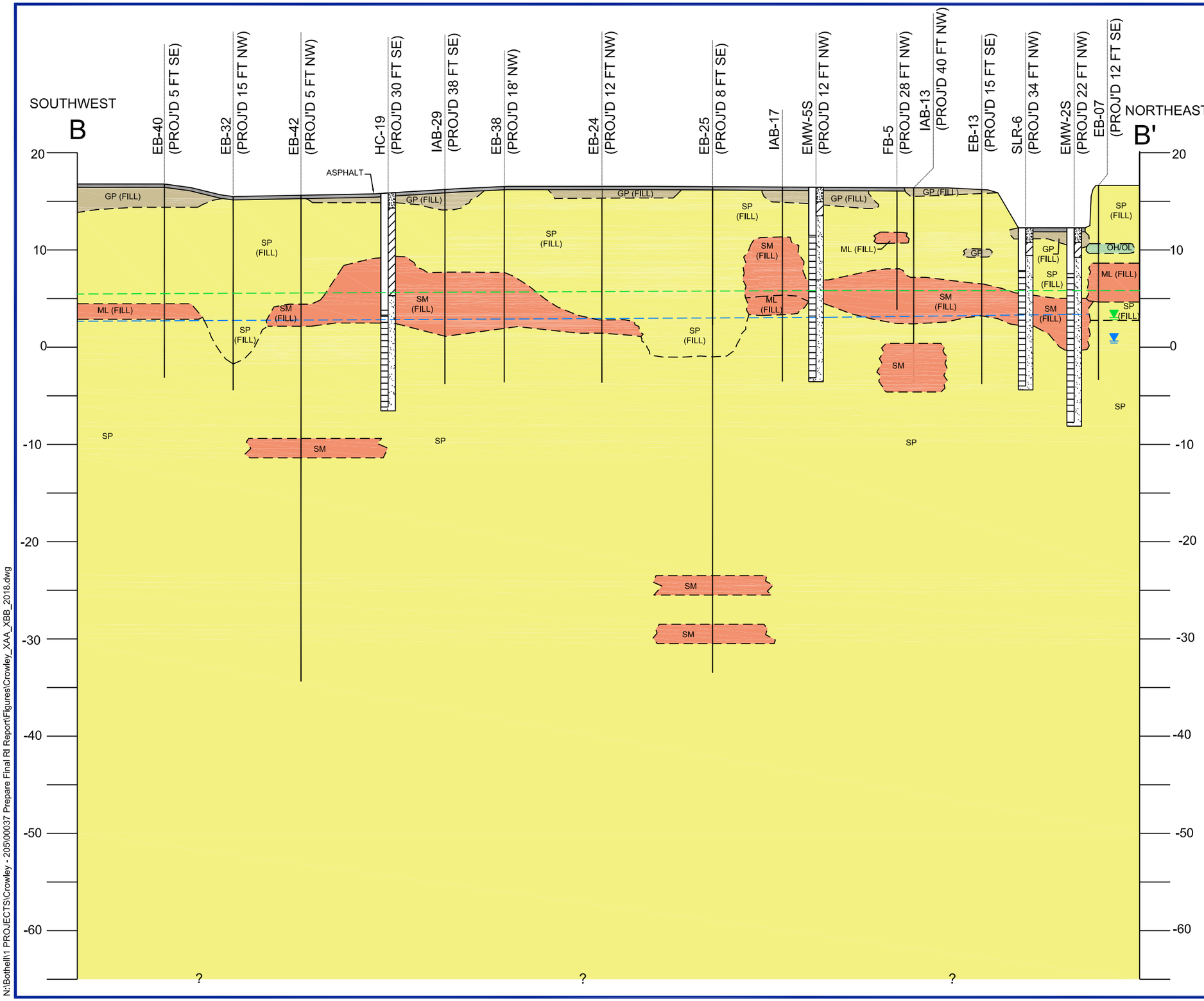
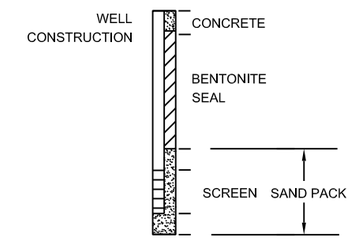


NOTES

VERTICAL ELEVATIONS RELATIVE TO NAVD 88 DATUM.

THE LOCATION OF THE CROSS SECTION IS SHOWN ON FIGURE 12.

LEGEND



GP	CLEAN, SLIGHTLY SILTY TO SANDY GRAVEL
SP	CLEAN, SLIGHTLY SILTY TO GRAVELY SAND
SM, ML	SILTY SAND TO SANDY SILT
GM	SILTY GRAVEL
OH/OL	ORGANIC SOIL
	ASPHALT
	CONCRETE
	INTERPRETED CONTACT POSITION
	LOW - LOW TIDE SHALLOW GW ELEVATION (7/10/2013)
	HIGH - HIGH TIDE SHALLOW GW ELEVATION (9/23/2013)

0 10 20

APPROXIMATE VERTICAL SCALE IN FEET

0 100 200

APPROXIMATE HORIZONTAL SCALE IN FEET

8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Drawing
GEOLOGIC CROSS SECTION B-B'

Date	June 1, 2018	Scale	AS SHOWN	Fig. No. 11
File Name	01-11	Project No.	101.00205.00037	

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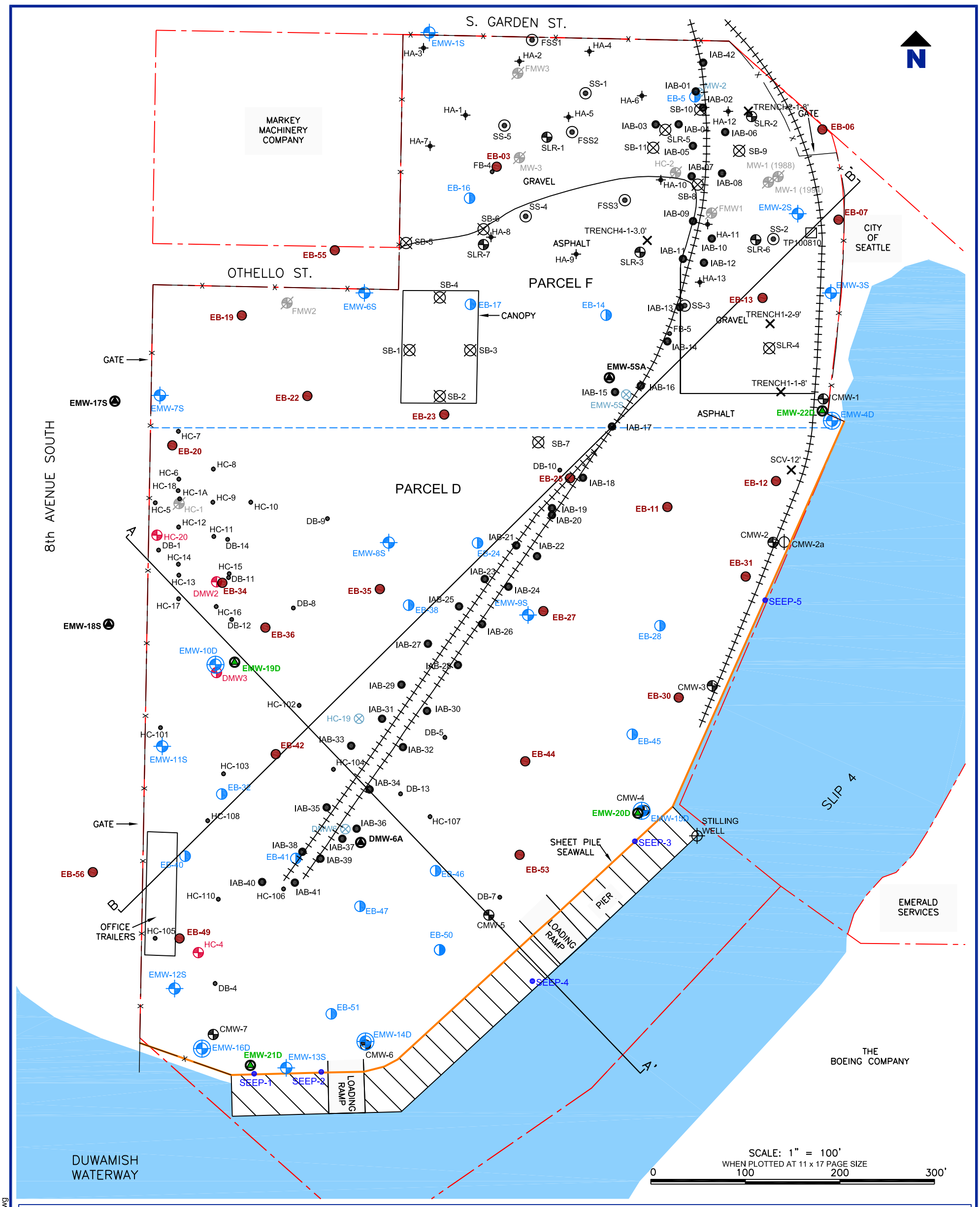

NOTES

DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- A A' LINE OF CROSS SECTION
- 2013 SOIL BORING LOCATION (PHASE 1)
- 2013 SHALLOW GROUNDWATER MONITORING WELL (PHASE 1)
- 2013 INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL (PHASE 1)
- 2012 TRENCH SAMPLE LOCATION
- 2008 GROUNDWATER MONITORING WELL
- 1989 OR 1990 GROUNDWATER MONITORING WELL (ABANDONED OR DESTROYED)
- 1989 OR 1990 GROUNDWATER MONITORING WELL
- 1989 OR 1990 SOIL BORING (APPROX. LOCATION)
- 1989 OR 1990 SURFACE SOIL SAMPLE (APPROXIMATE LOCATION)
- 1994 SOIL BORING (APPROXIMATE LOCATION)
- 2008 SOIL BORING (APPROXIMATE LOCATION)
- 2009 SOIL BORING (APPROXIMATE LOCATION)
- 2010 TEST PIT (APPROXIMATE LOCATION)
- 2013 GROUNDWATER SEEP SAMPLE LOCATION
- JULY 2014 SOIL BORING (PRE-IA)
- 2014 DECOMMISSIONED GROUNDWATER MONITORING WELL
- DECEMBER 2014 SOIL BORING (PHASE 2)
- 2014 SHALLOW GROUNDWATER MONITORING WELL (PHASE 2)
- 2014 DEEP GROUNDWATER MONITORING WELL (PHASE 2)

8TH AVENUE TERMINALS, INC. SITE
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SEATTLE, WASHINGTON

Drawing
SOIL AND GROUNDWATER INVESTIGATION LOCATIONS

Date	May 23, 2018	Scale	AS SHOWN
File Name	01-12.dwg	Project No.	101.00205.00037

Fig. No. 12

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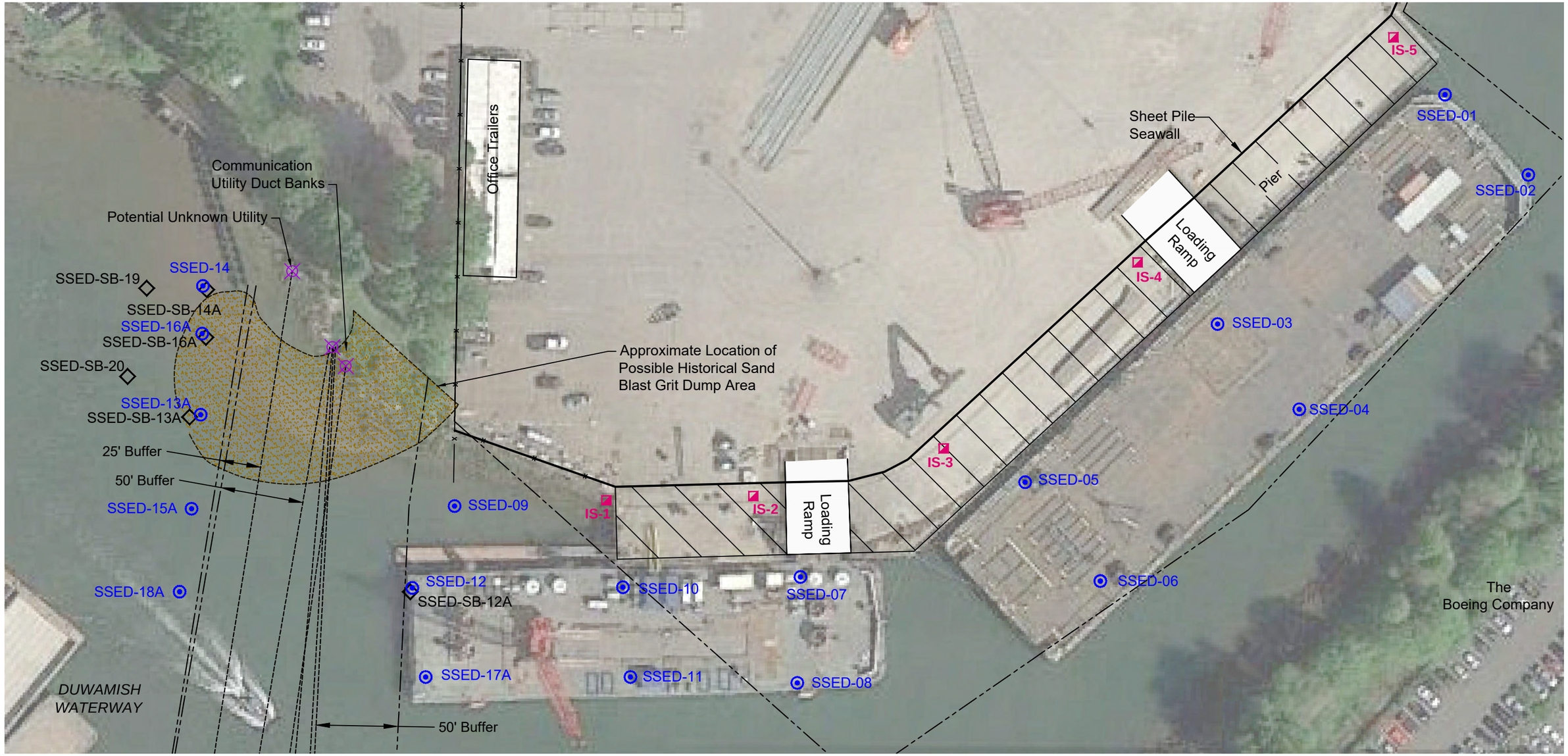

LEGEND

- FENCE
- PROPERTY BOUNDARY
- SHEET PILE SEAWALL
- UTILITY LINES
- UTILITY LOCATION
- INTERTIDAL SEDIMENT SAMPLE LOCATION (PHASE 1)
- SURFACE SEDIMENT SAMPLE LOCATION (PHASE 2)
- SEDIMENT CORE LOCATION (PHASE 2)

NOTES

1. BASE MAP PREPARED FROM TRIAD ASSOCIATES SURVEY PLAN, WITH UPDATES PROVIDED BY SLR, DATED 9/26/13. AND SEDIMENT SAMPLING LOCATIONS PROVIDED BY ANCHOR QEA, DATED 01/2015.
2. IMAGERY SOURCE: GOOGLE EARTH PRO, 2012.
3. HORIZONTAL DATUM: WASHINGTON STATE PLAN NORTH, NAD83, U.S. FEET
4. VERTICAL DATUM: NAVD88.

N

SCALE: 1" = 60'
WHEN PLOTTED AT 11 x 17 PAGE SIZE
0 60' 120' 180'

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

Report
8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Drawing
RI SEDIMENT SAMPLE LOCATIONS

Date August 6, 2019	Scale 1" = 30 Feet	Fig. No. 13
File Name 01-13	Project No. 101.00205.00037	

SLR

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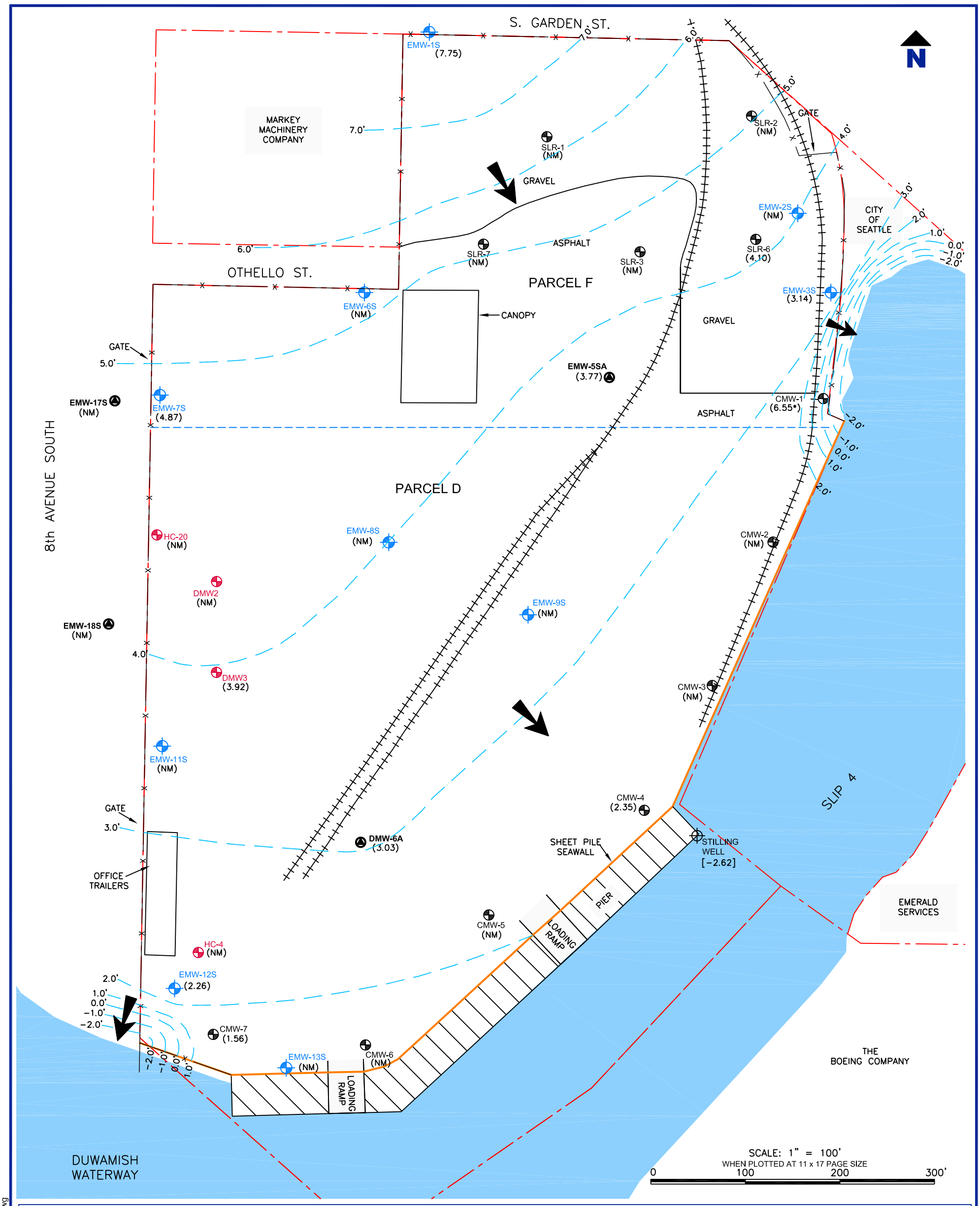

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- 2008 SHALLOW GROUNDWATER MONITORING WELL
- 2013 SHALLOW GROUNDWATER MONITORING WELL
- 2014 SHALLOW GROUNDWATER MONITORING WELL
- [-2.62] SLIP 4 SURFACE WATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (3.92) SHALLOW GROUNDWATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (NM) NOT MEASURED
- 2.0' INFERRED SHALLOW GROUNWATER ELEVATION CONTOUR LINE (IN FEET)
- GENERAL SHALLOW GROUNDWATER FLOW DIRECTION

NOTES

1. DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG
2. GROUNDWATER ELEVATION DATA COLLECTED DURING THE PHASE 2 TIDAL STUDY.
3. * = THE GROUNDWATER ELEVATION WAS ANOMALOUS AND NOT USED FOR CONTOURING.

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Drawing
SHALLOW GROUNDWATER ELEVATION CONTOUR MAP - LOW TIDE CONDITIONS

Date	June 5, 2018	Scale	AS SHOWN
File Name	01-14.dwg	Project No.	101.00205.00037

Fig. No. 14

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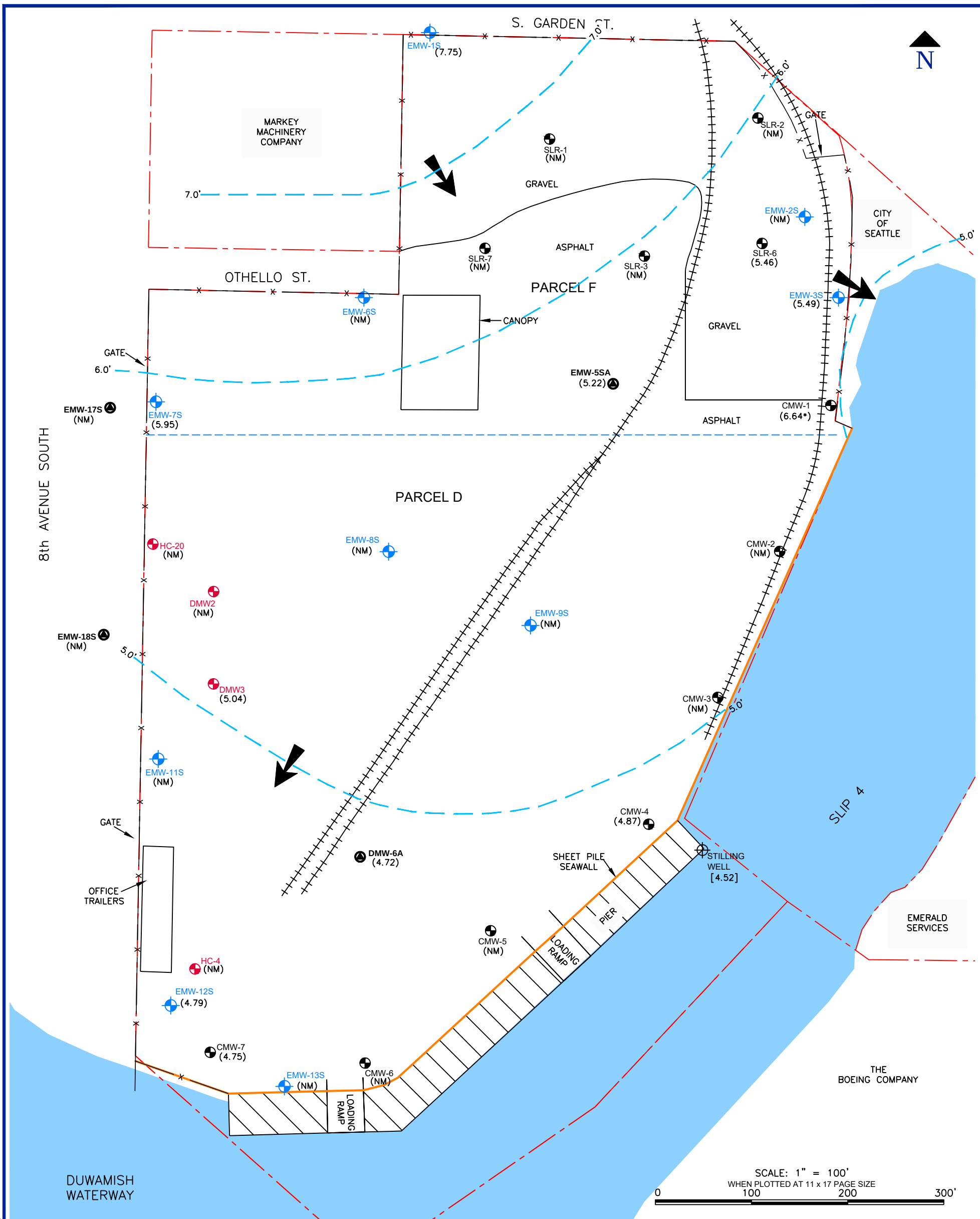

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- 2008 SHALLOW GROUNDWATER MONITORING WELL
- 2013 SHALLOW GROUNDWATER MONITORING WELL
- 2014 SHALLOW GROUNDWATER MONITORING WELL
- [4.52] SLIP 4 SURFACE WATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (4.87) SHALLOW GROUNDWATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (NM) NOT MEASURED
- 5.0' INFERRED SHALLOW GROUNWATER ELEVATION CONTOUR LINE (IN FEET)
- GENERAL SHALLOW GROUNDWATER FLOW DIRECTION

NOTES

1. DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG
2. GROUNDWATER ELEVATION DATA COLLECTED DURING THE PHASE 2 TIDAL STUDY.
3. * = THE GROUNDWATER ELEVATION WAS ANOMALOUS AND NOT USED FOR CONTOURING.

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Drawing
SHALLOW GROUNDWATER ELEVATION CONTOUR MAP - MEAN TIDE CONDITIONS

Date June 5, 2018	Scale AS SHOWN	Fig. No. 15
File Name 01-14.dwg	Project No. 101.00205.00037	

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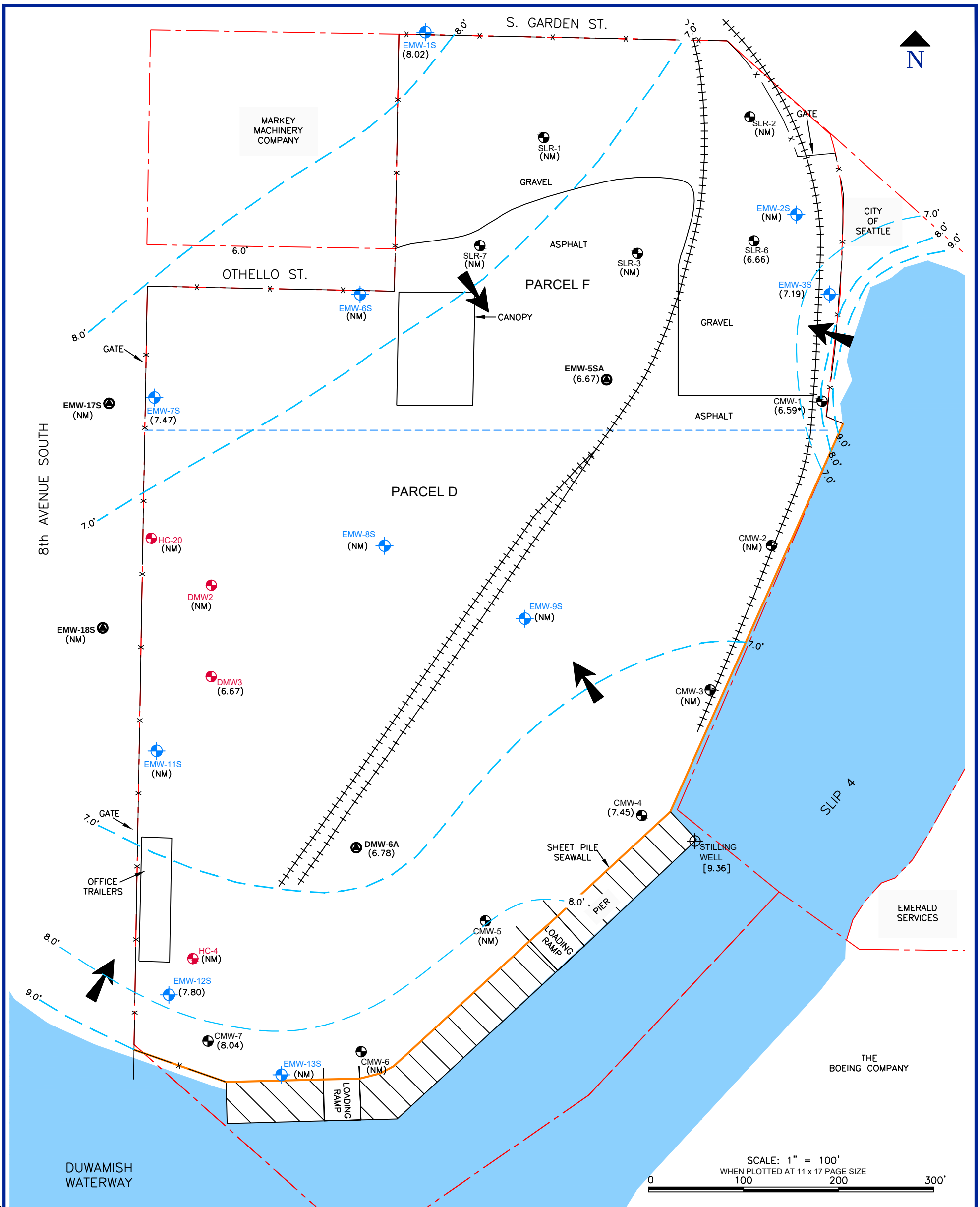

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- 2008 SHALLOW GROUNDWATER MONITORING WELL
- 2013 SHALLOW GROUNDWATER MONITORING WELL
- 2014 SHALLOW GROUNDWATER MONITORING WELL
- [9.36] SLIP 4 SURFACE WATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (3.92) SHALLOW GROUNDWATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (NM) NOT MEASURED
- 7.0' INFERRED SHALLOW GROUNWATER ELEVATION CONTOUR LINE (IN FEET)
- GENERAL SHALLOW GROUNDWATER FLOW DIRECTION

NOTES

1. DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG
2. GROUNDWATER ELEVATION DATA COLLECTED DURING THE PHASE 2 TIDAL STUDY.
3. * = THE GROUNDWATER ELEVATION WAS ANOMALOUS AND NOT USED FOR CONTOURING.

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Drawing
SHALLOW GROUNDWATER ELEVATION CONTOUR MAP - HIGH TIDE CONDITIONS

Date June 13, 2019	Scale AS SHOWN	Fig. No. 16
File Name 01-14.dwg	Project No. 101.00205.00037	

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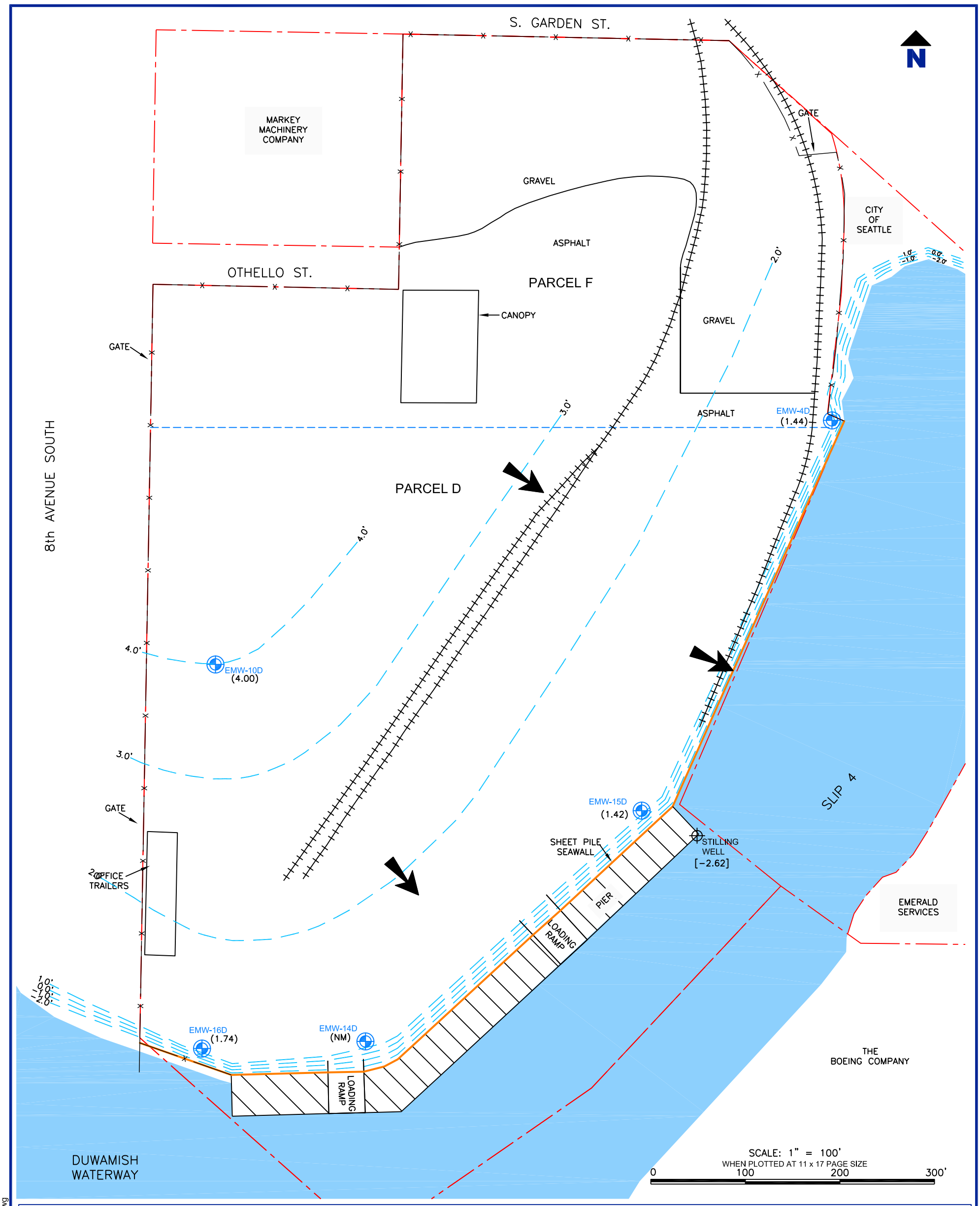

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- 2013 INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL
- [-2.62] SLIP 4 SURFACE WATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (1.74) INTERMEDIATE-DEPTH GROUNDWATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (NM) NOT MEASURED
- 2.0' INFERRED INTERMEDIATE-DEPTH GROUNWATER ELEVATION CONTOUR LINE (IN FEET)
- GENERAL INTERMEDIATE-DEPTH GROUNDWATER FLOW DIRECTION

NOTES

1. DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG
2. GROUNDWATER ELEVATION DATA COLLECTED DURING THE PHASE 2 TIDAL STUDY.

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Drawing INTERMEDIATE-DEPTH GROUNDWATER ELEVATION CONTOUR MAP - LOW TIDE CONDITIONS

Date June 5, 2018	Scale AS SHOWN	Fig. No. 17
File Name 01-14.dwg	Project No. 101.00205.00037	

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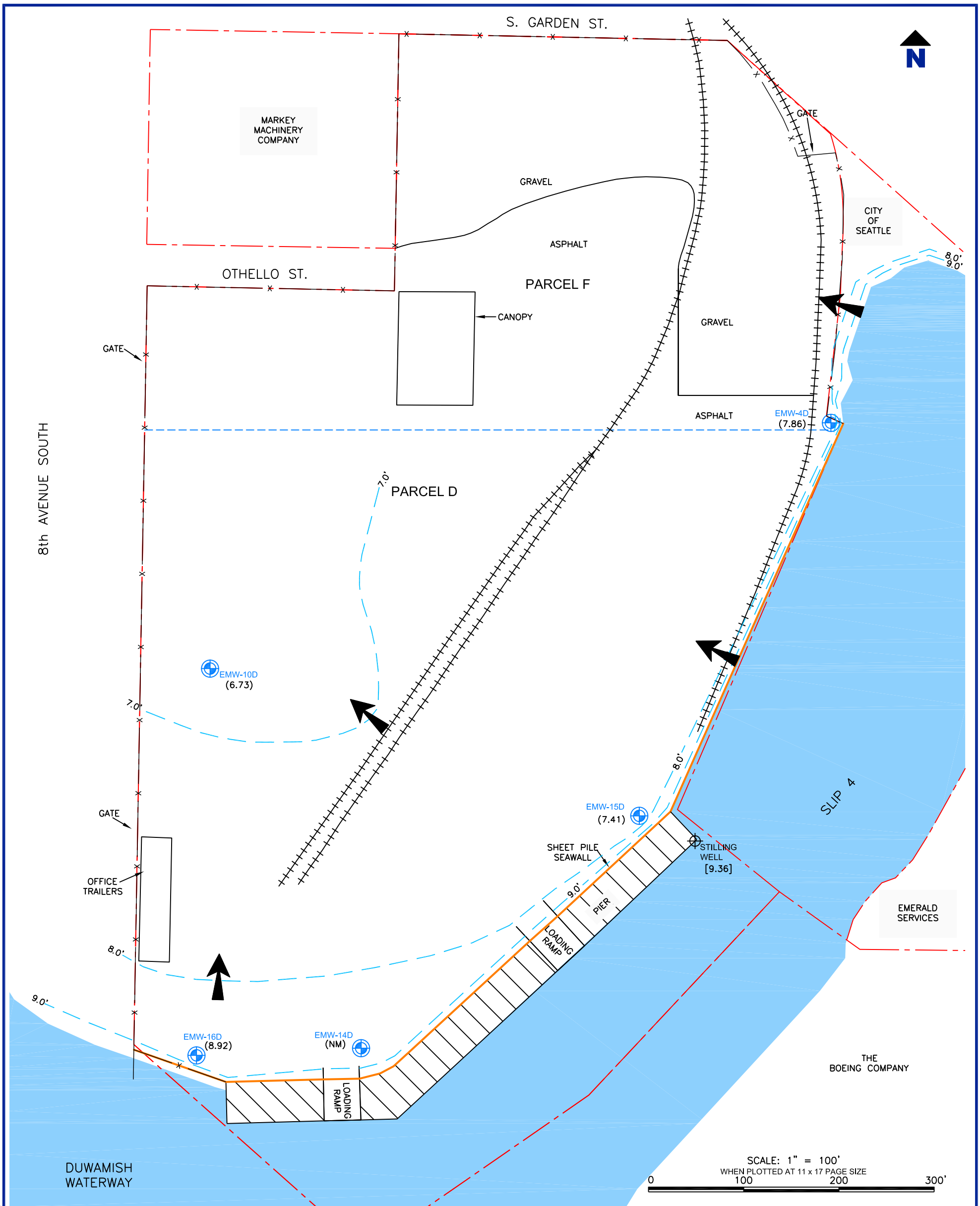

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- 2013 INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL
- [9.36] SLIP 4 SURFACE WATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (6.73) INTERMEDIATE-DEPTH GROUNDWATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (NM) NOT MEASURED
- 8.0' INFERRED INTERMEDIATE-DEPTH GROUNWATER ELEVATION CONTOUR LINE (IN FEET)
- GENERAL INTERMEDIATE-DEPTH GROUNDWATER FLOW DIRECTION

NOTES

1. DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG
2. GROUNDWATER ELEVATION DATA COLLECTED DURING THE PHASE 2 TIDAL STUDY.

