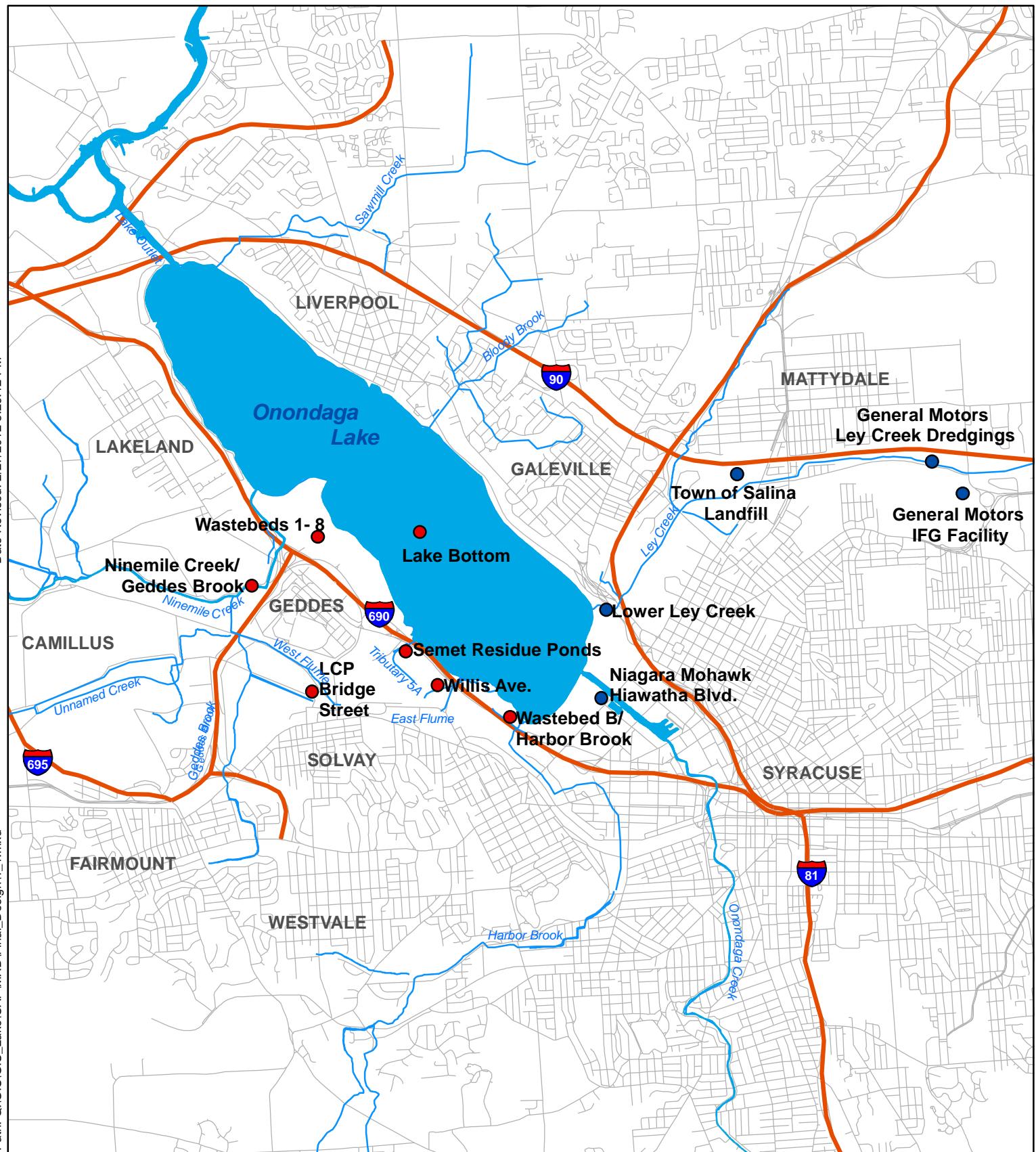


Date Revised: 2/27/2012 3:29:12 PM

Path: Q:\GIS\GIS_LakeCAP\MXD\Final_Design\1_1.mxd



- Honeywell NPL Site
- Non-Honeywell NPL Site



0 0.5 1 2
Miles

FIGURE 1.1

Honeywell Onondaga Lake
Syracuse, New York

Site Location

PARSONS

301 PLAINFIELD RD, SUITE 350; SYRACUSE, NY 13212



- Wastebed
- Sediment Management Unit (SMU) Boundary
- NYSDEC Wetlands
- Delineated Wetlands

Notes:

1. Wetland boundary delineations were performed during various upland site investigation programs.

2. Older wastebeds (A, C-H) are not relevant to lake remedial activities and therefore are not shown.



New York State Digital Orthoimagery from 2009

1,800 900 0 1,800
Feet

FIGURE 1.2

Honeywell Onondaga Lake
Syracuse, New York

Vicinity Wetlands and Wastebeds

PARSONS

301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212



■ Remediation Area Boundary
■ Sediment Management Unit (SMU) Boundary

■ Extent of ILWD in Littoral Zone

■ Willis/Semet IRM Barrier Wall

■ West Wall Portion of the WB-B/HB IRM

■ East Wall Portion of the WB-B/HB IRM

New York State Digital Orthoimagery from 2009

1,800 900 0 1,800
Feet

FIGURE 3.1

Honeywell Onondaga Lake Syracuse, New York

SMU Boundaries and Remediation Areas

PARSONS

301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212



- Delineated Wetland Boundaries
- Remediation Area Boundary
- Isolation Cap Area
- Dredge Area
- Sediment Management Unit (SMU) Boundary
- Groundwater Collection Trench

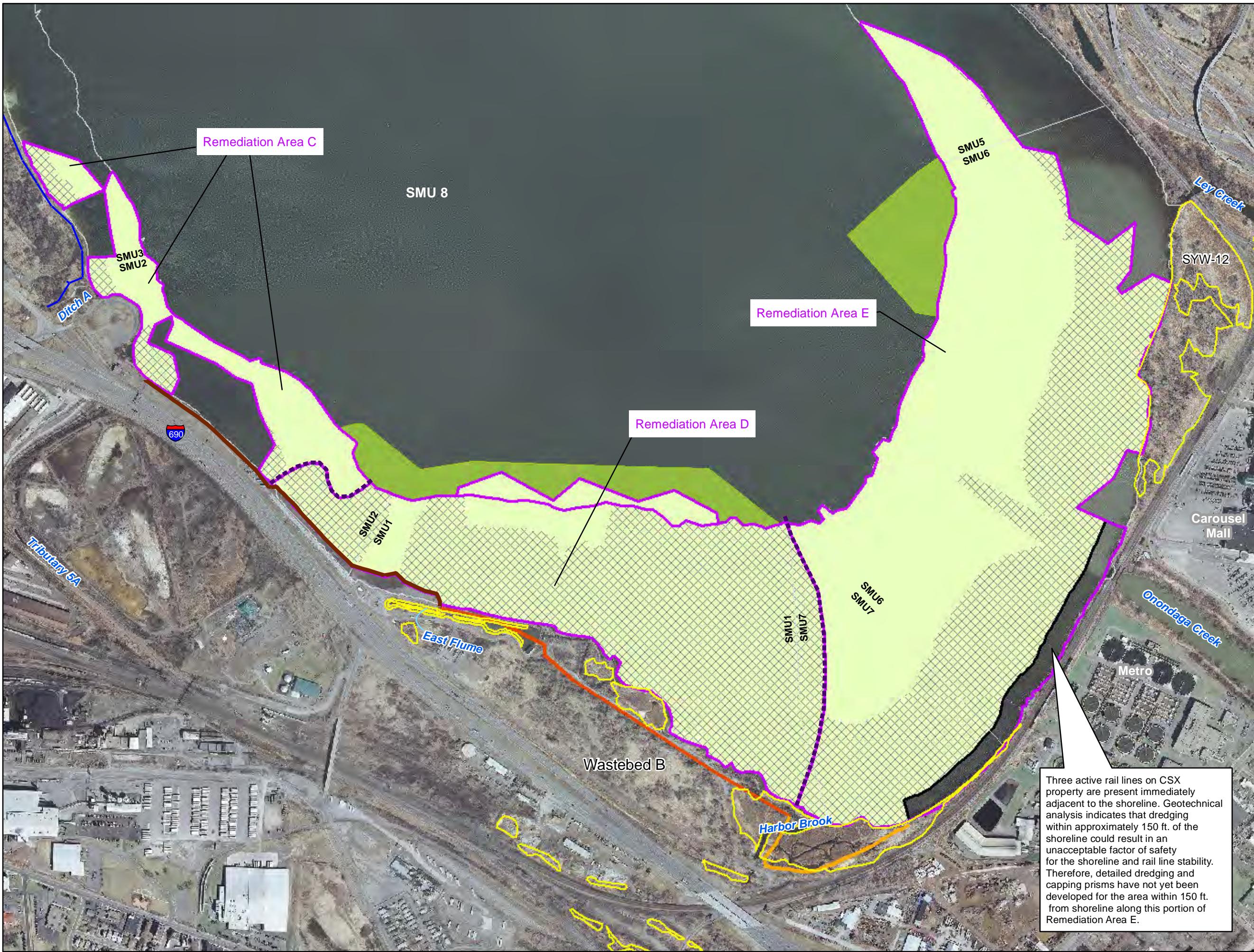


New York State Digital Orthoimagery from 2009

0 295 590 1,180
Feet

FIGURE 3.2

Honeywell Onondaga Lake
Syracuse, New York
Remediation Areas A & B
Dredge and Cap Areas
PARSONS
301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

**FIGURE 3.3****Honeywell** Onondaga Lake
Syracuse, New YorkRemediation Areas C, D, & E
Dredge & Cap Areas**PARSONS**

301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

Date Revised: 1/3/2011 5:22:27 PM

Path: Q:\GIS\GIS_Lake\CAP\MXD\Intermediate_Design\RemF.mxd

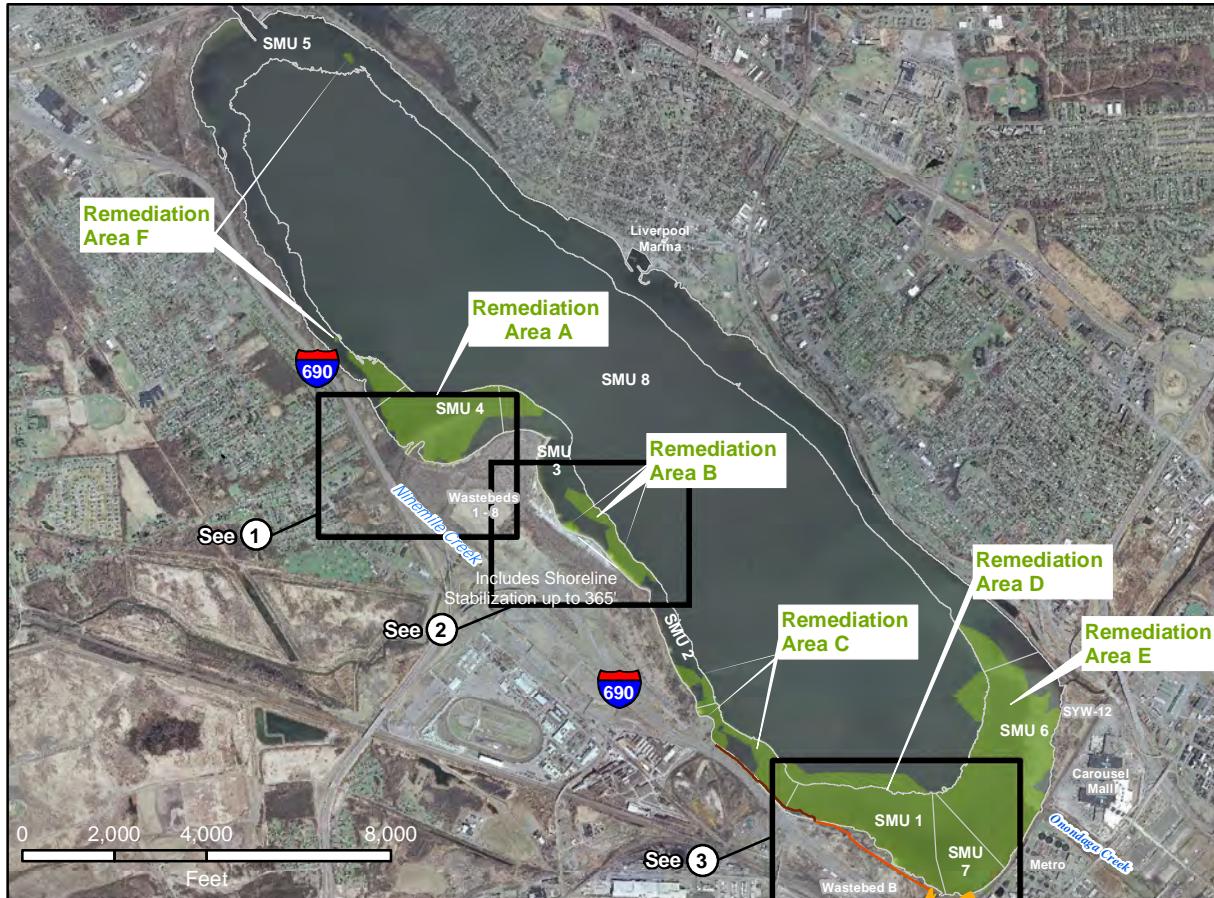


FIGURE 3.4

Honeywell Onondaga Lake
Syracuse, New York

Remediation Area F
Cap Area

PARSONS
301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212



Onondaga Lake Overall Site Plan



1 Ninemile Creek Spits



2 Wastebeds 1-8 Wetlands



3 Wastebed B/ Harbor Brook Outboard Area

- Sediment Management Unit (SMU) Boundary
- Remediation Area (Parsons, 2010)
- Wetland Areas included in the Onondaga Lake Design
- Willis/Semet IRM Barrier Wall
- West Wall Portion of the WB-B/HB IRM
- East Wall Portion of the WB-B/HB IRM
- Inland Wetlands included in WB 1-8 IRM Design

Path: Q:\GIS\GIS_Lake\CAP\MXD\Final_Design\adjacent_area_bnds.mxd

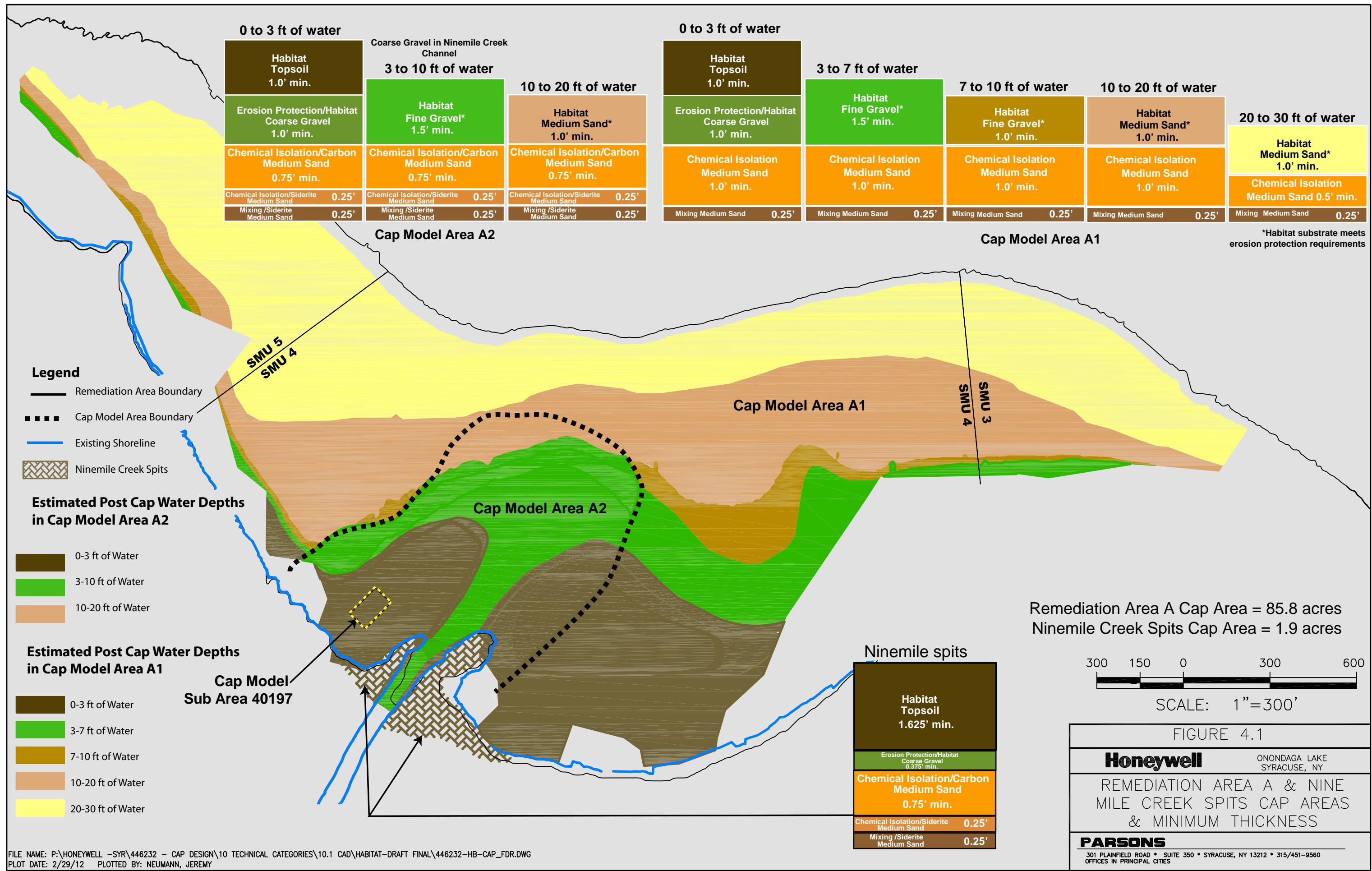
FIGURE 3.5

Honeywell Onondaga Lake Syracuse, New York

Adjacent Areas Included in Design

PARSONS

301 Plainfield Road, Suite 350; Syracuse, NY 13212





Cap Model Area
B2

SMU 3

0 to 4 ft of water

Habitat
Fine Gravel
1.0' min.