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Drawing INTERMEDIATE-DEPTH GROUNDWATER ELEVATION CONTOUR MAP - HIGH TIDE CONDITIONS

Date June 5, 2018	Scale AS SHOWN	Fig. No. 18
File Name 01-14.dwg	Project No. 101.00205.00037	

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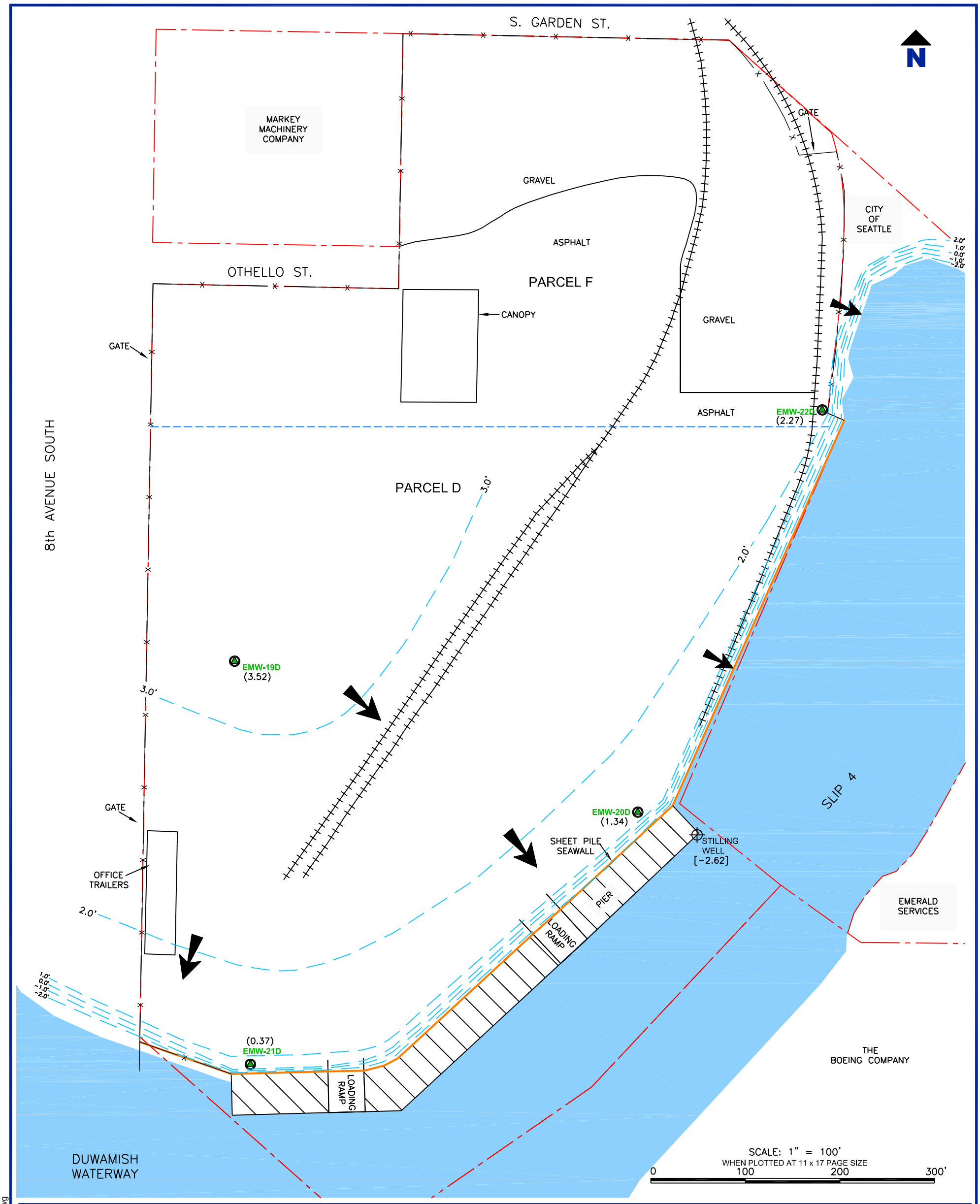

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- 2014 DEEP GROUNDWATER MONITORING WELL
- [-2.62] SLIP 4 SURFACE WATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (1.34) DEEP GROUNDWATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- 2.0' DEEP GROUNWATER ELEVATION CONTOUR LINE (IN FEET)
- GENERAL DEEP GROUNDWATER FLOW DIRECTION

NOTES

1. DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG
2. GROUNDWATER ELEVATION DATA COLLECTED DURING THE PHASE 2 TIDAL STUDY.

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Drawing
DEEP GROUNDWATER ELEVATION CONTOUR MAP - LOW TIDE CONDITIONS

Date	June 5, 2018	Scale	AS SHOWN
File Name	01-14.dwg	Project No.	101.00205.00037

Fig. No. 19

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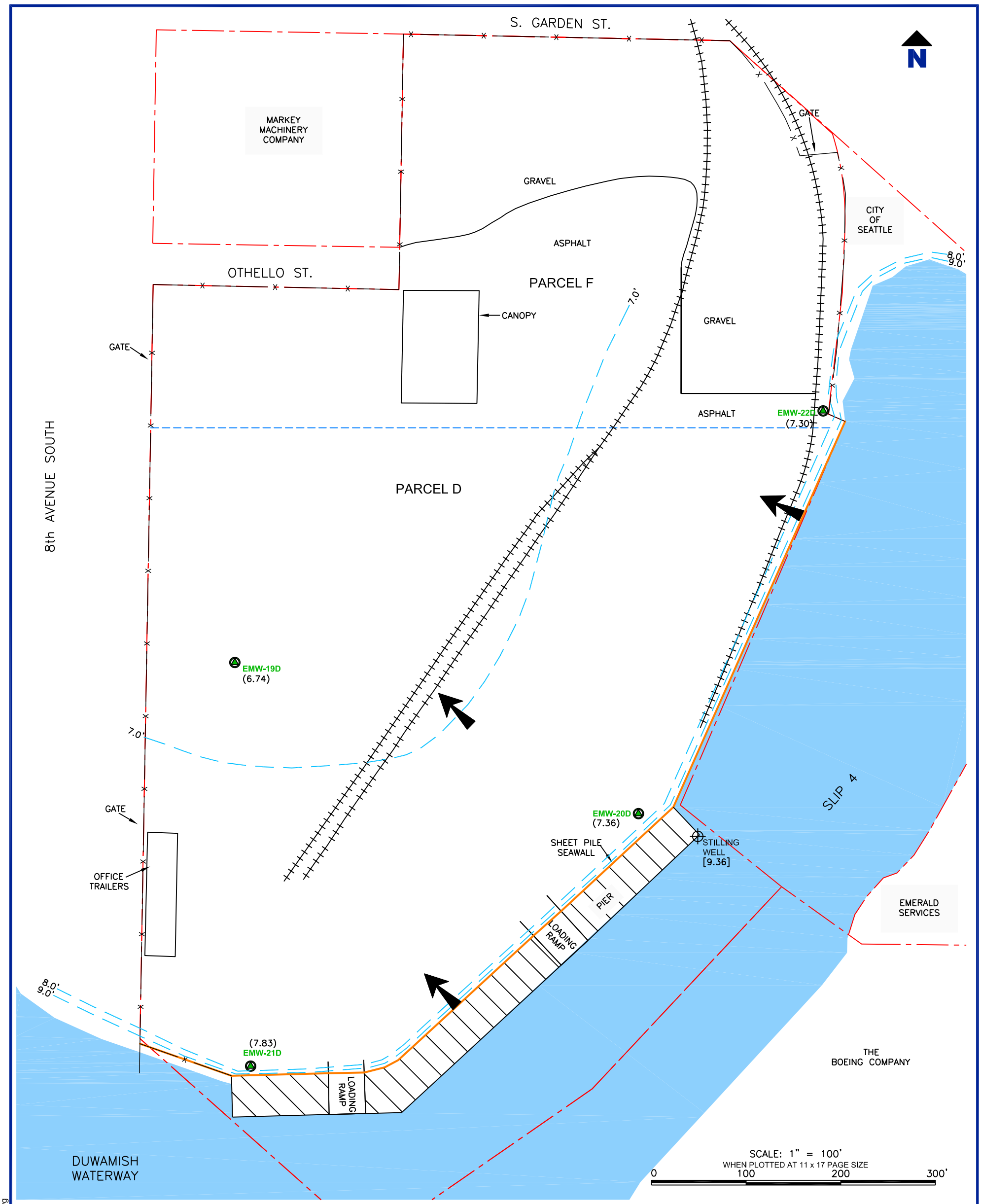

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- RAIL LINE
- FENCE
- SHEET PILE SEAWALL
- 2014 DEEP GROUNDWATER MONITORING WELL
- [9.36] SLIP 4 SURFACE WATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- (6.74) DEEP GROUNDWATER ELEVATION (IN FEET) ABOVE NAVD 88 DATUM
- 7.0' INFERRED DEEP GROUNWATER ELEVATION CONTOUR LINE (IN FEET)
- GENERAL DEEP GROUNDWATER FLOW DIRECTION

NOTES

1. DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG
2. GROUNDWATER ELEVATION DATA COLLECTED DURING THE PHASE 2 TIDAL STUDY.

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Drawing
DEEP GROUNDWATER ELEVATION CONTOUR MAP - HIGH TIDE CONDITIONS

Date June 5, 2018	Scale AS SHOWN	Fig. No. 20
File Name 01-14.dwg	Project No. 101.00205.00037	

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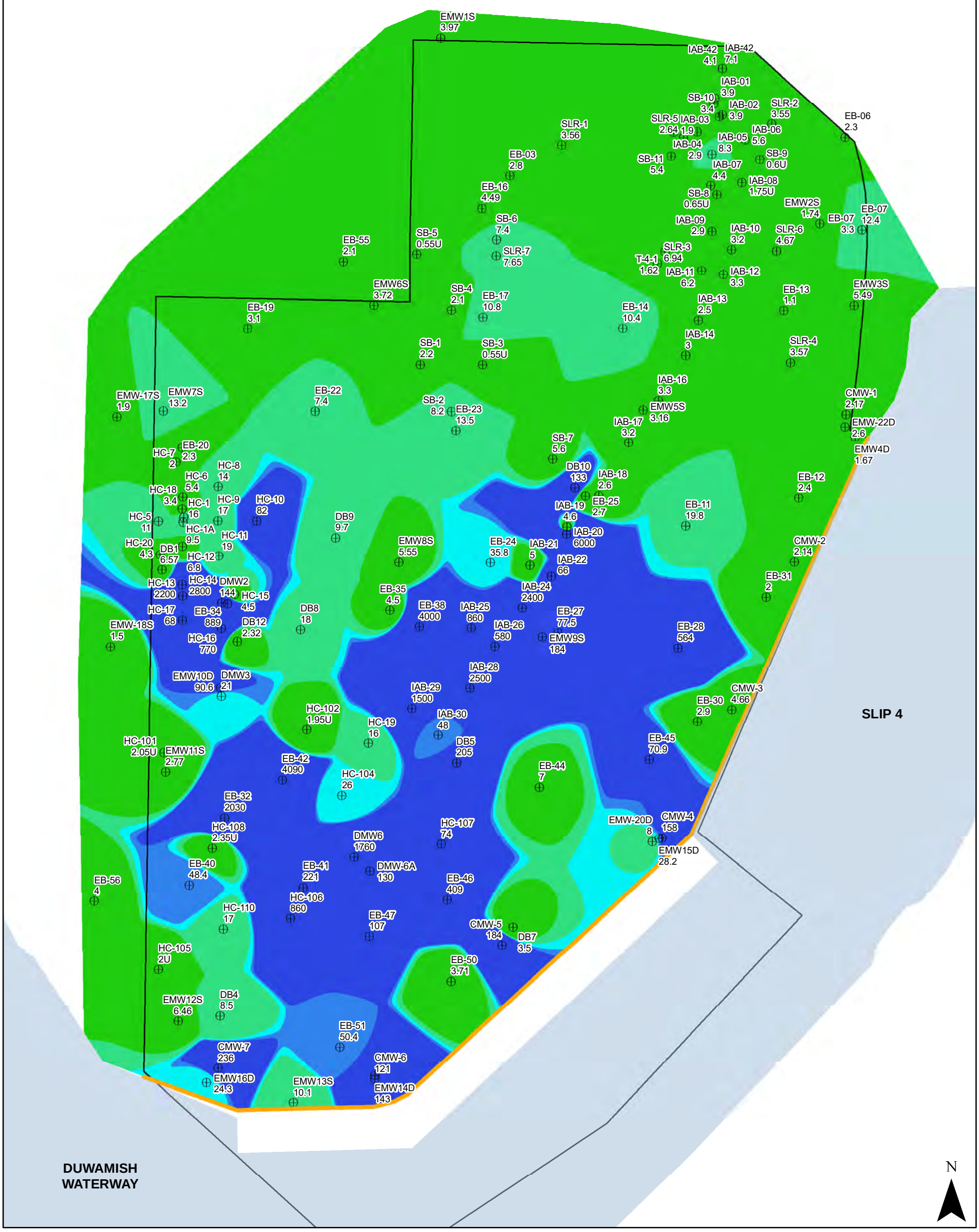

LEGEND

- Sheet Pile Seawall
- Property Boundary
- ⊕ Investigation Location

Arsenic (mg/kg)

- < 7.3 (screening level based on natural background concentration)
- 7.3 - 20
- 20 - 40
- 40 - 60
- > 60

U = 1/2 of the highest method reporting limit at each location was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

8TH AVENUE TERMINALS, INC. SITE
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Figure

MAXIMUM CONCENTRATIONS OF ARSENIC IN SOIL SAMPLES COLLECTED BETWEEN 0 AND 6 FEET BGS

Project No. 101.00205.00037

Figure No. 21

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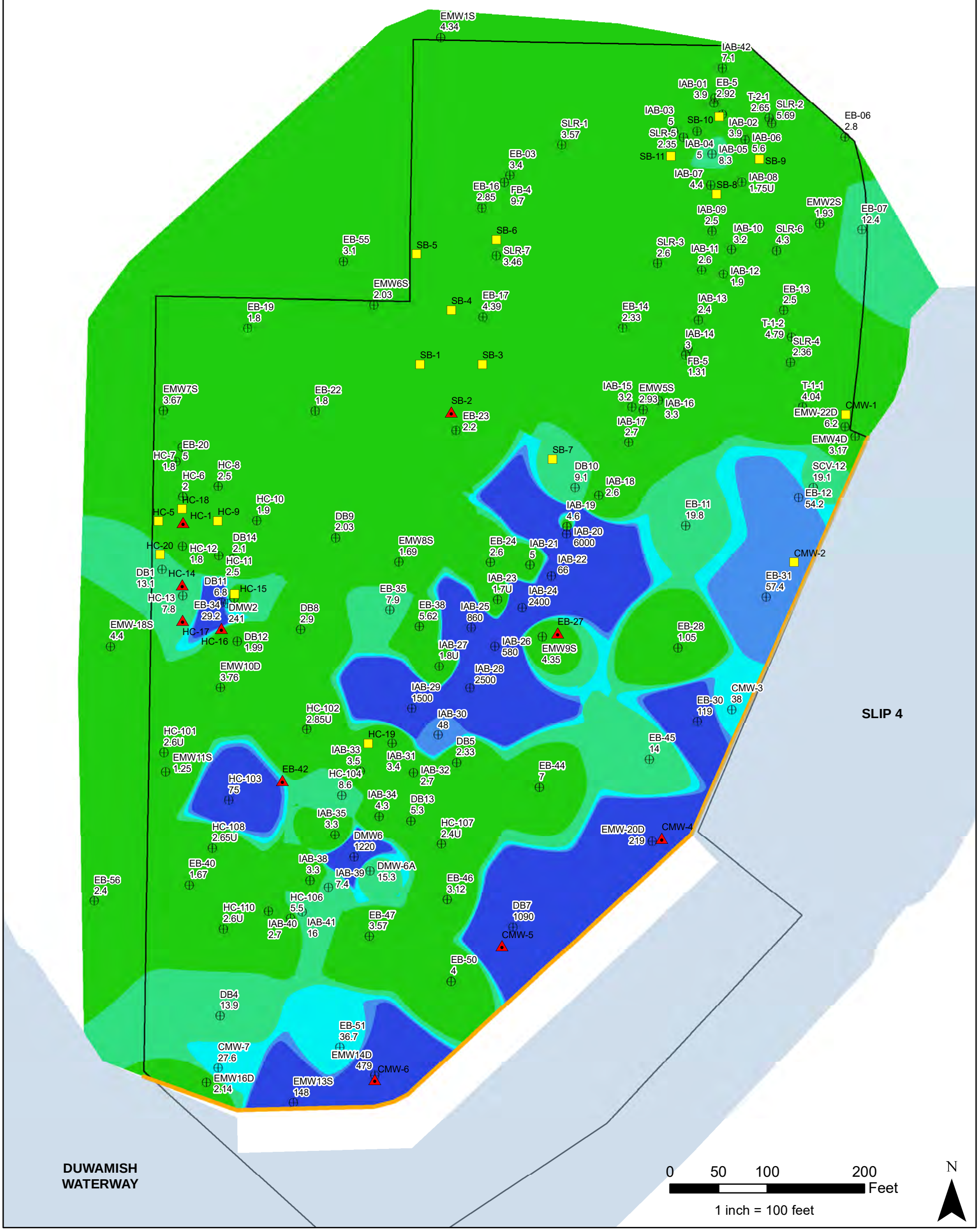

LEGEND

- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected a a depth less than 6 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Arsenic (mg/kg)

- < 7.3 (screening level based on natural background concentration)
- 7.3 - 20
- 20 - 40
- 40 - 60
- > 60

8TH AVENUE TERMINALS, INC. SITE
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Figure

MAXIMUM CONCENTRATIONS OF ARSENIC IN SOIL SAMPLES COLLECTED BETWEEN 6 AND 12 FEET BGS

Project No.	Figure No.
101.00205.00037	22

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BOTHELL, WA 98021
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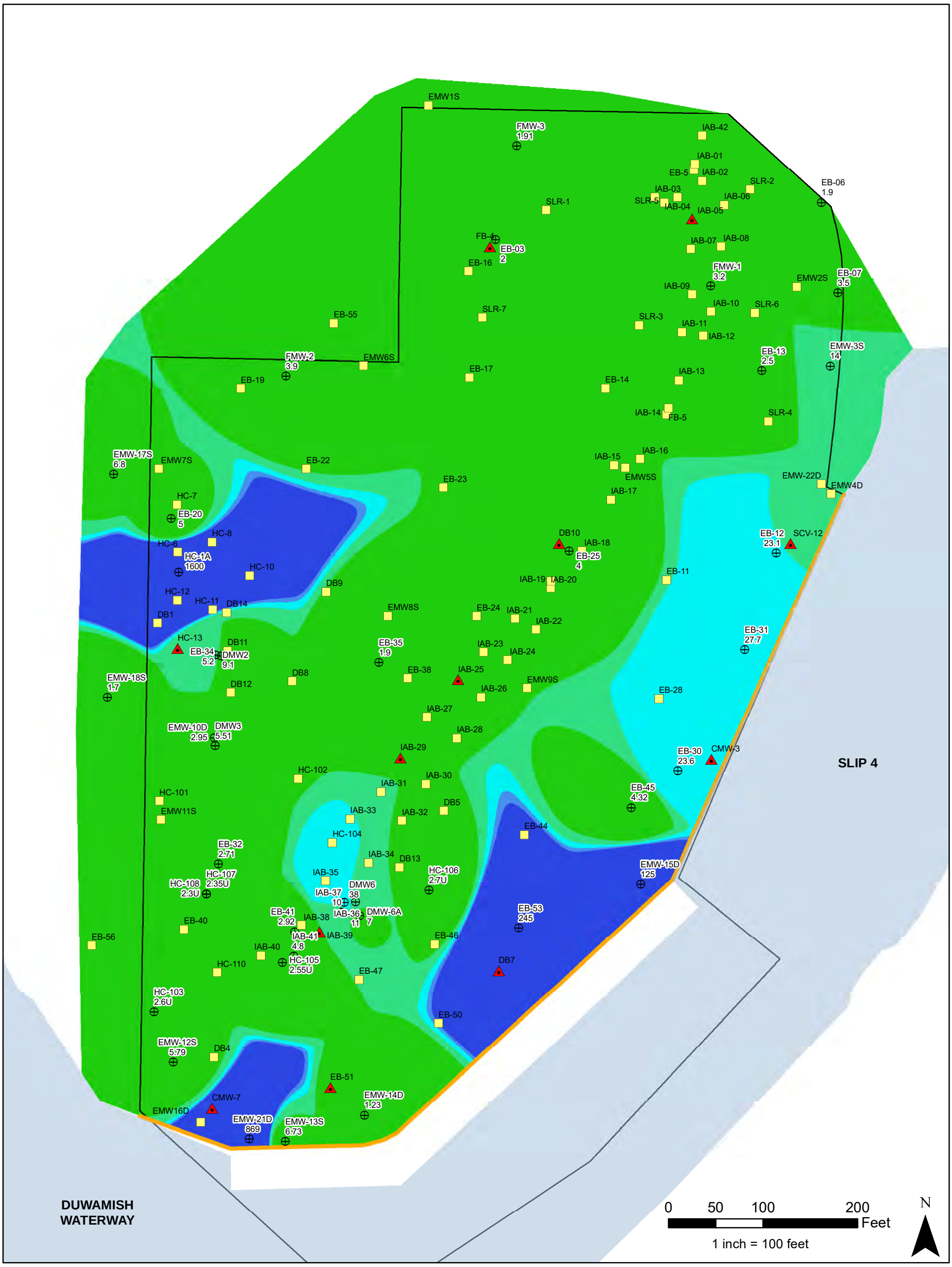

LEGEND

- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration below the screening level
- Investigation Location
- Sheet Pile Seawall
- Property Boundary

Arsenic (mg/kg)

- < 7.3 (screening level based on natural background concentrations)
- 7.3 - 20
- 20 - 40
- 40 - 60
- > 60

U = 1/2 of the highest method reporting limit at each location was used for contouring.

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Figure
MAXIMUM CONCENTRATIONS OF ARSENIC IN SOIL SAMPLES COLLECTED AT DEPTHS GREATER THAN 12 FEET BGS

Project No. 101.00205.00037

Figure No. 23

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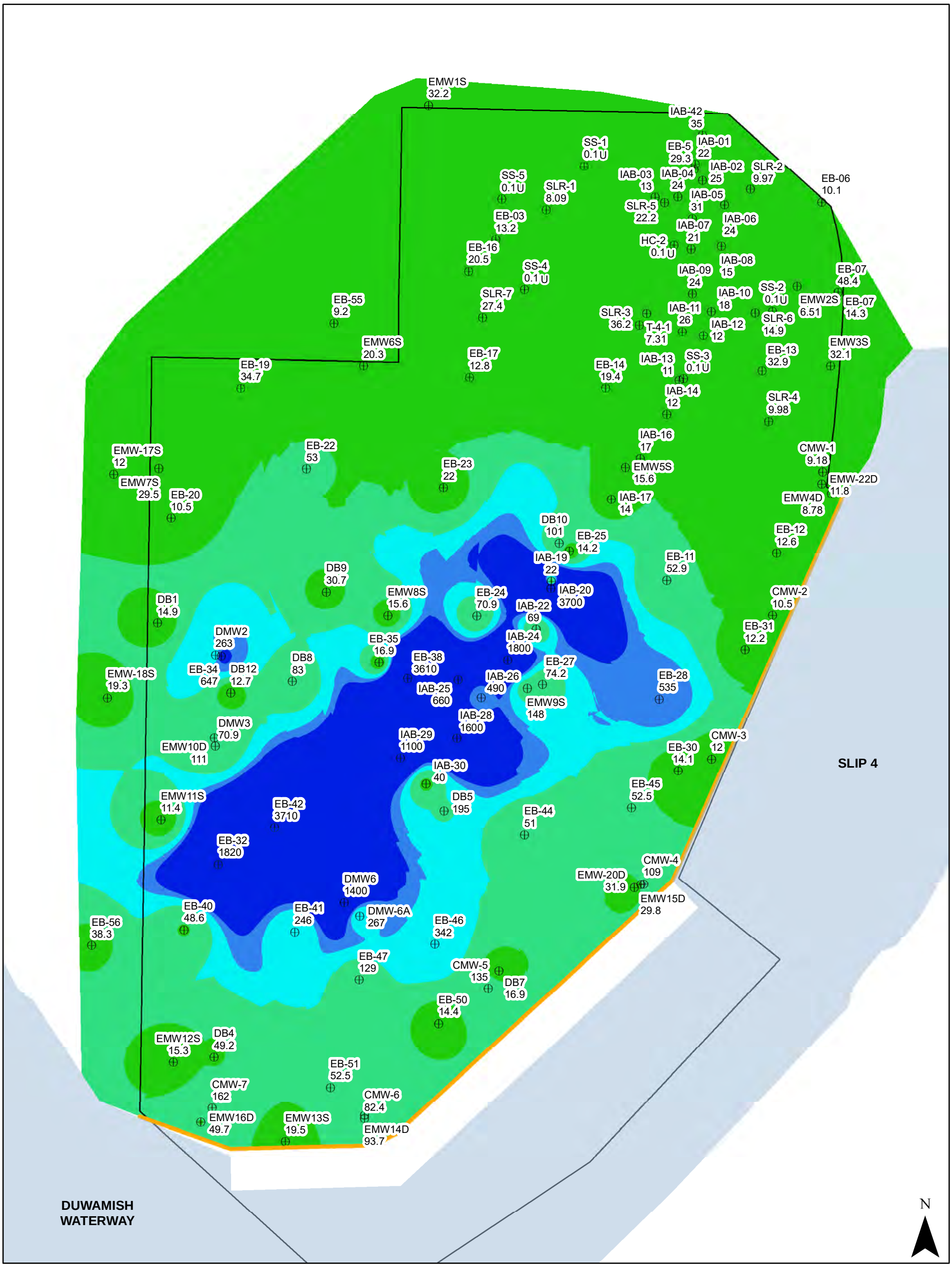

LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Copper (mg/kg)

- < 50
- 50 - 200
- 200 - 400
- 400 - 550
- > 550 (screening level)

0 50 100 200 Feet

1 inch = 100 feet

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Figure
MAXIMUM CONCENTRATIONS OF COPPER IN SOIL SAMPLES COLLECTED BETWEEN 0 AND 6 FEET BGS

Project No. 101.00205.00037

Figure No. 24

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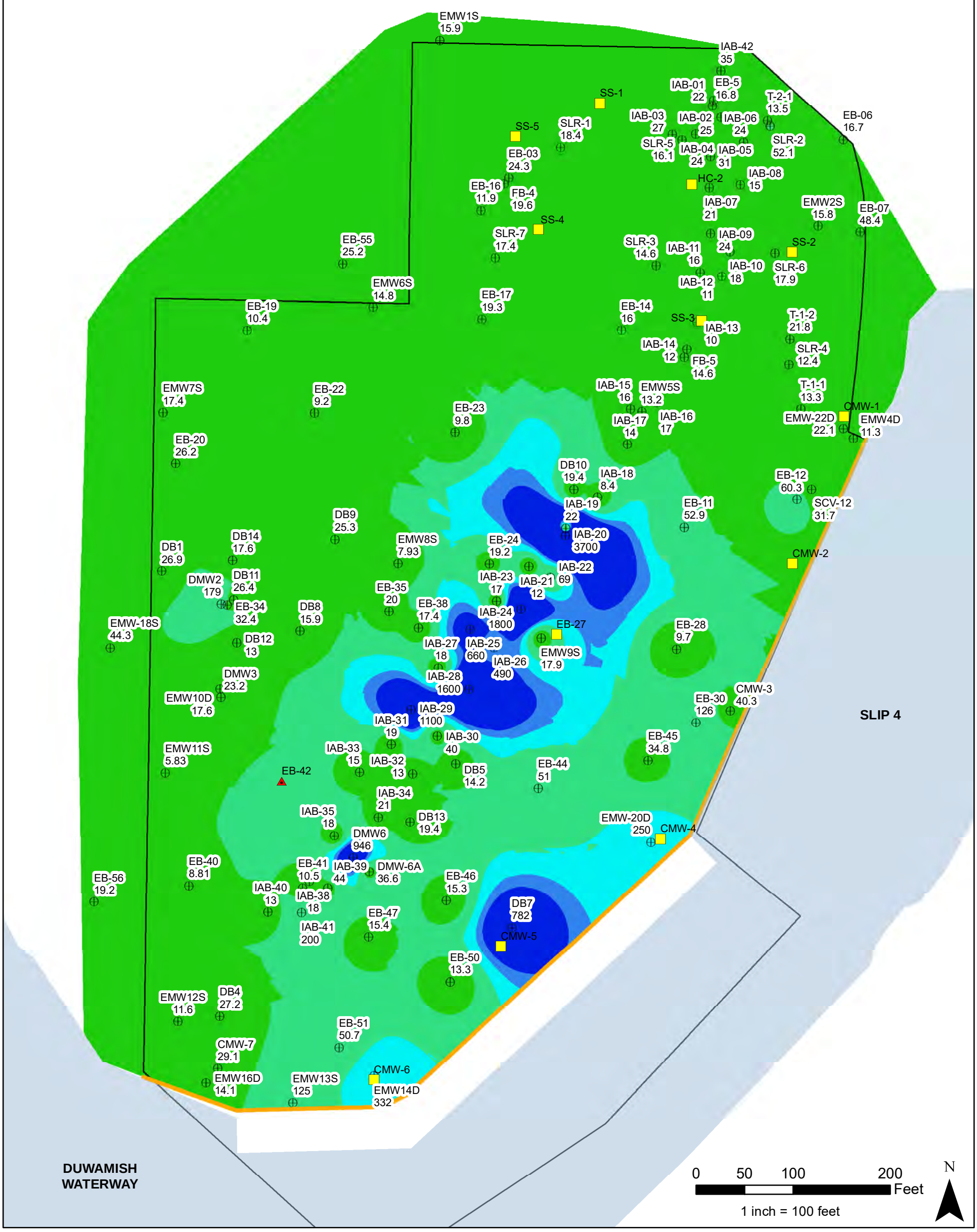

LEGEND

- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Copper (mg/kg)

- < 50
- 50 - 200
- 200 - 400
- 400 - 550
- > 550 (screening level)

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Figure
MAXIMUM CONCENTRATIONS OF COPPER IN SOIL SAMPLES COLLECTED BETWEEN 6 AND 12 FEET BGS

Project No. 101.00205.00037

Figure No. 25

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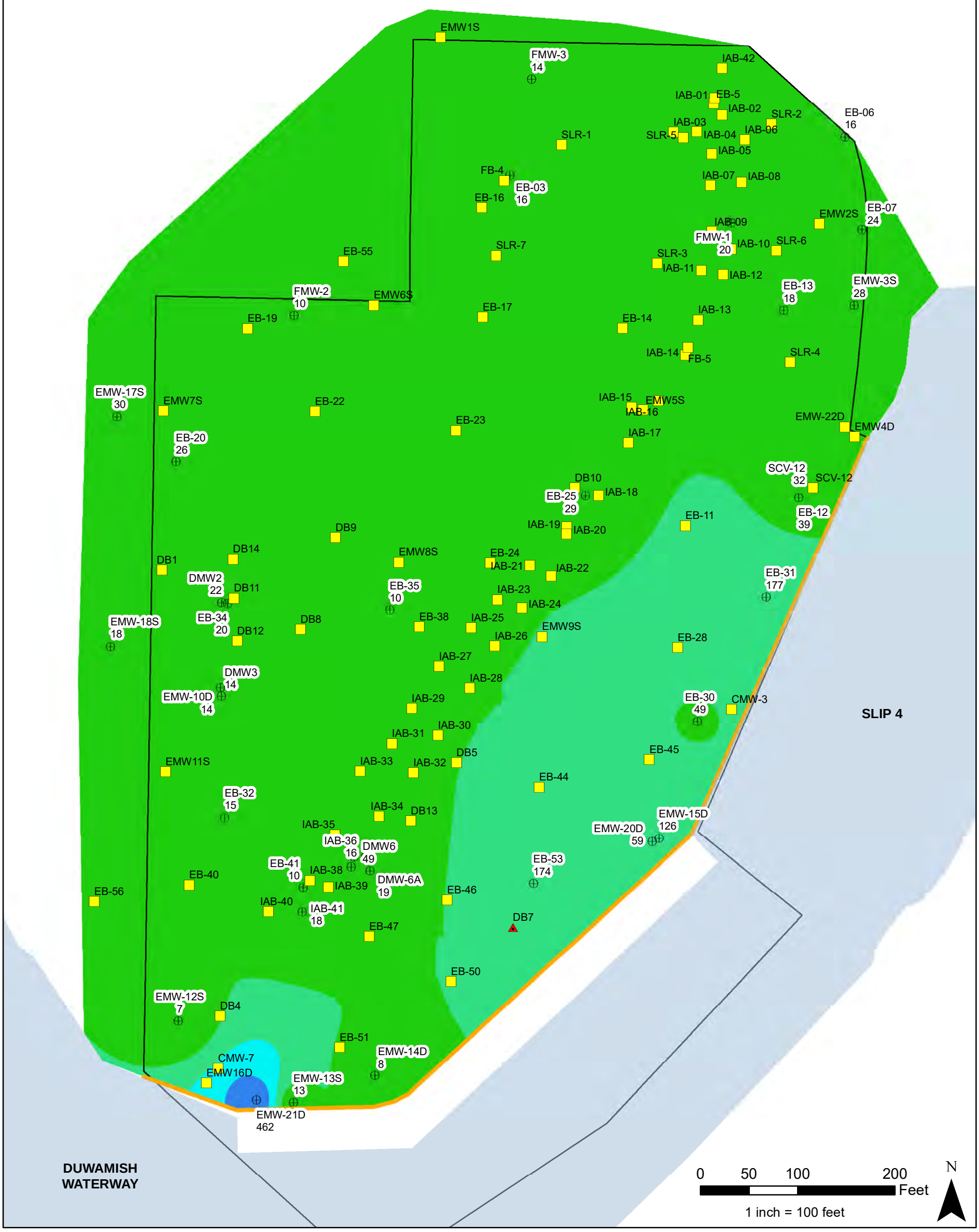

LEGEND

- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Copper (mg/kg)

- < 50
- 50 - 200
- 200 - 400
- 400 - 550
- > 550 (screening level)

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Figure
MAXIMUM CONCENTRATIONS OF COPPER IN SOIL SAMPLES COLLECTED AT DEPTHS GREATER THAN 12 FEET BGS

Project No. 101.00205.00037

Figure No. 26

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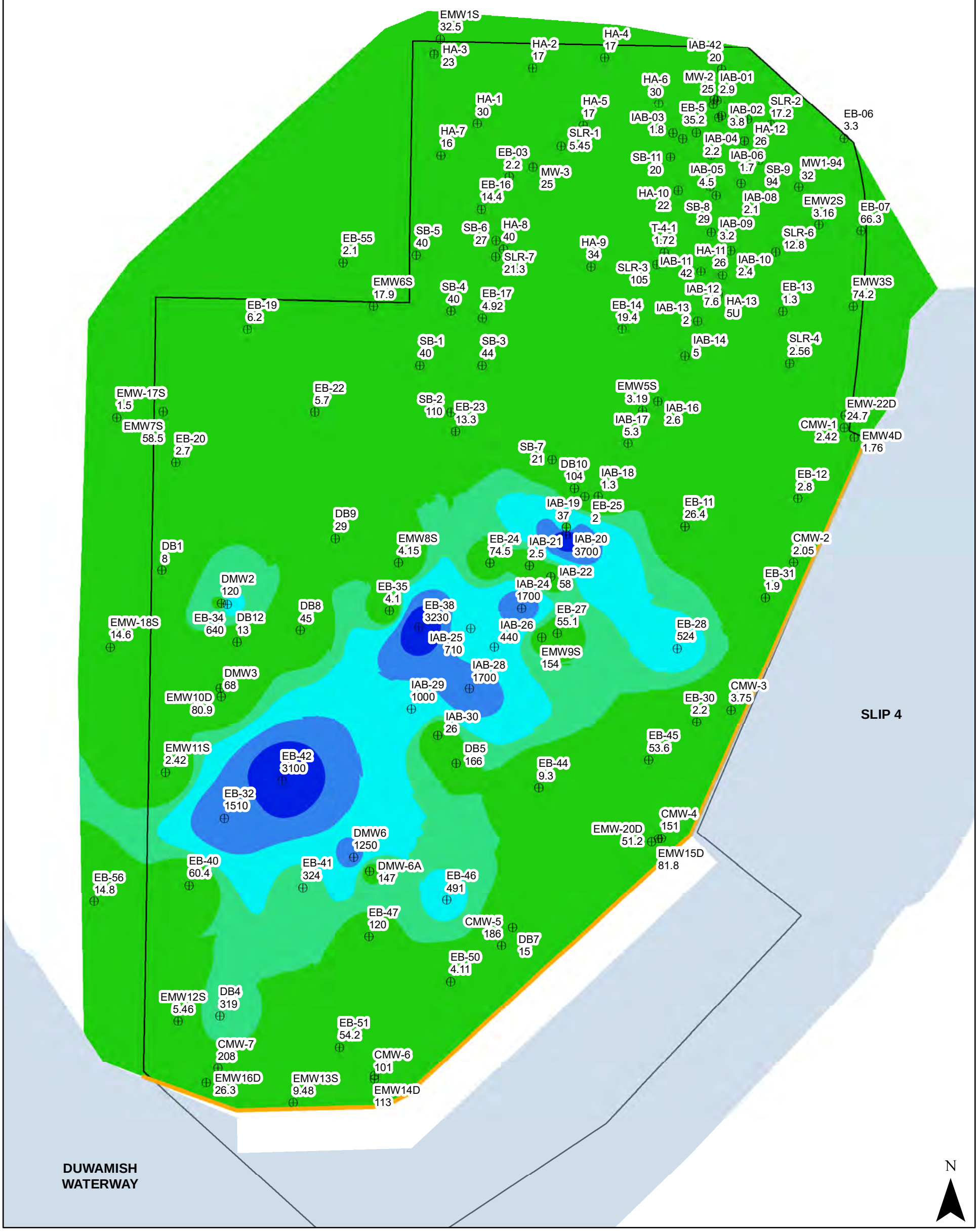

LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Lead (mg/kg)

- < 220 (screening level)
- 220 - 440 (2x)
- 440 - 1,100 (5x)
- 1,100 - 2,200 (10x)
- > 2,200

U = 1/2 of the highest method reporting limit at each location was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

8TH AVENUE TERMINALS, INC. SITE
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Figure
MAXIMUM CONCENTRATIONS OF LEAD IN SOIL SAMPLES COLLECTED BETWEEN 0 AND 6 FEET BGS

Project No. 101.00205.00037

Figure No. 27

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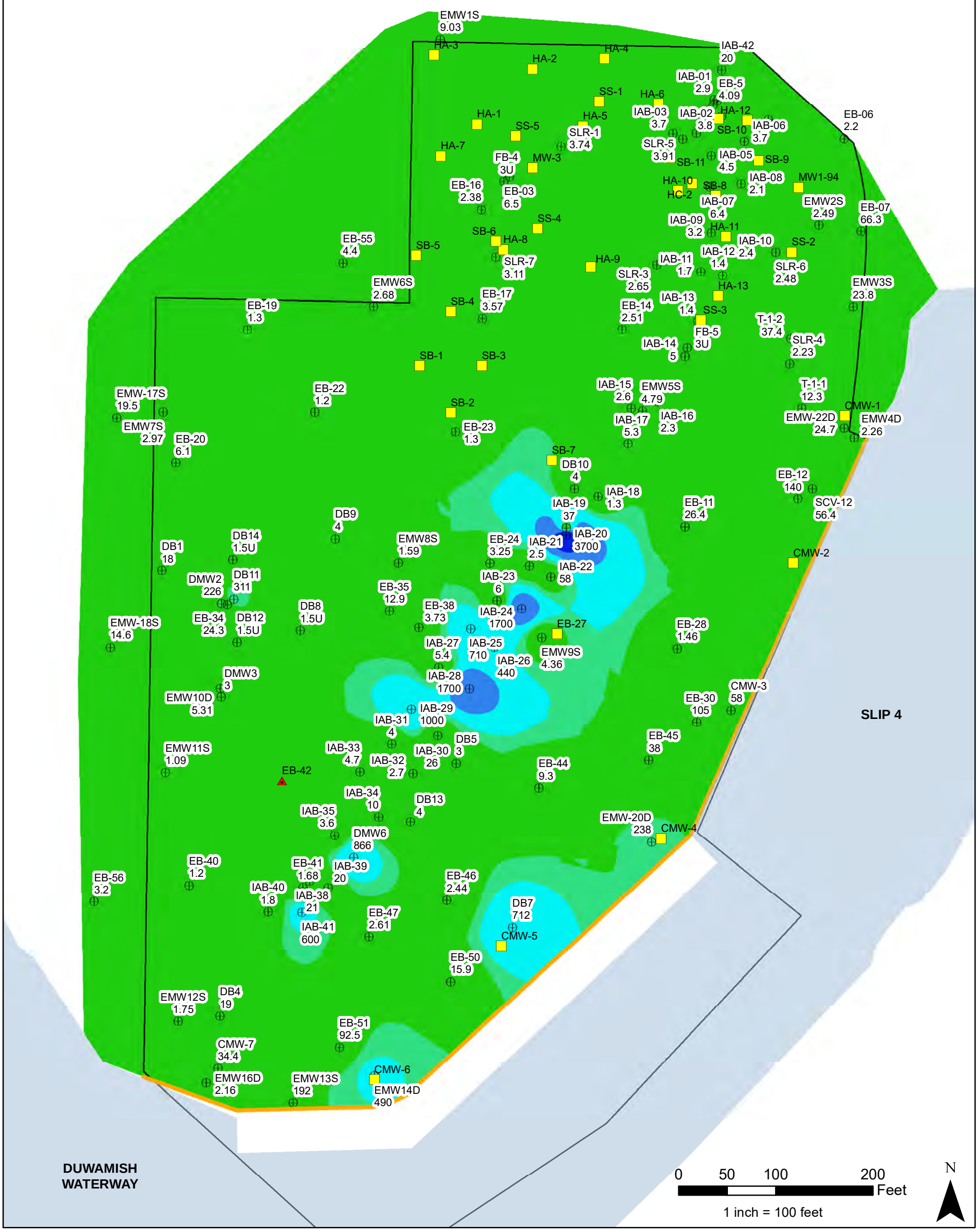

LEGEND

- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration above the screening level
- The deepenst sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Lead (mg/kg)

- < 220 (screening level)
- 220 - 440 (2x)
- 440 - 1,100 (5x)
- 1,100 - 2,200 (10x)
- > 2,200

U = 1/2 of the highest method reporting limit at each location was used for contouring.

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Figure
MAXIMUM CONCENTRATIONS OF LEAD IN SOIL SAMPLES COLLECTED BETWEEN 6 AND 12 FEET BGS

Project No. 101.00205.00037

Figure No. 28

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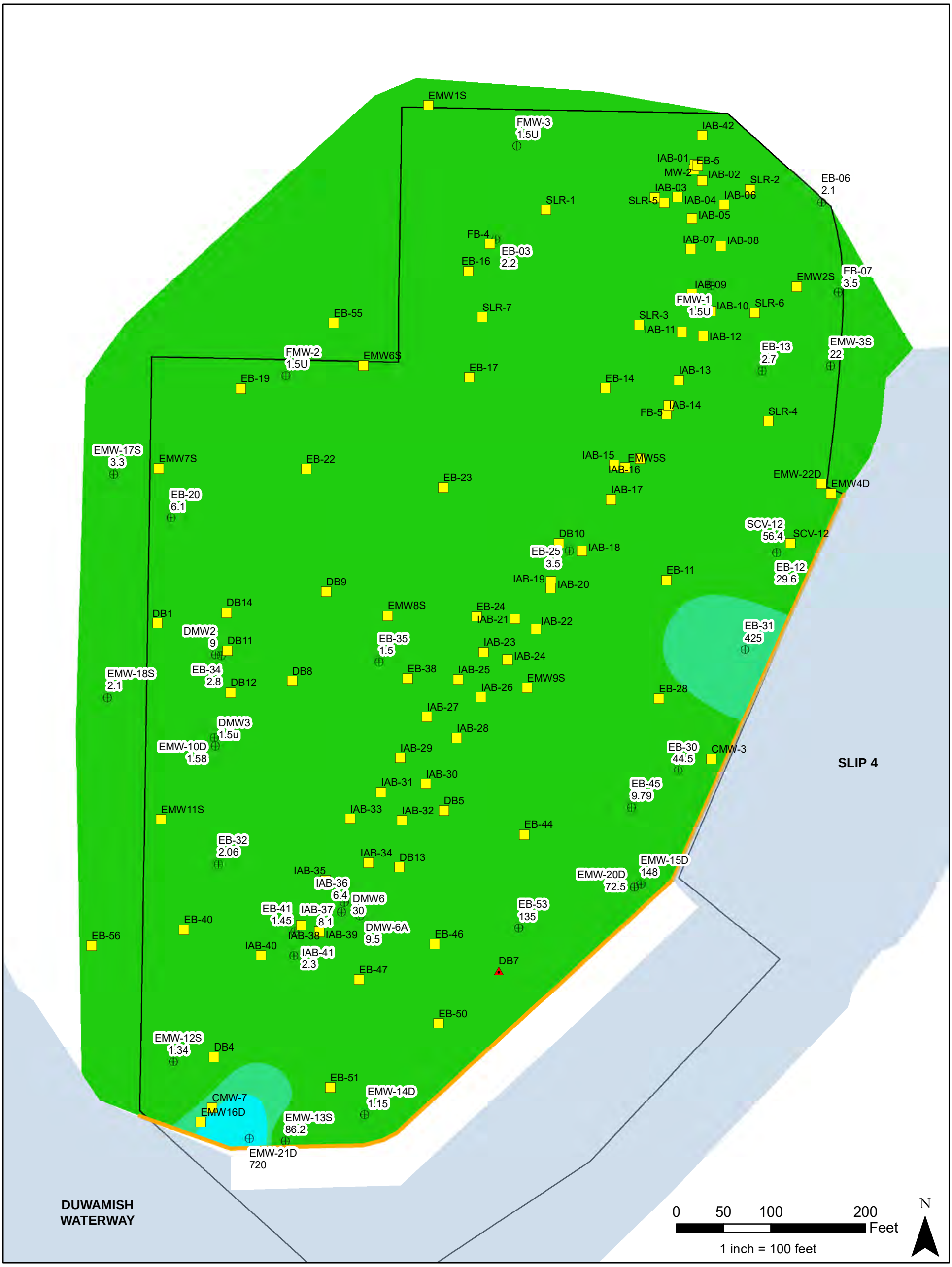

LEGEND

- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Lead (mg/kg)

- <220 (screening level)
- 220 - 440 (2x)
- 440 - 1,100 (5x)
- 1,100 - 2,200 (10x)
- > 2,200

U = 1/2 of the highest method reporting limit at each location was used for contouring.

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SEATTLE, WASHINGTON

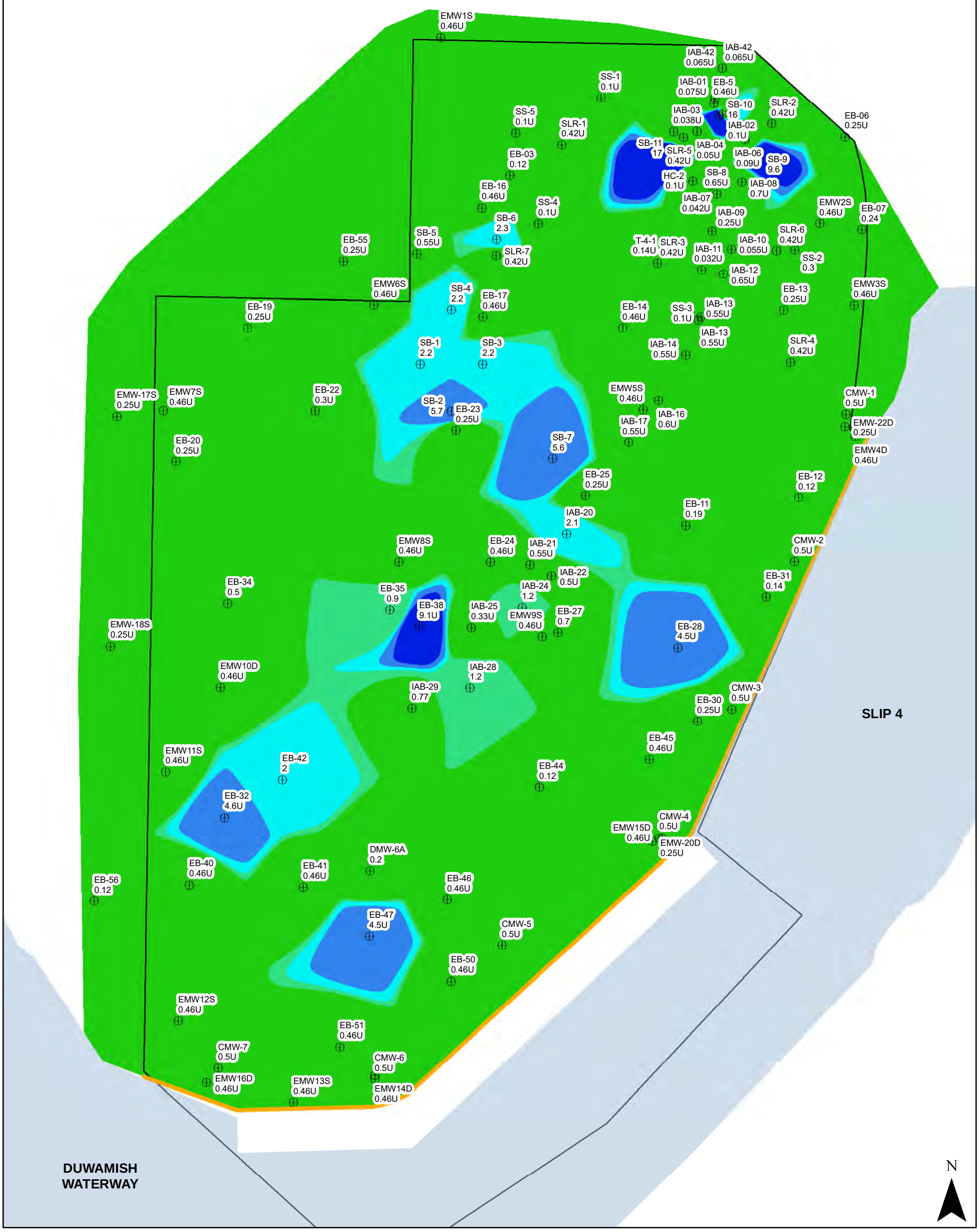
Figure
MAXIMUM CONCENTRATIONS OF LEAD IN SOIL SAMPLES COLLECTED AT DEPTHS GREATER THAN 12 FEET BGS

Project No. 101.00205.00037

Figure No. 29

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F29_S_Ld_D.mxd



LEGEND

- Sheet Pile Seawall
- Property Boundary
- ⊕ Investigation Location

Selenium (mg/kg)

- <0.8 (screening level)
- 0.8 - 1.6 (2x)
- 1.6 - 4.0 (5x)
- 4.0 - 8.0 (10x)
- > 8.0

U = 1/2 of the highest method reporting limit at each location was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

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SEATTLE, WASHINGTON

Figure
MAXIMUM CONCENTRATIONS OF SELENIUM IN SOIL SAMPLES COLLECTED BETWEEN 0 AND 6 FEET BGS

Project No. 101.00205.00037

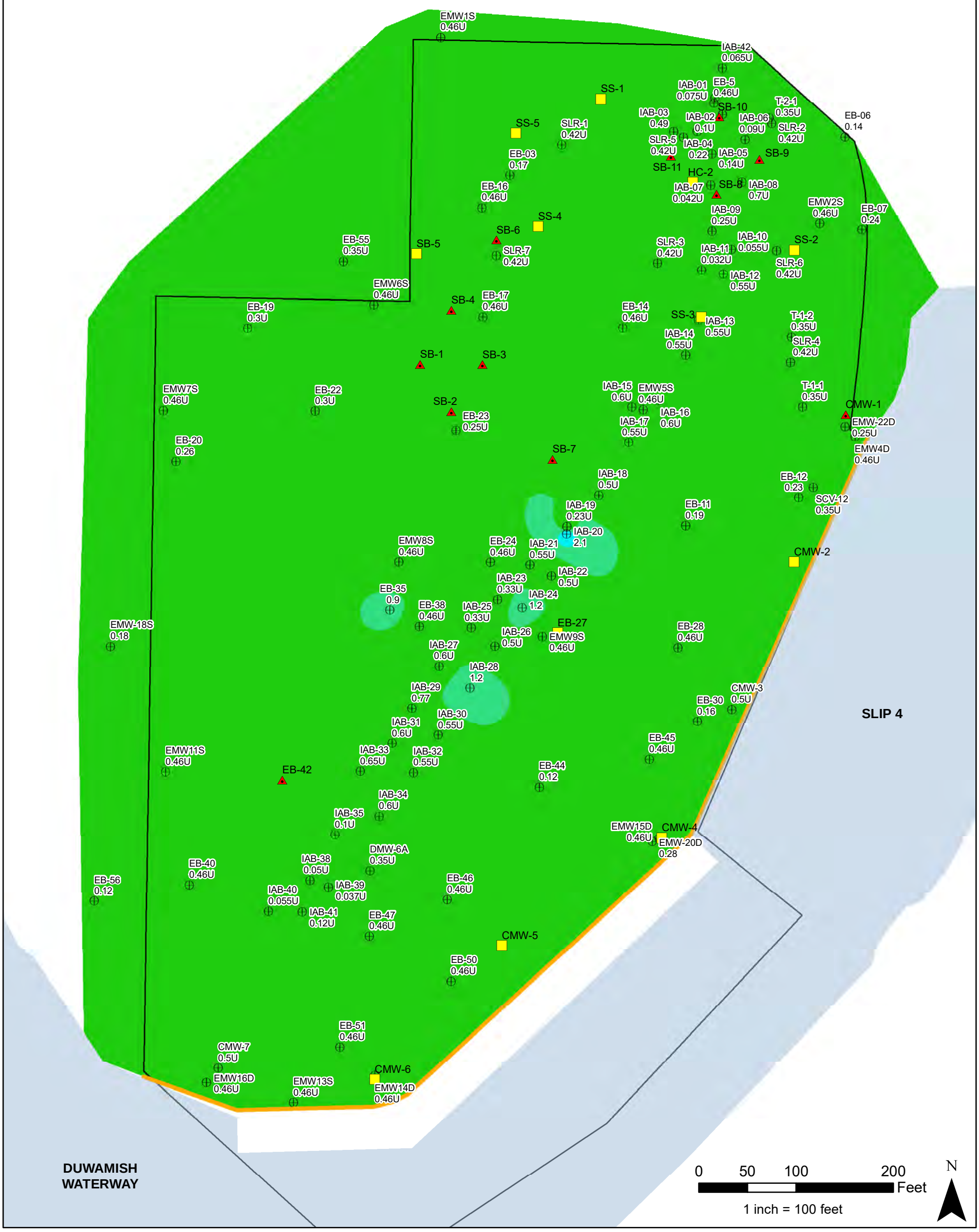
Figure No. 30

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F30_S_Sel_6.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Selenium (mg/kg)

- < 0.8 (screening level)
- 0.8 - 1.6 (2x)
- 1.6 - 4.0 (5x)
- 4.0 - 8.0 (10x)
- > 8.0

U = 1/2 of the highest method reporting limit at each location was used for contouring.

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SEATTLE, WASHINGTON

Figure

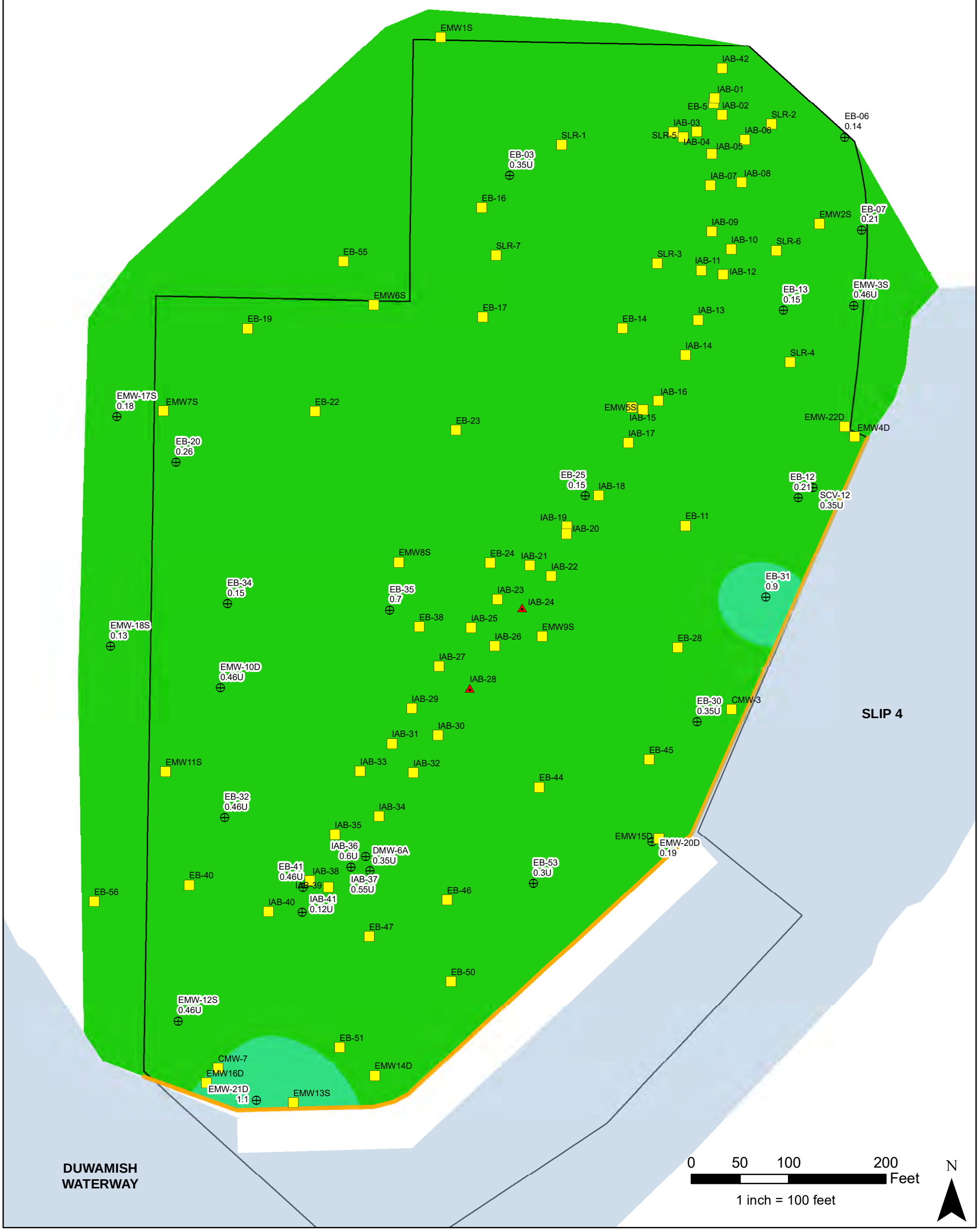
MAXIMUM CONCENTRATIONS OF SELENIUM IN SOIL SAMPLES COLLECTED BETWEEN 6 AND 12 FEET BGS

Project No. 101.00205.00037

Figure No. 31

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F31_S_Sel_12.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration below the screening level
- Investigation Location
- Sheet Pile Seawall
- Property Boundary

Selenium (mg/kg)

- < 0.8 (screening level)
- 0.8 - 1.6 (2x)
- 1.6 - 4.0 (5x)
- 4.0 - 8.0 (10x)
- > 8.0

U = 1/2 of the highest method reporting limit at each location was used for contouring.

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Figure
MAXIMUM CONCENTRATIONS OF SELENIUM IN SOIL SAMPLES COLLECTED AT DEPTHS GREATER THAN 12 FEET BGS

Project No. 101.00205.00037

Figure No. 32

SLR
22118 20TH AVE SE
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BOTHELL, WA 98021
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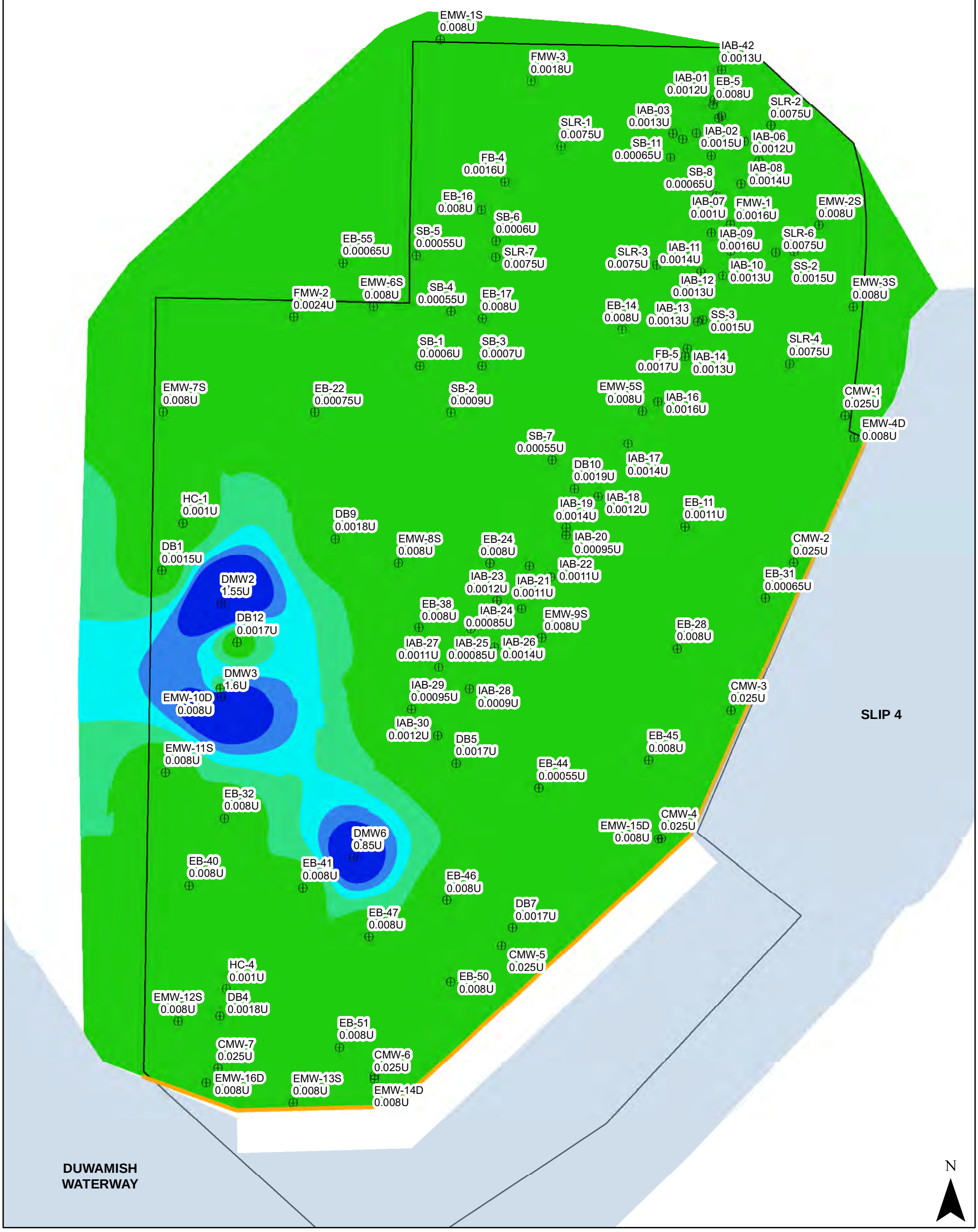
Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F32_S_Sel_D.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Vinyl Chloride (mg/kg)

- < 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 0.67
- > 0.67 (screening level)

U = 1/2 of the highest method reporting limit at each location was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

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Figure
MAXIMUM CONCENTRATIONS OF VINYL CHLORIDE IN SOIL SAMPLES COLLECTED BETWEEN 0 AND 6 FEET BGS

Project No. 101.00205.00037

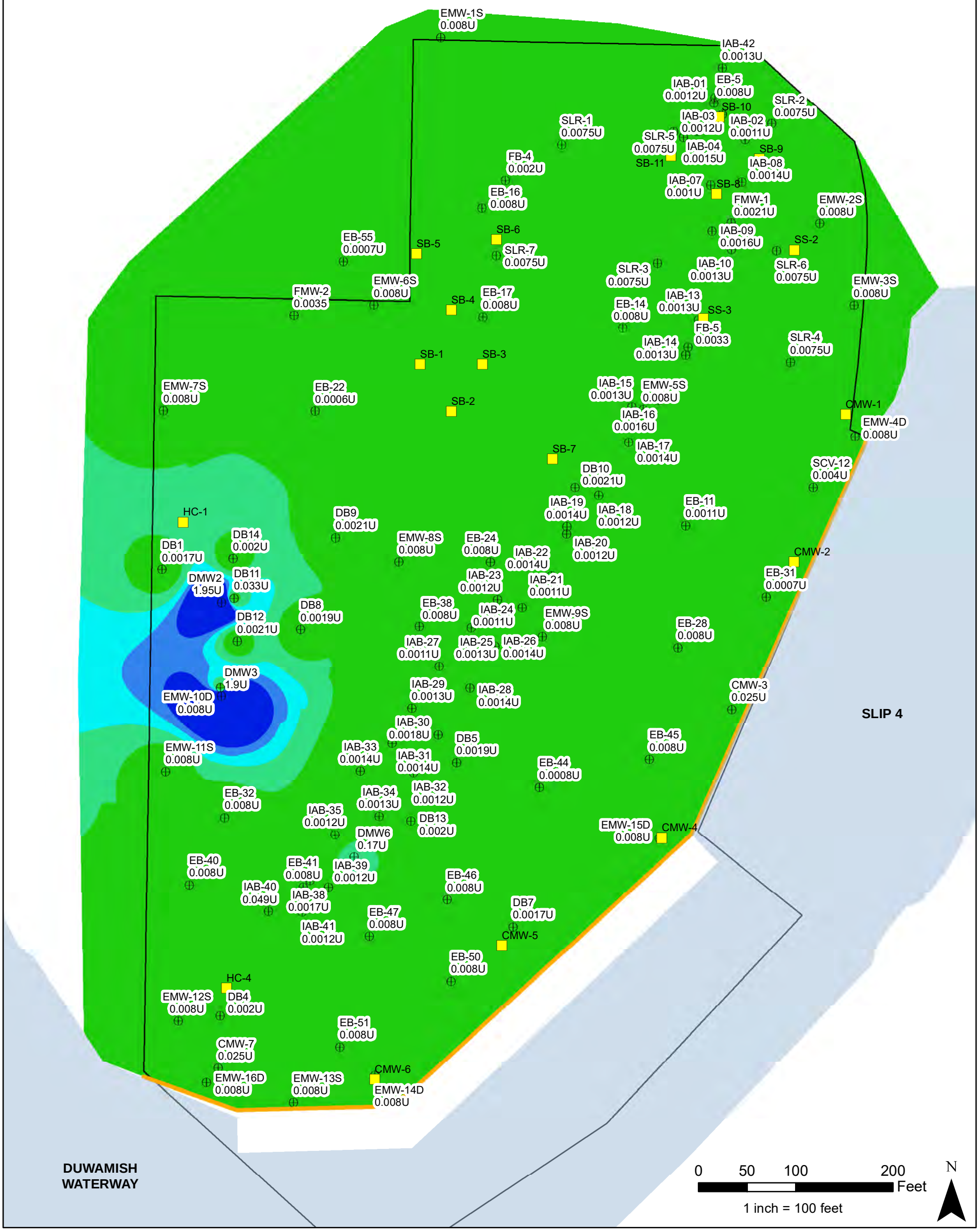
Figure No. 33

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F33_S_VC_6.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Vinyl Chloride (mg/kg)

- <0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 0.67
- > 0.67 (screening level)

U = 1/2 of the highest method reporting limit at each location was used for contouring.

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SEATTLE, WASHINGTON

Figure
MAXIMUM CONCENTRATIONS OF VINYL CHLORIDE IN SOIL SAMPLES COLLECTED BETWEEN 6 AND 12 FEET BGS

Project No. 101.00205.00037

Figure No. 34

SLR
22118 20TH AVE SE
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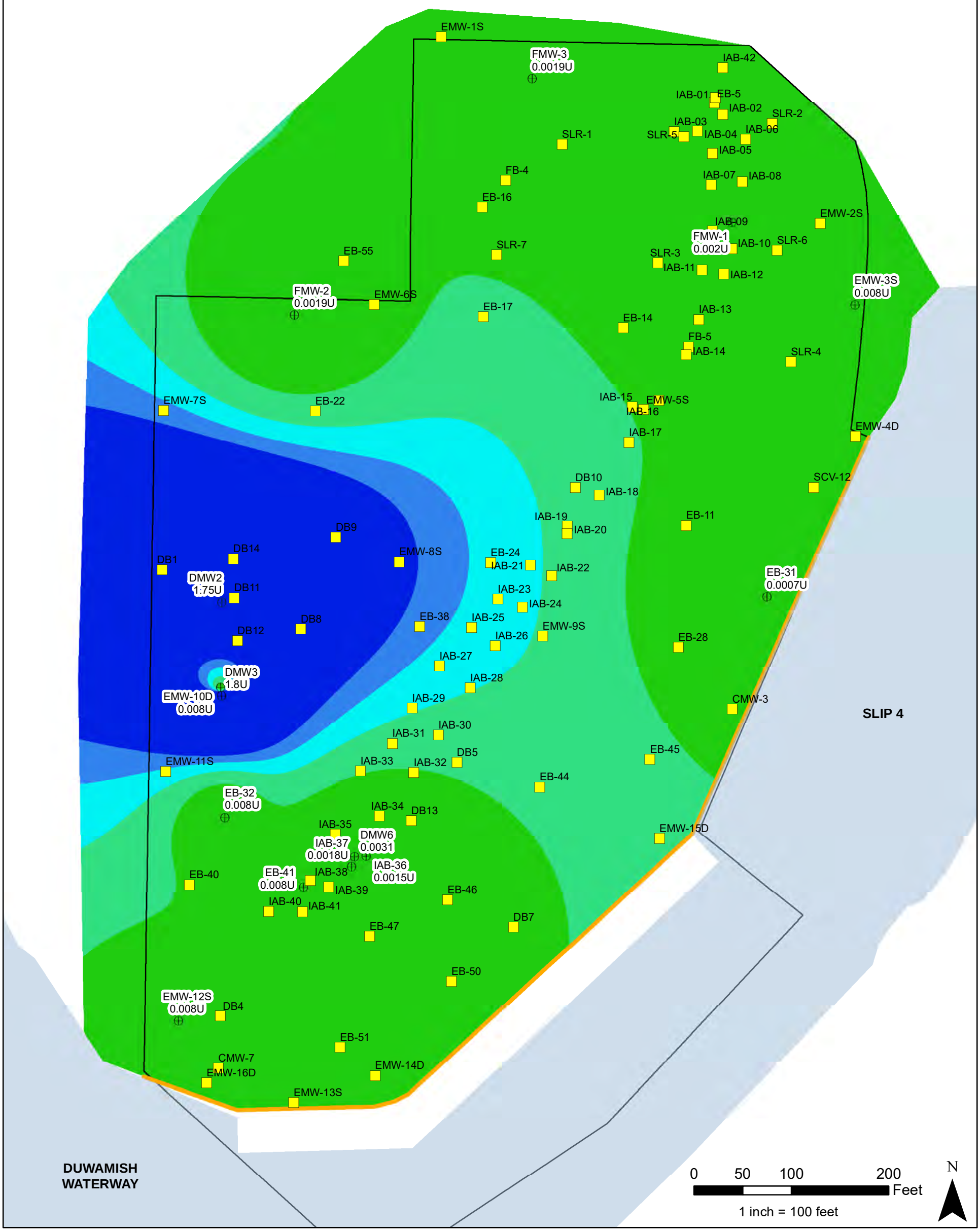
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F34_S_VC_12.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Vinyl Chloride (mg/kg)

- < 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 0.67
- > 0.67 (screening level)

U = 1/2 of the highest method reporting limit at each location was used for contouring.

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SEATTLE, WASHINGTON

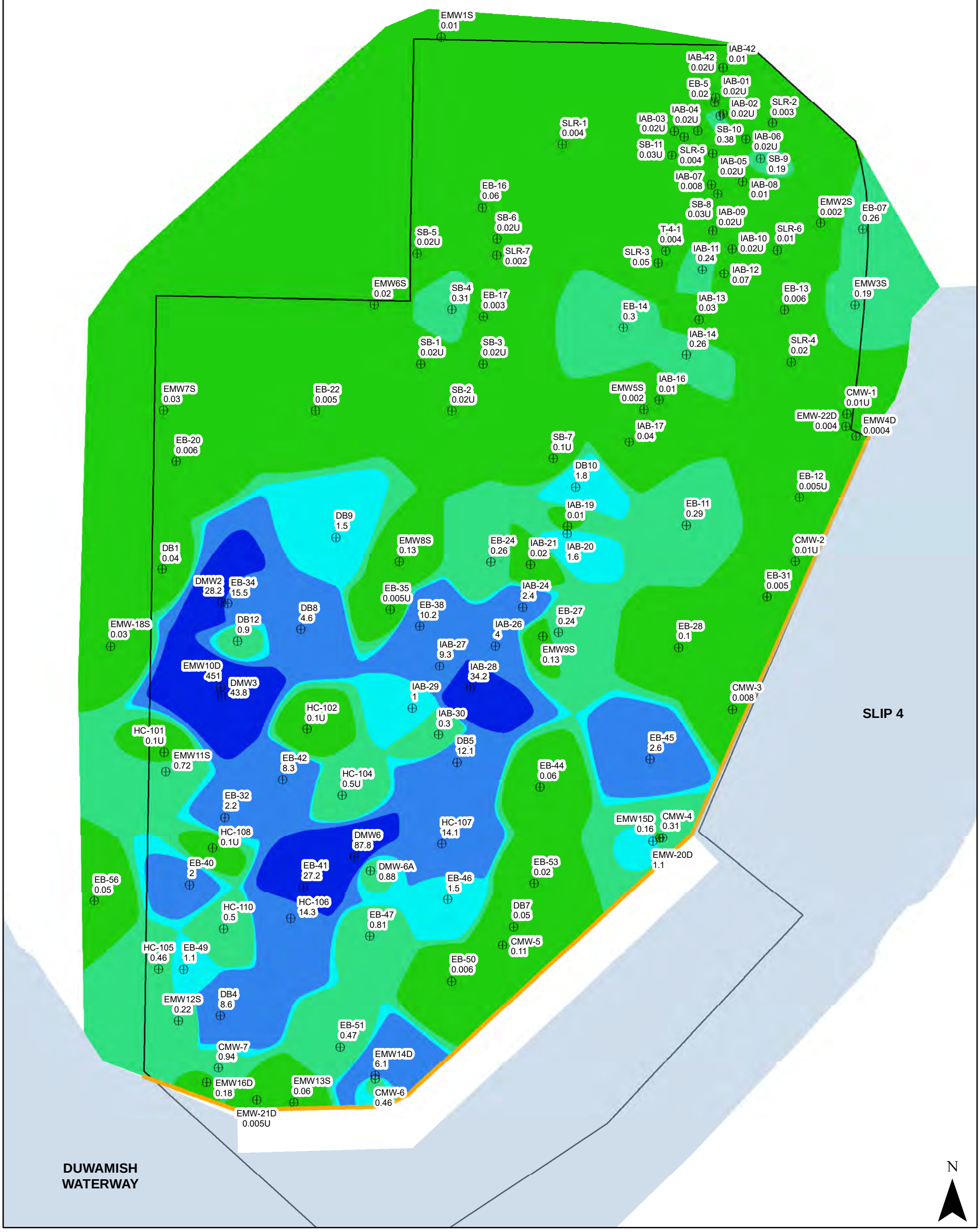
Figure
MAXIMUM CONCENTRATIONS OF VINYL CHLORIDE IN SOIL SAMPLES COLLECTED AT DEPTHS GREATER THAN 12 FEET BGS

Project No. 101.00205.00037

Figure No. 35

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F35_S_VC_D.mxd



LEGEND

- Sheet Pile Seawall
- Property Boundary
- ⊕ Investigation Location

Total cPAH TEQ (mg/kg)

- < 0.19 (screening level)
- 0.19 - 0.95 (5x)
- 0.95 - 1.9 (10x)
- 1.9 - 19 (100x)
- > 19

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

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SEATTLE, WASHINGTON

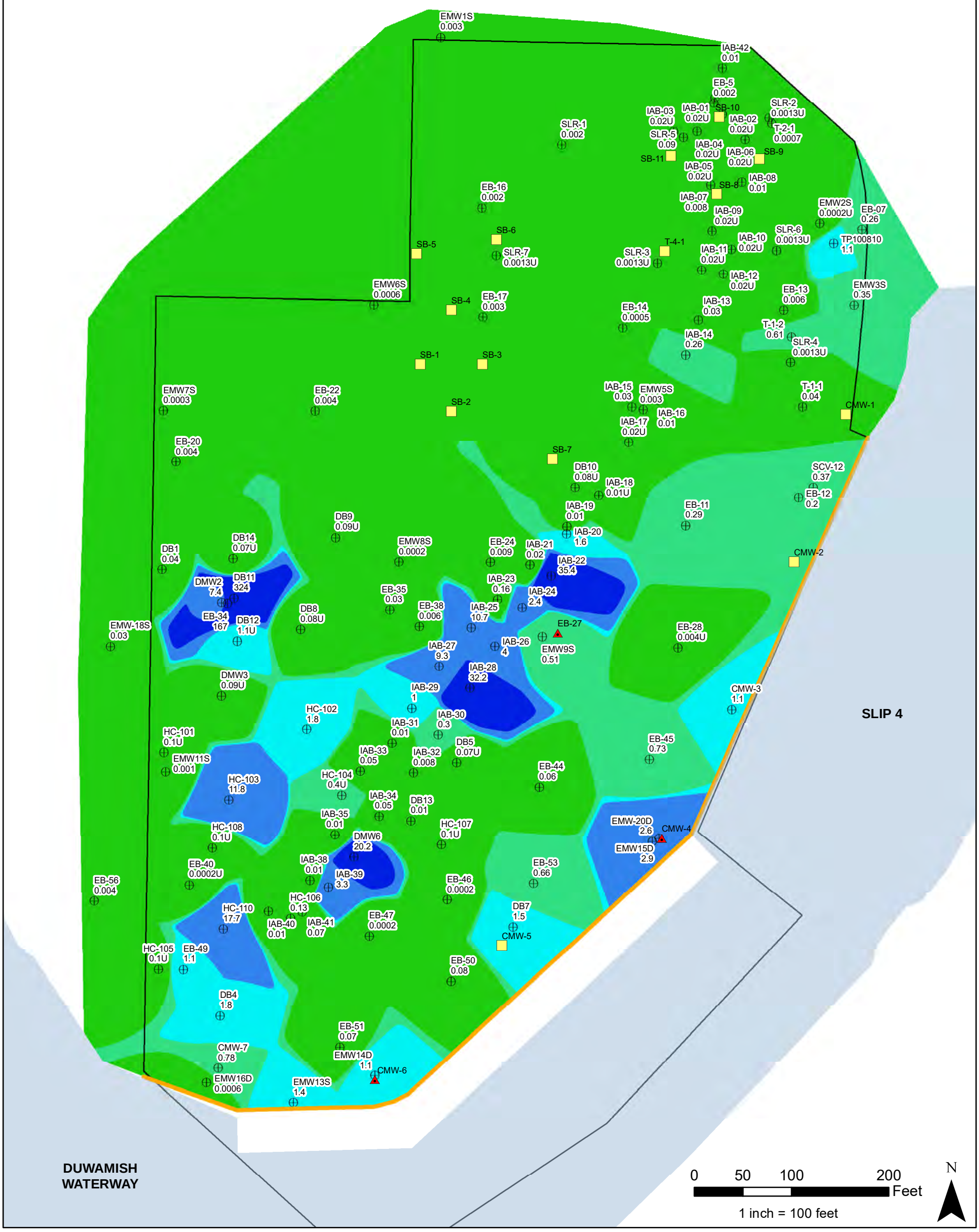
Figure
MAXIMUM CONCENTRATIONS OF TOTAL cPAHs TEQ IN SOIL SAMPLES COLLECTED BETWEEN 0 AND 6 FEET BGS

Project No. 101.00205.00037

Figure No. 36

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F36_S_cPAH_6.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Total cPAH TEQ (mg/kg)

- < 0.19 (SL)
- 0.19 - 0.95 (5x)
- 0.95 - 1.9 (10x)
- 1.9 - 19 (100x)
- > 19

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.

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SEATTLE, WASHINGTON

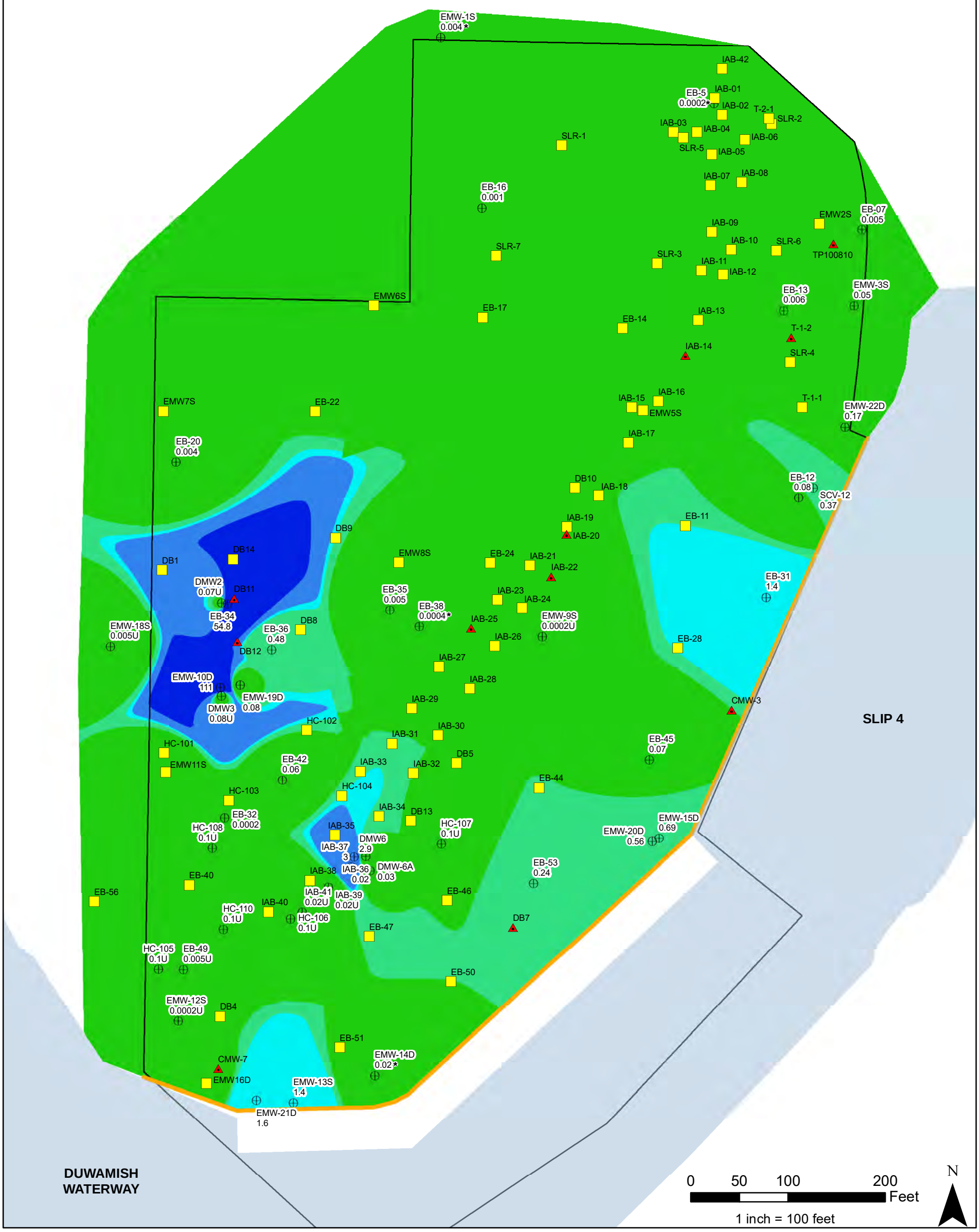
Figure
MAXIMUM CONCENTRATIONS OF TOTAL cPAHs TEQ IN SOIL SAMPLES COLLECTED BETWEEN 6 AND 12 FEET BGS

Project No. 101.00205.00037

Figure No. 37

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F37_S_cPAH_12.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Total cPAHs TEQ (mg/kg)

- < 0.19 (screening level)
- 0.19 - 0.95 (2x)
- 0.95 - 1.9 (5x)
- 1.9 - 19 (10x)
- > 19

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.
* = Estimated value. Five or six of the seven individual cPAHs, including benzo(a)pyrene, were analyzed in this sample. To calculate the total cPAH TEQ concentration, the maximum detected cPAH concentration in the sample was used as the concentration of each non-analyzed compound.

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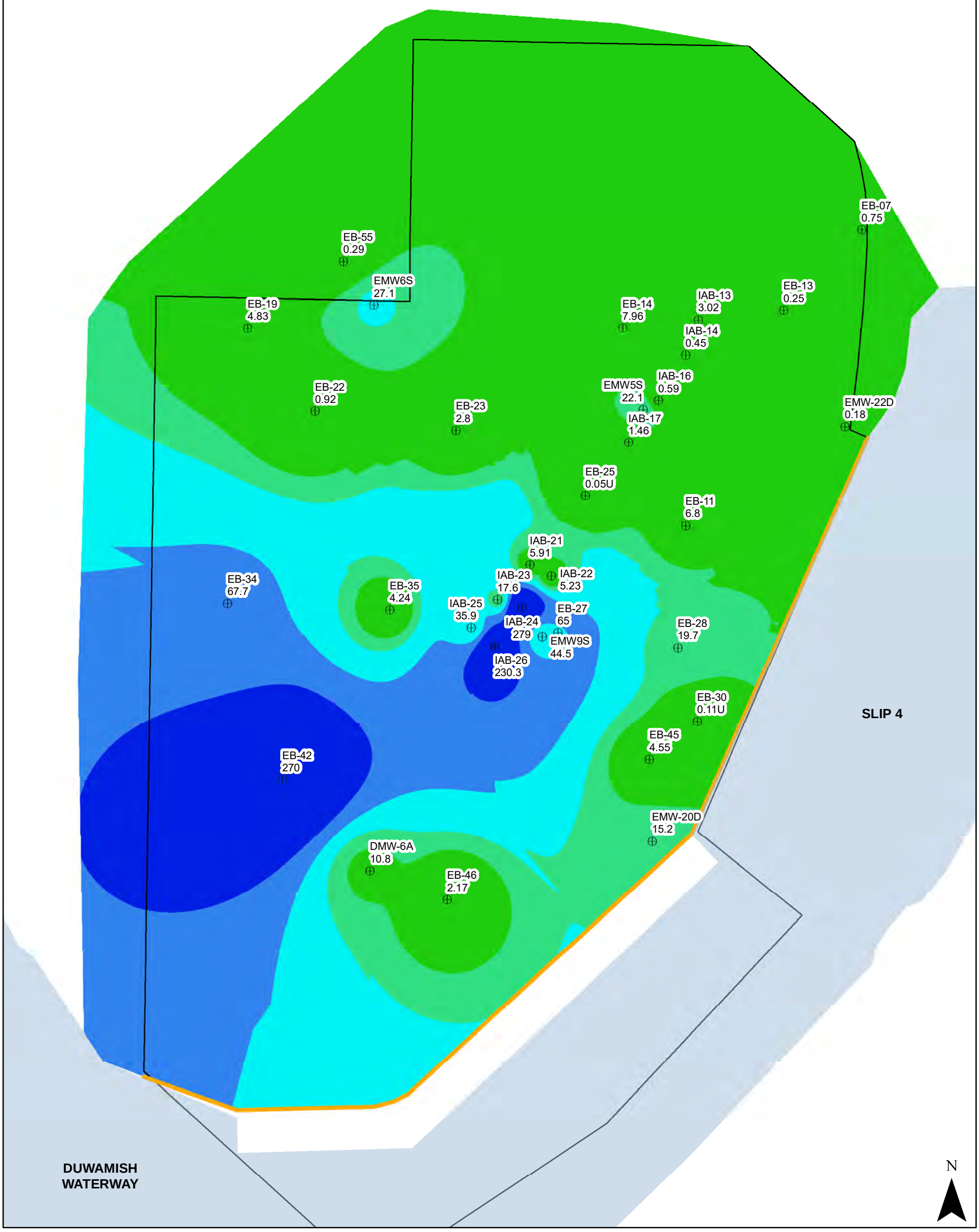
Figure
MAXIMUM CONCENTRATIONS OF TOTAL cPAHs TEQ IN SOIL SAMPLES COLLECTED AT DEPTHS GREATER THAN 12 FEET BGS

Project No. 101.00205.00037

Figure No. 38

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F38_S_cPAH_D.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Total Dioxins/Furans TEQ (ng/kg)

- < 13 (screening level)
- 13 - 26 (2x)
- 26 - 65 (5x)
- 65 - 130 (10x)
- > 130

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

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SEATTLE, WASHINGTON

Figure MAXIMUM CONCENTRATIONS OF TOTAL DIOXINS/FURANS TEQ IN SOIL SAMPLES COLLECTED BETWEEN 0 AND 6 FEET BGS

Project No. 101.00205.00037

Figure No. 39

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

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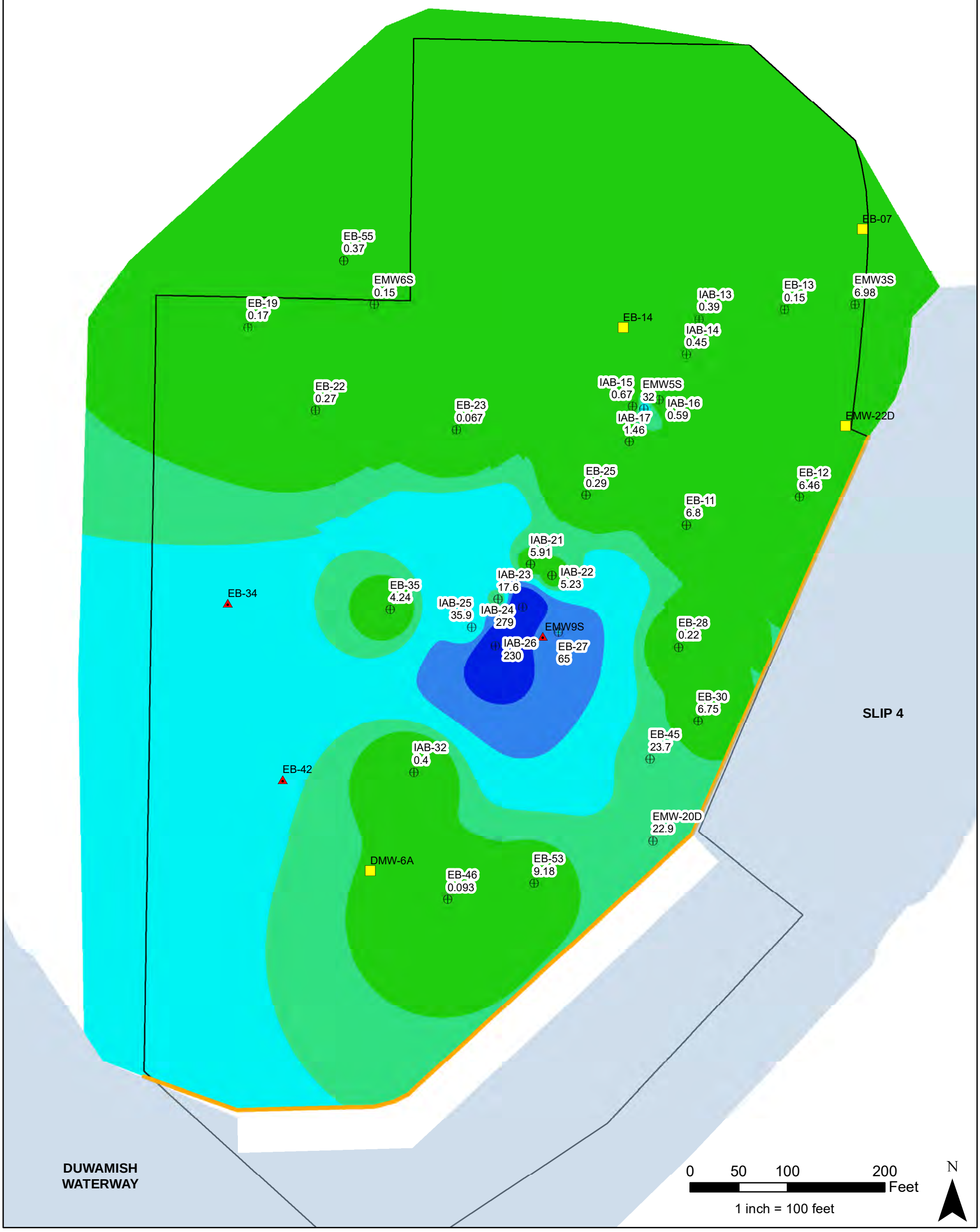
Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F39_S_DF_6.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Total Dioxins/Furans TEQ (ng/kg)

- < 13 (screening level)
- 13 - 26 (2x)
- 26 - 65 (5x)
- 65 - 130 (10x)
- > 130

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7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Figure MAXIMUM CONCENTRATIONS OF TOTAL DIOXINS/FURANS TEQ IN SOIL SAMPLES COLLECTED BETWEEN 6 AND 12 FEET BGS

Project No. 101.00205.00037

Figure No. 40

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
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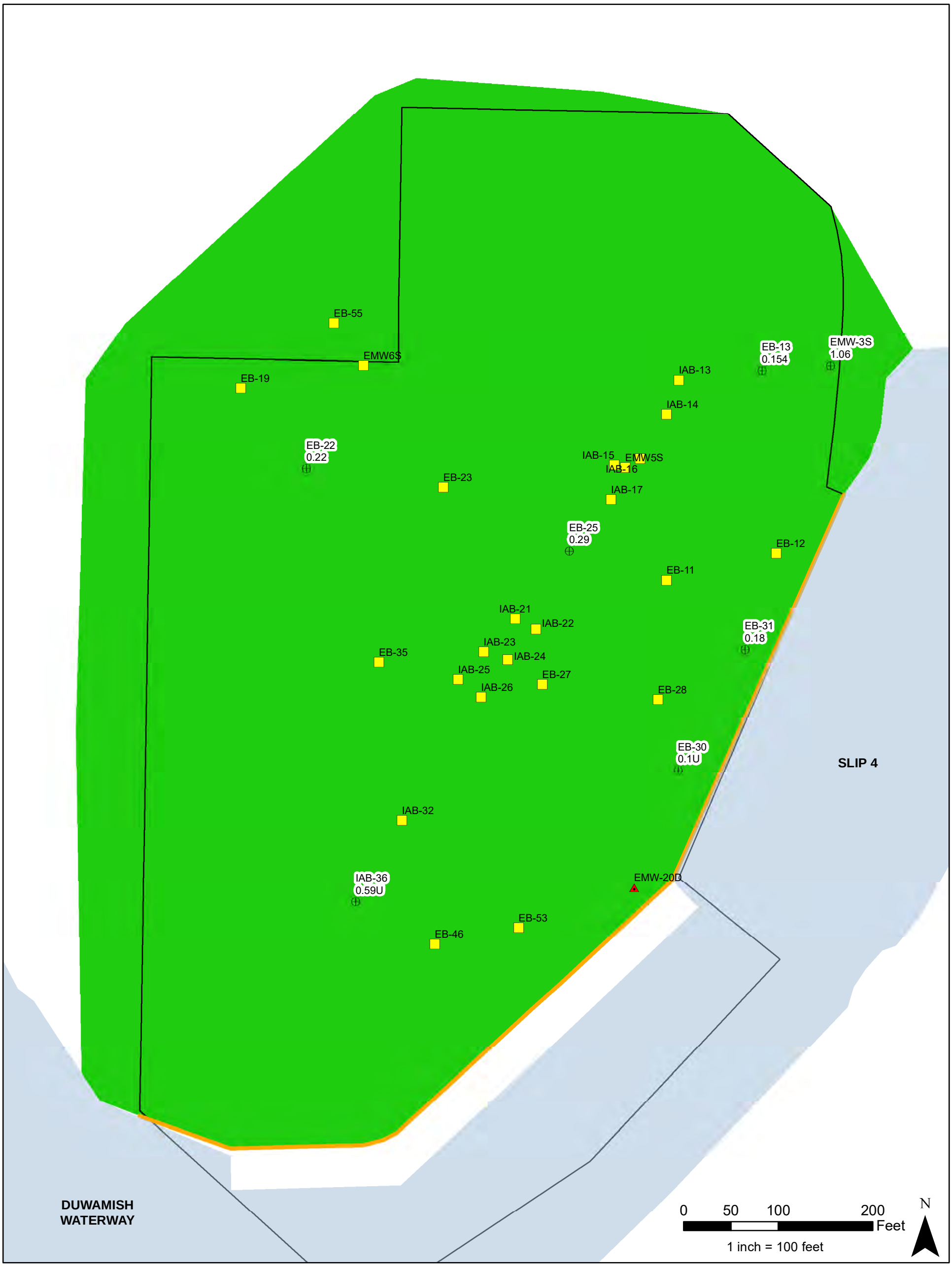
Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F40_S_DF_12.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Total Dioxins/Furans TEQ (ng/kg)

- < 13 (screening level)
- 13 - 26 (2x)
- 26 - 65 (5x)
- 62 - 130 (10x)
- > 130

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.

8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

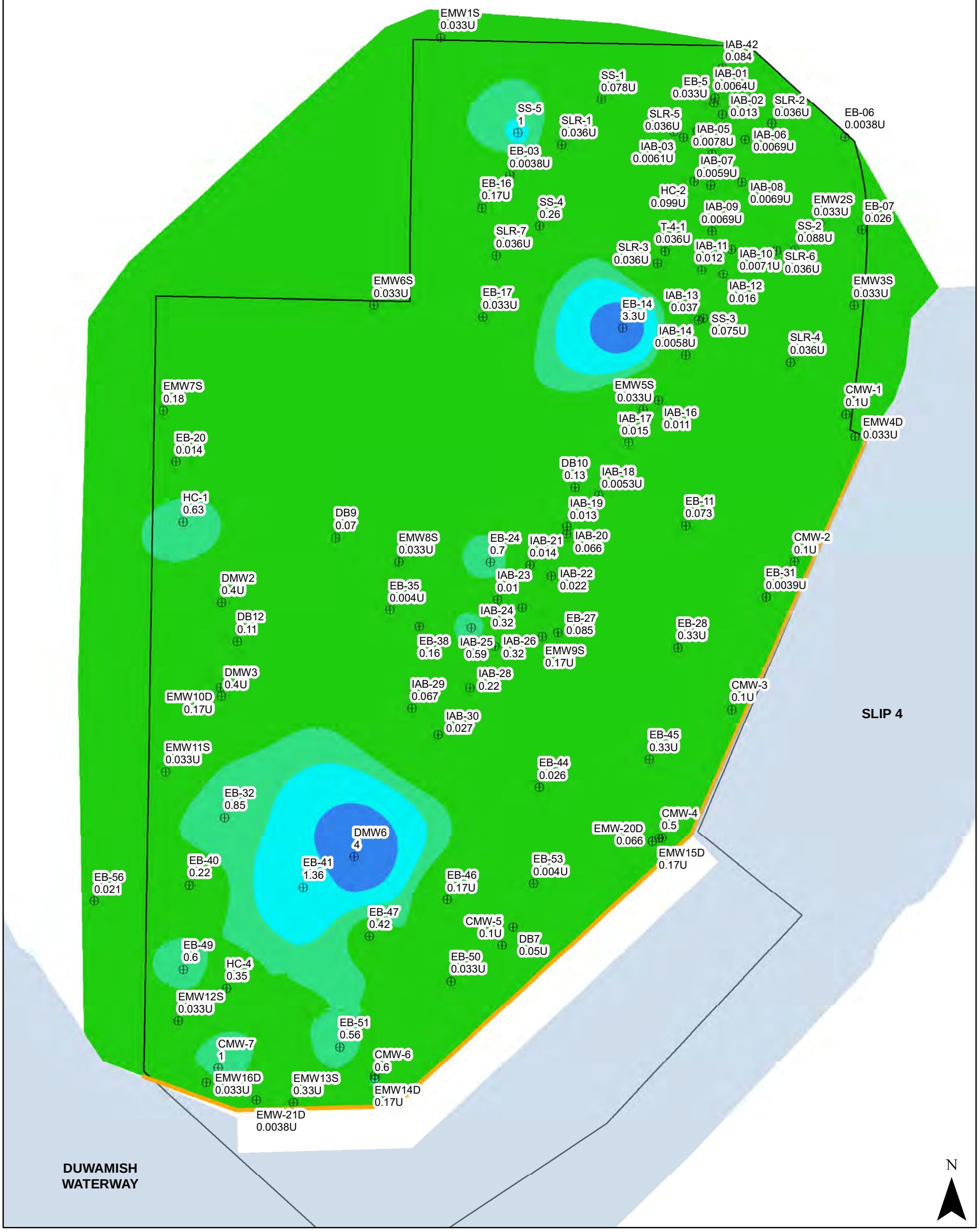
Figure
MAXIMUM CONCENTRATIONS OF TOTAL DIOXINS/FURANS TEQ IN SOIL SAMPLES COLLECTED AT DEPTHS GREATER THAN 12 FEET BGS

Project No. 101.00205.00037

Figure No. 41

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F41_S_DF_D.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Total PCBs (mg/kg)

- <0.5 (screening level)
- 0.5 - 1.0 (2x)
- 1.0 - 2.5 (5x)
- 2.5 - 5.0 (10x)
- > 5.0

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Figure MAXIMUM CONCENTRATIONS OF TOTAL PCBs IN SOIL SAMPLES COLLECTED BETWEEN 0 AND 6 FEET BGS

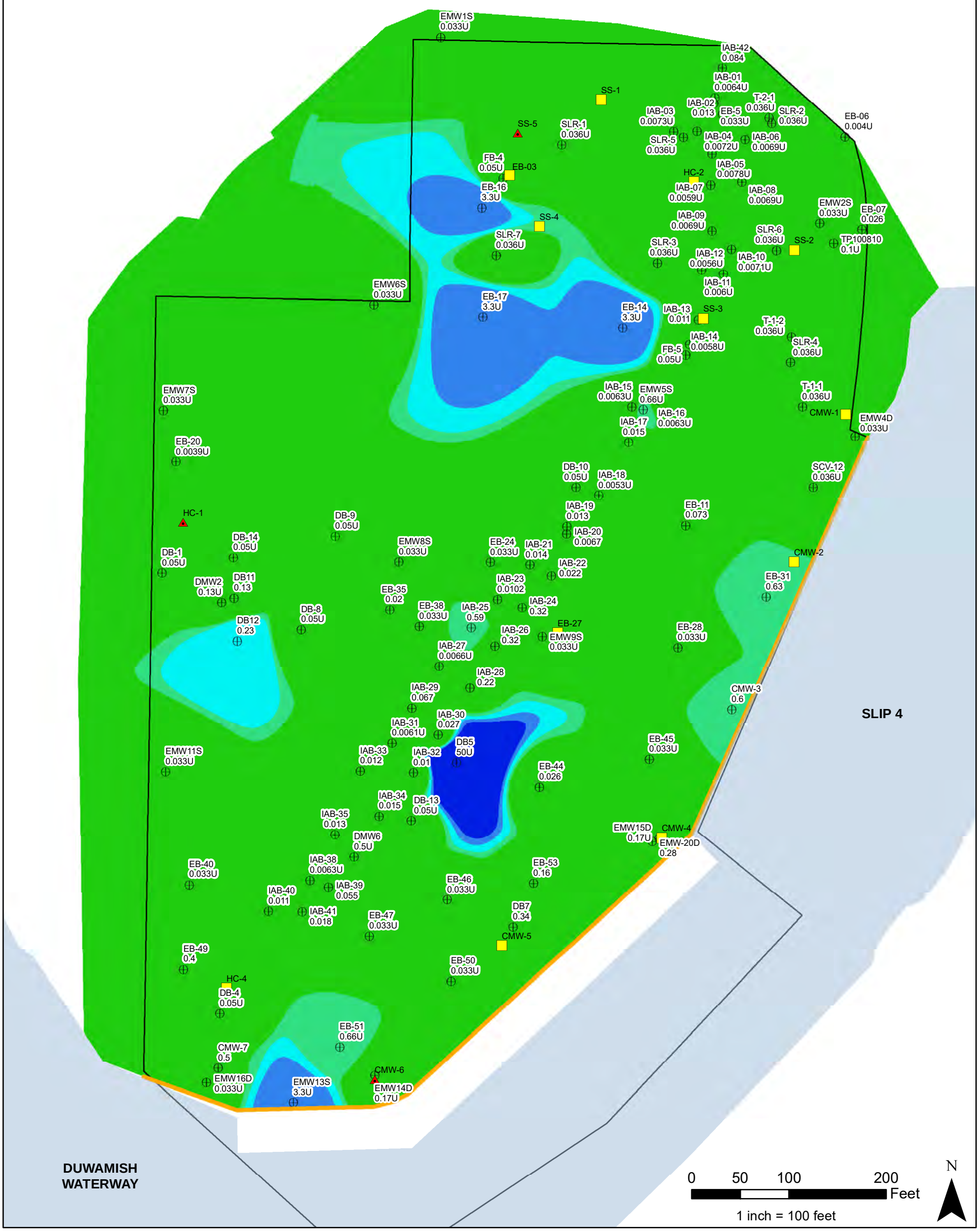
Project No. 101.00205.00037

Figure No. 42

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F42_S_PCB_6.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration below the screening level
- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- INVESTIGATION LOCATION

Total PCBs (mg/kg)

- <0.5 (screening level)
- 0.5 - 1.0 (2x)
- 1.0 - 2.5 (5x)
- 2.5 - 5.0 (10x)
- > 5.0

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.

8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

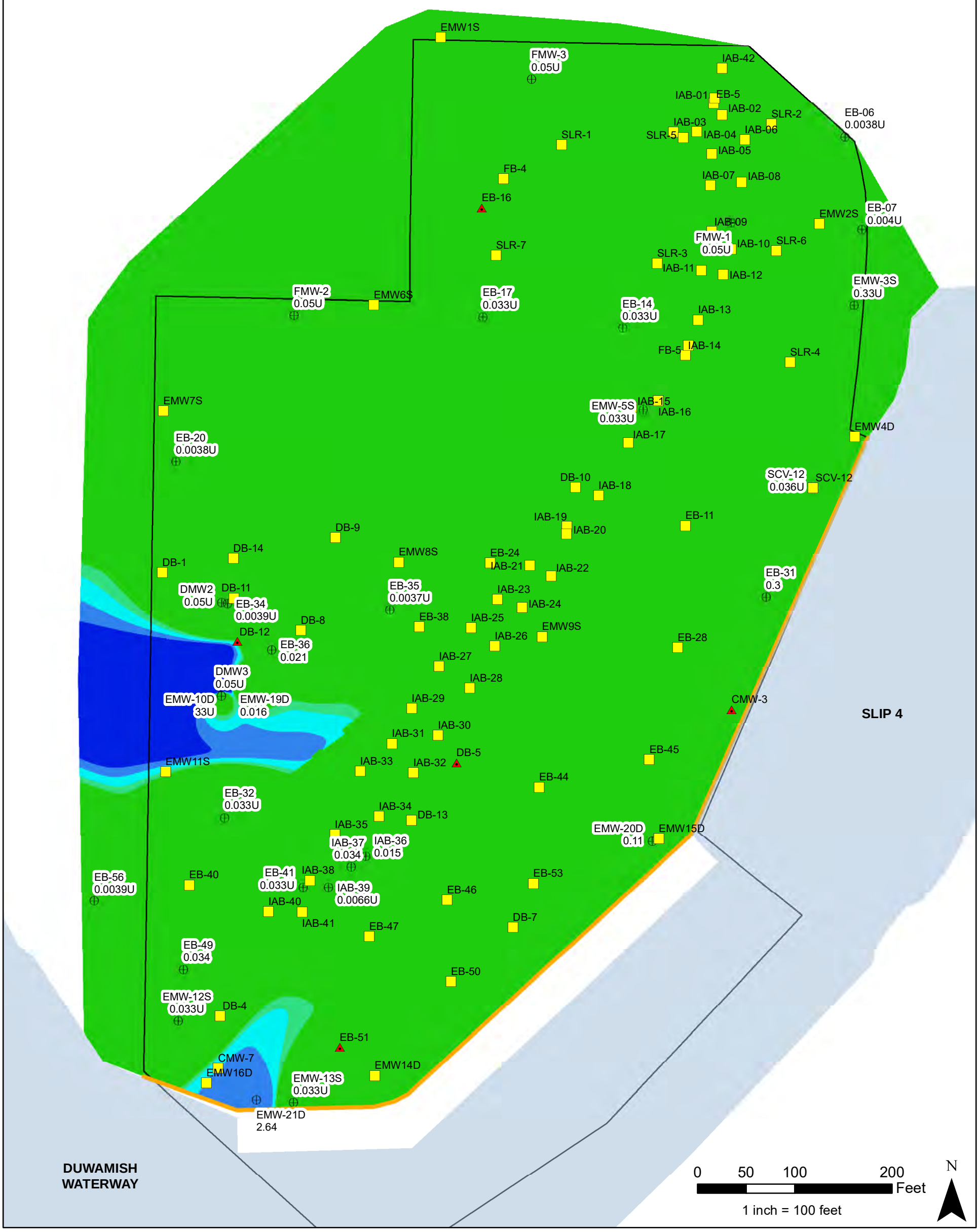
Figure MAXIMUM CONCENTRATIONS OF TOTAL PCBs IN SOIL SAMPLES COLLECTED BETWEEN 6 AND 12 FEET BGS

Project No. 101.00205.00037

Figure No. 43

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F43_S_PCB_12.mxd



LEGEND

- The deepest sample from this location was collected at adepth less than 12 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at adepth less than 12 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Total PCBs (mg/kg)

- < 0.5 (screening level)
- 0.5 - 1.0 (2x)
- 1.0 - 2.5 (5x)
- 2.5 - 5.0 (10x)
- > 5.0

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.