Habitat / Erosion Protection
Coarse Gravel
1.0' min.

Chemical Isolation/Carbon
Medium Sand
0.75' min.

Chemical Isolation/Siderite
Medium Sand 0.25'

Mixing /Siderite
Medium Sand 0.25'

4 to 10 ft of water

Habitat
Fine Gravel*
1.5' min.

Chemical Isolation/Carbon
Medium Sand
0.75' min.

Chemical Isolation/Siderite
Medium Sand 0.25'

Mixing /Siderite
Medium Sand 0.25'

10 to 30 ft of water

Habitat
Medium Sand*
1.0' min.

Chemical Isolation/Carbon
Medium Sand
0.75' min.

Chemical Isolation/Siderite
Medium Sand 0.25'

Mixing /Siderite
Medium Sand 0.25'

*Habitat substrate meets
erosion protection
requirements

0 to 3 ft of water

Habitat
Topsoil
1.625' min.

Erosion Protection/Habitat
Coarse Gravel
0.375' min.

Chemical Isolation/Carbon
Medium Sand
0.75' min.

Chemical Isolation/Siderite
Medium Sand 0.25'

Mixing /Siderite
Medium Sand 0.25'

Cap Model Area
B1

Legend

— Remediation Area Boundary

■ ■ ■ Cap Model Area Boundary

— Existing Shoreline

Connected Wetland

Estimated Post Cap Water Depths

0-4 ft of Water

4-10 ft of Water

10-30 ft of Water

Wastebed 1-8 Connected Wetland



SCALE: 1"=250'

FIGURE 4.2

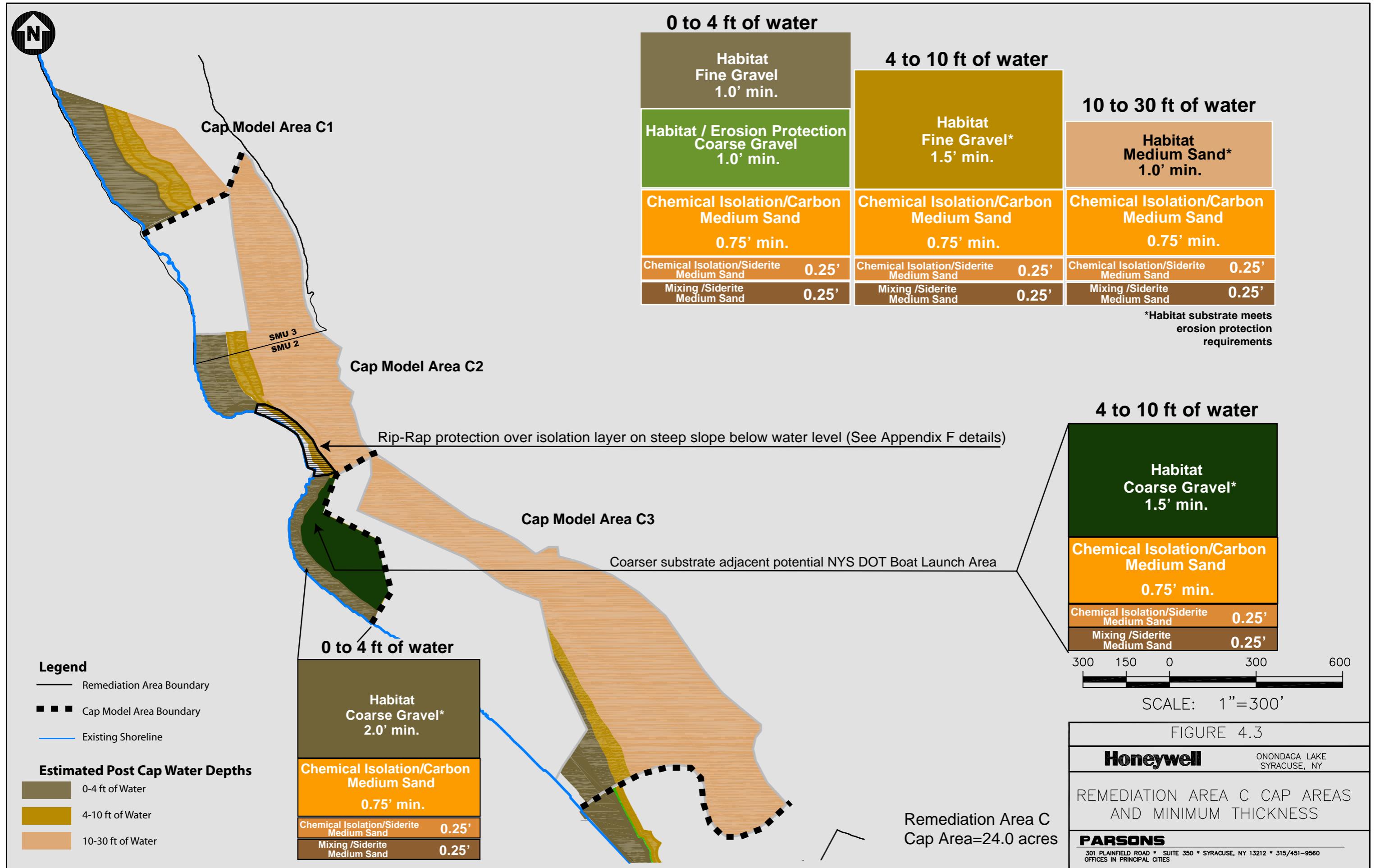
Honeywell

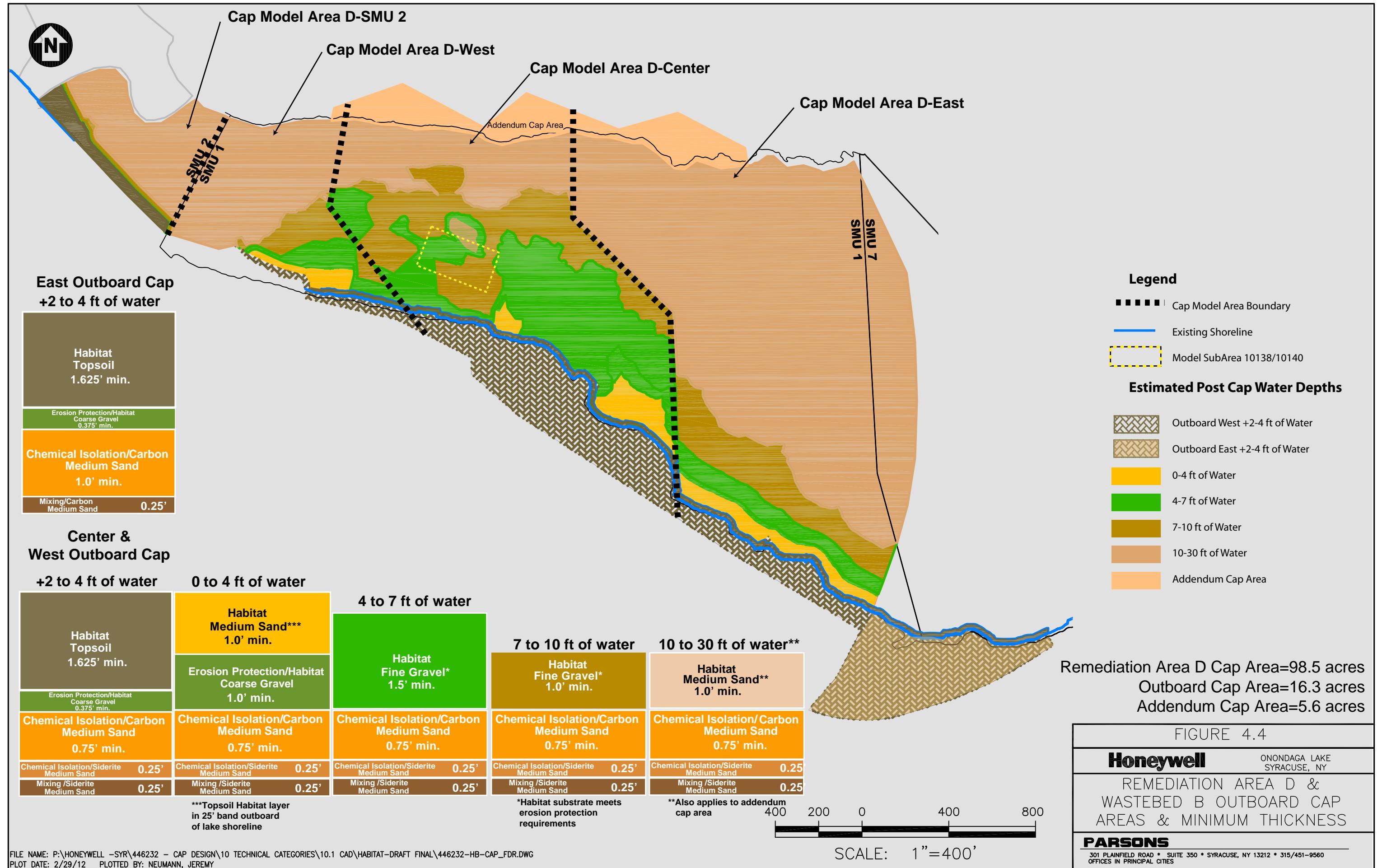
ONONDAGA LAKE
SYRACUSE, NY

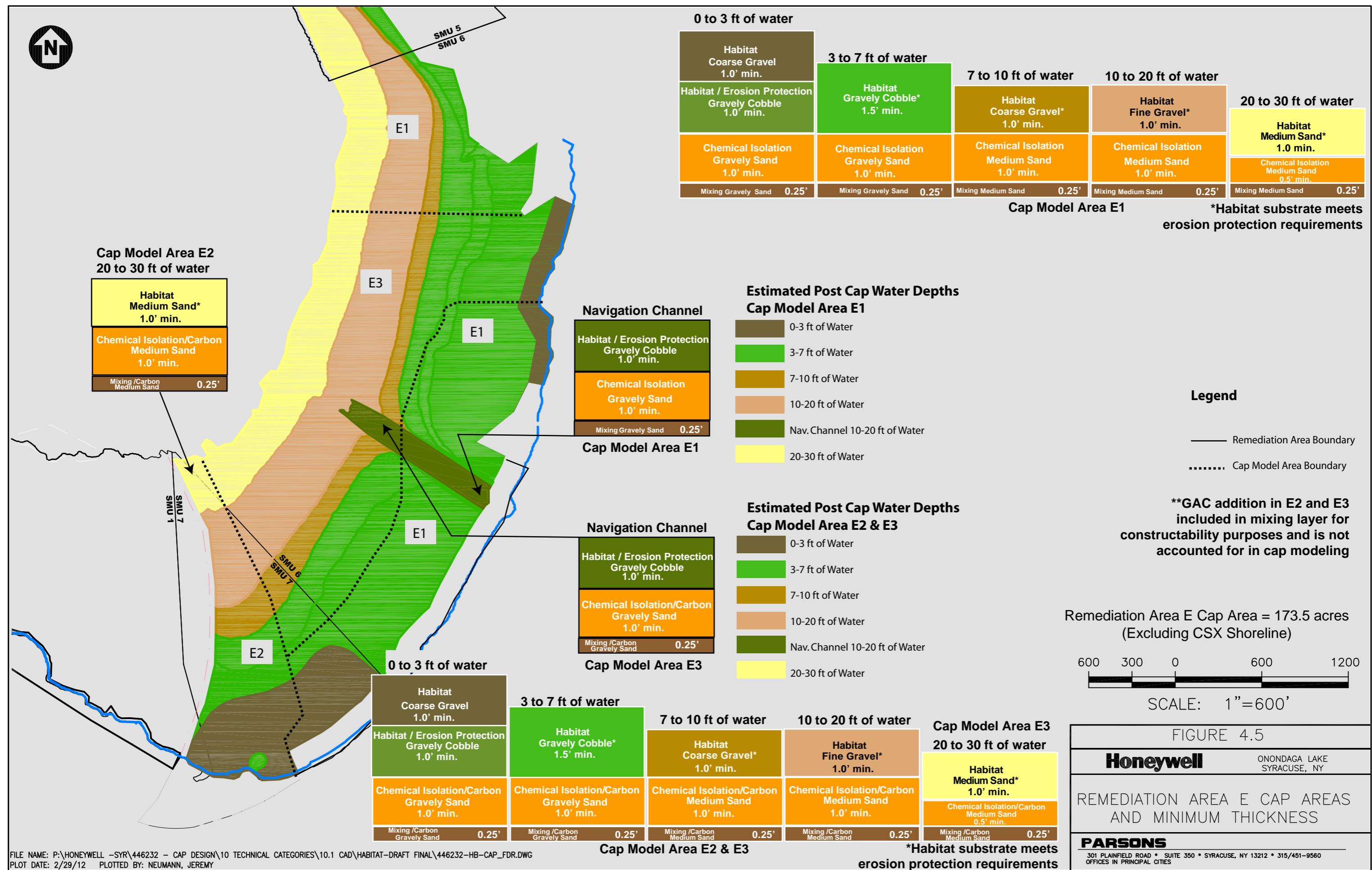
REMEDIATION AREA B & WB 1-8
CONNECTED WETLAND CAP AREAS
AND MINIMUM THICKNESS

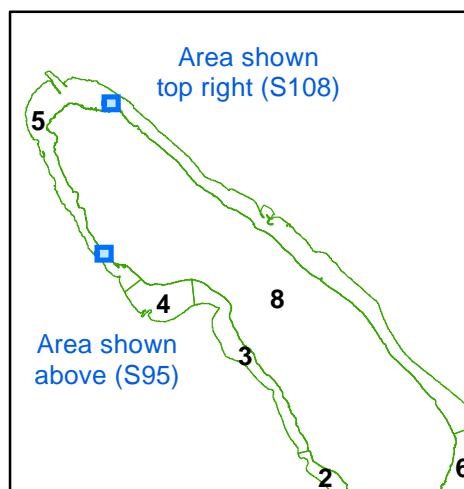
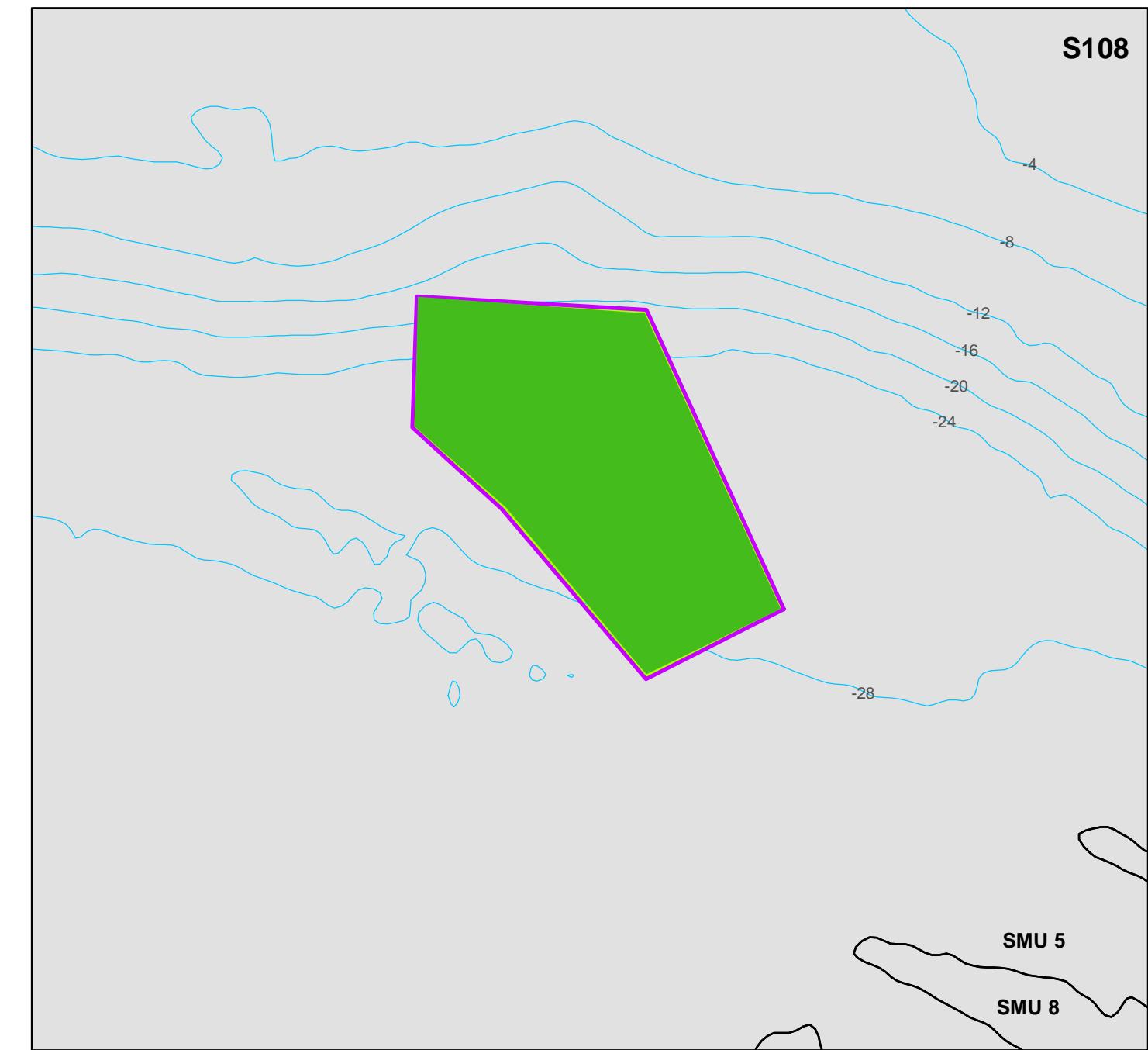
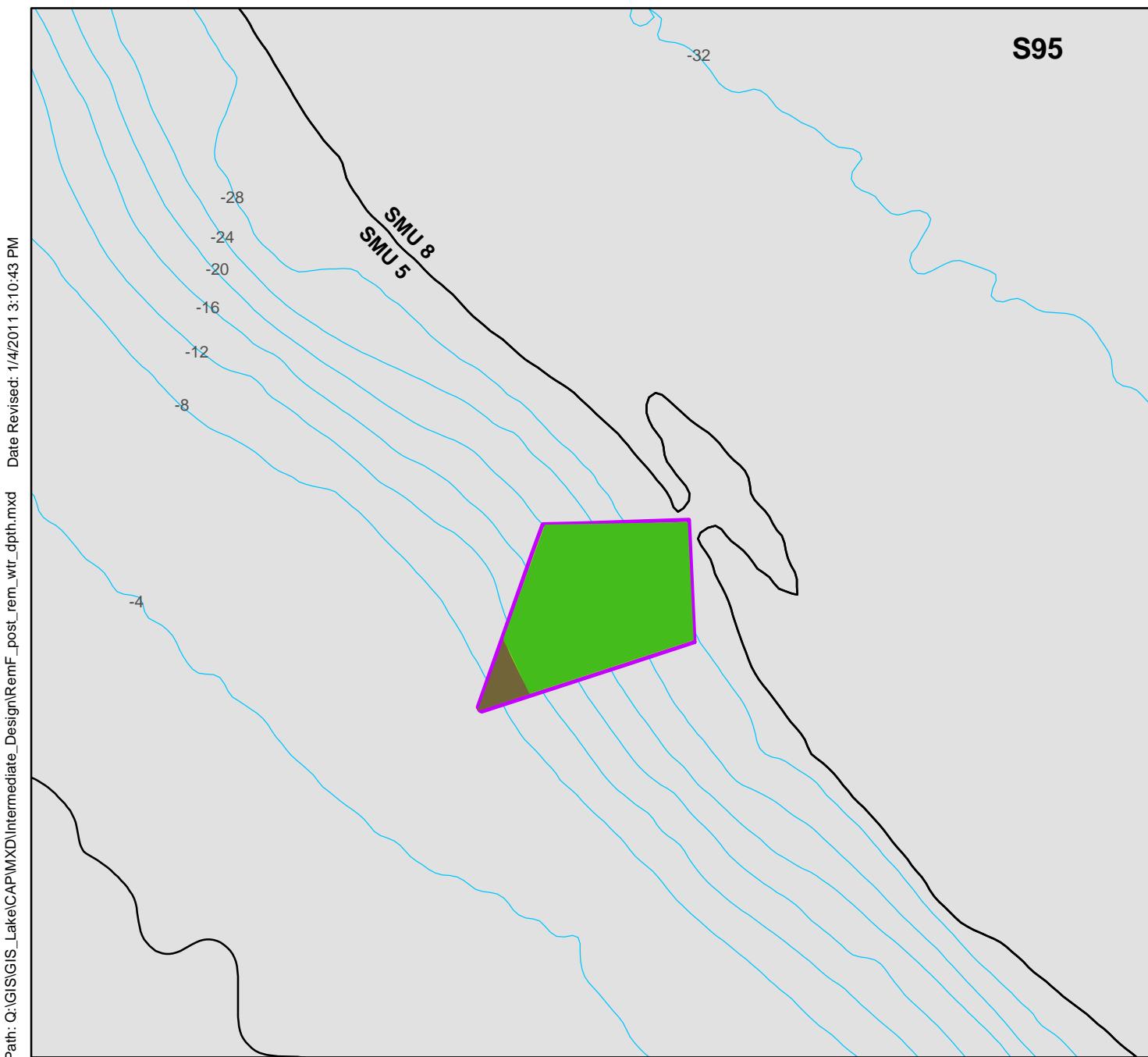
PARSONS

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OFFICES IN PRINCIPAL CITIES









Legend

- Remediation Area Boundary
- SMU Boundary
- Current Bathymetry in 4 ft. Intervals

Estimated Post Cap Water Depths

3 - 7 ft of Water	7 - 30 ft of Water
-------------------	--------------------

3 to 7 ft of water

Habitat/Erosion Protection Fine Gravel 1.5' min.
--

7 to 30 ft of water

Habitat/Erosion Protection Medium Sand 1.0' min.
--

**Chemical Isolation
Medium Sand
1.0' min.**

Medium Sand 0.25'

Habitat/Erosion Protection Medium Sand 1.0' min.
--

**Chemical Isolation
Medium Sand
1.0' min.**

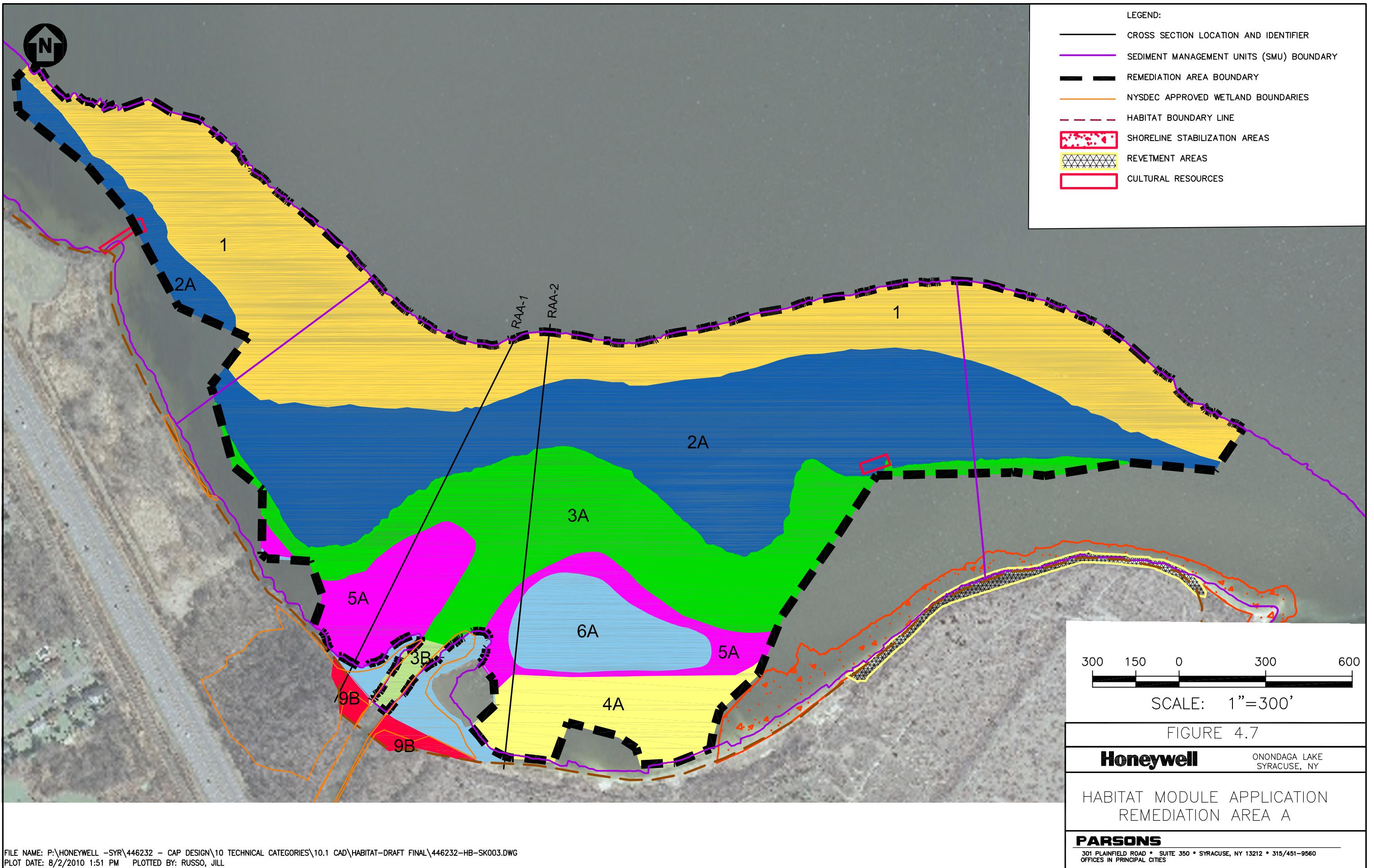
Medium Sand 0.25'