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SEATTLE, WASHINGTON

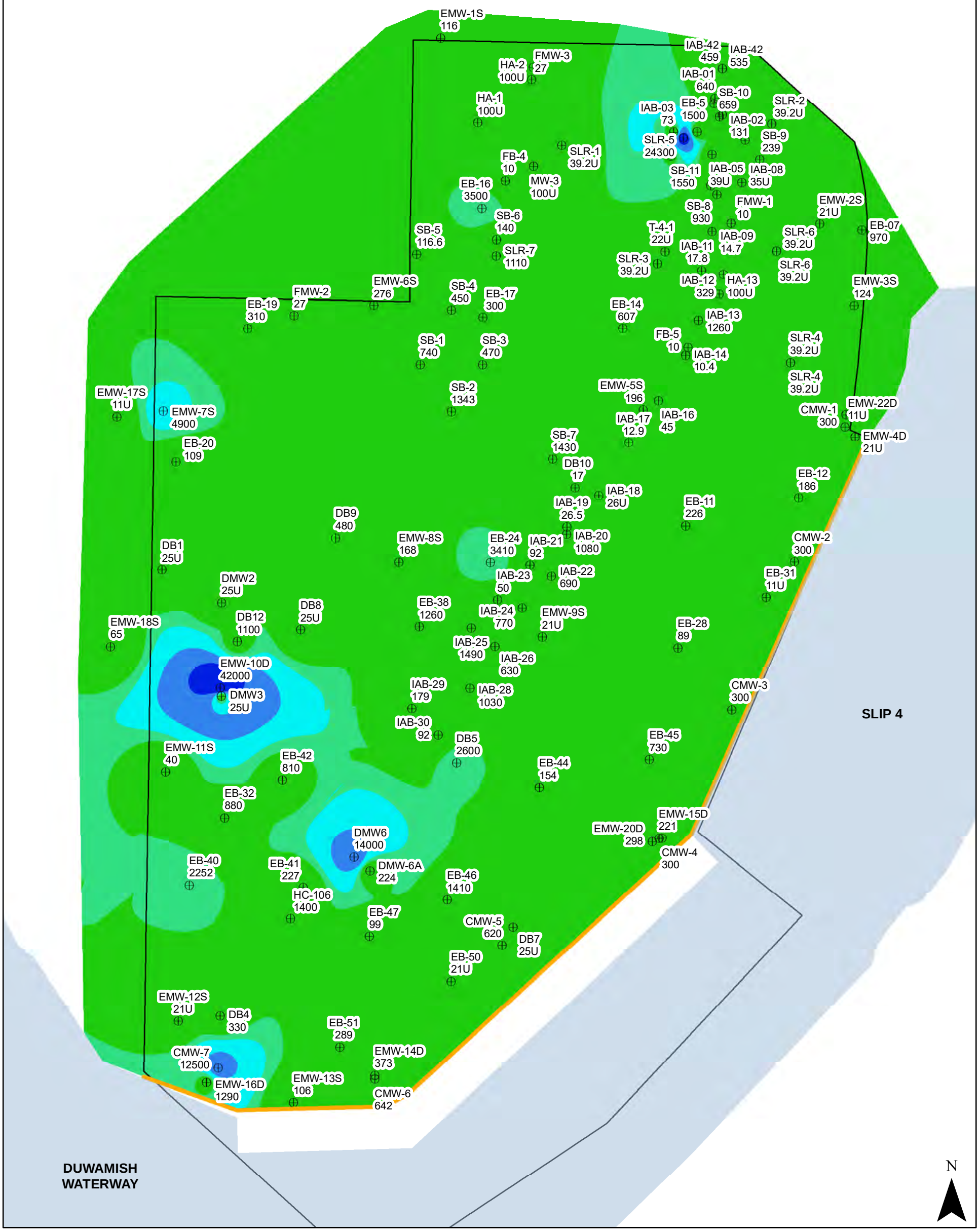
Figure MAXIMUM CONCENTRATIONS OF TOTAL PCBs IN SOIL SAMPLES COLLECTED AT DEPTHS GREATER THAN 12 FEET BGS

Project No. 101.00205.00037

Figure No. 44

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F44_S_PCB_D.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Total Semi-volatile Petroleum Hydrocarbons (DRO + ORO) (mg/kg)

- < 2,000 (screening level)
- 2,000 - 4,000 (2x)
- 4,000 - 10,000 (5x)
- 10,000 - 20,000 (10x)
- > 20,000

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

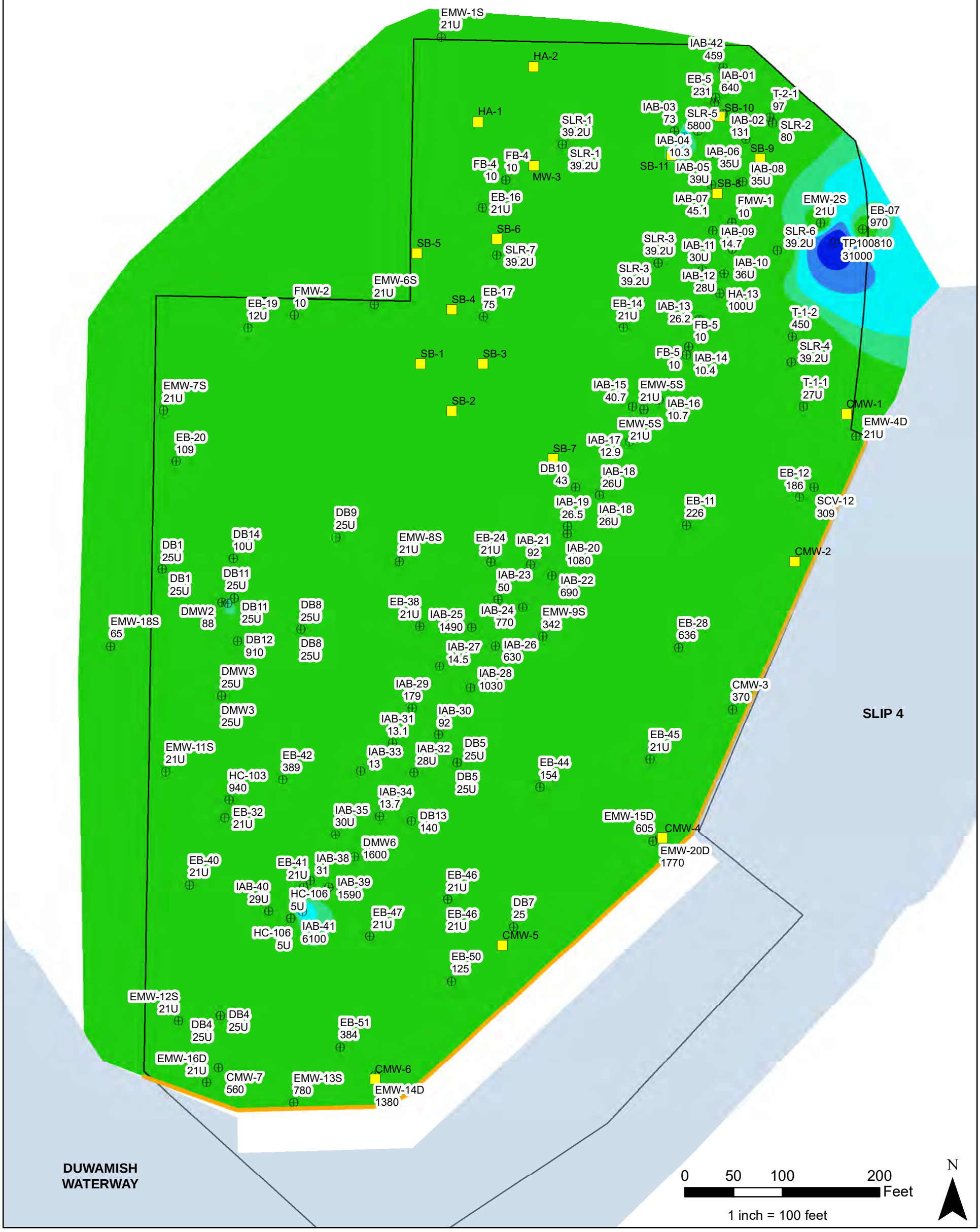
Figure MAXIMUM CONCENTRATIONS OF TOTAL SEMI-VOLATILE PETROLEUM HYDROCARBONS (DRO + ORO) IN SOIL SAMPLES COLLECTED BETWEEN 0 AND 6 FEET BGS

Project No. 101.00205.00037

Figure No. 45

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F45_S_DRO_6.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Total Semi-volatile Petroleum Hydrocarbons (DRO + ORO) (mg/kg)

- < 2,000 (screening level)
- 2,000 - 4,000 (2x)
- 4,000 - 10,000 (5x)
- 10,000 - 20,000 (10x)
- > 20,000

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.

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SEATTLE, WASHINGTON

Figure MAXIMUM CONCENTRATIONS OF TOTAL SEMI-VOLATILE PETROLEUM HYDROCARBONS (DRO + ORO) IN SOIL SAMPLES COLLECTED BETWEEN 6 AND 12 FEET BGS

Project No. 101.00205.00037

Figure No. 46

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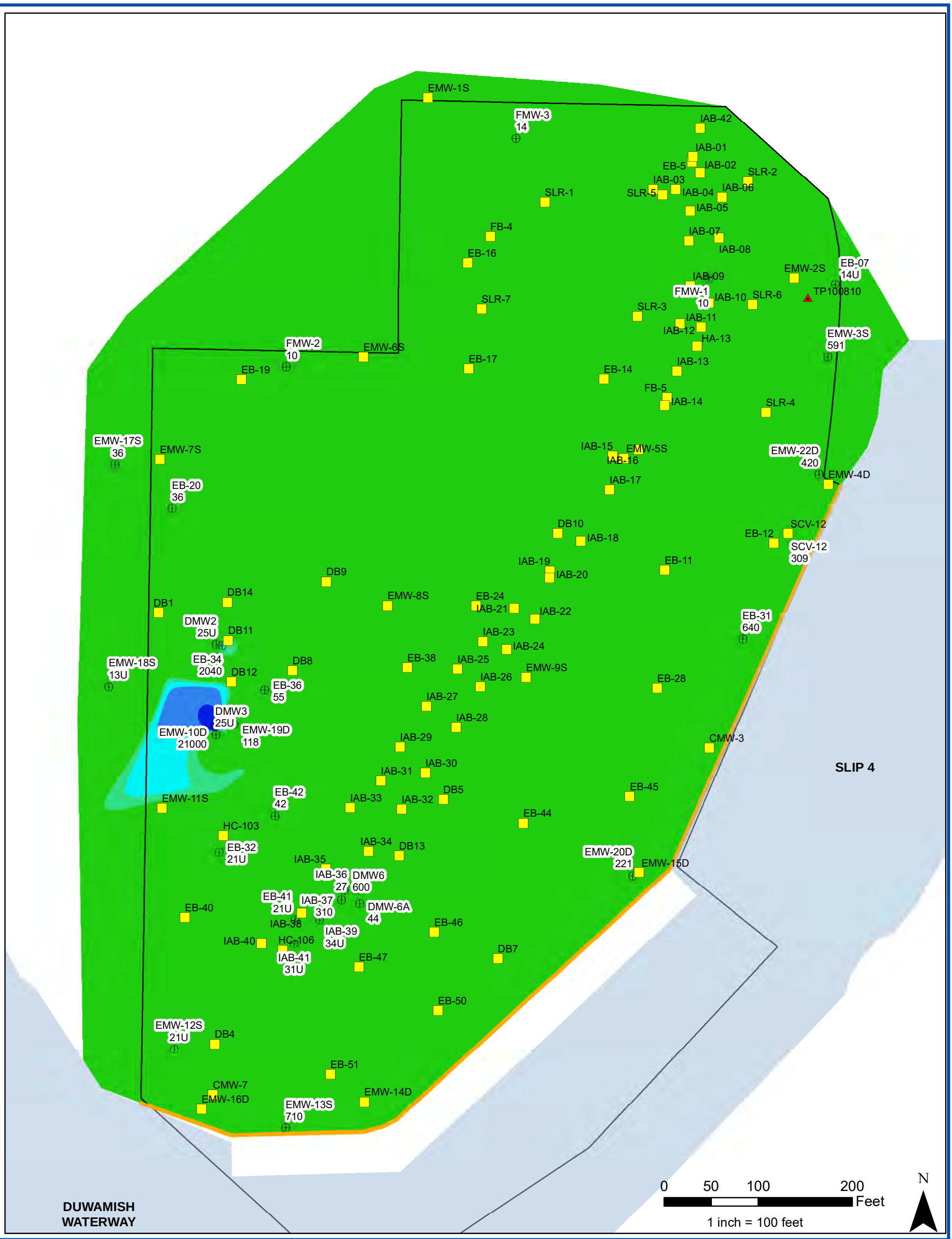
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F46_S_DRO_12.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration below the screening level
- Sheet Pile Seawall
- Property Boundary
- Investigation Location

Total Semi-volatile Petroleum Hydrocarbons (DRO + ORO) (mg/kg)

- < 2,000 (screening level)
- 2,000 - 4,000 (2x)
- 4,000 - 10,000 (5x)
- 10,000 - 20,000 (10x)
- > 20,000

U = For a non-detect value, 1/2 of the highest method reporting limit at each location was used for contouring.

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Figure MAXIMUM CONCENTRATIONS OF TOTAL SEMI-VOLATILE PETROLEUM HYDROCARBONS (DRO + ORO) IN SOIL SAMPLES COLLECTED AT DEPTHS GREATER THAN 12 FEET BGS

Project No. 101.00205.00037

Figure No. 47

SLR
22118 20TH AVE SE
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BOTHELL, WA 98021
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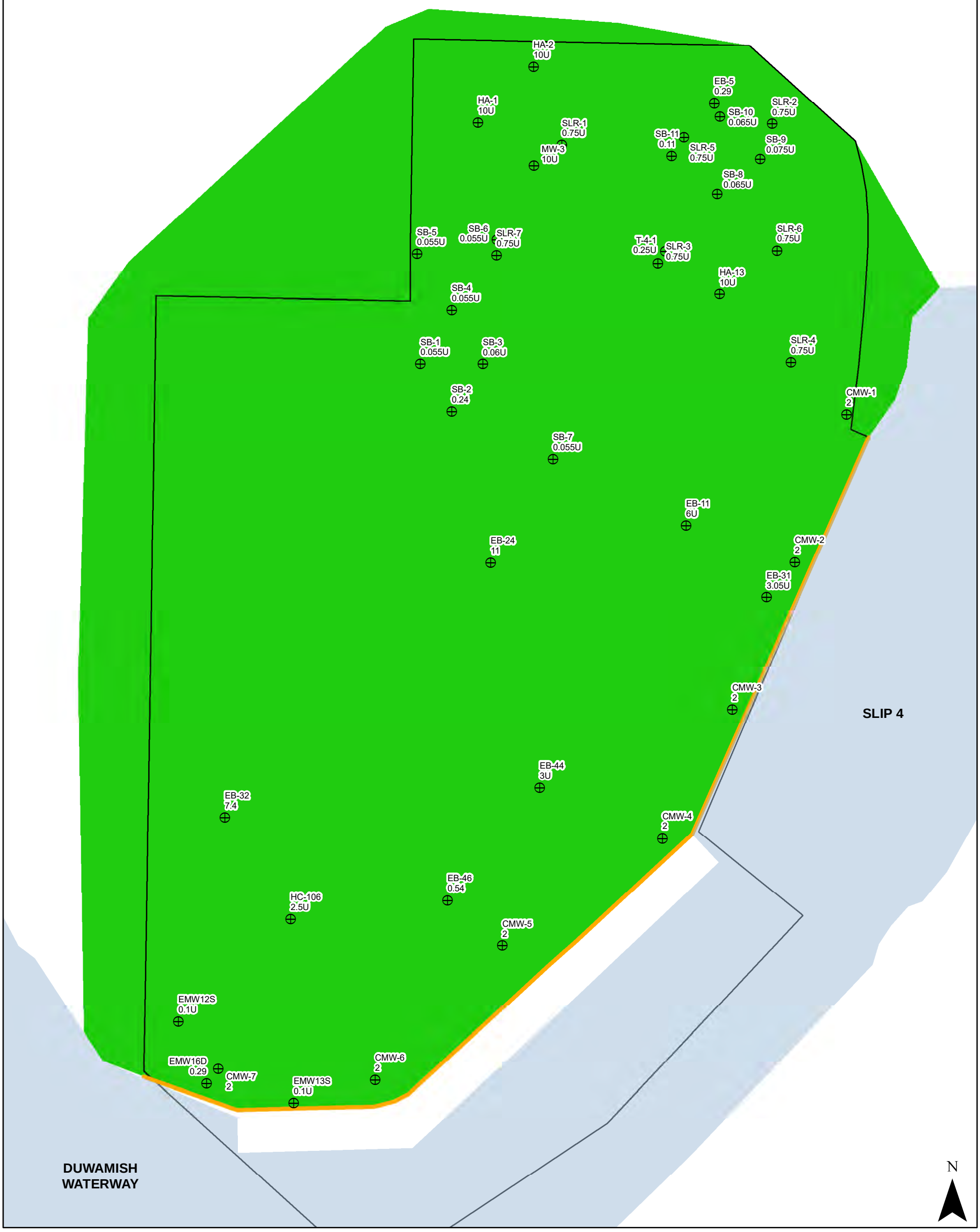
Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F47_S_DRO_D.mxd



LEGEND

- ⊕ Investigation Location
- Sheet Pile Seawall
- Property Boundary

GRO (mg/kg)

- < 30 (SL)
- 30 - 60 (2x)
- 60 - 150 (5x)
- 150 - 300 (10x)
- > 300

U = 1/2 of the highest method reporting limit at each location was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

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Figure
MAXIMUM CONCENTRATIONS OF GRO IN SOIL SAMPLES COLLECTED BETWEEN 0 AND 6 FEET BGS

Project No. 101.00205.00037

Figure No. 48

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22118 20TH AVE SE
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BOTHELL, WA 98021
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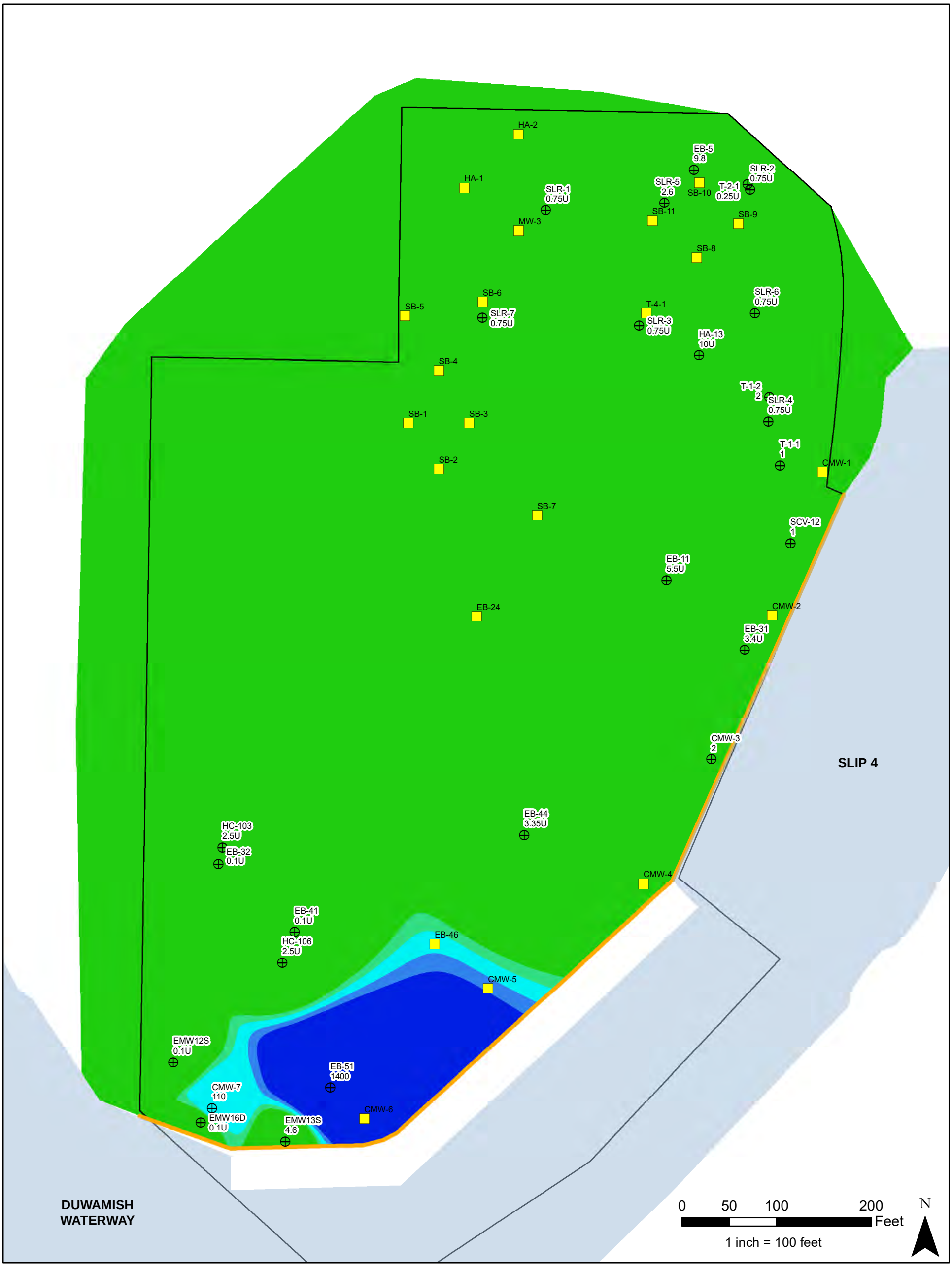
Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\2019 Revision\F48_S_GRO_6.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 6 feet bgs, and contained a concentration below the screening level
- Investigation Location
- Sheet Pile Seawall
- Property Boundary

GRO (mg/kg)

- < 30 (SL)
- 30 - 60 (2x)
- 60 - 150 (5x)
- 150 - 300 (10x)
- > 300

U = 1/2 of the highest method reporting limit at each location was used for contouring.

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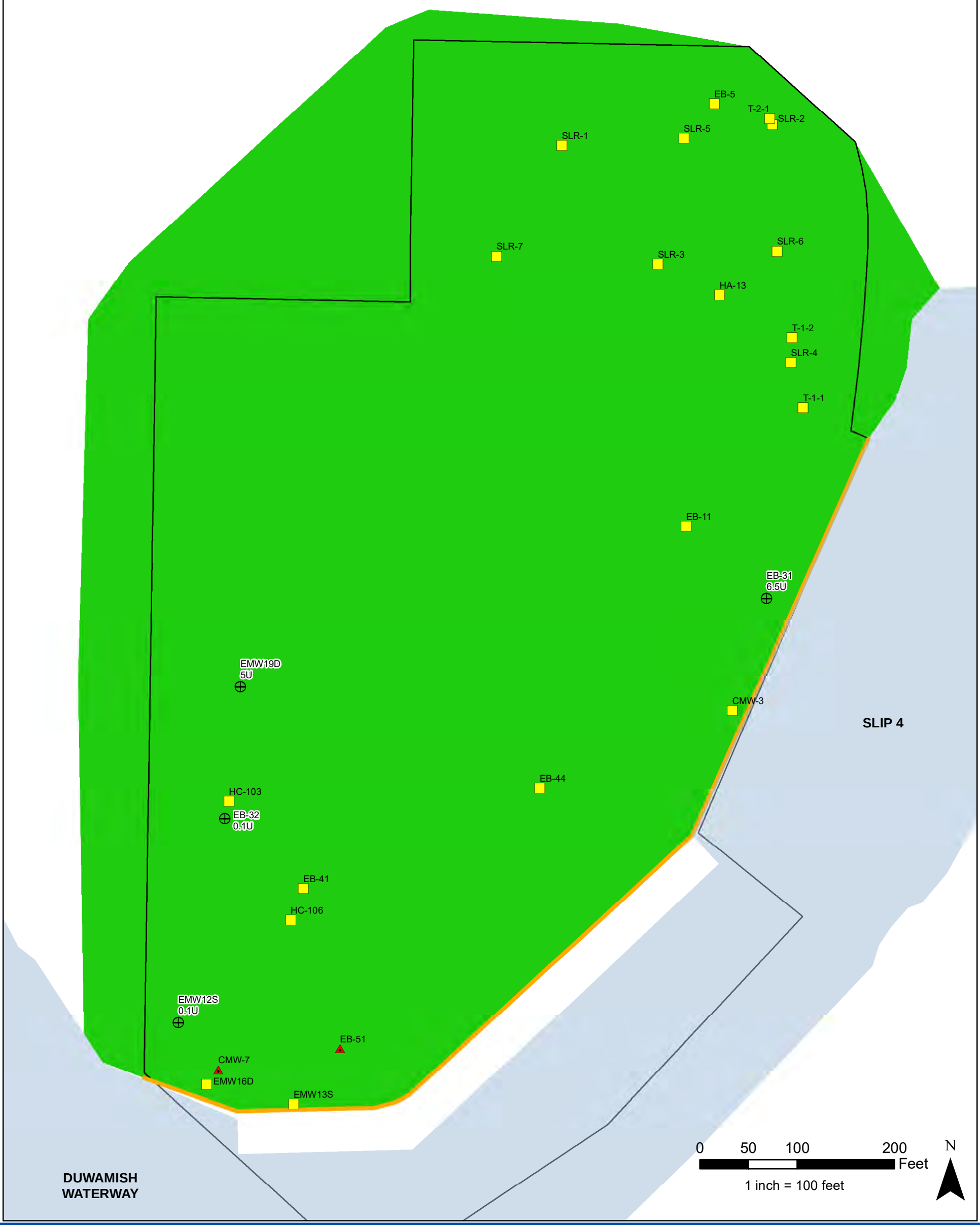
Figure
MAXIMUM CONCENTRATIONS OF GRO IN SOIL SAMPLES COLLECTED AT DEPTHS BETWEEN 6 AND 12 FEET BGS

Project No. 101.00205.00037

Figure No. 49

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\2019 Revision\F49_S_GRO_12.mxd



LEGEND

- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration above the screening level
- The deepest sample from this location was collected at a depth less than 12 feet bgs, and contained a concentration below the screening level
- Investigation Location
- Sheet Pile Seawall
- Property Boundary

GRO (mg/kg)

- < 30 (SL)
- 30 - 60 (2x)
- 60 - 150 (5x)
- 150 - 300 (10x)
- > 300

U = 1/2 of the highest method reporting limit at each location was used for contouring.

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Figure
MAXIMUM CONCENTRATIONS OF GRO IN SOIL SAMPLES COLLECTED AT DEPTHS GREATER THAN 12 FEET BGS

Project No.	**Figure No.**
101.00205.00037	50

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22118 20TH AVE SE
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BOTHELL, WA 98021
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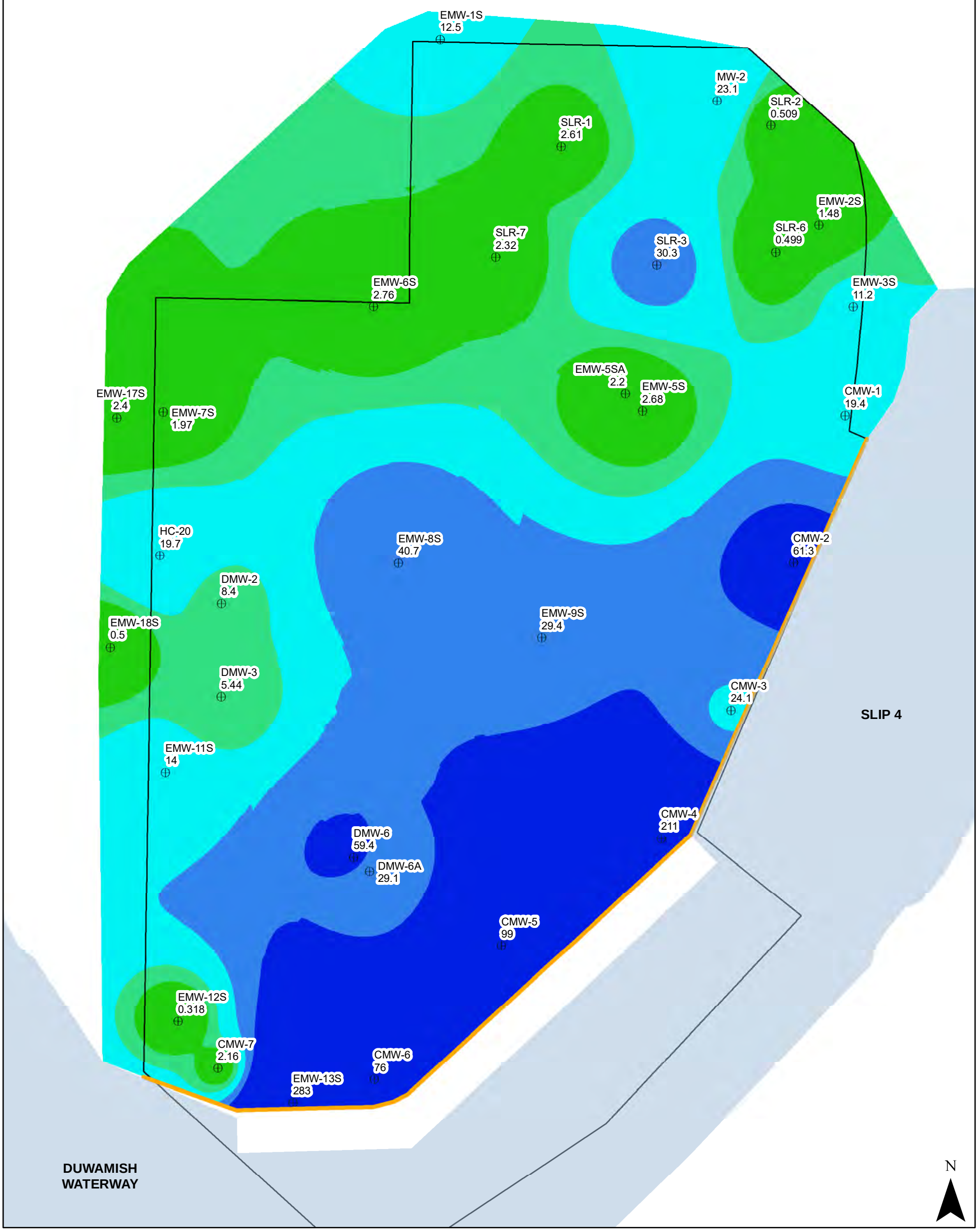
Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\2019 Revision\F50_S_GRO_D.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ SHALLOW MONITORING WELL LOCATION

DISSOLVED ARSENIC (µg/L)

- < 5 (screening level)
- 5 - 10 (2x)
- 10 - 25 (5x)
- 25 - 50 (10x)
- > 50

0 50 100 200 Feet

1 inch = 100 feet

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Figure
MAXIMUM CONCENTRATIONS OF DISSOLVED ARSENIC IN RI GROUNDWATER SAMPLES FROM SHALLOW MONITORING WELLS

Project No. 101.00205.00037

Figure No. 51

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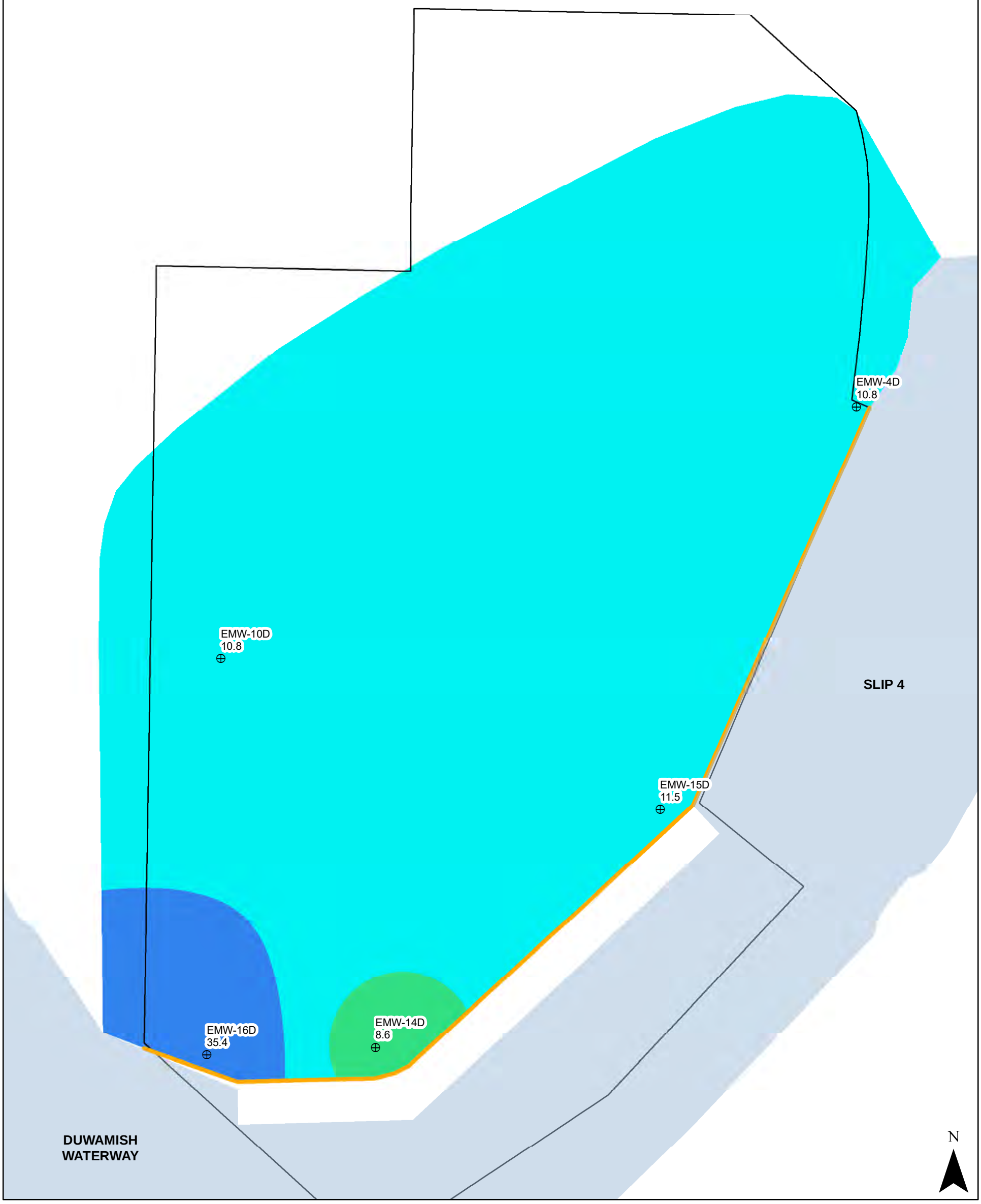
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F51_D_Ar_S.mxd



LEGEND

⊕ SHALLOW MONITORING WELL LOCATION

SHEET PILE SEAWALL

PROPERTY BOUNDARY

DISSOLVED ARSENIC (µg/L)

- < 5 (screening level)
- 5 - 10 (2x)
- 10 - 25 (5x)
- 25 - 50 (10x)
- > 50

0 50 100 200 Feet

1 inch = 100 feet

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SEATTLE, WASHINGTON

Figure
MAXIMUM CONCENTRATIONS OF DISSOLVED ARSENIC IN RI GROUNDWATER SAMPLES FROM INTERMEDIATE-DEPTH MONITORING WELLS

Project No. 101.00205.00037

Figure No. 52

SLR

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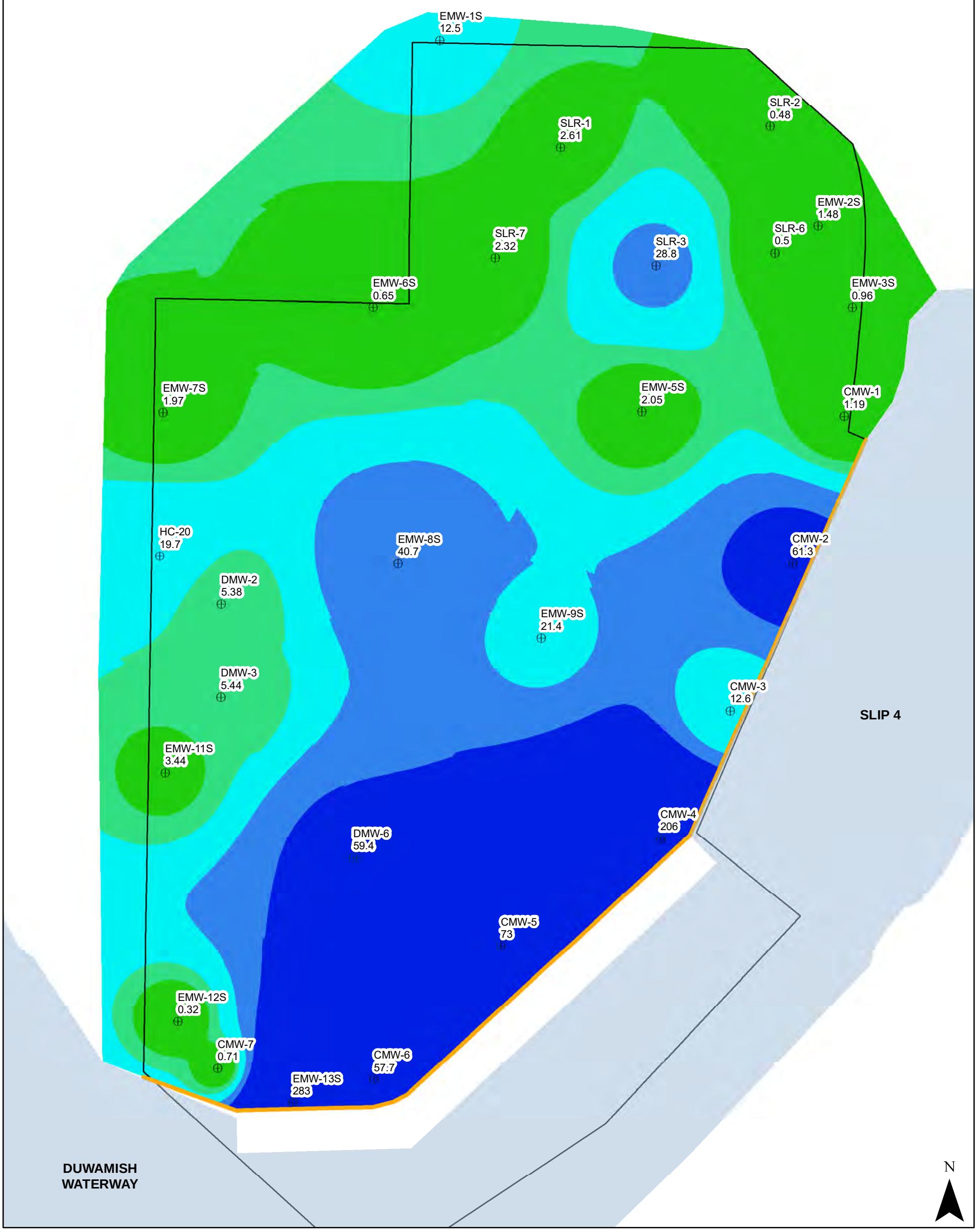
Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F52_D_Ar_M.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ SHALLOW MONITORING WELL LOCATION

DISSOLVED ARSENIC * (µg/L)