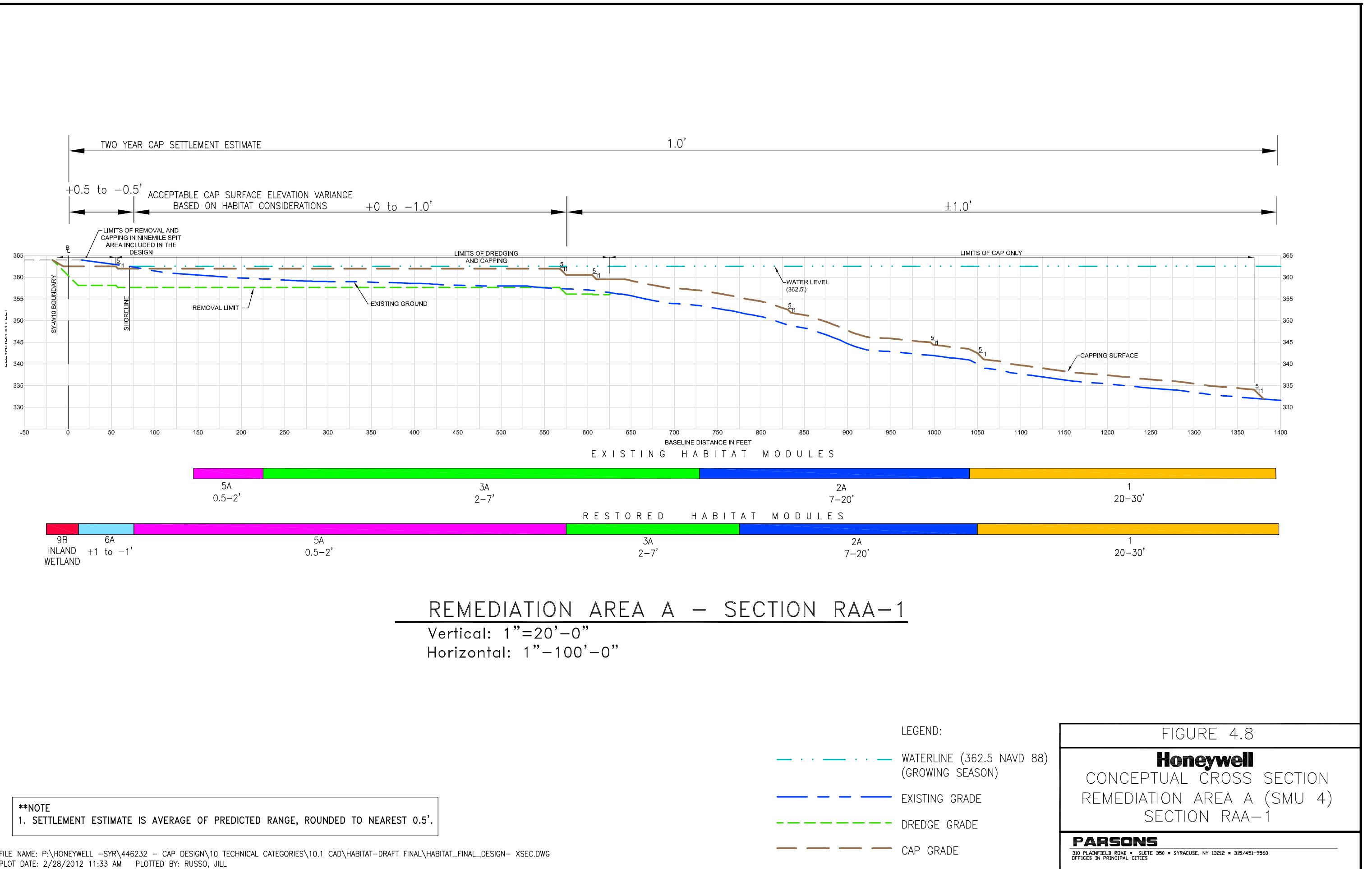
Remediation Area F Cap Area = 0.6 Acres

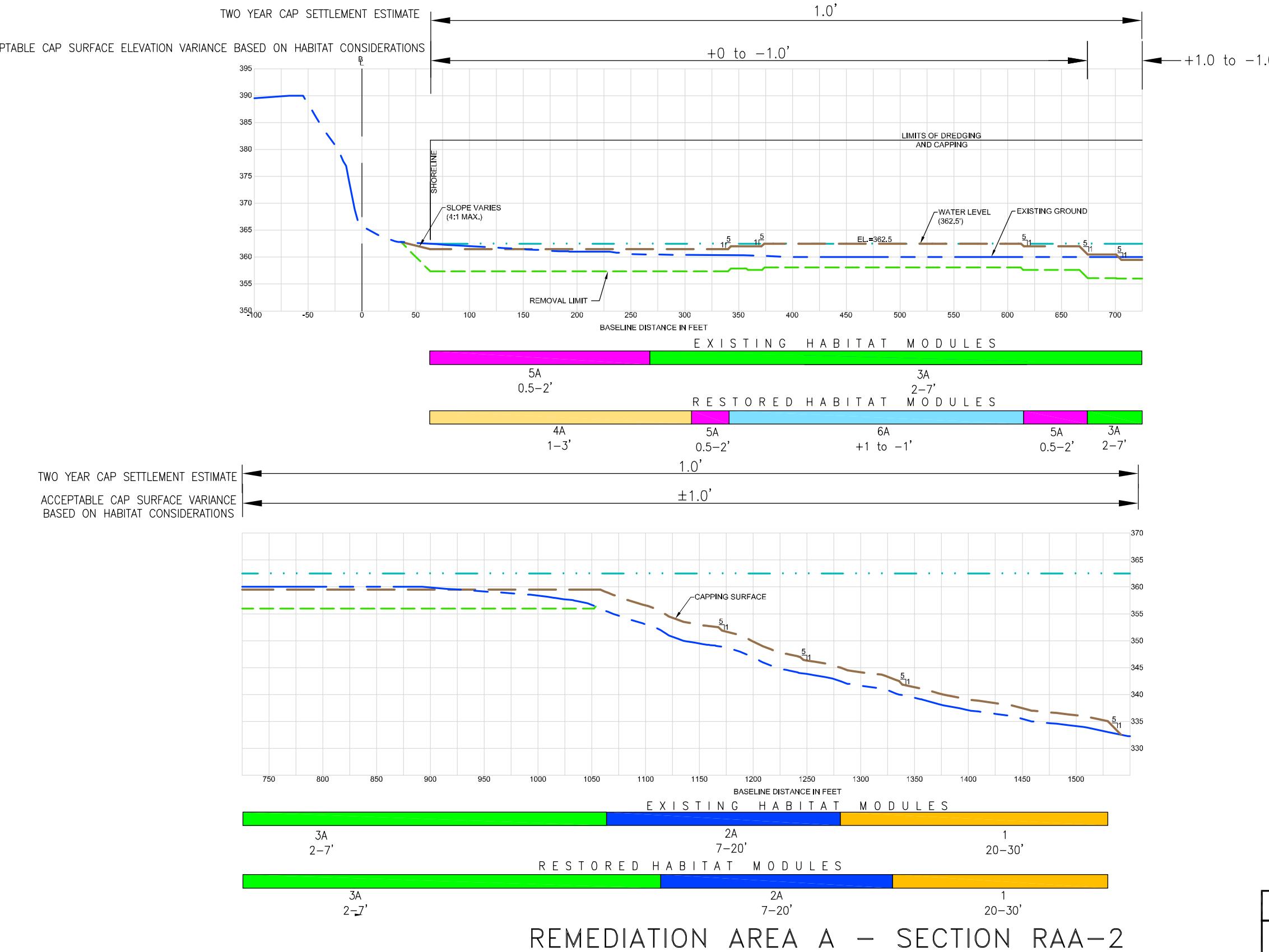
0 50 100 200
Feet

FIGURE 4.6

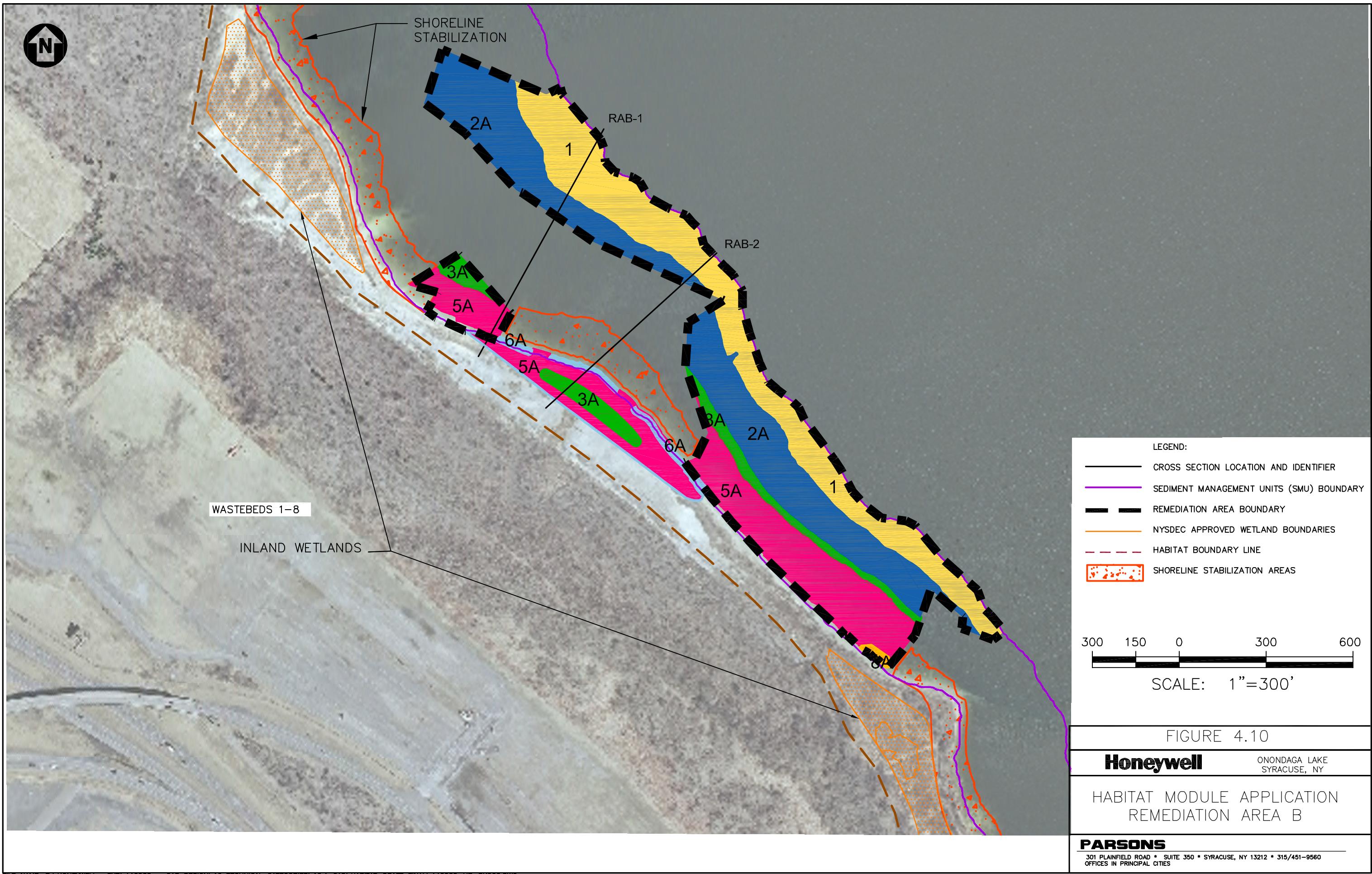
Honeywell Onondaga Lake Syracuse, New York
Remediation Area F Cap Area And Minimum Thicknesses
PARSONS 301 PLAINFIELD RD, SUITE 350, SYRACUSE, NY 13212

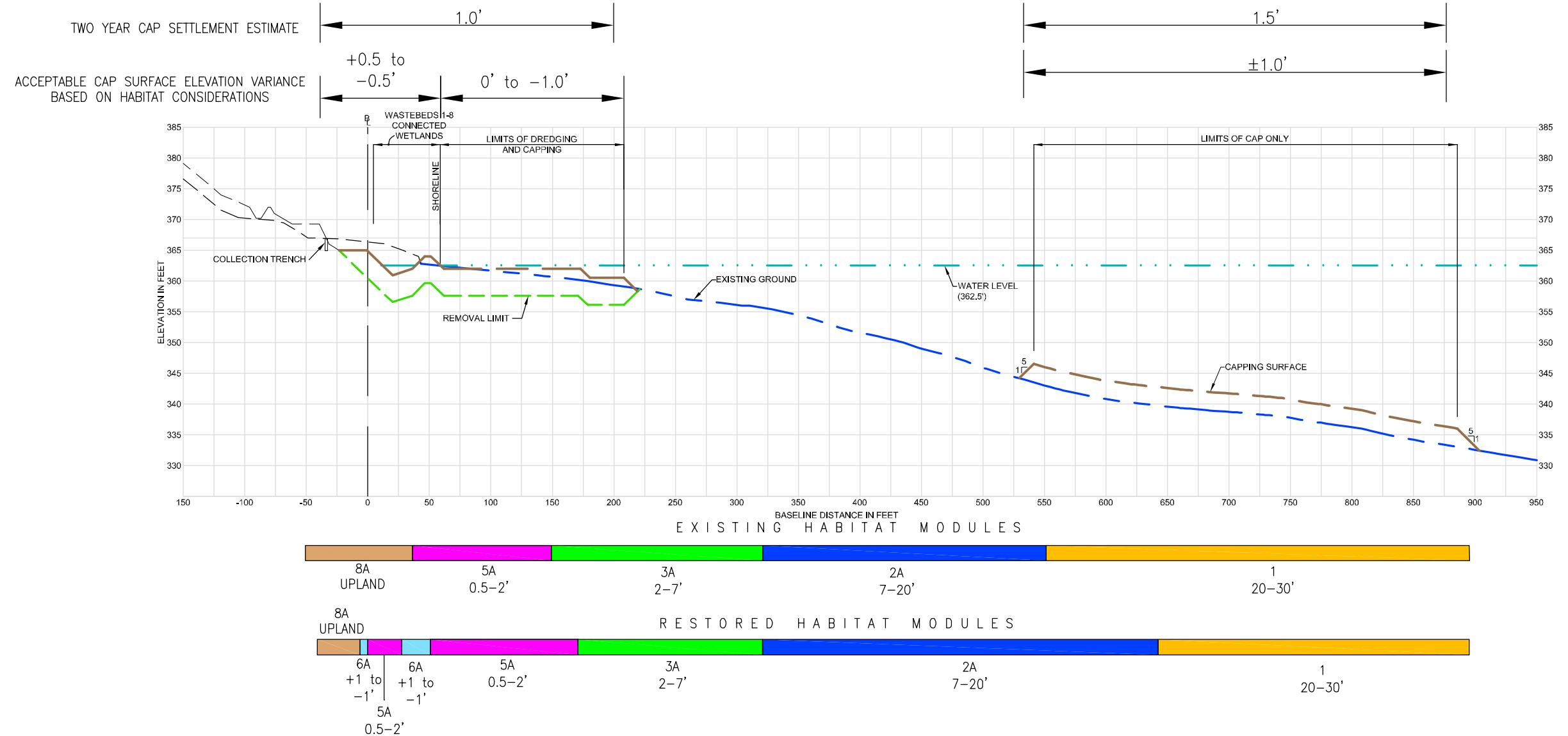






**NOTE
1. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.





REMEDIATION AREA B – SECTION RAB-1

Vertical: 1" = 20' - 0"
Horizontal: 1" = 100'

**NOTE
1. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

FILE NAME: P:\HONEYWELL -SYR\446232 - CAP DESIGN\10 TECHNICAL CATEGORIES\10.1 CAD\HABITAT-DRAFT FINAL\HABITAT_FINAL_DESIGN-XSEC.DWG
PLOT DATE: 2/28/2012 11:34 AM PLOTTED BY: RUSSO, JILL

LEGEND

- WATERLINE (362.5 NAVD 88)
(GROWING SEASON)

- EXISTING GRADE

DREDGE GRADE

CAP GRADE

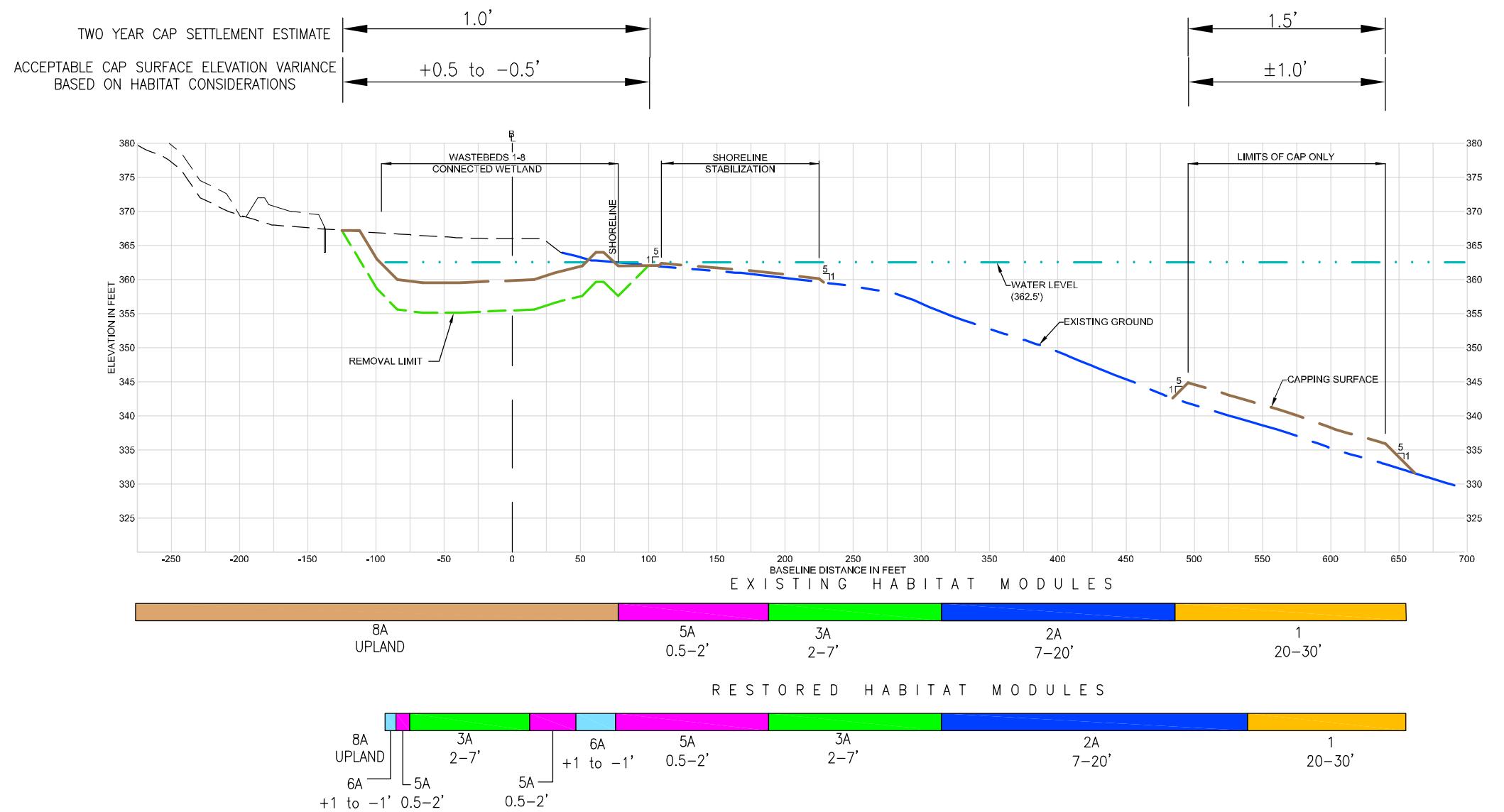
FIGURE 4.11

Honeywell

CONCEPTUAL CROSS SECTION
REMEDIATION AREA B (SMU 3)
SECTION RAB-1

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REMEDIATION AREA B – SECTION RAB-2

Vertical: 1"=20'-0"

Horizontal: 1"-100'-0"

LEGEND:

- · · · · — WATERLINE (362.5 NAVD 88)
(GROWING SEASON)
- - - - - EXISTING GRADE
- - - - - DREDGE GRADE
- — — — — CAP GRADE

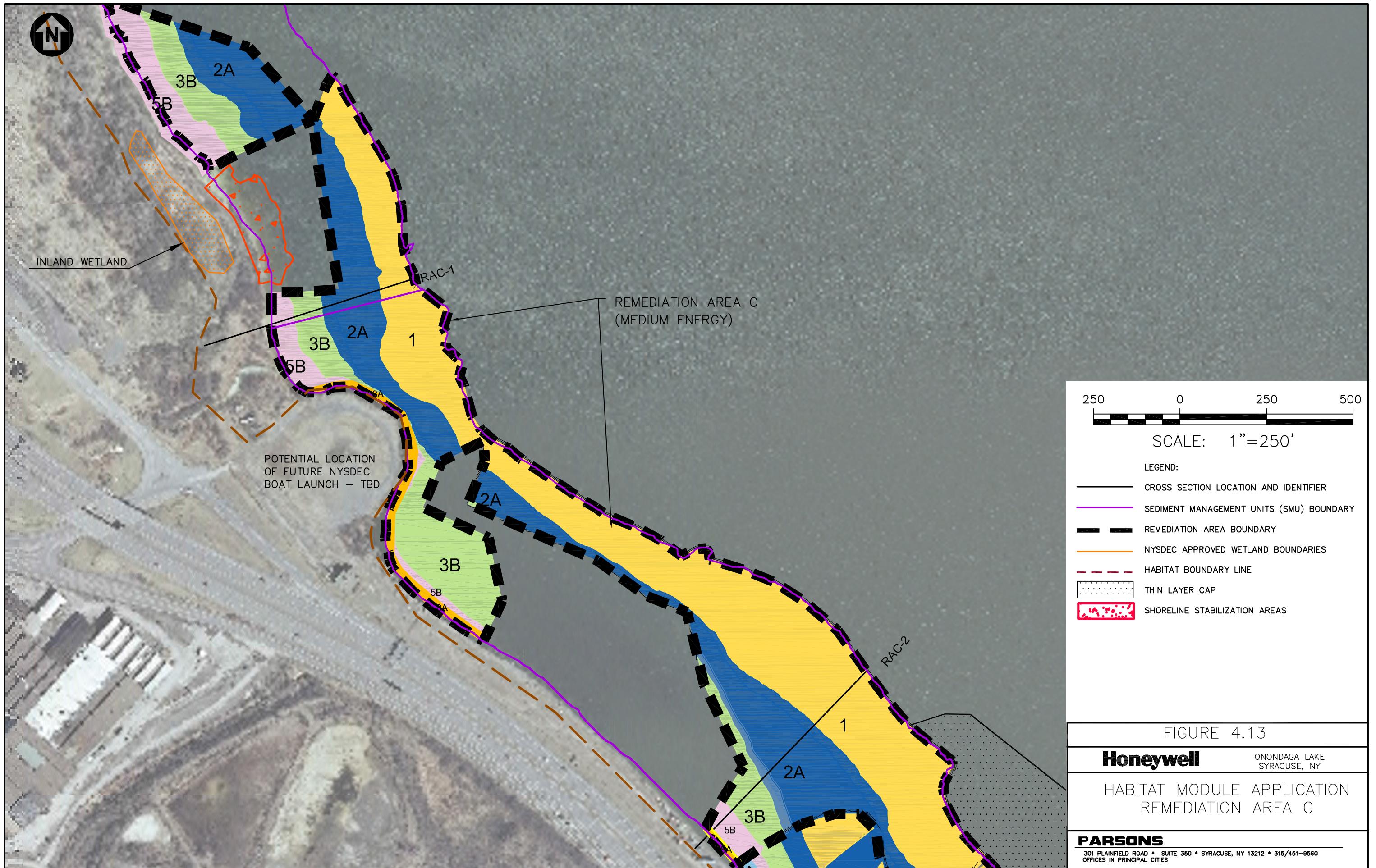
****NOTE**
1. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

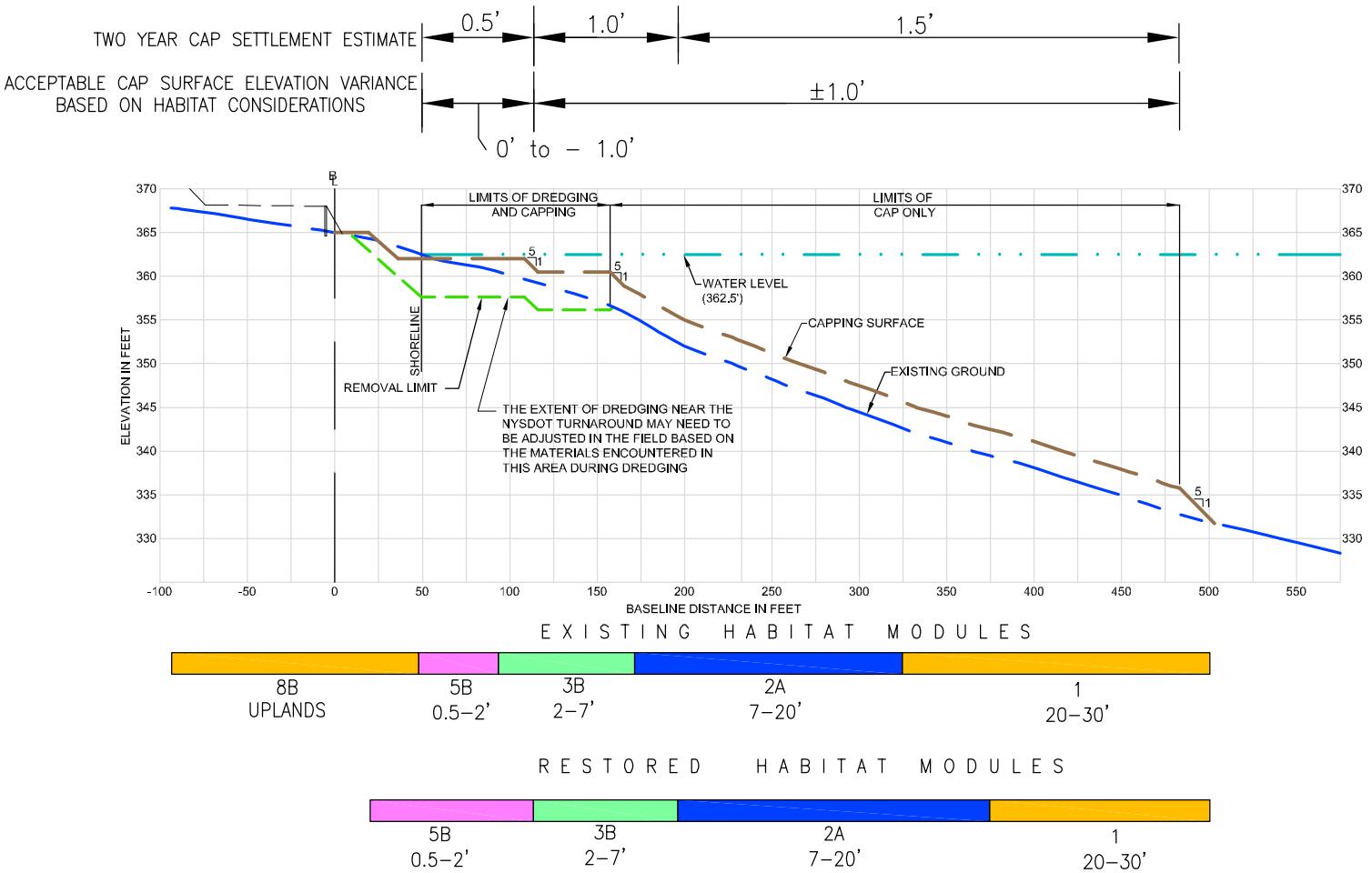
FIGURE 4.12

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA B (SMU 3)
SECTION RAB-2

PARSONS

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REMEDIATION AREA C – SECTION RAC-1

Vertical: 1"=20'-0"

Horizontal: 1"-100'-0"

****NOTE**
1. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

LEGEND:

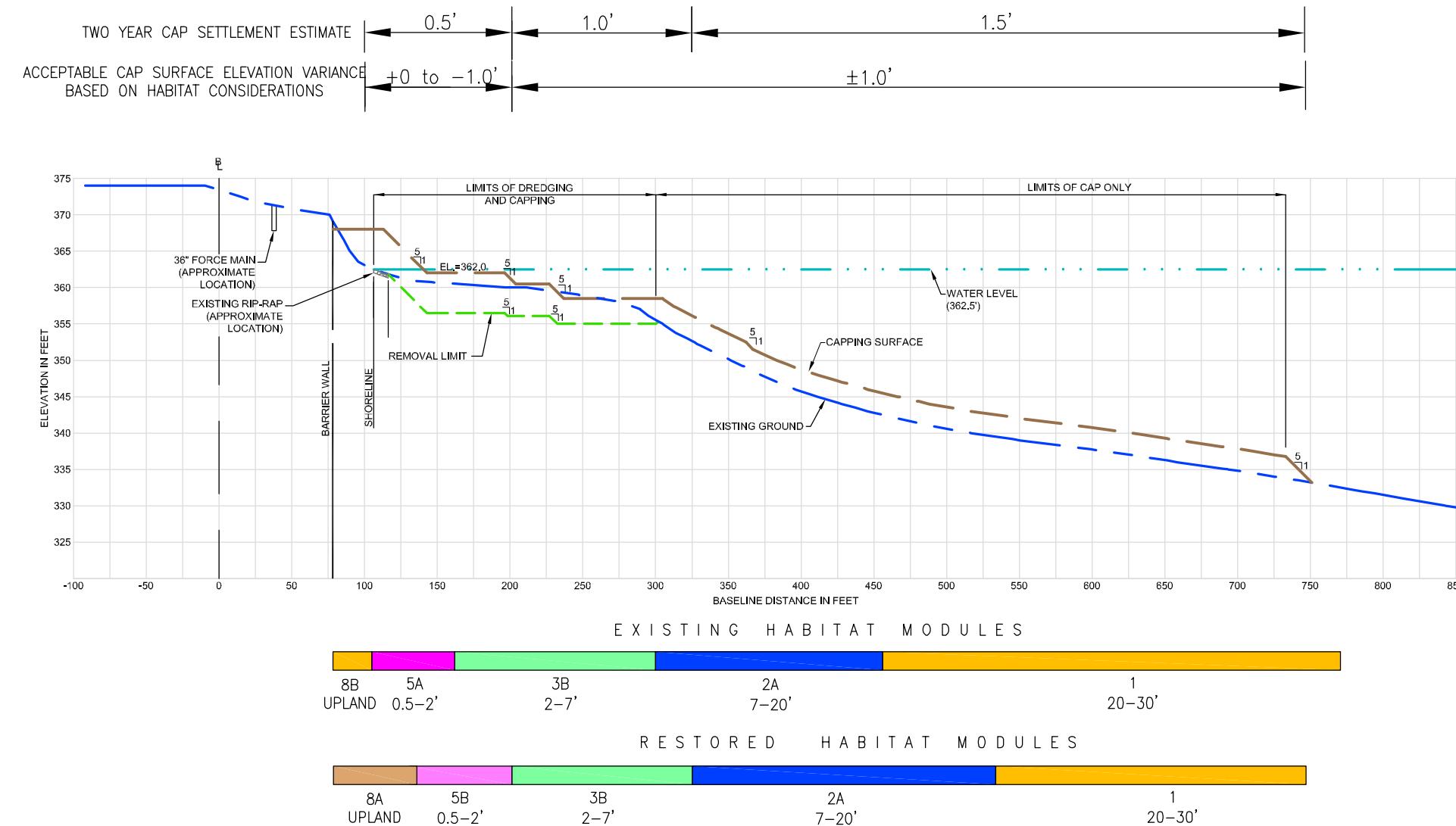
- . . . — WATERLINE (362.5 NAVD 88) (GROWING SEASON)
- - - - - EXISTING GRADE
- - - - - DREDGE GRADE
- - - - - CAP GRADE

FIGURE 4.14

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA C (SMU 2)
SECTION RAC-1

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REMEDIATION AREA C – SECTION RAC-2

Vertical: 1"=20'-0"

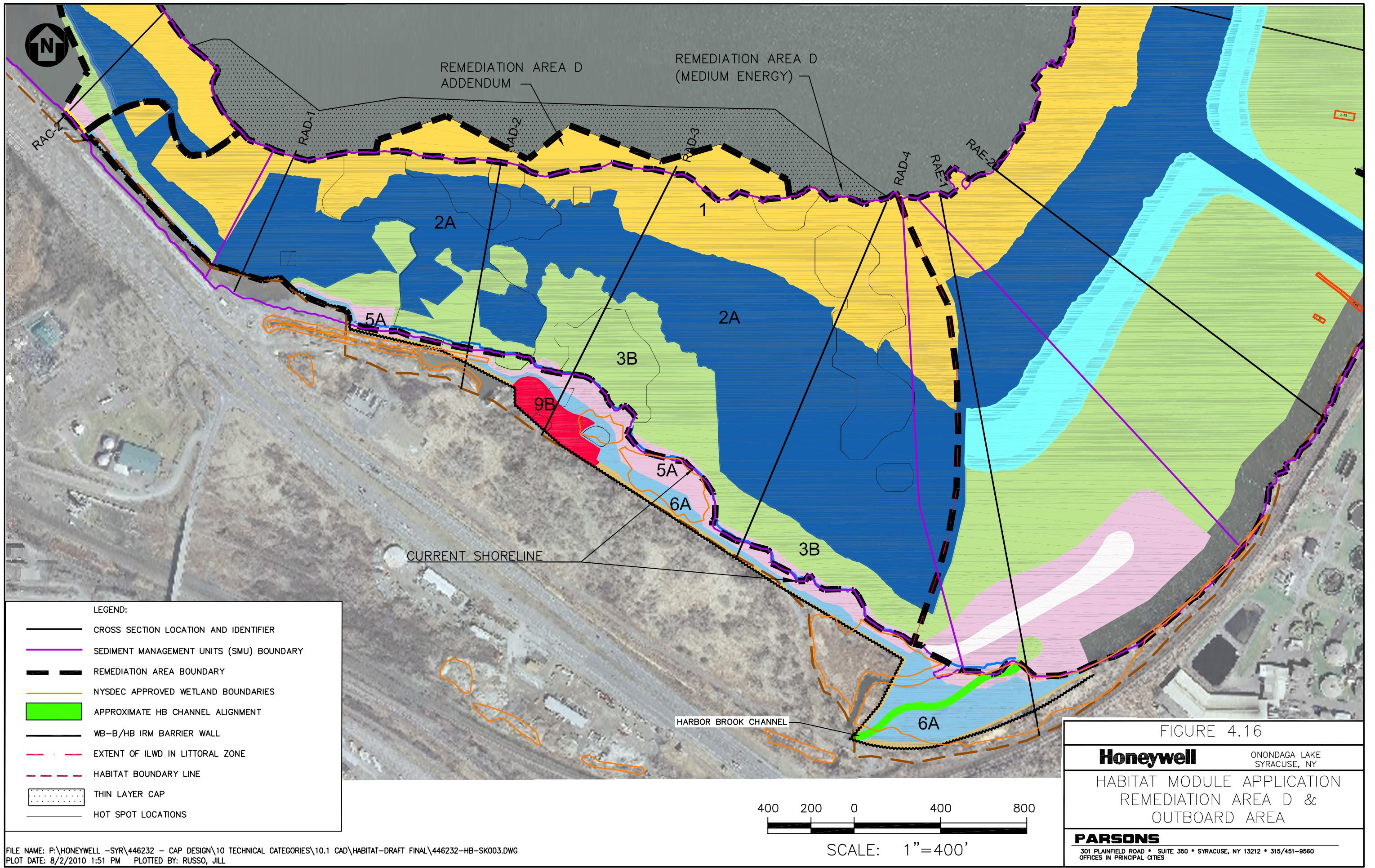
Horizontal: 1"-100'-0"

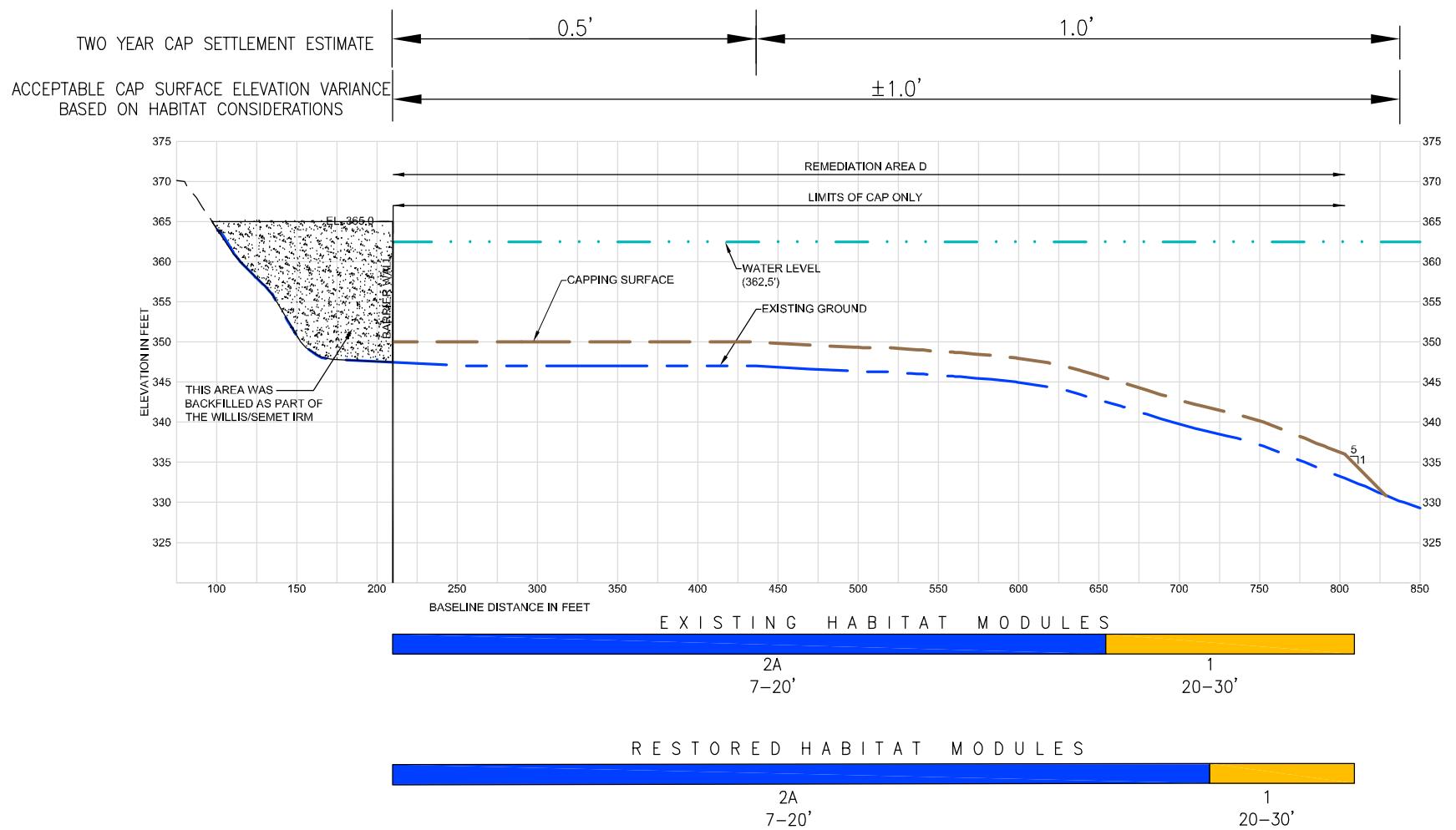
****NOTE**
1. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

- LEGEND:
- · · · · — WATERLINE (362.5 NAVD 88)
(GROWING SEASON)
 - · — · — EXISTING GRADE
 - · — · — DREDGE GRADE
 - · — · — CAP GRADE

FIGURE 4.15

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA C (SMU 2)
SECTION RAC-2





REMEDIATION AREA D – SECTION RAD-1

Vertical: 1"=20'-0"
Horizontal: 1"-100'-0"