- < 5 (screening level)
- 5 - 10 (2x)
- 10 - 25 (5x)
- 25-50 (10x)
- > 50

* Analysis performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

0 50 100 200 Feet

1 inch = 100 feet

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Figure DISSOLVED ARSENIC CONCENTRATIONS IN RI GROUNDWATER SAMPLES FROM SHALLOW MONITORING WELLS - SEPTEMBER AND OCTOBER 2013

Project No. 101.00205.00037

Figure No. 53

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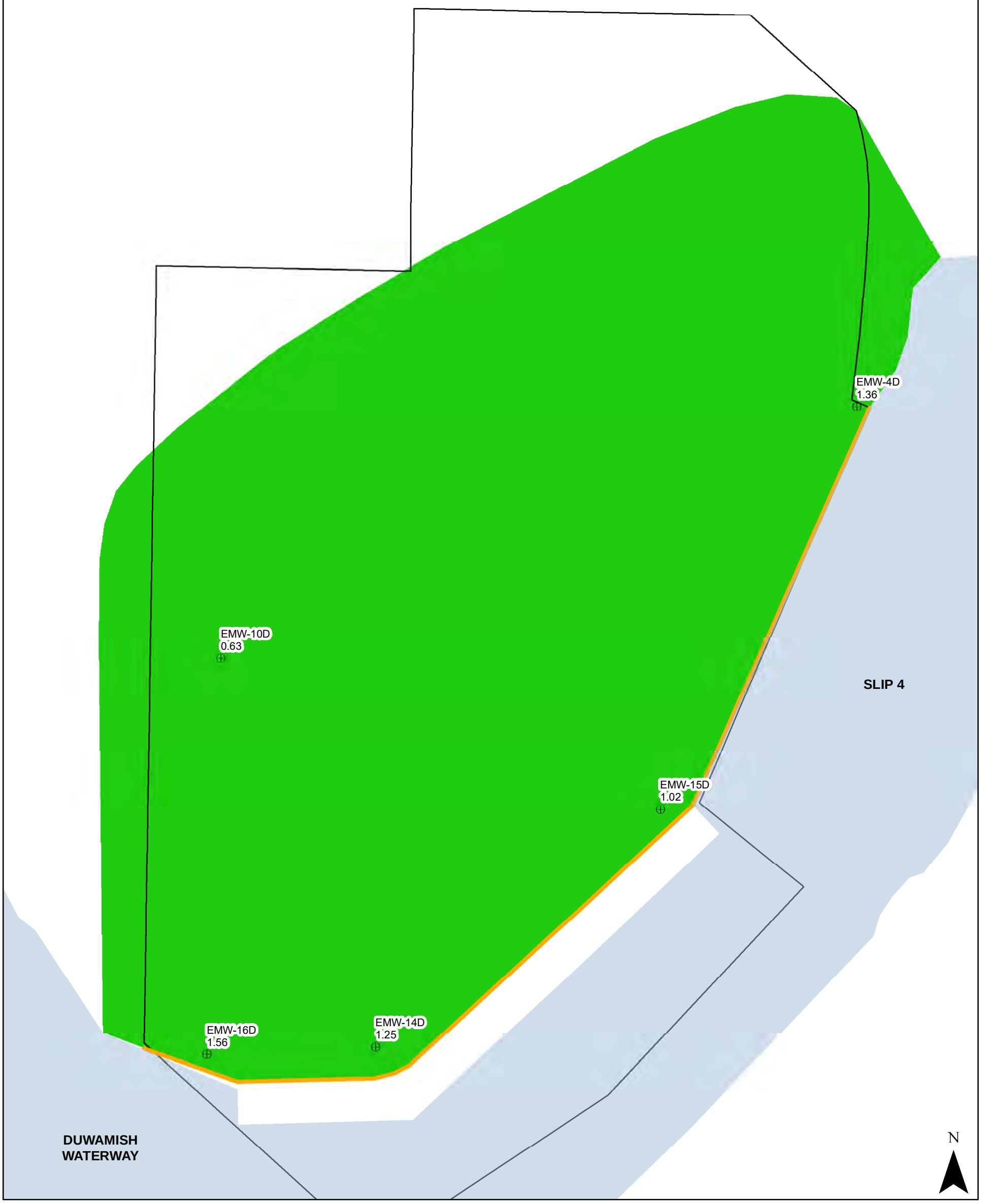
Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F53_D_Ar_ICP_S.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INTERMEDIATE-DEPTH MONITORING WELL LOCATION

DISSOLVED ARSENIC* (µg/L)

- < 5 (screening level)
- 5 - 10 (2x)
- 10 - 25 (5x)
- 25 - 50 (10x)
- > 50

* Analysis performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

0 50 100 200 Feet

1 inch = 100 feet

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Figure DISSOLVED ARSENIC CONCENTRATIONS IN RI GROUNDWATER SAMPLES FROM INTERMEDIATE-DEPTH MONITORING WELLS - SEPTEMBER AND OCTOBER 2013

Project No. 101.00205.00037

Figure No. 54

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BOTHELL, WA 98021
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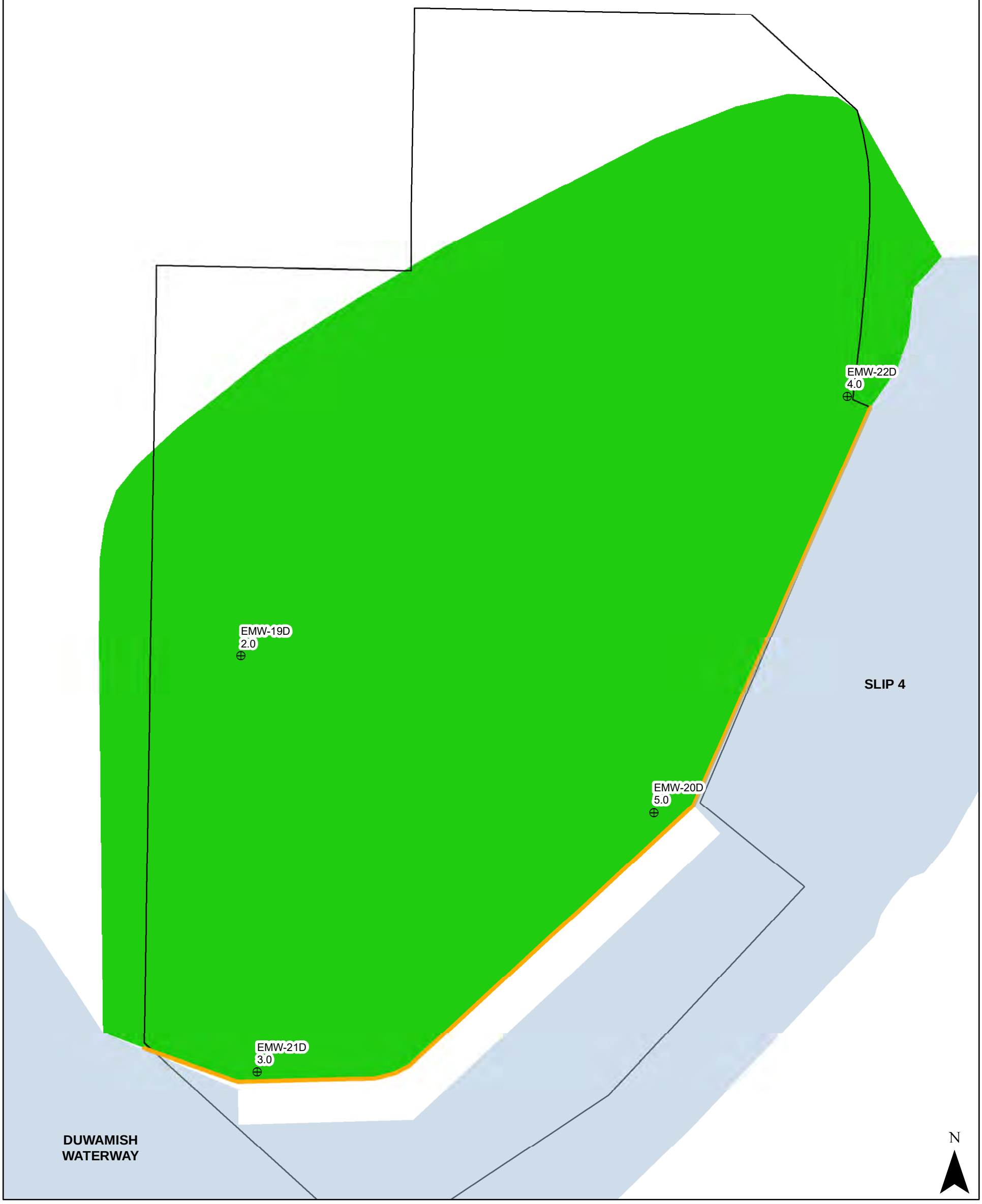
Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F54_D_Ar_ICP_M.mxd



LEGEND

- ⊕ DEEP MONITORING WELL LOCATION
- SHEET PILE SEAWALL
- PROPERTY BOUNDARY

DISSOLVED ARSENIC (µg/L)

- < 5 (screening level)
- 5 - 10 (2x)
- 10 - 25 (5x)
- 25 - 50 (10x)
- > 50

0 50 100 200 Feet

1 inch = 100 feet

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SEATTLE, WASHINGTON

Figure
MAXIMUM CONCENTRATIONS OF DISSOLVED ARSENIC IN RI GROUNDWATER SAMPLES FROM DEEP MONITORING WELLS

Project No. 101.00205.00037

Figure No. 55

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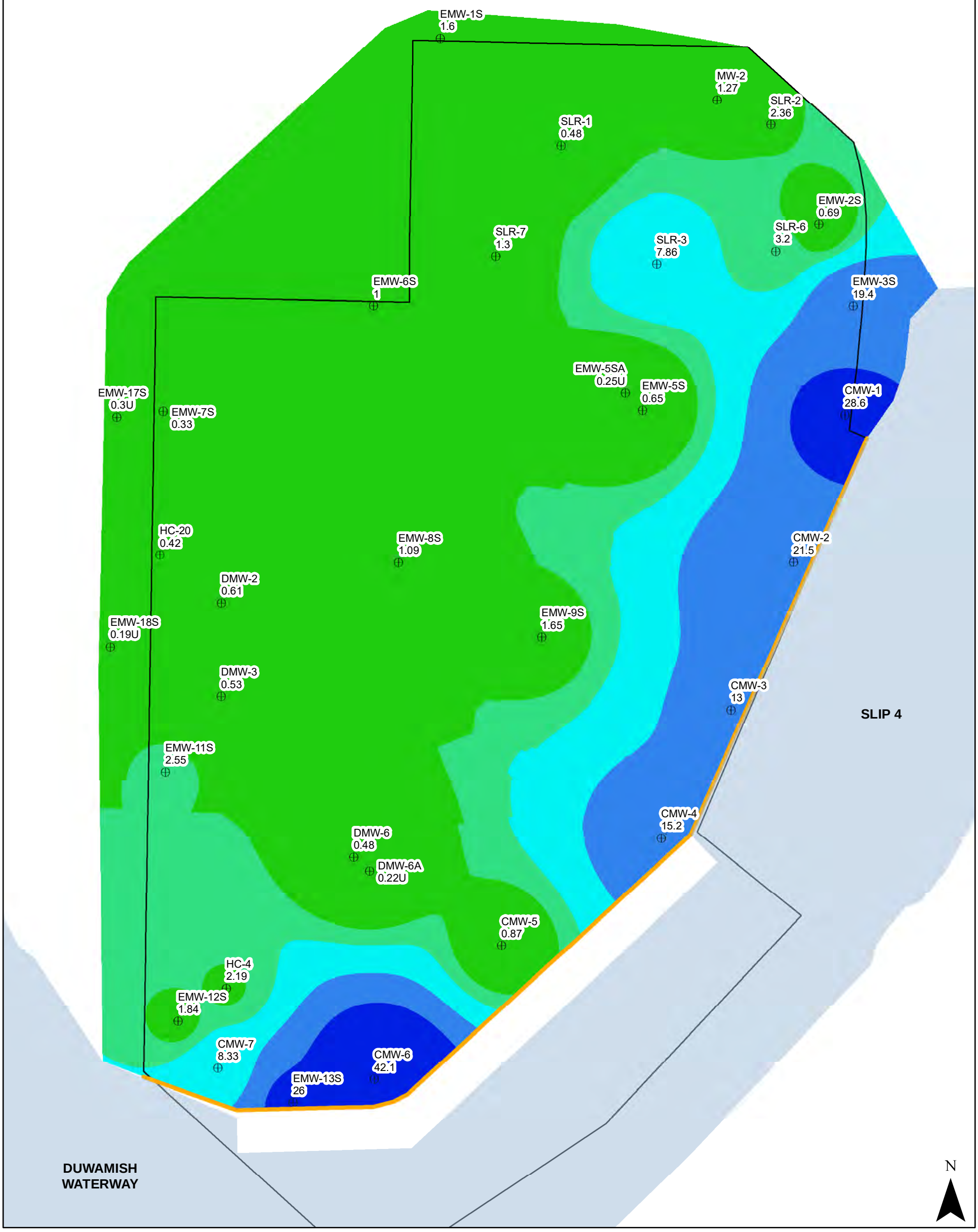
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F55_D_Ar_D.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ SHALLOW MONITORING WELL LOCATION

Dissolved Copper (µg/L)

- < 2.4 (screening level)
- 2.4 - 4.8 (2x)
- 4.8 - 12 (5x)
- 12 - 24 (10x)
- > 24

U = Dissolved copper was not detected in any of the groundwater samples; 1/2 of the lowest method reporting limit was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

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SEATTLE, WASHINGTON

Figure
MAXIMUM CONCENTRATIONS OF DISSOLVED COPPER IN RI GROUNDWATER SAMPLES FROM SHALLOW MONITORING WELLS

Project No. 101.00205.00037

Figure No. 56

SLR

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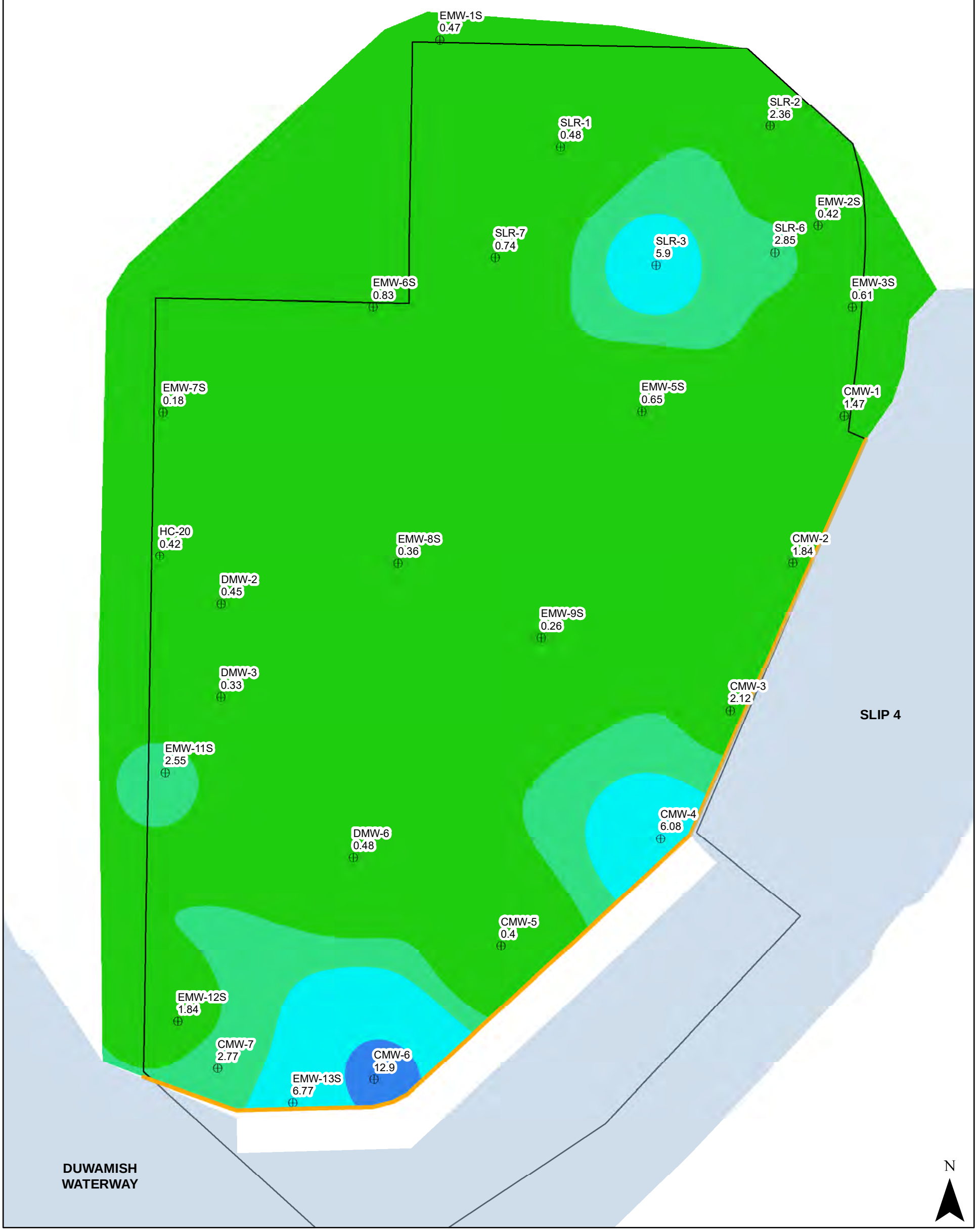
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F56_D_Cp_S.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ SHALLOW GROUNDWATER MONITORING WELL LOCATION

Dissolved Copper* (µg/L)

- < 2.4 (screening level)
- 2.4 - 4.8 (2x)
- 4.8 - 12 (5x)
- 12 - 24 (10x)
- > 24

* Analysis performed via inductively coupled plasma reaction cell mass spectrometry (ICP-DRC-MS).

0 50 100 200 Feet

1 inch = 100 feet

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7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Figure DISSOLVED COPPER CONCENTRATIONS IN RI GROUNDWATER SAMPLES FROM SHALLOW MONITORING WELLS - SEPTEMBER AND OCTOBER 2013

Project No. 101.00205.00037

Figure No. 57

SLR

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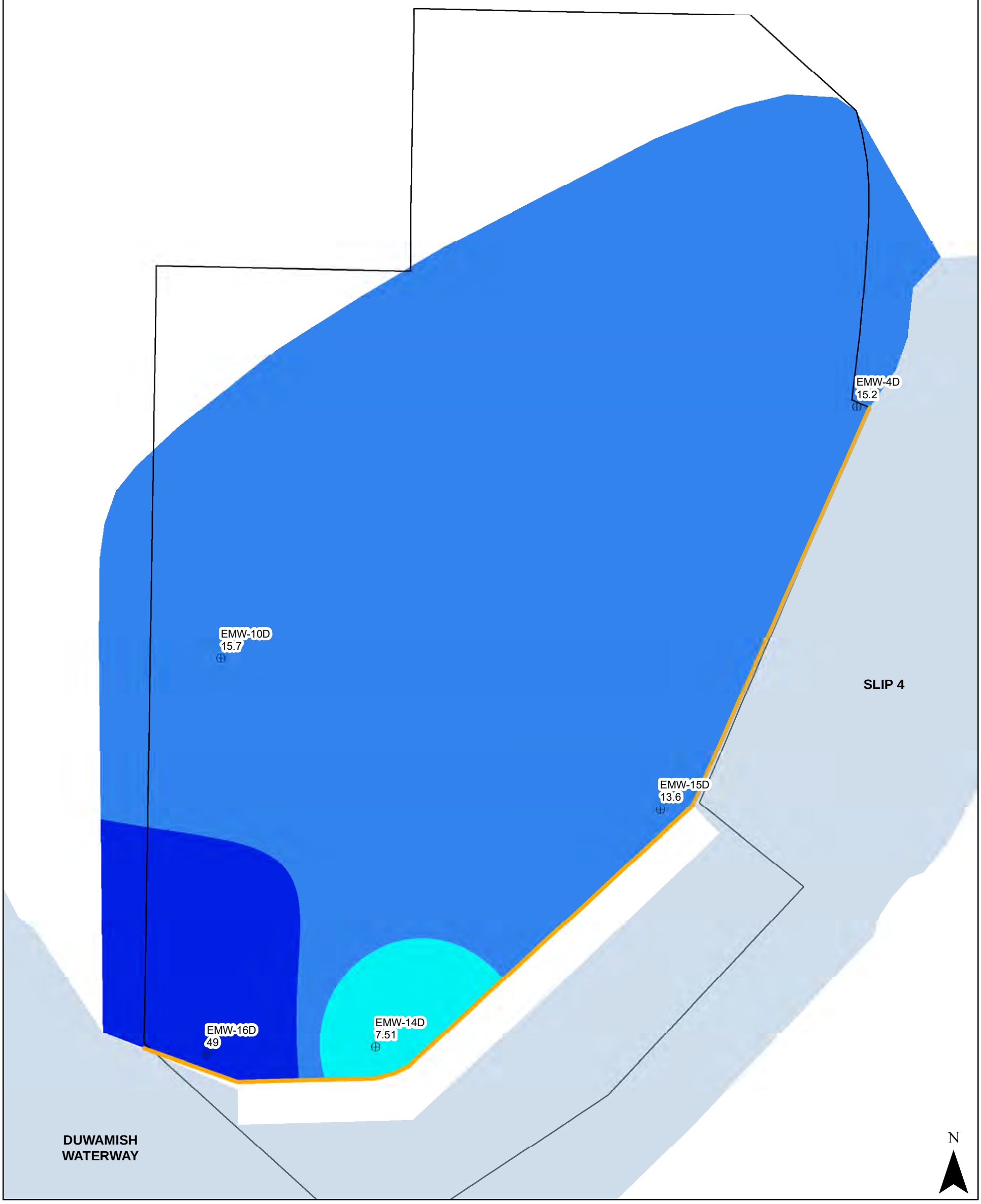
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F57_D_Cp_ICP_S.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INTERMEDIATE-DEPTH MONITORING WELL LOCATION

Dissolved Copper (µg/L)

- 2.4 (screening level)
- 2.4 - 4.8 (2x)
- 4.8 - 12 (5x)
- 12 - 24 (10x)
- > 24

0 50 100 200 Feet

1 inch = 100 feet

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SEATTLE, WASHINGTON

Figure
MAXIMUM CONCENTRATIONS OF DISSOLVED COPPER IN RI GROUNDWATER SAMPLES FROM INTERMEDIATE-DEPTH MONITORING WELLS

Project No. 101.00205.00037

Figure No. 58

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

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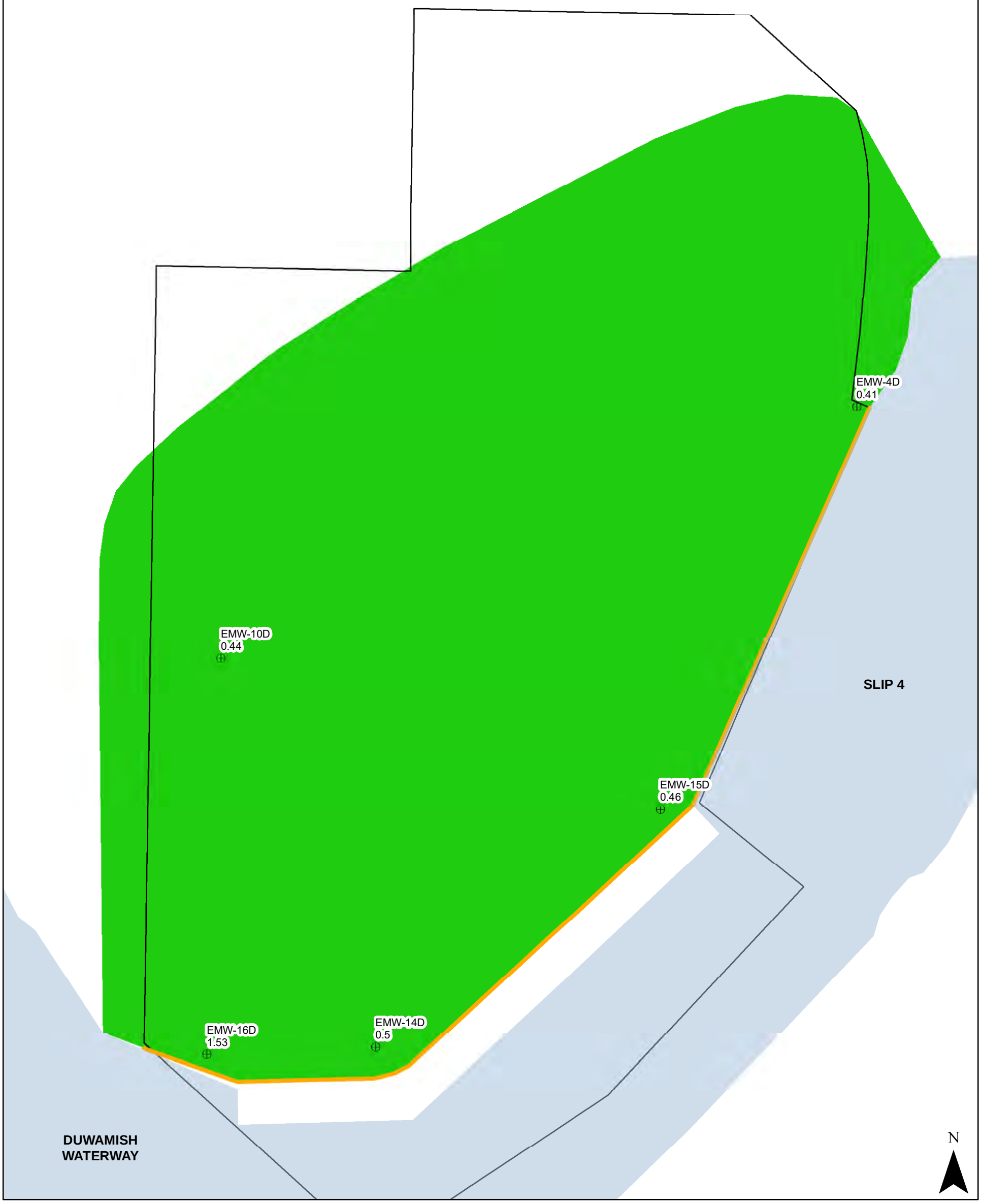
Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F58_D_Cp_M.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL

Dissolved Copper* (µg/L)

- < 2.4 (screening level)
- 2.4 - 4.8 (2x)
- 4.8 - 12 (5x)
- 12 - 24 (10x)
- > 24

* Analysis performed via inductively coupled plasma reaction cell mass spectrometry (ICP-DRC-MS).

0 50 100 200 Feet

1 inch = 100 feet

8TH AVENUE TERMINALS, INC. SITE
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SEATTLE, WASHINGTON

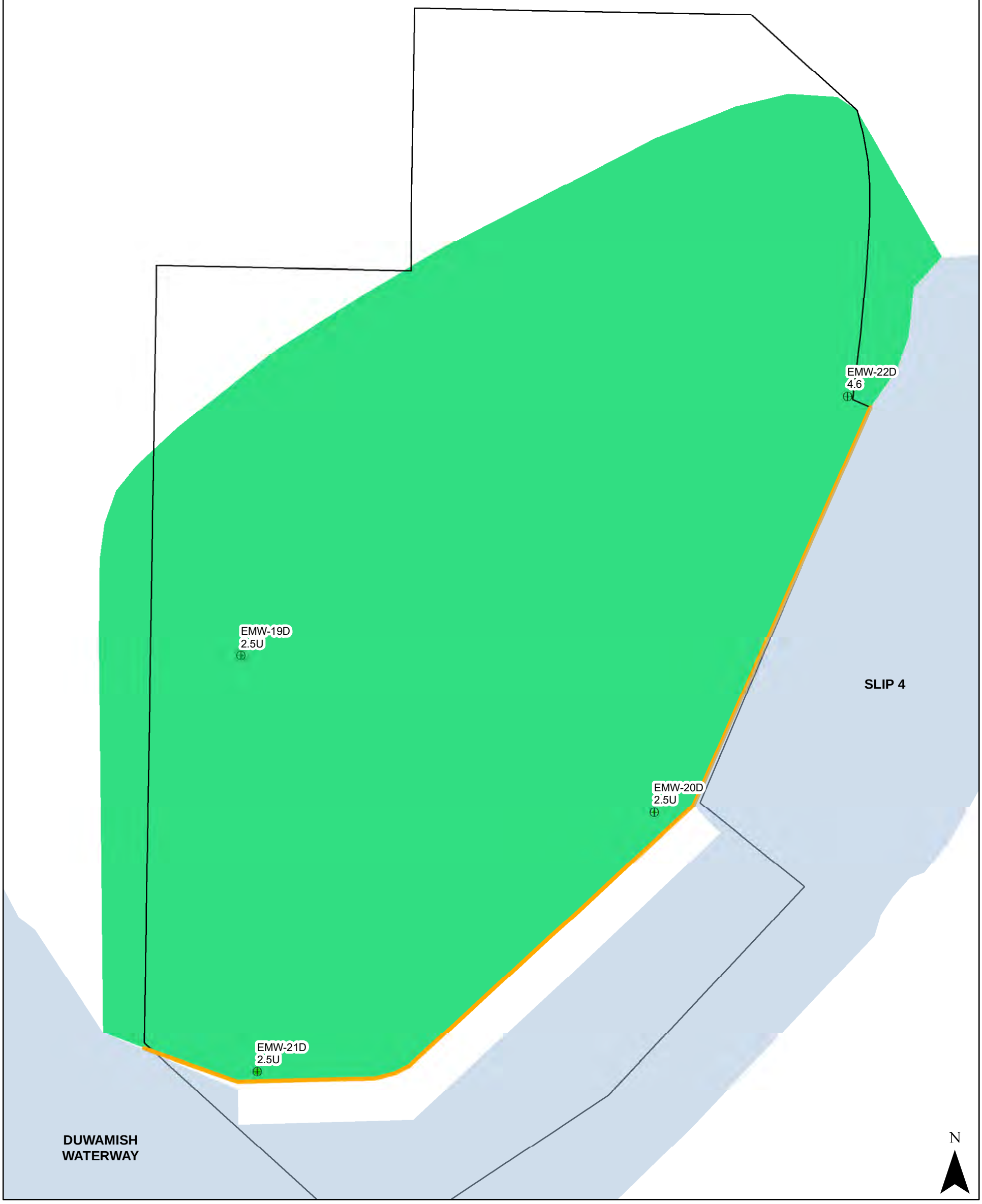
Figure DISSOLVED COPPER CONCENTRATIONS IN RI GROUNDWATER SAMPLES FROM INTERMEDIATE-DEPTH MONITORING WELLS - SEPTEMBER AND OCTOBER 2013

Project No. 101.00205.00037

Figure No. 59

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F59_D_Cp_ICP_M.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ DEEP MONITORING WELL LOCATION

Dissolved Copper (µg/L)

- < 2.4 (screening level)
- 2.4 - 4.8 (2x)
- 4.8 - 12 (5x)
- 12 - 24 (10x)
- > 24

U = Dissolved copper was not detected in the groundwater samples; 1/2 of the method reporting limit was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Figure
MAXIMUM CONCENTRATIONS OF DISSOLVED COPPER IN RI GROUNDWATER SAMPLES FROM DEEP MONITORING WELLS

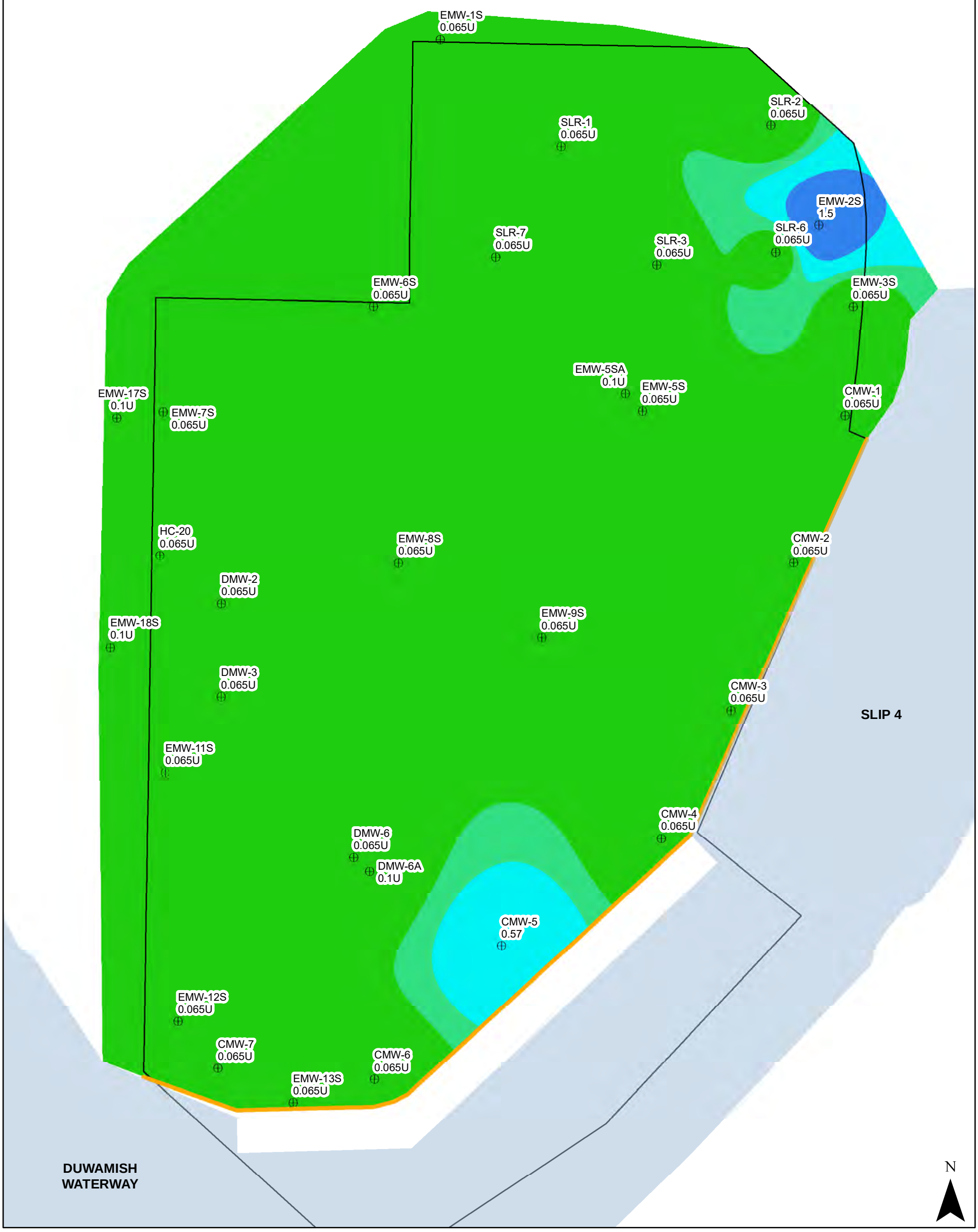
Project No. 101.00205.00037

Figure No. 60

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F60_D_Cp_D.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ SHALLOW GROUNDWATER MONITORING WELL LOCATION

Vinyl Chloride (µg/L)

- < 0.18 (screening level)
- 0.18 - 0.36 (2x)
- 0.36 - 0.90 (5x)
- 0.90 - 1.80 (10x)
- > 1.80

U = Vinyl chloride was not detected in any of the groundwater samples; 1/2 of the lowest method reporting limit was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

8TH AVENUE TERMINALS, INC. SITE
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SEATTLE, WASHINGTON

Figure MAXIMUM CONCENTRATIONS OF VINYL CHLORIDE IN RI GROUNDWATER SAMPLES FROM SHALLOW MONITORING WELLS

Project No. 101.00205.00037

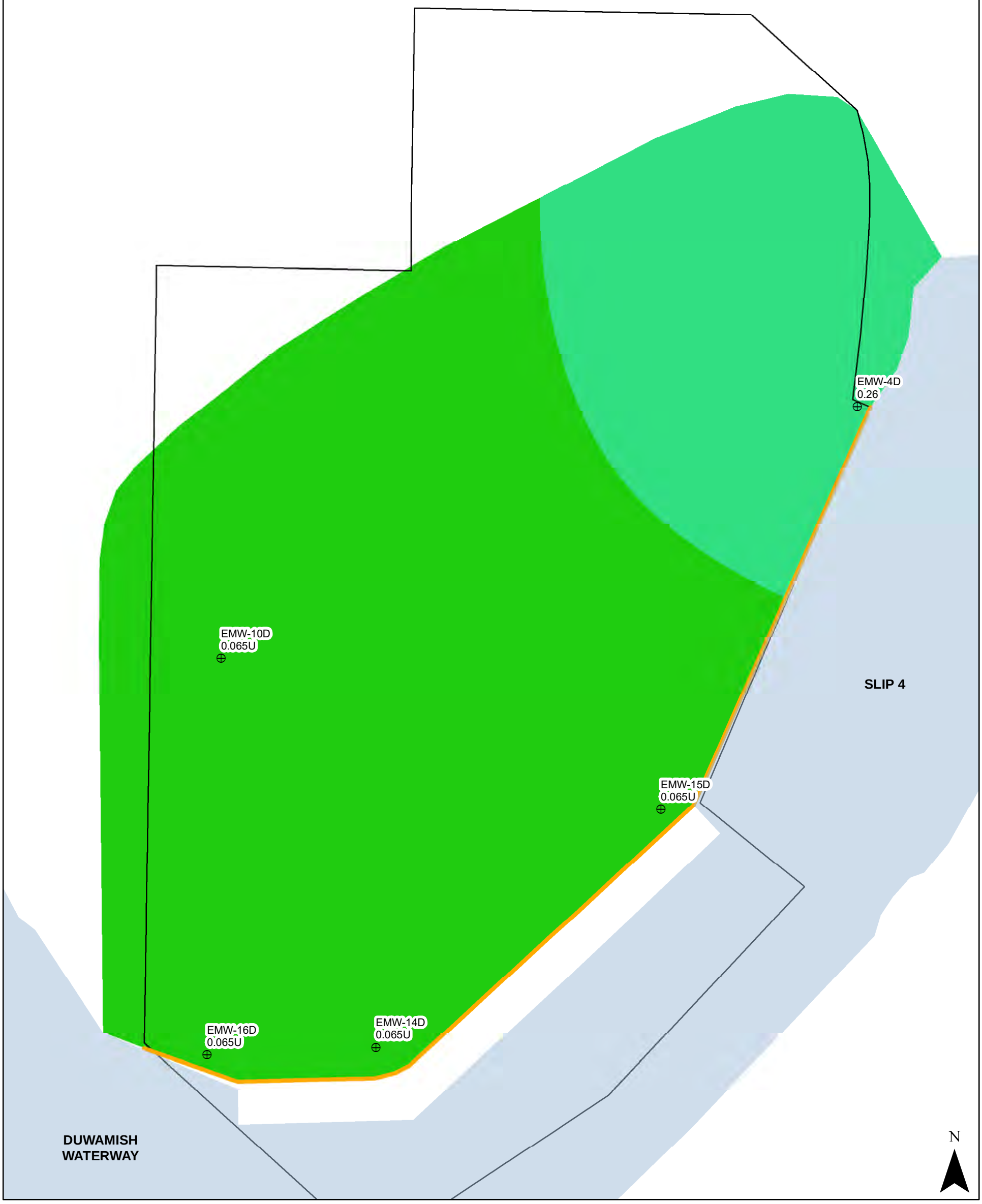
Figure No. 61

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F61_VC_S.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL LOCATION