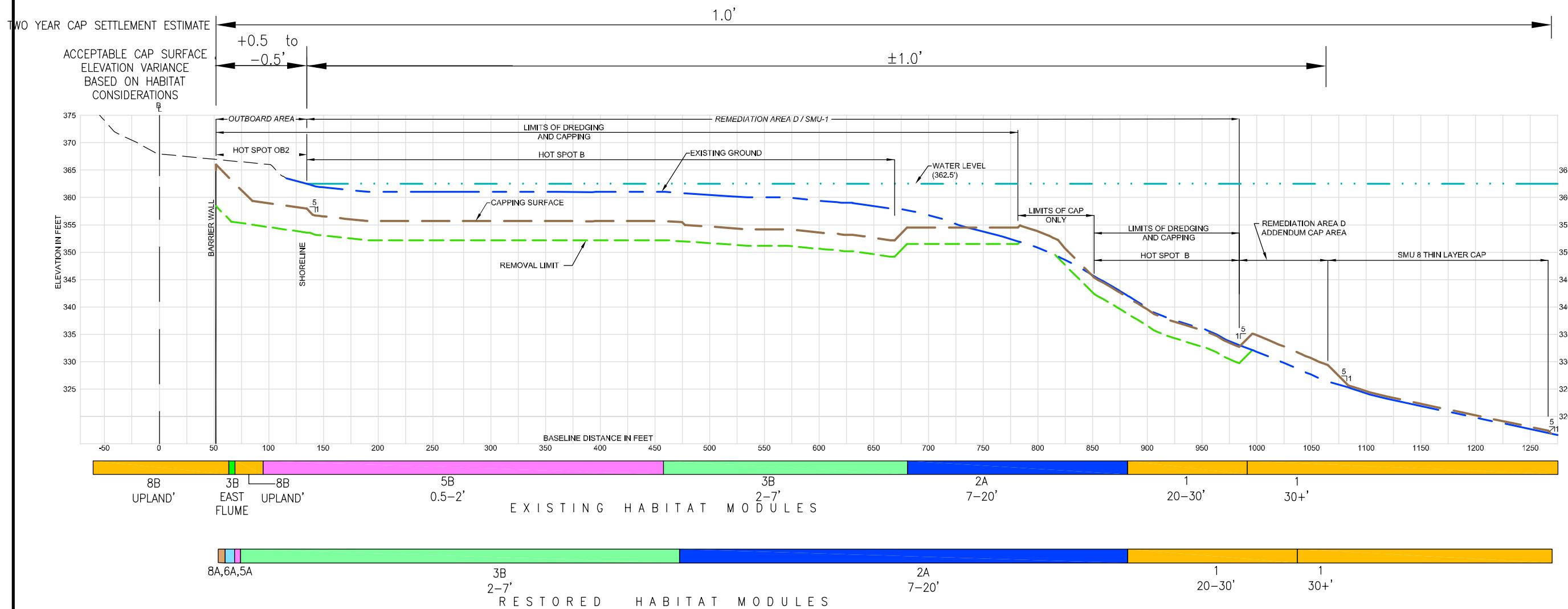
**NOTE
1. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

FIGURE 4.17

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA D (SMU 1)
SECTION RAD-1

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REMEDIATION AREA D – SECTION RAD-2

Vertical: 1"=20'-0"

Horizontal: 1"-100'-0"

****NOTE**
1. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

WATERLINE (362.5 NAVD 88)
(GROWING SEASON)

EXISTING GRADE

DREDGE GRADE

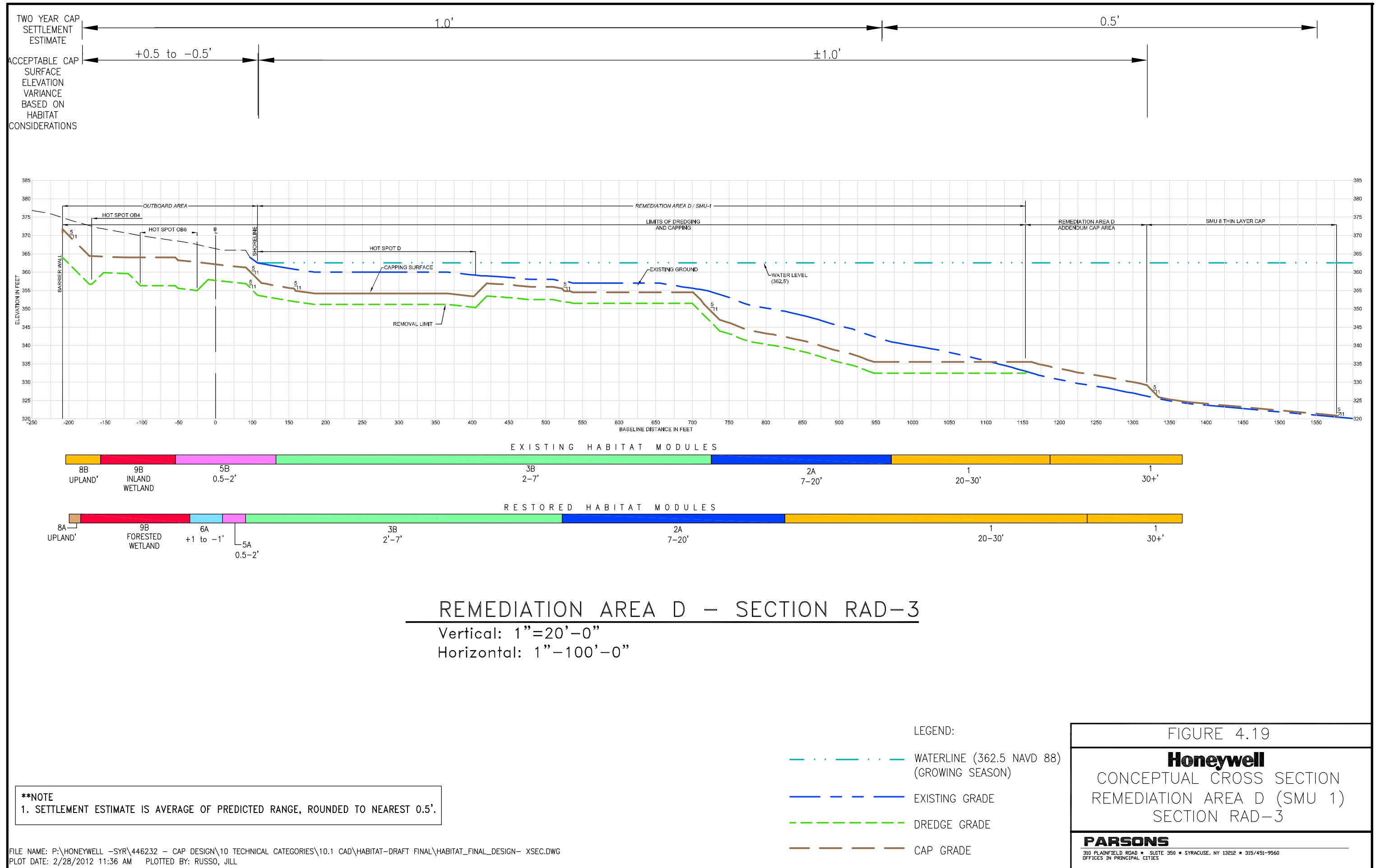
CAP GRADE

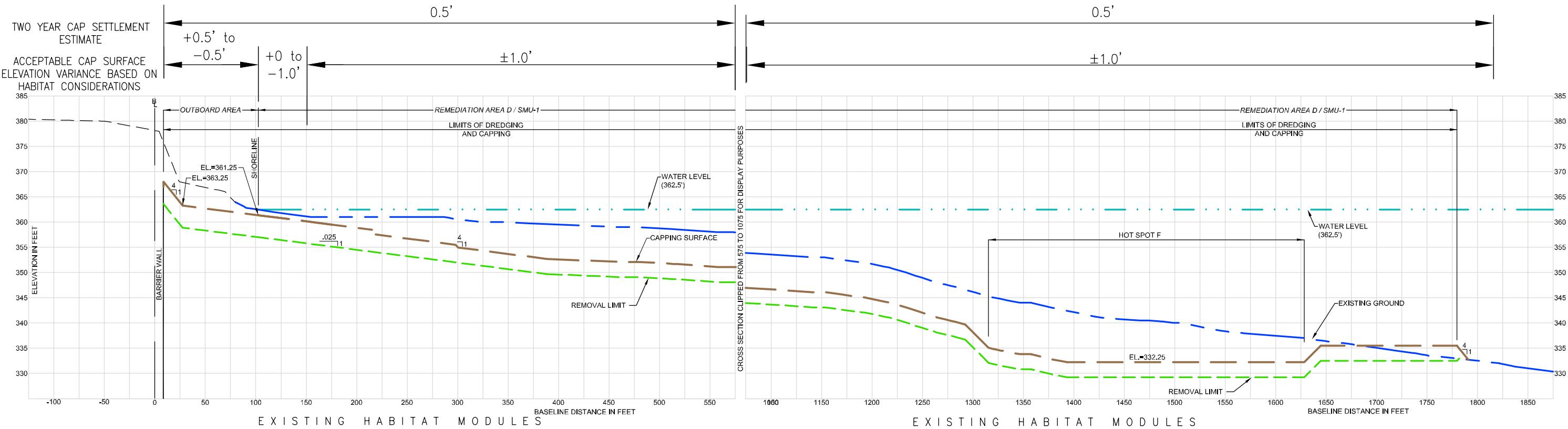
FIGURE 4.18

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA D (SMU 1)
SECTION RAD-2

PARSONS

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REMEDIATION AREA D – SECTION RAD-4

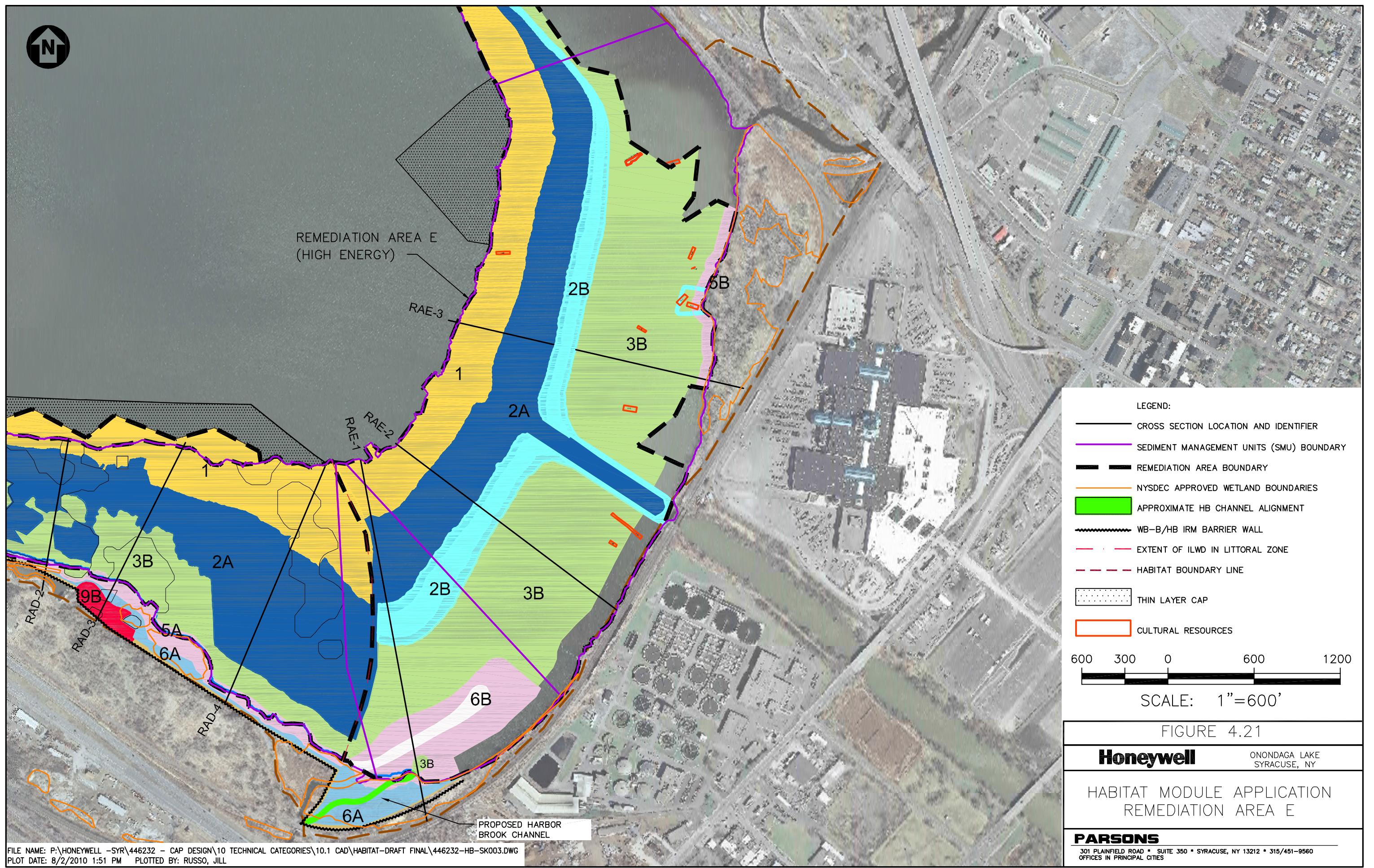
Vertical: 1"=20'-0"
Horizontal: 1"-100'-0"

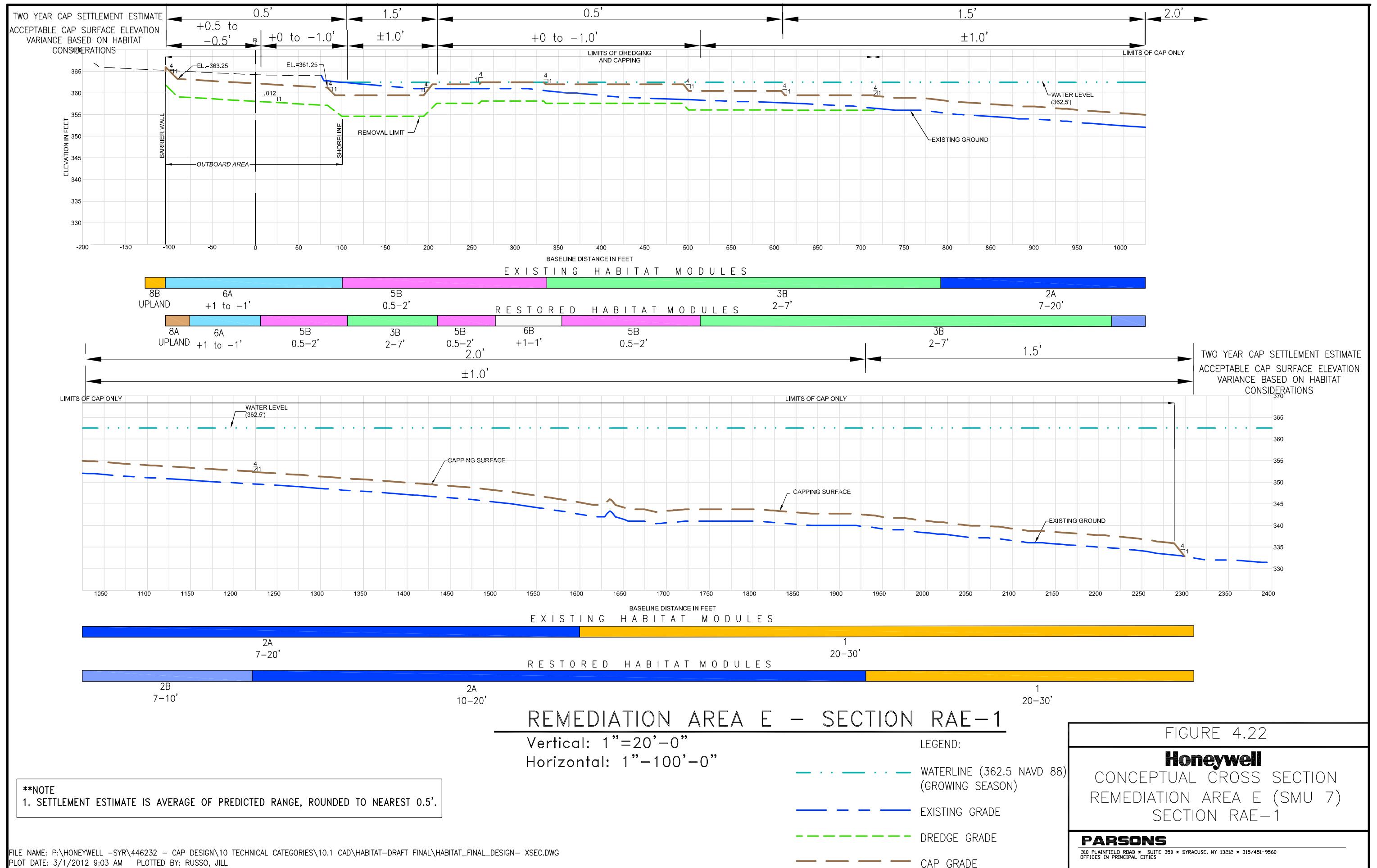
****NOTE**
1. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

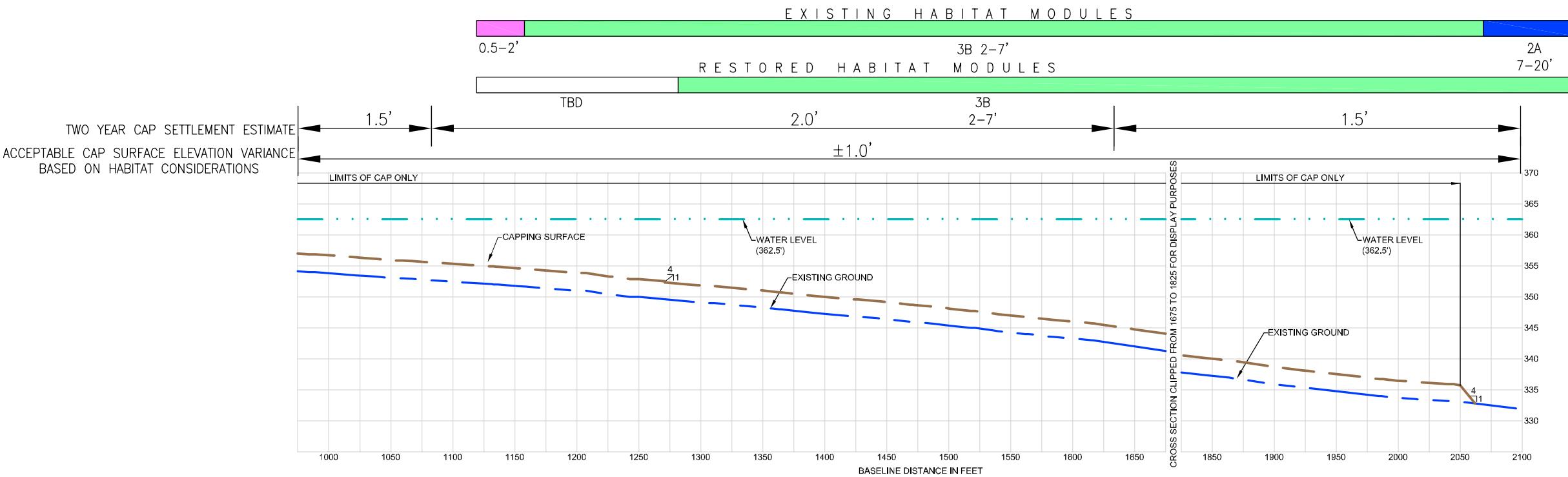
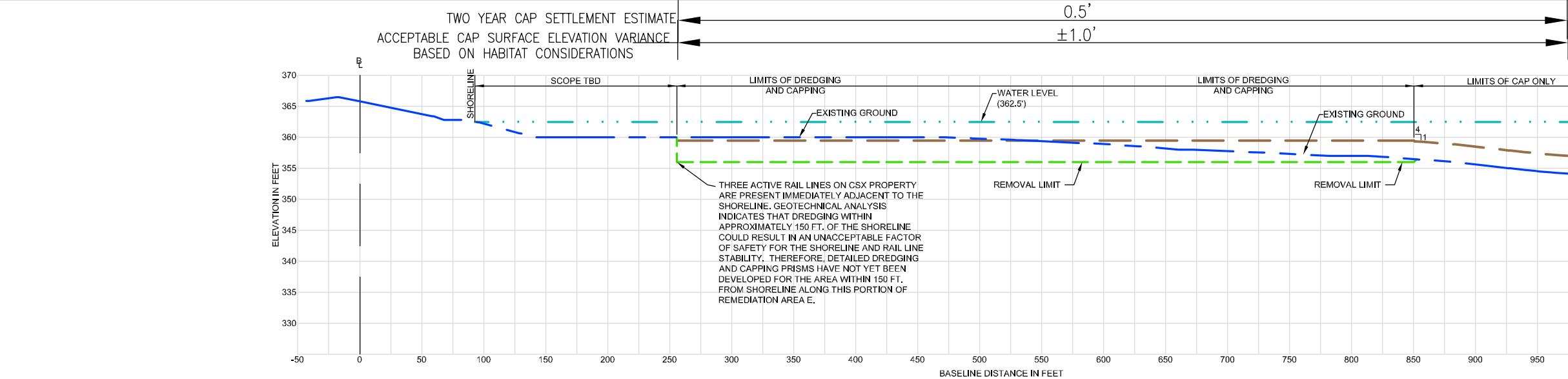
FIGURE 4.20
Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA D (SMU 1)
SECTION RAD-4

PARSONS

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REMEDIATION AREA E – SECTION RAE-2

Vertical: 1"=20'-0"

Horizontal: 1"-100'-0"

LEGEND:

—·— WATERLINE (362.5 NAVD 88)
(GROWING SEASON)

—·— EXISTING GRADE

- - - DREDGE GRADE

—·— CAP GRADE

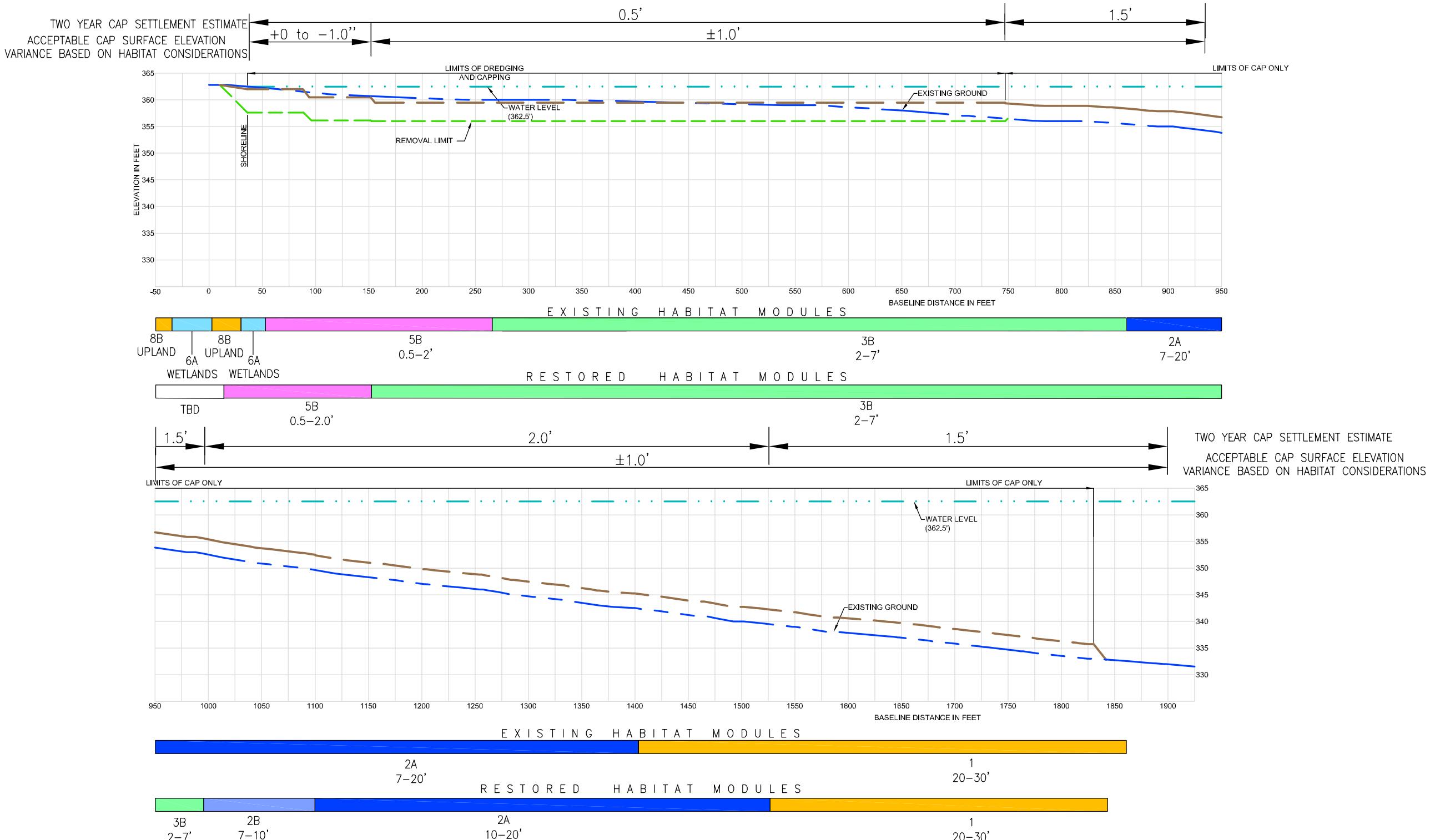
**NOTE
1. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

FIGURE 4.23

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA E (SMU 6/7)
SECTION RAE-2

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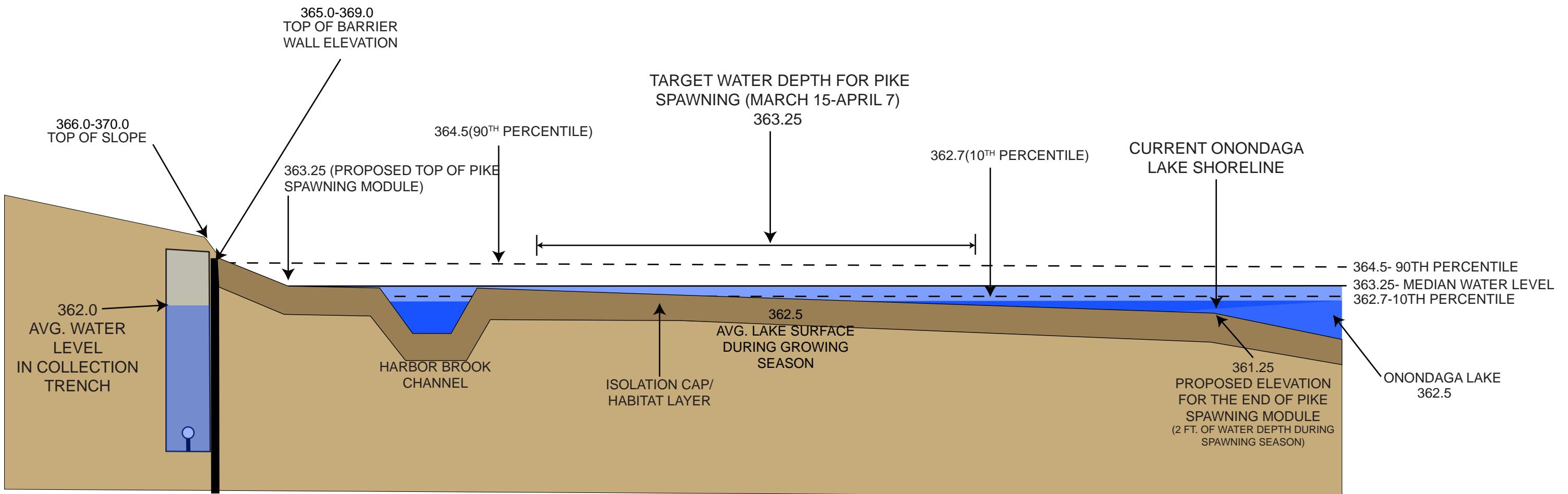
****NOTE**
1. SETTLEMENT ESTIMATE IS AVERAGE OF PREDICTED RANGE, ROUNDED TO NEAREST 0.5'.

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PLOT DATE: 3/1/2012 10:27 AM PLOTTED BY: RUSSO, JILL

FIGURE 4.24

Honeywell
CONCEPTUAL CROSS SECTION
REMEDIATION AREA E (SMU 6/7)
SECTION RAE-3

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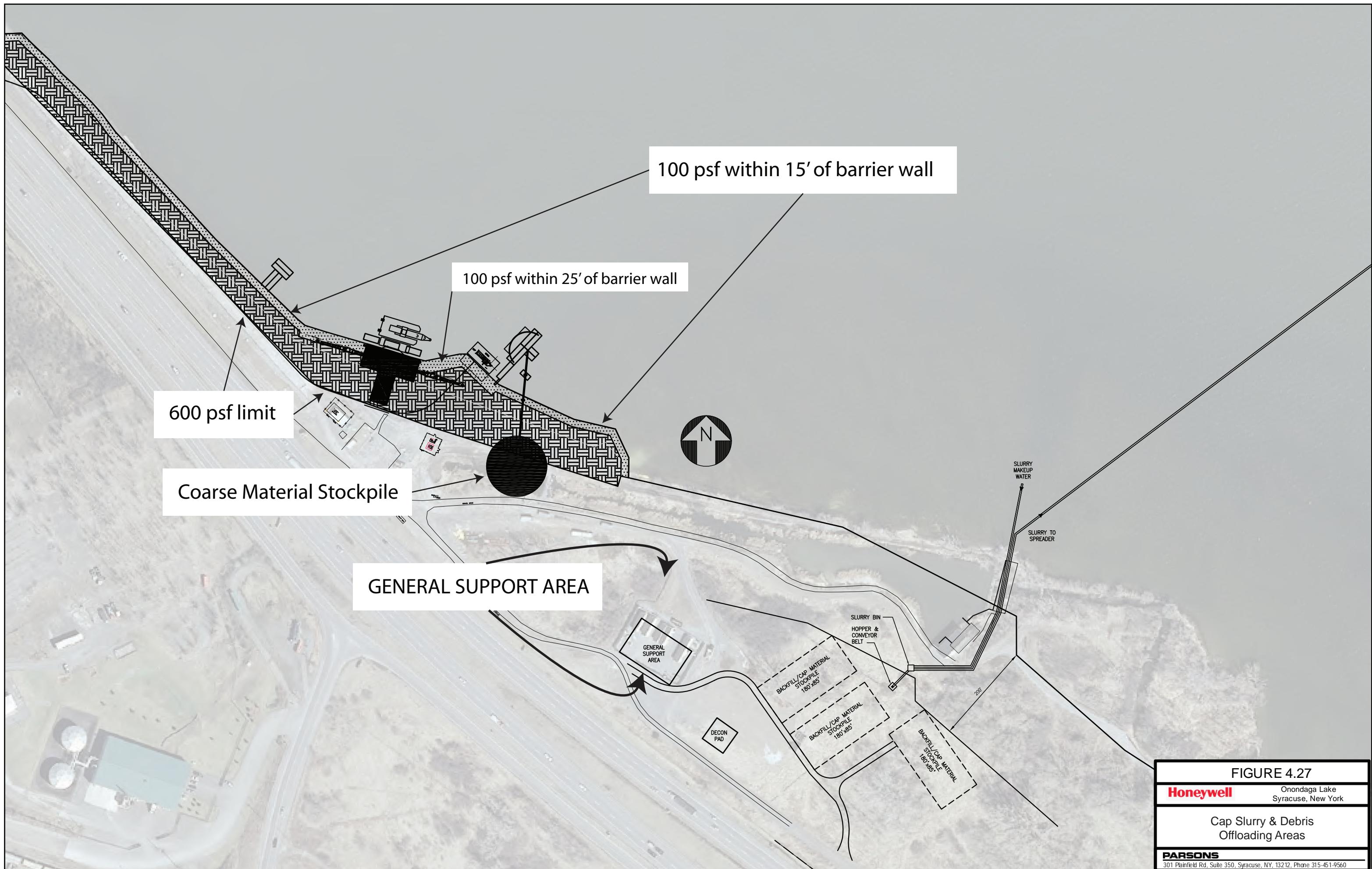
MEDIAN LAKE LEVEL DURING
PIKE SPAWNING SEASON

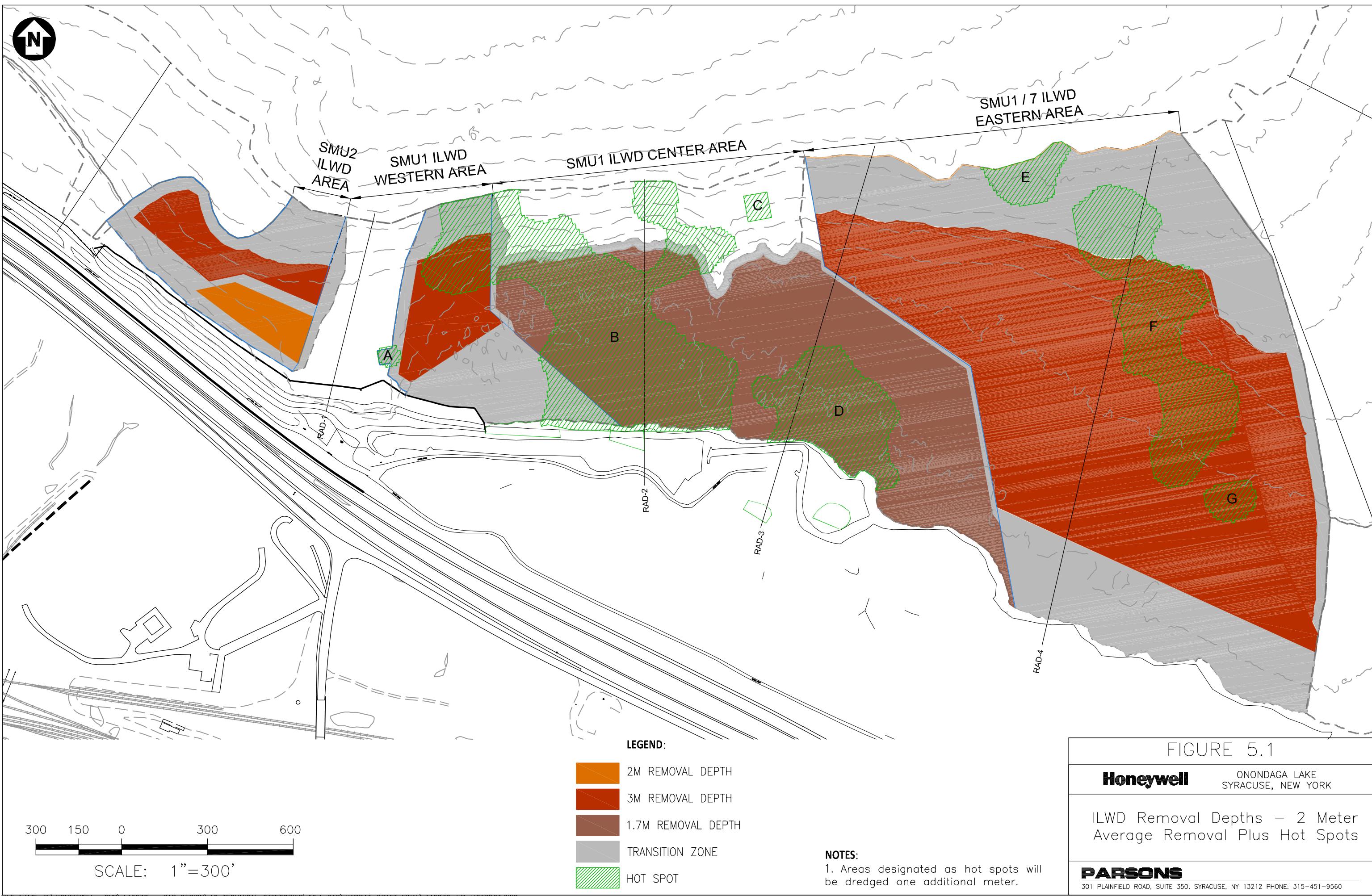
MEDIAN LAKE LEVEL DURING
GROWING SEASON

FIGURE 4.25

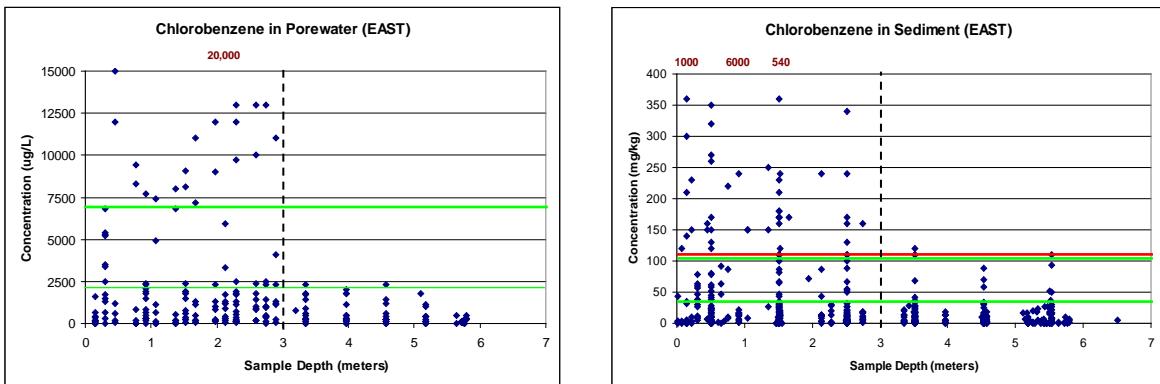
Honeywell	Onondaga Lake Syracuse, New York
Pike Spawning Area Section	Wastebed B/Harbor Brook Outboard Area
PARSONS	301 Plainfield Rd, Suite 350, Syracuse, NY, 13212, Phone 315-451-9560