Vinyl Chloride (µg/L)

- < 0.18 (screening level)
- 0.18 - 0.36 (2x)
- 0.36 - 0.90 (5x)
- 0.90 - 1.80 (10x)
- > 1.80

U = Vinyl chloride was not detected in any of the groundwater samples; 1/2 of the lowest method reporting limit was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

8TH AVENUE TERMINALS, INC. SITE
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SEATTLE, WASHINGTON

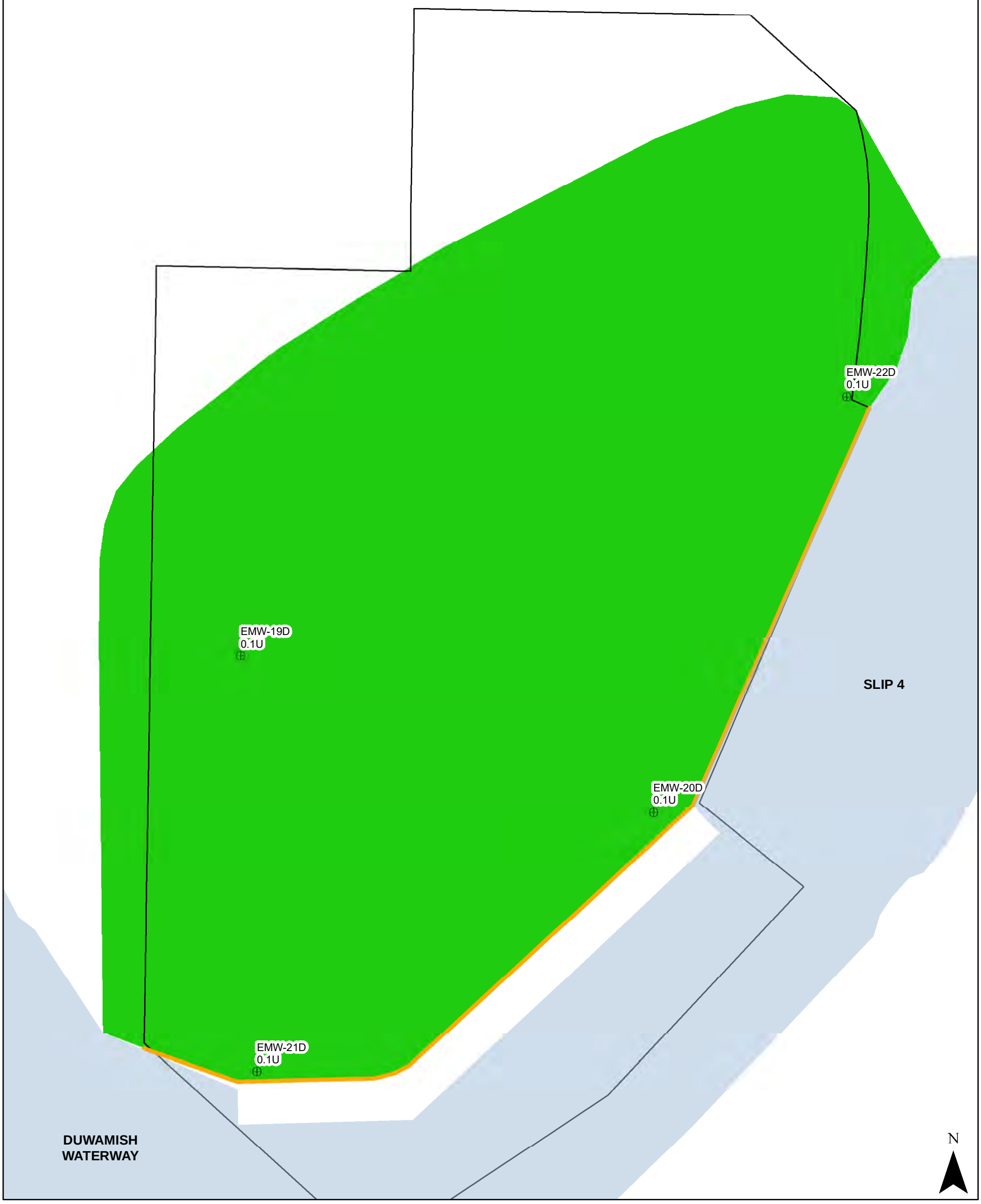
Figure MAXIMUM CONCENTRATIONS OF VINYL CHLORIDE IN RI GROUNDWATER SAMPLES FROM INTERMEDIATE-DEPTH MONITORING WELLS

Project No. 101.00205.00037

Figure No. 62

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F62_VC_M.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ DEEP GROUNDWATER MONITORING WELL LOCATION

Vinyl Chloride (µg/L)

- < 0.18 (screening level)
- 0.18 - 0.36 (2x)
- 0.36 - 0.90 (5x)
- 0.90 - 1.80 (10x)
- > 1.80

U = Vinyl chloride was not detected in the groundwater sample; 1/2 of the lowest method reporting limit was used for contouring.

0 50 100 200 Feet

1 inch = 100 feet

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SEATTLE, WASHINGTON

Figure MAXIMUM CONCENTRATIONS OF VINYL CHLORIDE IN RI GROUNDWATER SAMPLES FROM DEEP MONITORING WELLS

Project No. 101.00205.00037

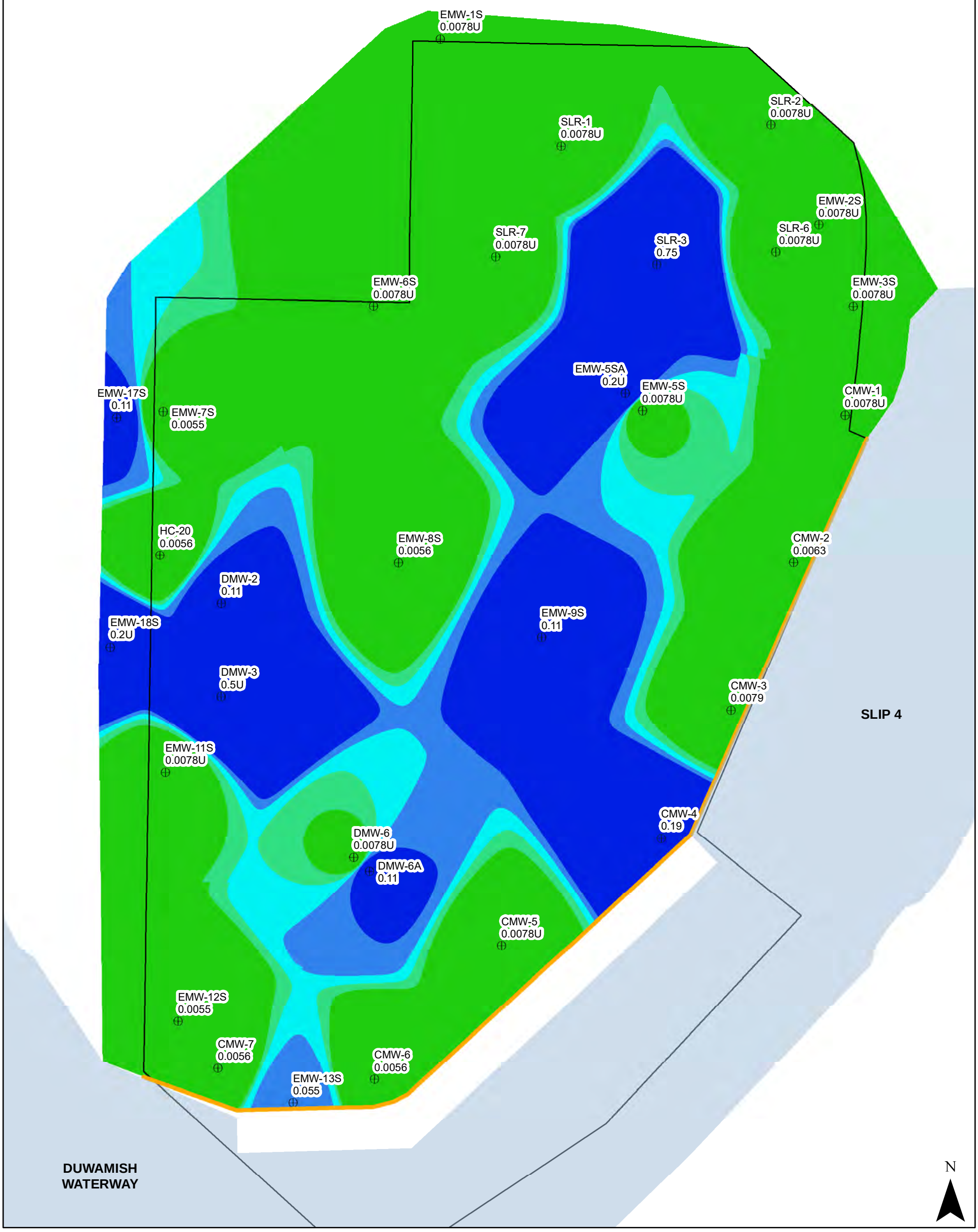
Figure No. 63

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F63_VC_D.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ SHALLOW GROUNDWATER MONITORING WELL LOCATION

Total cPAHs TEQ (µg/L)

- < 0.01 (screening level)
- 0.01 - 0.02 (2x)
- 0.02 - 0.05 (5x)
- 0.05 - 0.1 (10x)
- > 0.10

For a non-detect cPAH value, 1/2 of the method detection limit was used to calculate the total cPAH TEQ concentration.

0 50 100 200 Feet

1 inch = 100 feet

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SEATTLE, WASHINGTON

Figure MAXIMUM CONCENTRATIONS OF TOTAL cPAHs TEQ IN RI GROUNDWATER SAMPLES FROM SHALLOW MONITORING WELLS

Project No. 101.00205.00037

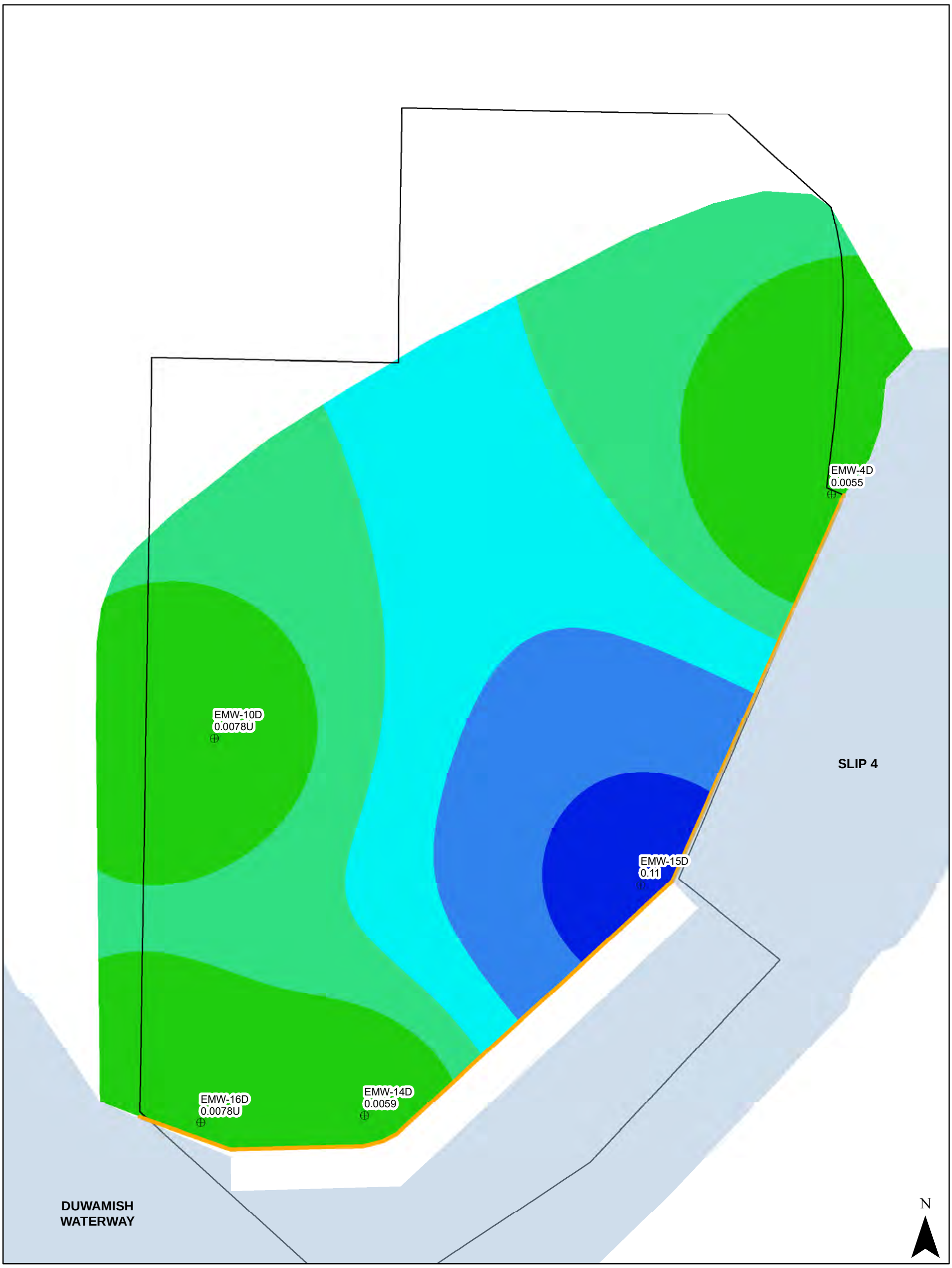
Figure No. 64

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F64_cPAH_S.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INTERMEDIATE-DEPTH GROUNDWATER MONITORING WELL LOCATION

Total cPAHs TEQ (µg/L)

- < 0.01 (screening level)
- 0.01 - 0.02 (2x)
- 0.02 - 0.05 (5x)
- 0.05 - 0.10 (10x)
- > 0.10

For a non-detect cPAH value, 1/2 of the method detection limit was used to calculate the total cPAHs TEQ concentration.

0 50 100 200 Feet

1 inch = 100 feet

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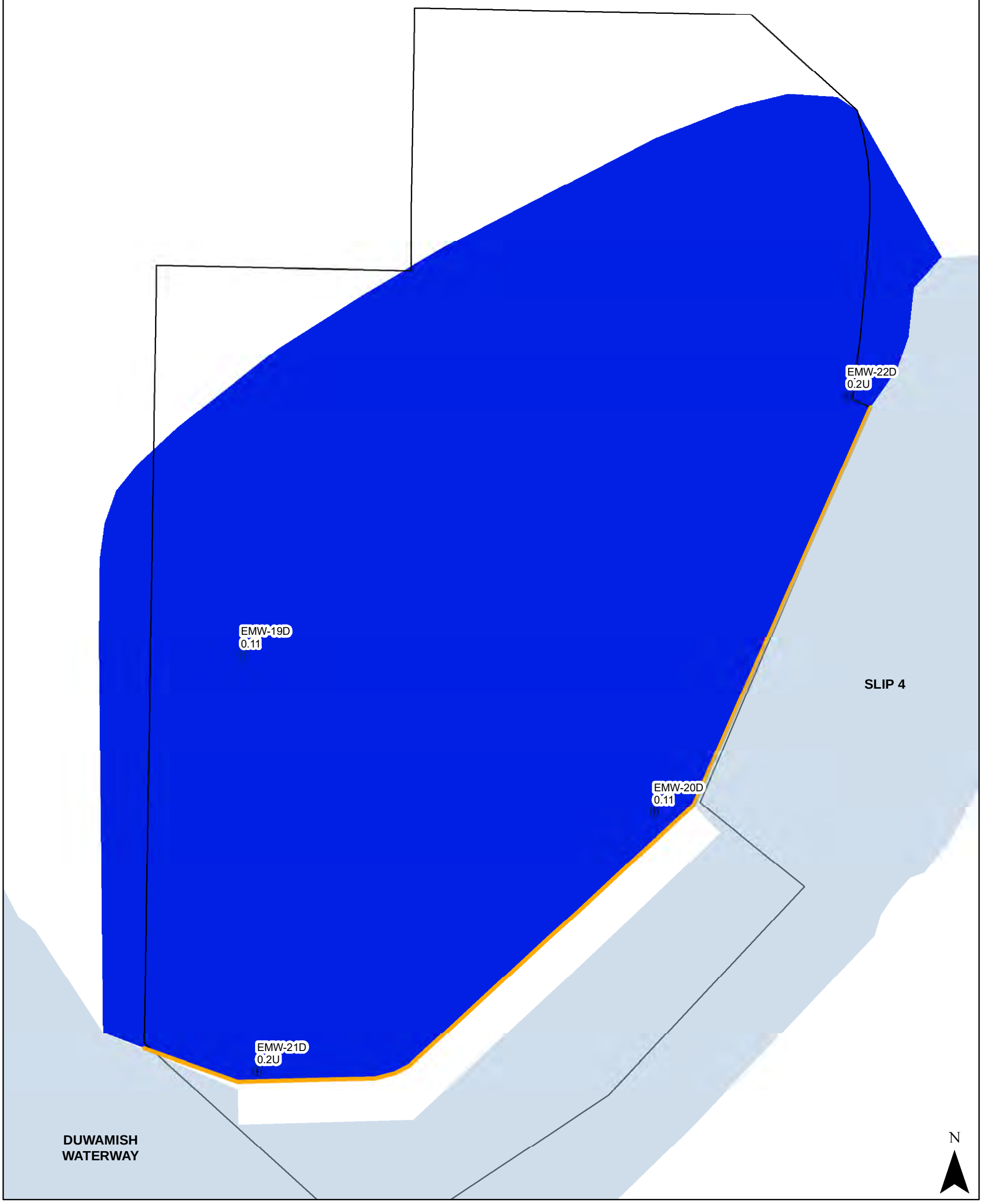
Figure
MAXIMUM CONCENTRATIONS OF TOTAL cPAHs TEQ IN RI GROUNDWATER SAMPLES FROM INTERMEDIATE-DEPTH MONITORING WELLS

Project No. 101.00205.00037

Figure No. 65

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F65_cPAH_M.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ DEEP GROUNDWATER MONITORING WELL LOCATION

0 50 100 200 Feet

1 inch = 100 feet

Total cPAHs TEQ (µg/L)

- < 0.01 (screening level)
- 0.01 - 0.02 (2x)
- 0.02 - 0.05 (5x)
- 0.05 - 0.01 (10x)
- > 0.10

For a non-detect cPAH value, 1/2 of the method detection limit was used to calculate the total cPAH TEQ concentration.

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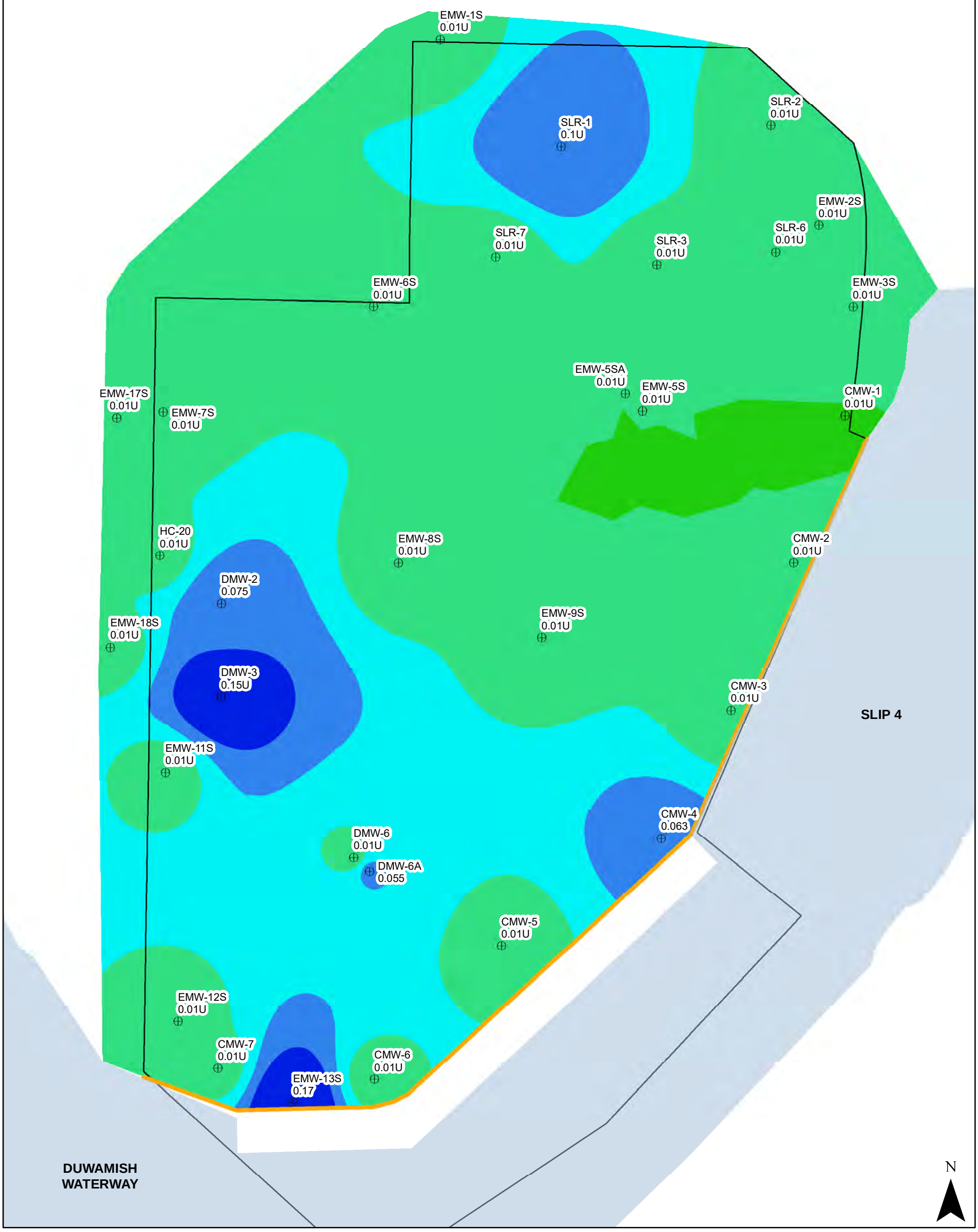
Figure
MAXIMUM CONCENTRATIONS OF TOTAL cPAHs TEQ IN RI GROUNDWATER SAMPLES FROM DEEP MONITORING WELLS

Project No. 101.00205.00037

Figure No. 66

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F66_cPAH_D.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ SHALLOW GROUNDWATER MONITORING WELL LOCATION

0 50 100 200 Feet

1 inch = 100 feet

Total PCBs (µg/L)

- <0.01 (screening level)
- 0.01 - 0.02 (2x)
- 0.02 - 0.05 (5x)
- 0.05 - 0.10 (10x)
- > 0.10

For a non-detect PCB value, 1/2 of the method detection limit was used to calculate the total PCB concentration.

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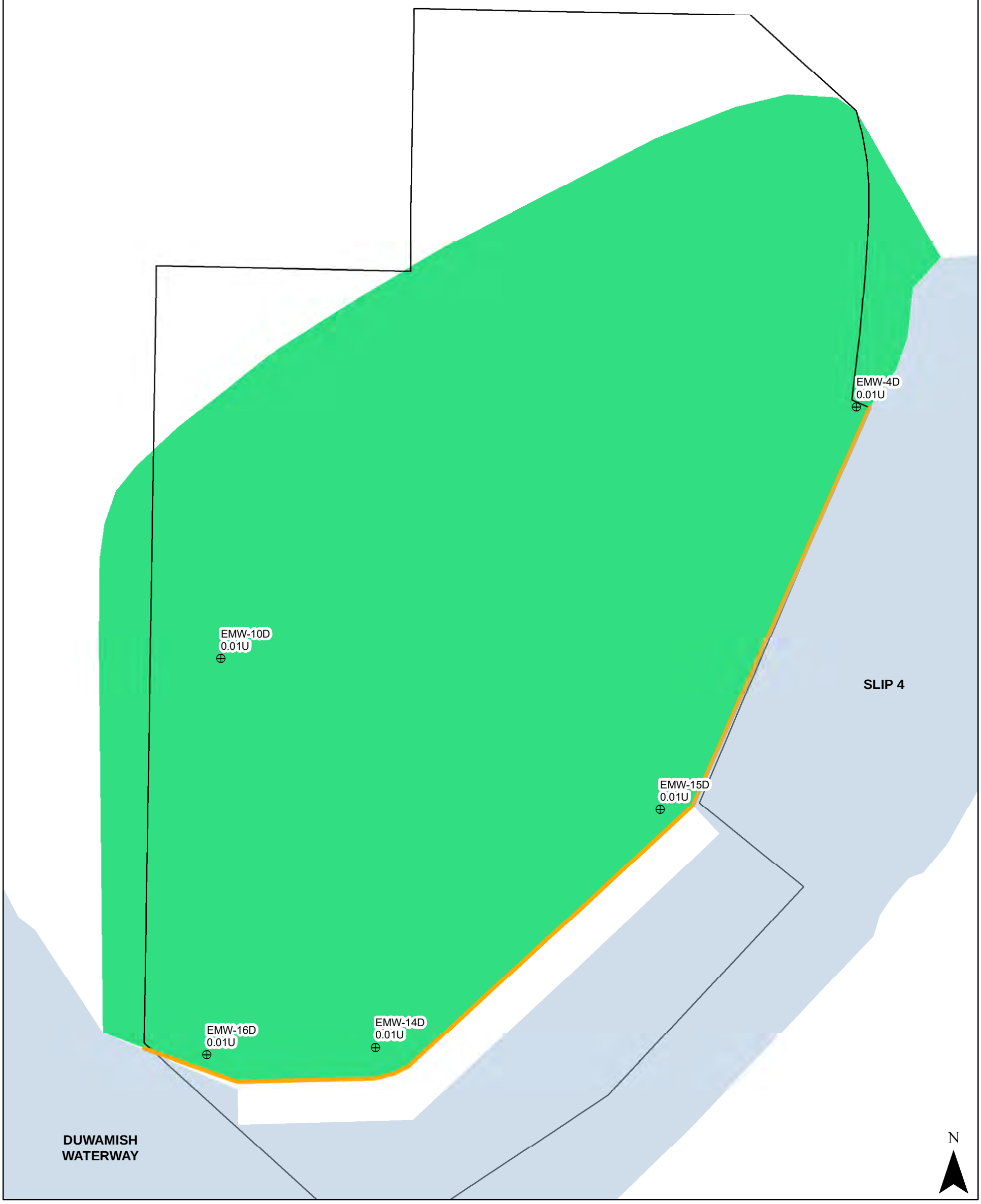
Figure MAXIMUM CONCENTRATIONS OF TOTAL PCBs IN RI GROUNDWATER SAMPLES FROM SHALLOW MONITORING WELLS

Project No. 101.00205.00037

Figure No. 67

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F67_PCB_S.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INTERMEDIATE-DEPTH MONITORING WELL LOCATION

Total PCBs (µg/L)

- <0.01 (screening level)
- 0.01 - 0.02 (2x)
- 0.02 - 0.05 (5x)
- 0.05 - 0.10 (10x)
- > 0.10

For a non-detect PCB value, 1/2 of the method detection limit was used to calculate the total PCB concentration.

0 50 100 200 Feet

1 inch = 100 feet

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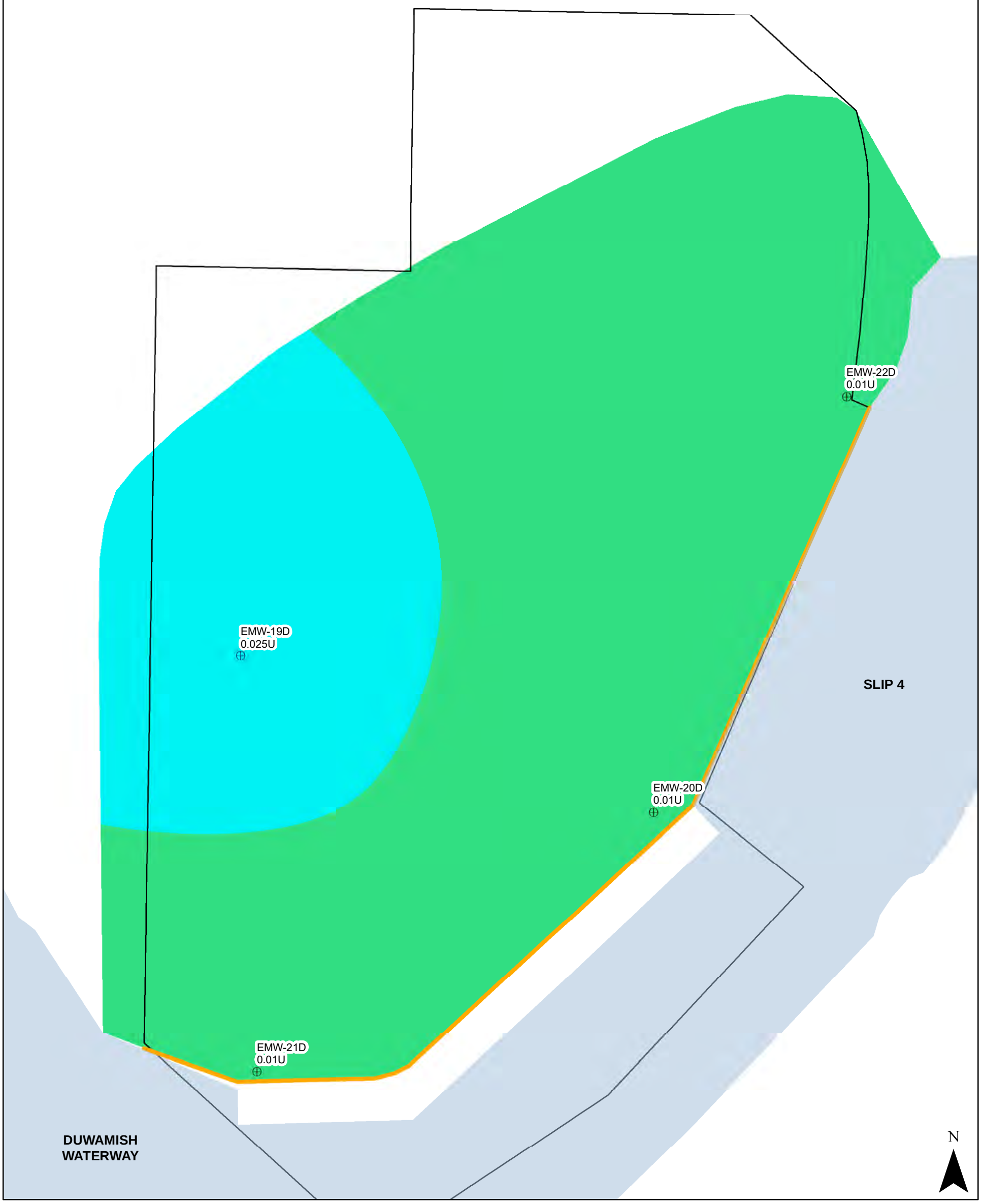
Figure MAXIMUM CONCENTRATIONS OF TOTAL PCBs IN RI GROUNDWATER SAMPLES FROM INTERMEDIATE-DEPTH MONITORING WELLS

Project No. 101.00205.00037

Figure No. 68

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F68_PCB_M.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ DEEP MONITORING WELL LOCATION

Total PCBs (µg/L)

- < 0.01 (screening level)
- 0.01 - 0.02 (2x)
- 0.02 - 0.05 (5x)
- 0.05 - 0.1 (10x)
- > 0.10

For a non-detect PCB value, 1/2 the method detection limit was used to calculate the total PCB concentration.

0 50 100 200 Feet

1 inch = 100 feet

8TH AVENUE TERMINALS, INC. SITE
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SEATTLE, WASHINGTON

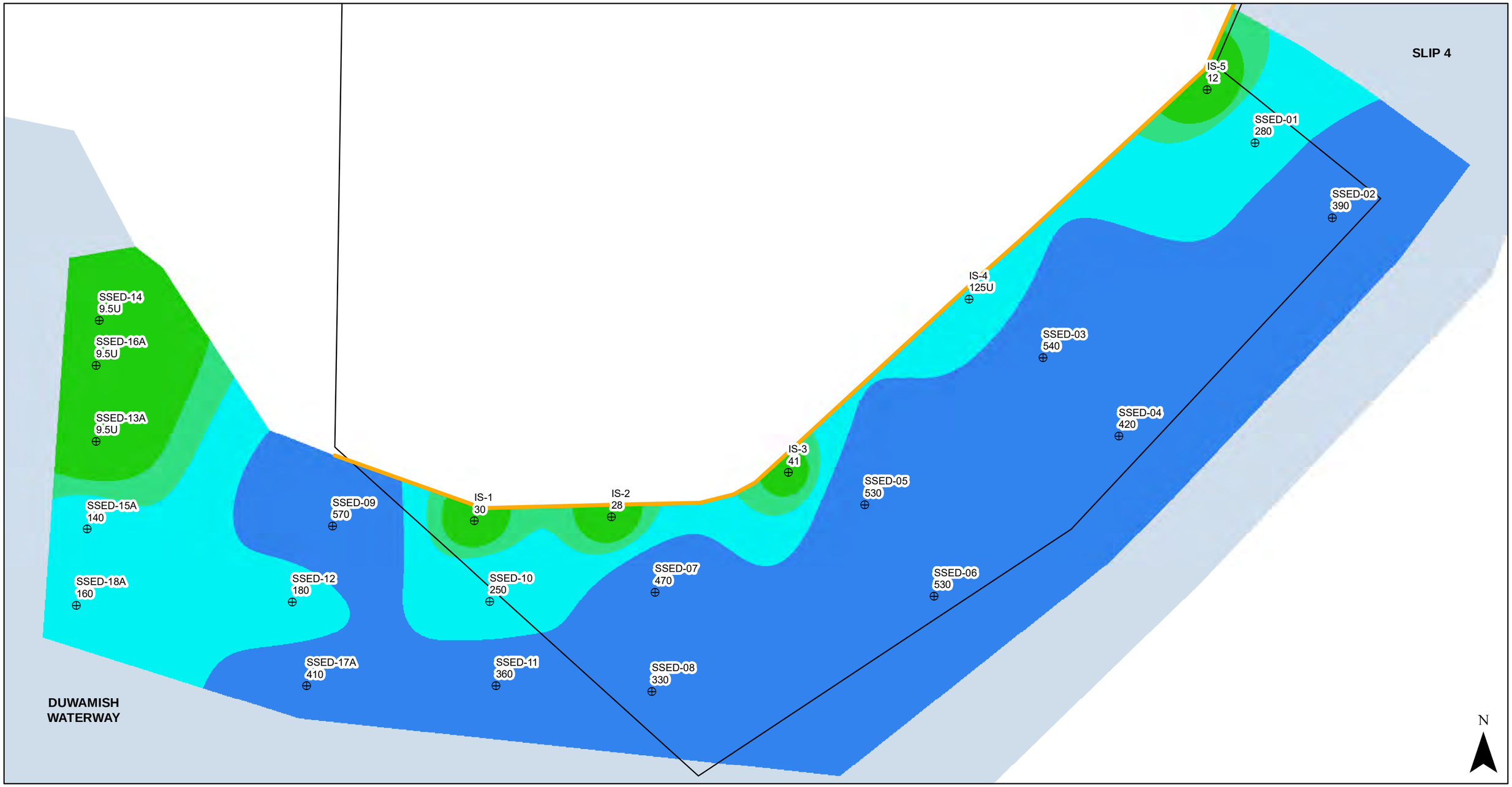
Figure MAXIMUM CONCENTRATIONS OF TOTAL PCBs IN RI GROUNDWATER SAMPLES FROM DEEP MONITORING WELLS

Project No. 101.00205.00037

Figure No. 69

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F69_PCB_D.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Benzyl alcohol (µg/kg)

- < 57 (screening level)
- 57 - 114 (2x)
- 114 - 285 (5x)
- 285 - 570 (10x)
- > 570

0 30 60 120 Feet

1 inch = 60 feet

U = 1/2 of the method reporting limit at each location was used for contouring.

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SEATTLE, WASHINGTON

Project No. 101.00205.00037

Figure No. 70

Figure

CONCENTRATIONS OF BENZYL ALCOHOL IN SURFACE SEDIMENT SAMPLES

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F70_SS_BA.mxd

LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Dibenzo(a,h)anthracene (mg/kg-OC)

- < 12 (screening level)
- 12 - 24 (2x)
- 24 - 60 (5x)
- 60 - 120 (10x)
- > 120

0 30 60 120 Feet

1 inch = 60 feet

U = 1/2 of the method reporting limit at each location was used for contouring.

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Project No. 101.00205.00037

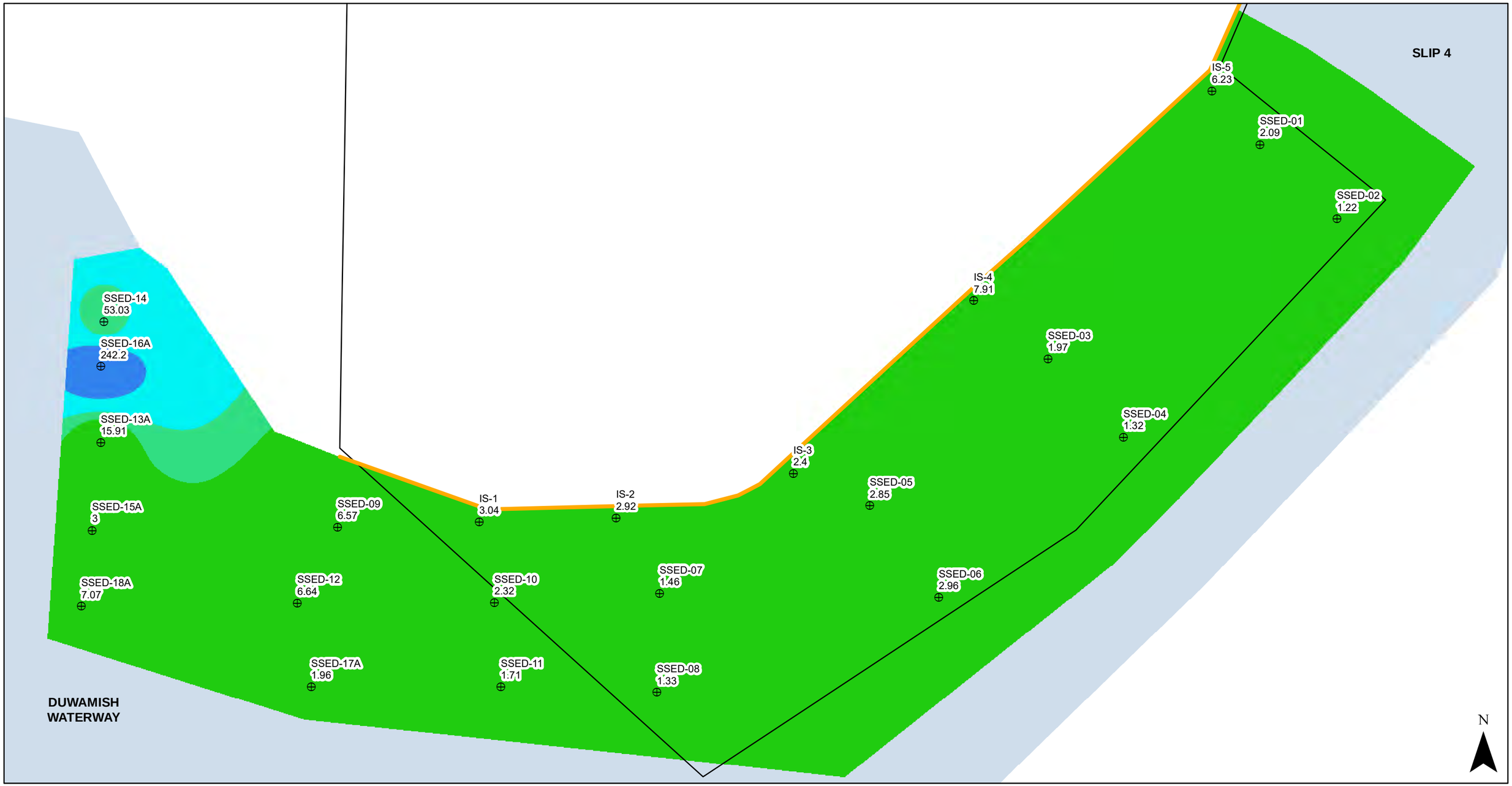
Figure No. 71

Figure

CONCENTRATIONS OF DIBENZO(A,H)ANTHRACENE IN SURFACE SEDIMENT SAMPLES

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205.00037\MXD\F71_SS_Dibenzo.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Indeno(1,2,3-c,d)pyrene (mg/kg-OC)

- < 34 (screening level)
- 34 - 68 (2x)
- 68 - 170 (5x)
- 170 - 340 (10x)
- > 340

0 30 60 120 Feet

1 inch = 60 feet

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Project No. 101.00205.00037

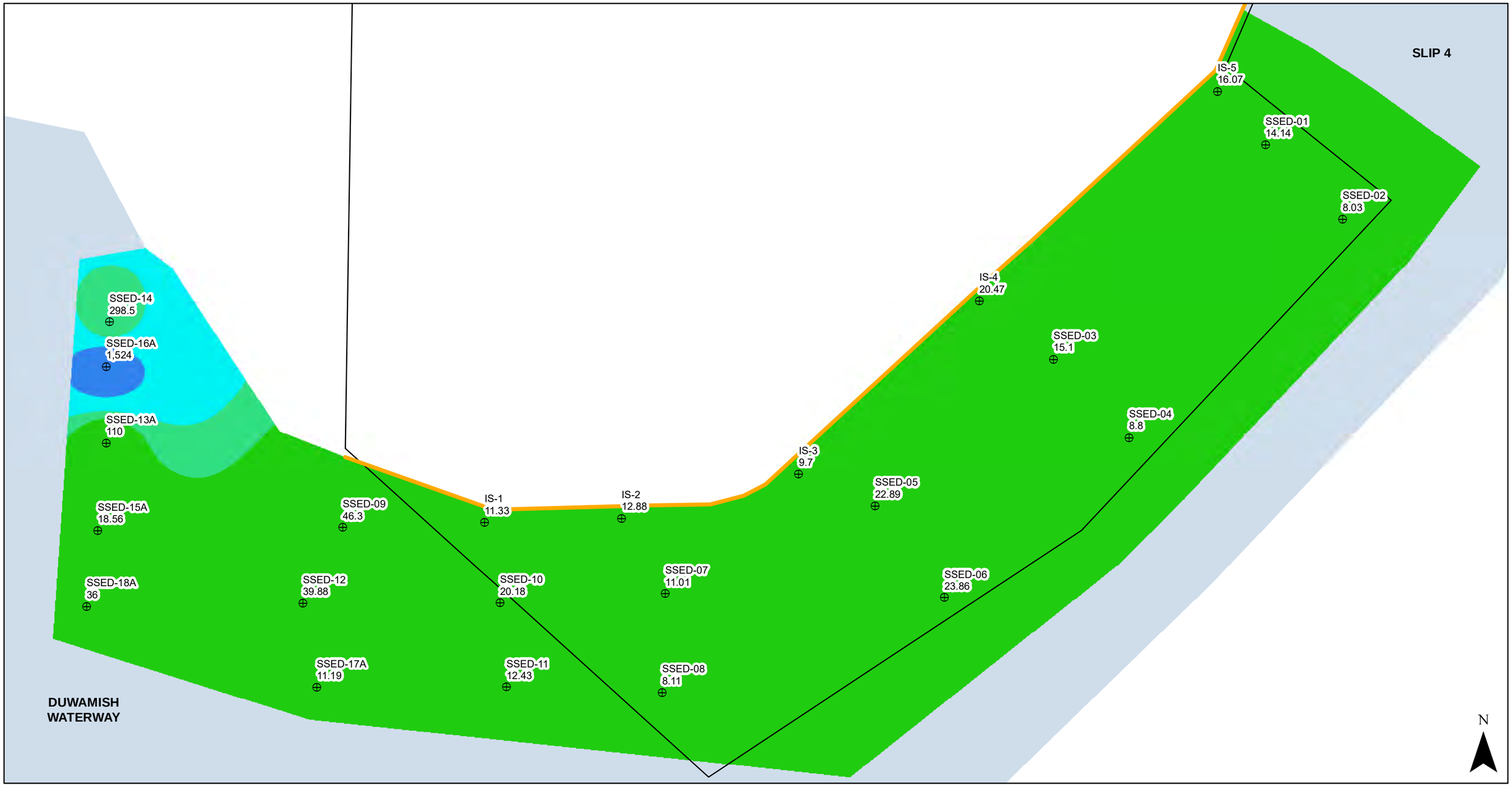
Figure No. 72

Figure

CONCENTRATIONS OF INDENO(1,2,3-C,D)PYRENE IN SURFACE SEDIMENT SAMPLES

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F72_SS_Indeno.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Total benzofluoranthenes(b,j,k) (mg/kg-OC)

- < 230 (screening level)
- 230 - 460 (2x)
- 460 - 1,150 (5x)
- 1,150 - 2,300 (10x)
- > 2,300

0 30 60 120 Feet

1 inch = 60 feet

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SEATTLE, WASHINGTON

Project No. 101.00205.00037

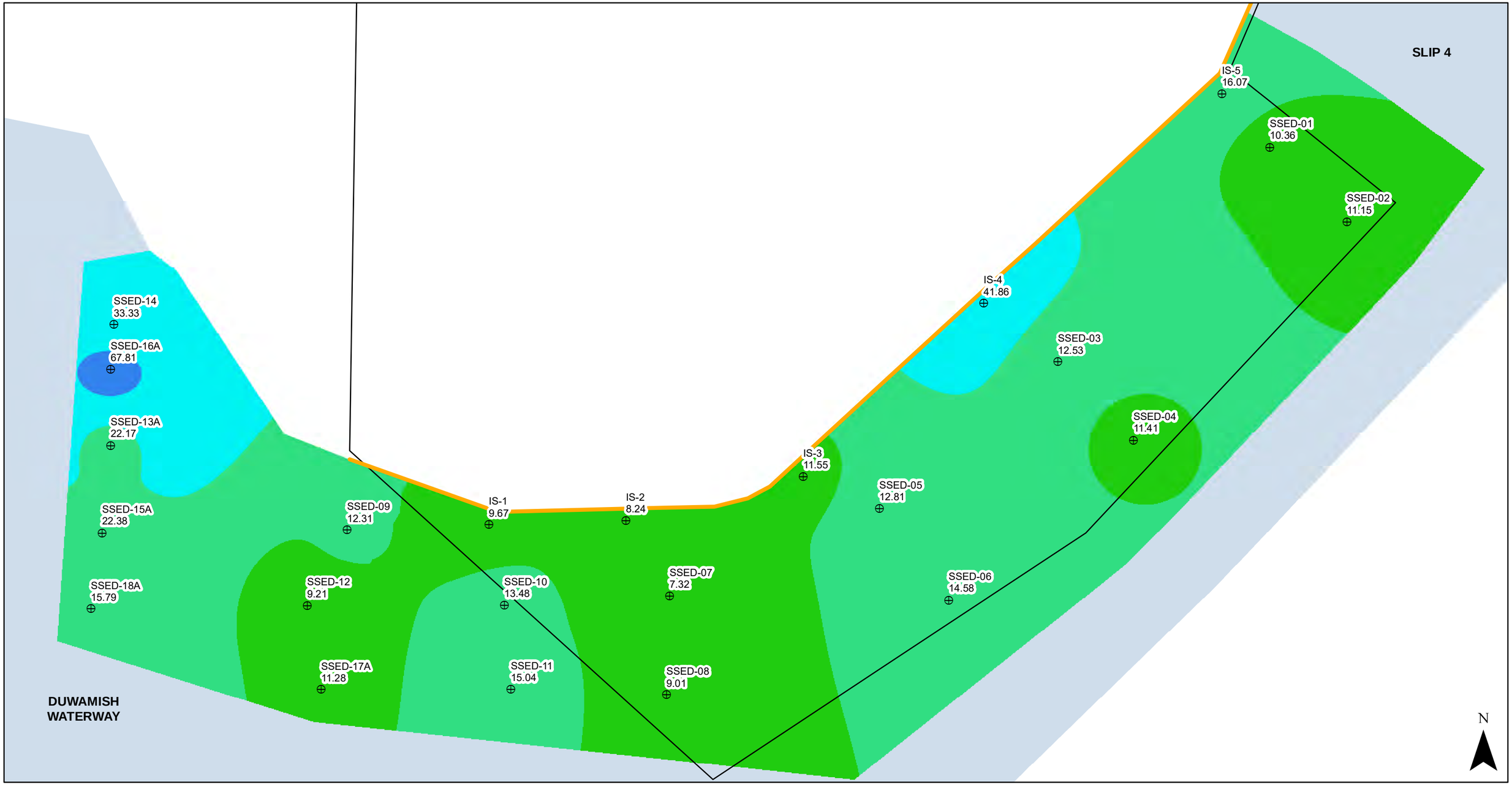
Figure No. 73

Figure

CONCENTRATIONS OF TOTAL BENZOFLUORANTHENES(B,J,K) (U=0) IN SURFACE SEDIMENT SAMPLES

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F73_SS_Benzo.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Total PCBs (mg/kg-OC)

- <12 (screening level)
- 12 - 24 (2x)
- 24 - 60 (5x)
- 60 - 120 (10x)
- > 120

0 30 60 120 Feet

1 inch = 60 feet

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SEATTLE, WASHINGTON

Project No. 101.00205.00037

Figure No. 74

Figure

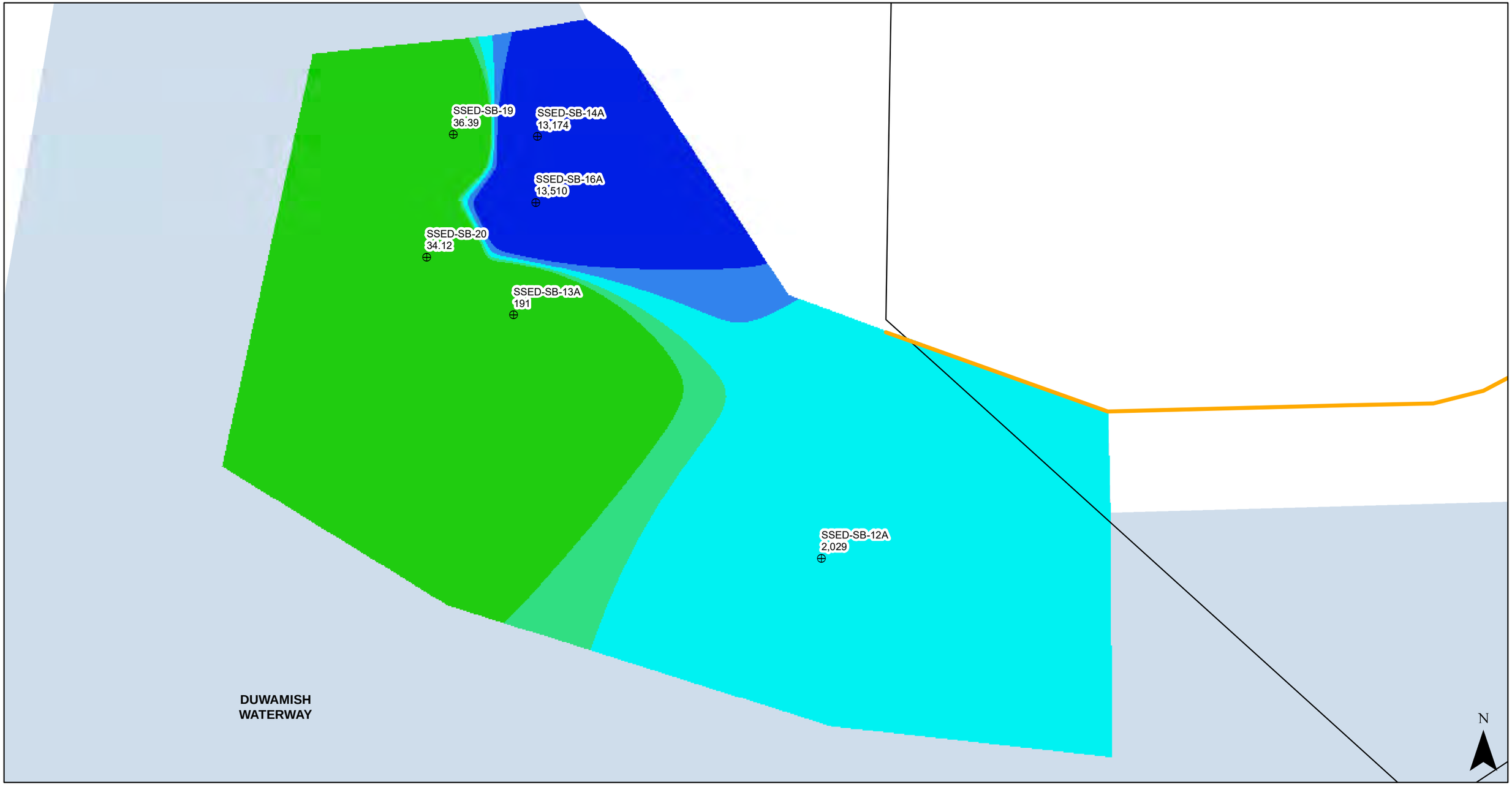
CONCENTRATIONS OF TOTAL PCBs
IN SURFACE SEDIMENT SAMPLES

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F74_SS_PCB.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Total cPAH TEQ (µg/kg)

- < 1,000 (screening level)
- 1,000 - 2,000 (2x)
- 2,000 - 5,000 (5x)
- 5,000 - 10,000 (10x)
- > 10,000

0 20 40 80 Feet

1 inch = 40 feet

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SEATTLE, WASHINGTON

Project No. 101.00205.00037

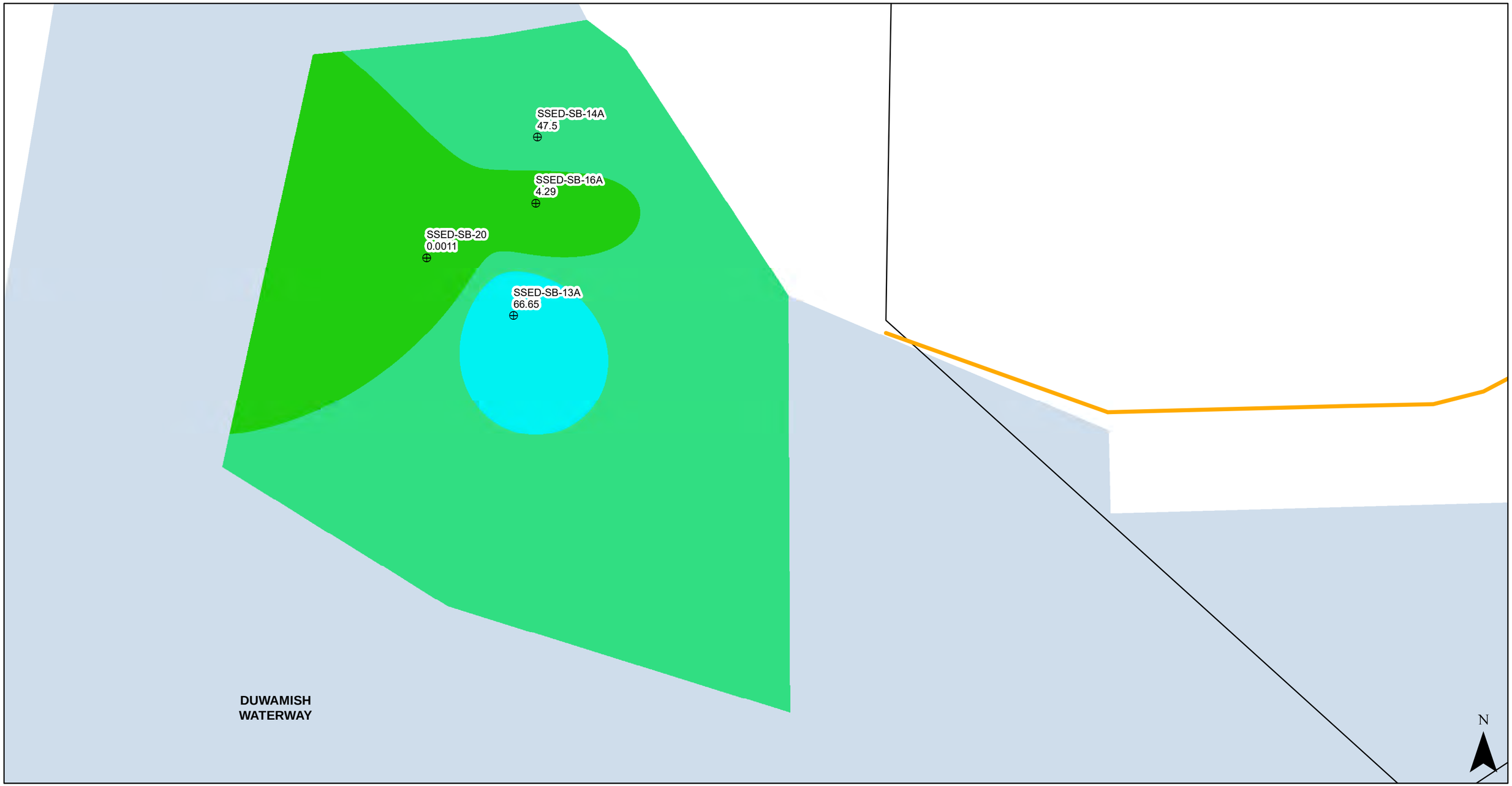
Figure No. 75

Figure

MAXIMUM CONCENTRATIONS OF TOTAL cPAHs TEQ
IN SUBSURFACE SEDIMENT SAMPLES

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205.00037\MXD\F75_SbS_PAH_5.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGATION LOCATION

Total Dioxins/Furans TEQ (ng/kg)

- < 25 (screening level)
- 25 - 50 (2x)
- 500 - 125 (5x)
- 125 - 250 (10x)
- > 500

0 20 40 80 Feet

1 inch = 40 feet

8TH AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

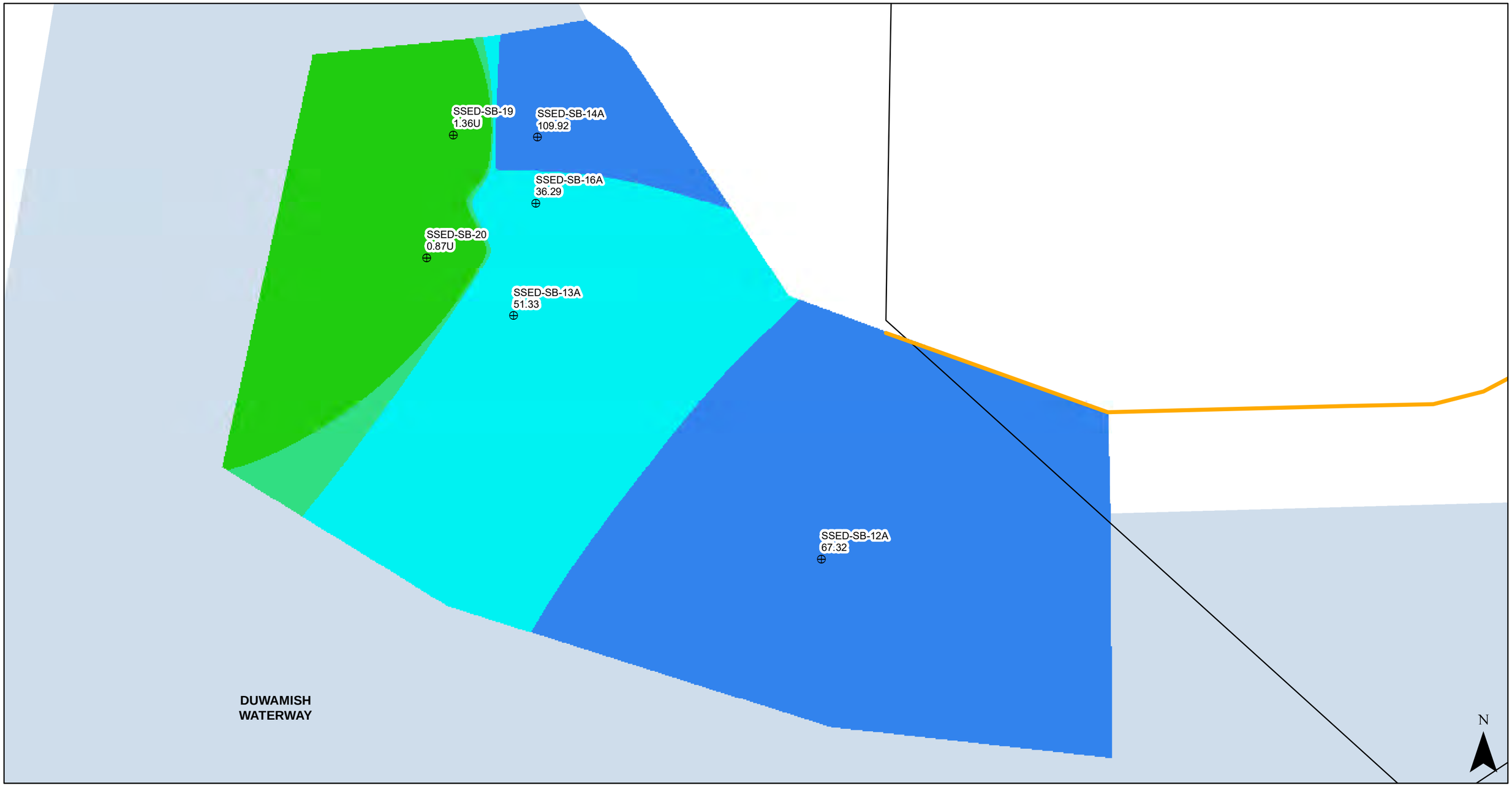
Project No. 101.00205.00037

Figure No. 76

Figure
MAXIMUM CONCENTRATIONS OF TOTAL DIOXINS/FURANS TEQ IN SUBSURFACE SEDIMENT SAMPLES

SLR
22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F76_SbS_DF.mxd



LEGEND

- SHEET PILE SEAWALL
- PROPERTY BOUNDARY
- ⊕ INVESTIGAITON LOCATION

Total PCBs (mg/kg-OC)

- < 12 (screening level)
- 12 - 24 (2x)
- 24 - 60 (5x)
- 60 - 120 (10x)
- > 120

0 20 40 80 Feet

1 inch = 40 feet

8TH AVENUE TERMINALS, INC. SITE
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SEATTLE, WASHINGTON

Project No. 101.00205.00037

Figure No. 77

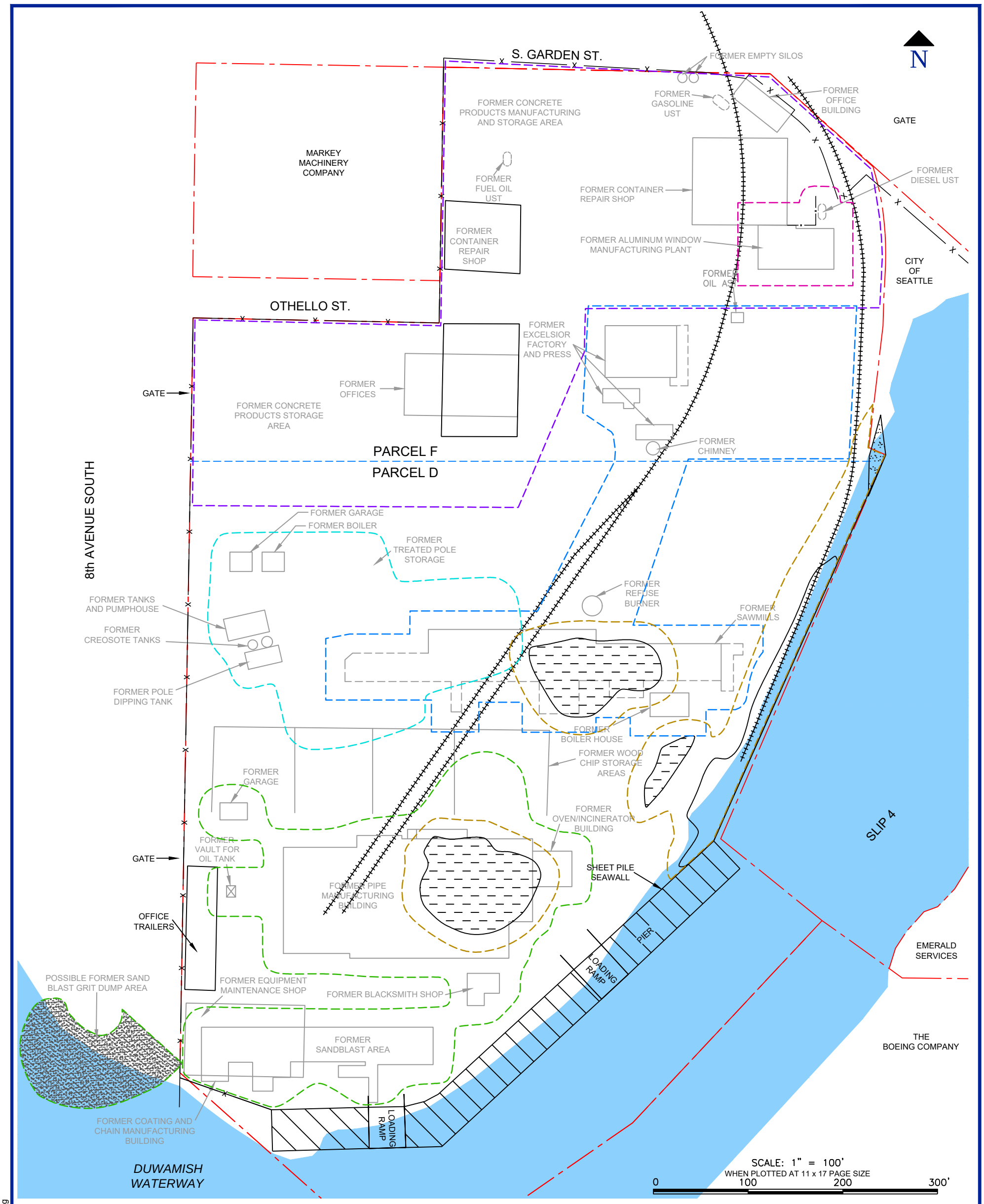
Figure
MAXIMUM CONCENTRATIONS OF TOTAL PCBs
IN SUBSURFACE SEDIMENT SAMPLES

SLR

22118 20TH AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021

T: 425-402-8800

Document Path: N:\Bothell\Apps\GIS\Crowley - 205 00037\MXD\F77_SbS_PCB_5.mxd



NOTES

1. DRAWING COMPILED FROM TRIAD ASSOCIATES, KIRKLAND, WA. SURVEY PLAN, DRAWING 06133-CC052908.DWG
2. LOCATIONS OF HISTORIC OPERATIONS FROM HART CROWSER (1991), SEACOR (1994), AND AERIAL PHOTOGRAPHS.

LEGEND

- PARCEL D/PARCEL F BOUNDARY
- PROPERTY BOUNDARIES
- FENCE
- SHEET PILE SEAWALL
- APPROX. LOCATION OF DREDGE FILL AREA
- APPROX. LOCATION OF SAND AND DREDGE FILL AREA
- POTENTIAL SOURCE AREA ASSOCIATED WITH FORMER WOOD TREATING OPERATIONS
- POTENTIAL SOURCE AREA ASSOCIATED WITH DREDGE FILL
- POTENTIAL SOURCE AREA ASSOCIATED WITH FORMER SAWMILL AND EXCELSIOR FACTORY AND PRESS OPERATIONS
- POTENTIAL SOURCE AREA ASSOCIATED WITH FORMER ALUMINUM WINDOW MANUFACTURING PLANT
- POTENTIAL SOURCE AREA ASSOCIATED WITH FORMER PIPE AND CHAIN MANUFACTURING OPERATIONS
- POTENTIAL SOURCE AREA ASSOCIATED WITH FORMER CONCRETE PRODUCTS MANUFACTURING AND STORAGE OPERATIONS

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SEATTLE, WASHINGTON

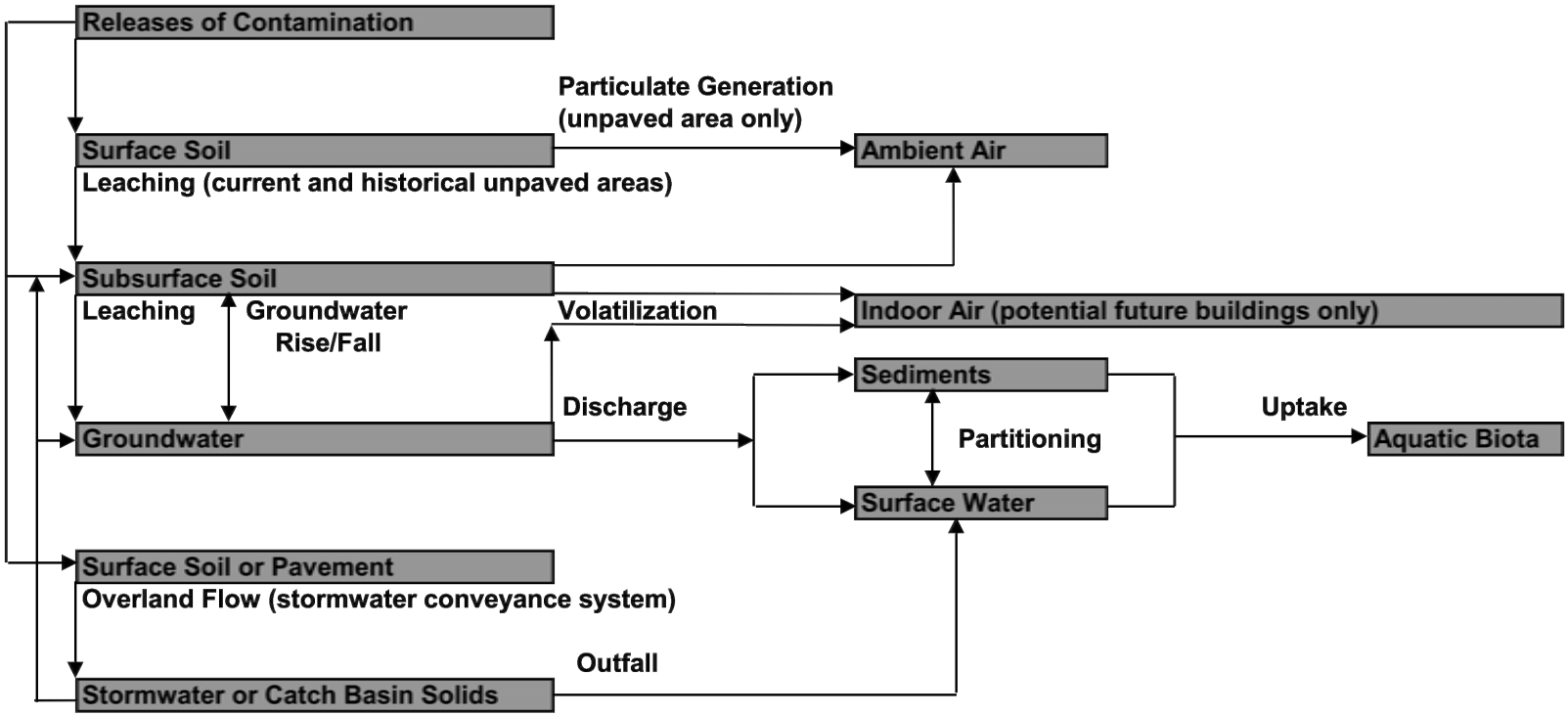
Drawing: LOCATIONS OF POTENTIAL CONTAMINANT SOURCE AREAS

Date	August 2, 2019	Scale	AS SHOWN
File Name	01-78	Project No.	101.00205.00037

Fig. No. 78

SLR
22118 20th AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800
F: 425-402-8488

N:\Bothell\1 PROJECTS\Crowley - 205\00037 Prepare Final RI Report\Figures\01-78.dwg



8th AVENUE TERMINALS, INC. SITE
7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Drawing
CONTAMINANT TRANSPORT MECHANISMS

Date August 2, 2019	Scale AS SHOWN	Fig. No. 79
File Name 01-79.dwg	Project No. 101.00205.00037	

SLR

Last Saved: August 02, 2019 10:37:42 AM by rkane Drawing path: N:\Bothell\1 PROJECTS\Crowley - 205\00037 Prepare Final RI Report\Figures\01-79.dwg

Media	Exposure Pathways	Human Receptors							Ecological Receptors
		Current On Site Industrial Workers	Current Property Visitors	Future On Site Industrial Workers	Future Property Visitors	Future Construction Workers	Current/ Future Fishermen	Current/ Future Recreational Beach Visitors	Current/ Future Aquatic Biota
Surface Soil	Incidental Ingestion	O	O	X	O	X			
	Dermal Contact	O	O	X	O	X			
Subsurface Soil	Incidental Ingestion			X	O	X			
	Dermal Contact			X	O	X			
Ambient Air	Inhalation of Particulates	O	O	X	O	X			
	Inhalation of Volatiles	O	O	O	O	O			
Indoor Air	Inhalation of Volatiles			X	O				
Groundwater	Incidental Ingestion					X			
	Dermal Contact					X			
Surface Water	Incidental Ingestion						O	O	X
	Dermal Contact						O	O	X
	Respiration								X
	Uptake								X
Sediments	Incidental Ingestion						O	X	X
	Dermal Contact						O	X	X
	Uptake								X
Aquatic Biota	Consumption						X	X	X

NOTES:
X = Pathway is considered potentially complete and significant based on existing information.
O = Pathway is considered potentially complete but insignificant based on existing information.
A blank cell indicates a pathway that is considered incomplete based on existing information.

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7400 8TH AVENUE SOUTH
SEATTLE, WASHINGTON

Drawing
RECEPTORS AND POTENTIAL EXPOSURE PATHWAYS

Date August 2, 2019	Scale AS SHOWN	Fig. No. 80
File Name 01-80.dwg	Project No. 101.00205.00037	

SLR

Last Saved: August 02, 2019 10:42:05 AM by rkane Drawing path: N:\Bothell\1 PROJECTS\Crowley - 205\00037 Prepare Final RI Report\Figures\01-80.dwg