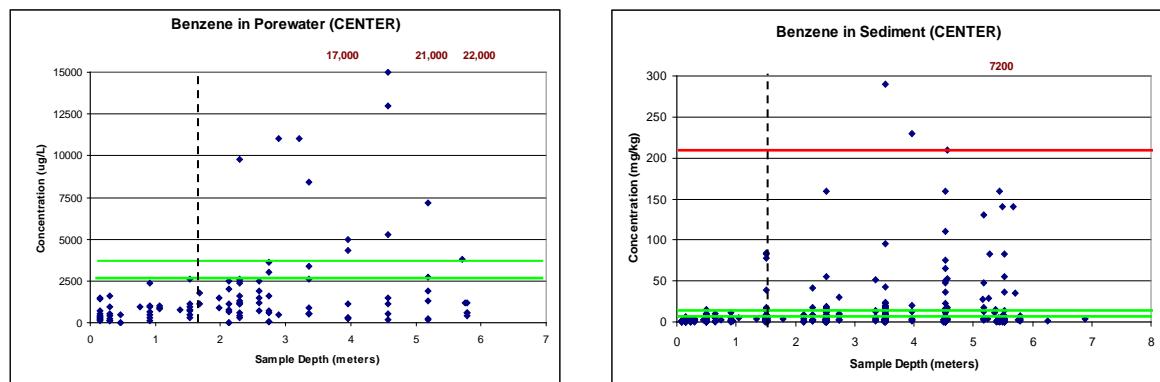




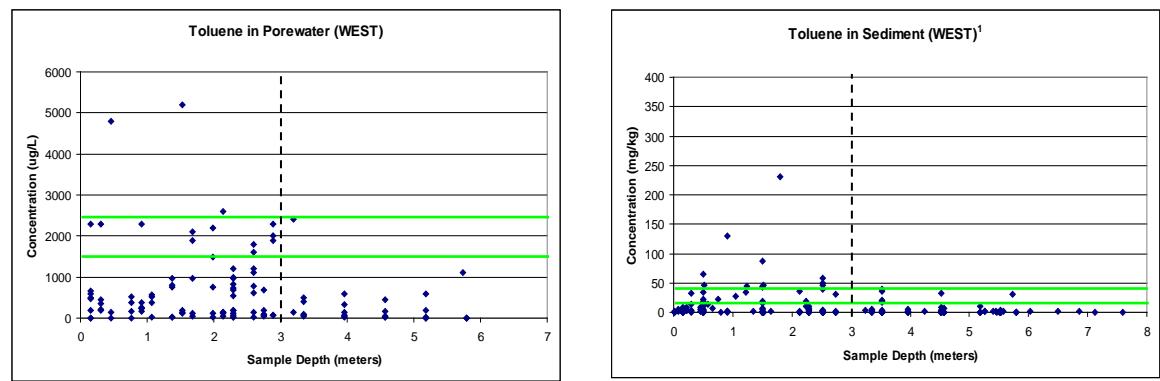
SMU1/SMU7 ILWD Eastern Area



SMU1 ILWD Center Area



SMU1 ILWD Western Area



Data Presentation:

- Red lines indicate hot spot criteria for sediment as listed in the ROD.
 - Dashed lines represent the proposed removal depth. This removal depth will not be achieved everywhere due to issues such as required sloping from shoreline down to the maximum removal depth. Therefore, not all data points shown above the removal depth will be removed.
 - Green lines indicate 90th and 95th percentile concentrations.
 - Numbers in red denote concentrations beyond the range of the scatterplots.
- Notes: (1) Hot spot criteria for toluene above the range of plots.

FIGURE 5.2

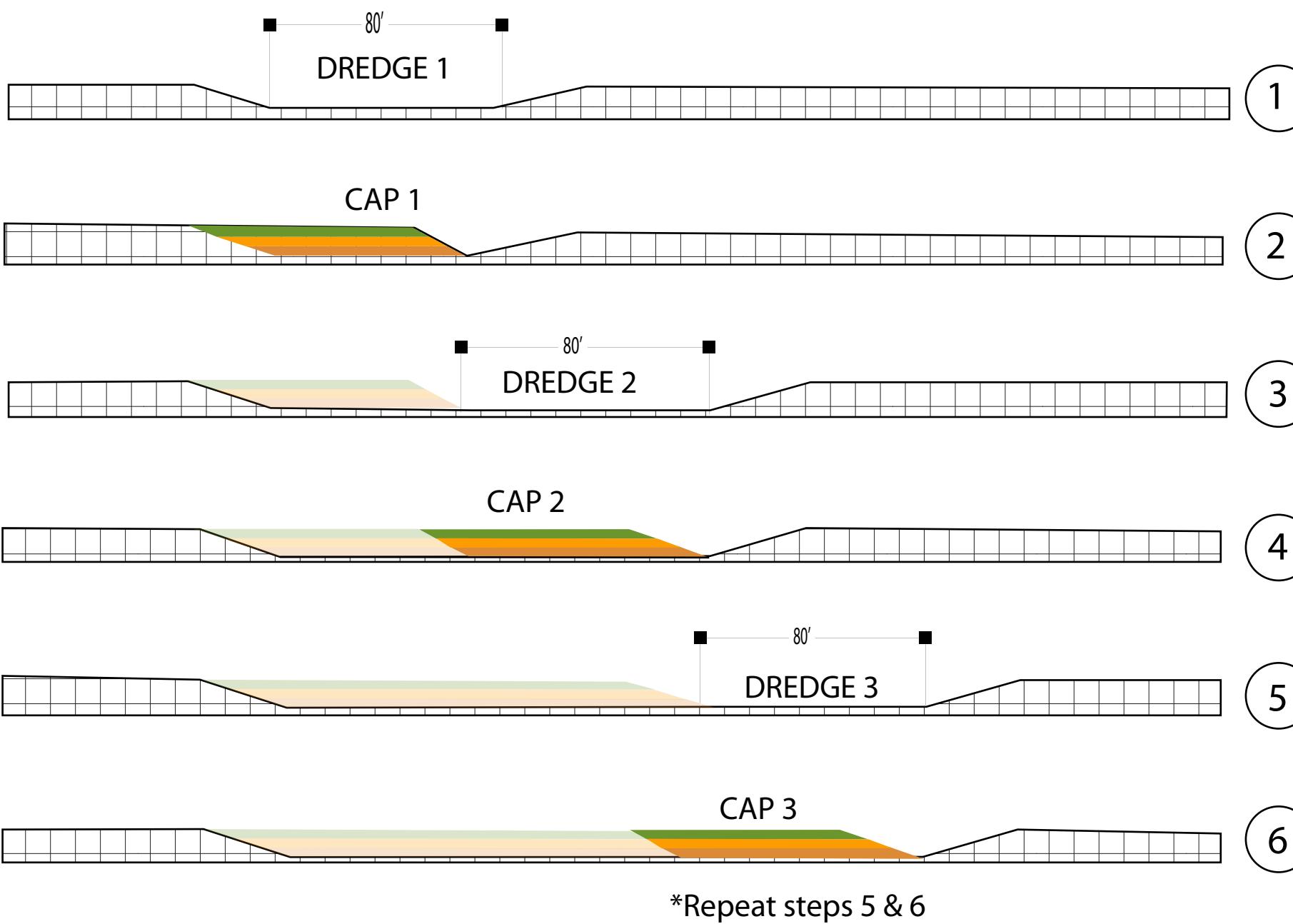
Honeywell

Example ILWD Contaminant Concentration Versus Depth Plots

PARSONS

301 Plainfield Road, Suite 350, Syracuse, NY 13212

TYPICAL SECTION VIEW OF DREDGE SEQUENCE



PLAN VIEW OF DREDGE SEQUENCE

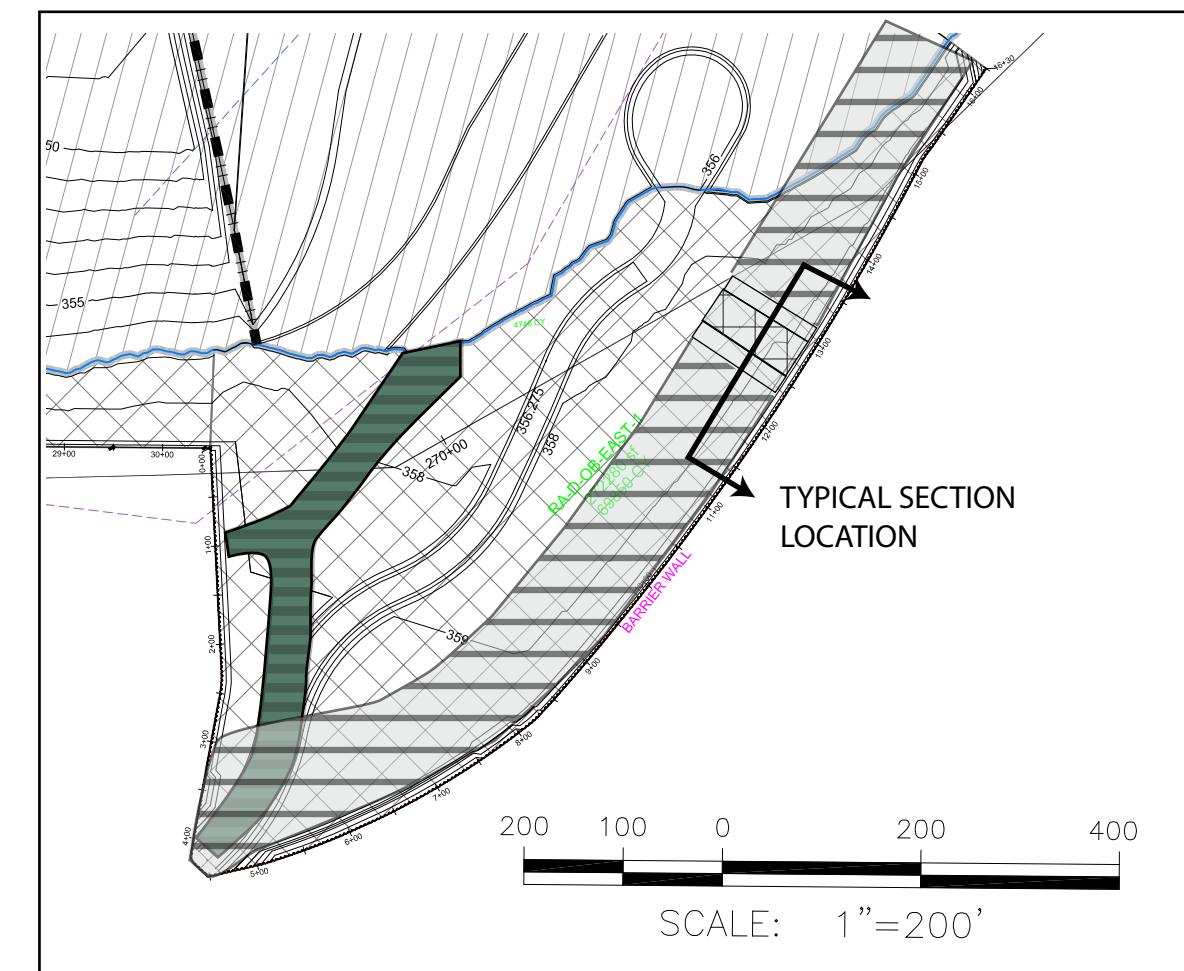


FIGURE 5.3

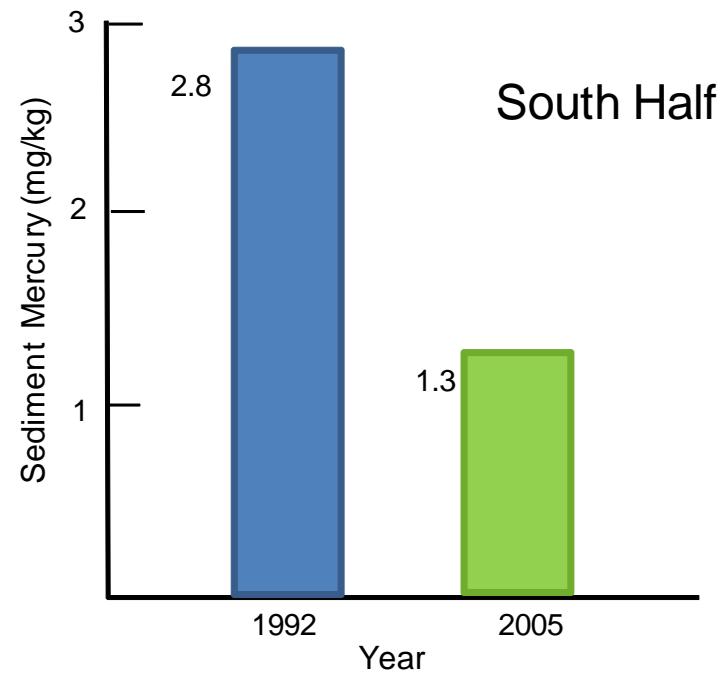
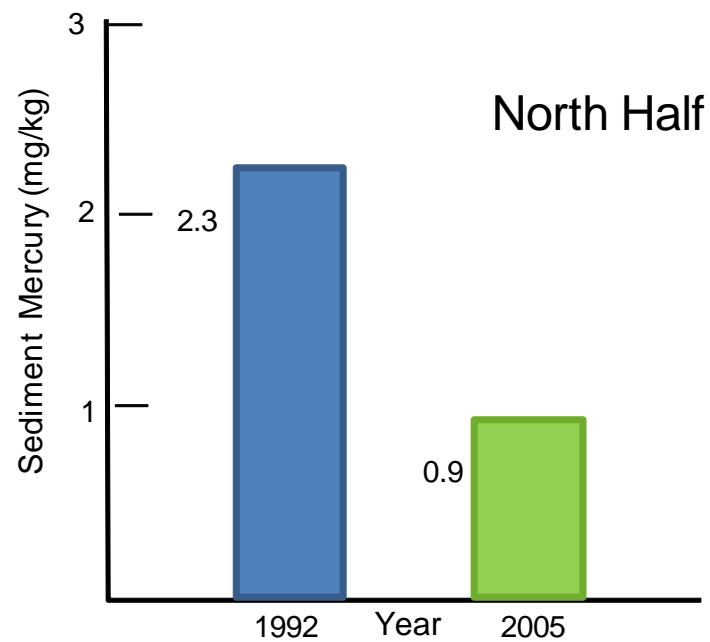
Honeywell

Onondaga Lake
Syracuse, New York

Dredge and Cap Sequence
WB-B East Wall Sequential Area

PARSONS
301 Plainfield Rd, Suite 350, Syracuse, NY, 13212, Phone 315-451-9560

Average area-weighted surface sediment concentrations in SMU 8 (Top 2 cm)



Notes: (1) The north half of the lake includes the saddle area in the middle of SMU 8.
(2) Data applied in this figure were collected on behalf of Honeywell.

FIGURE 6.1

Honeywell

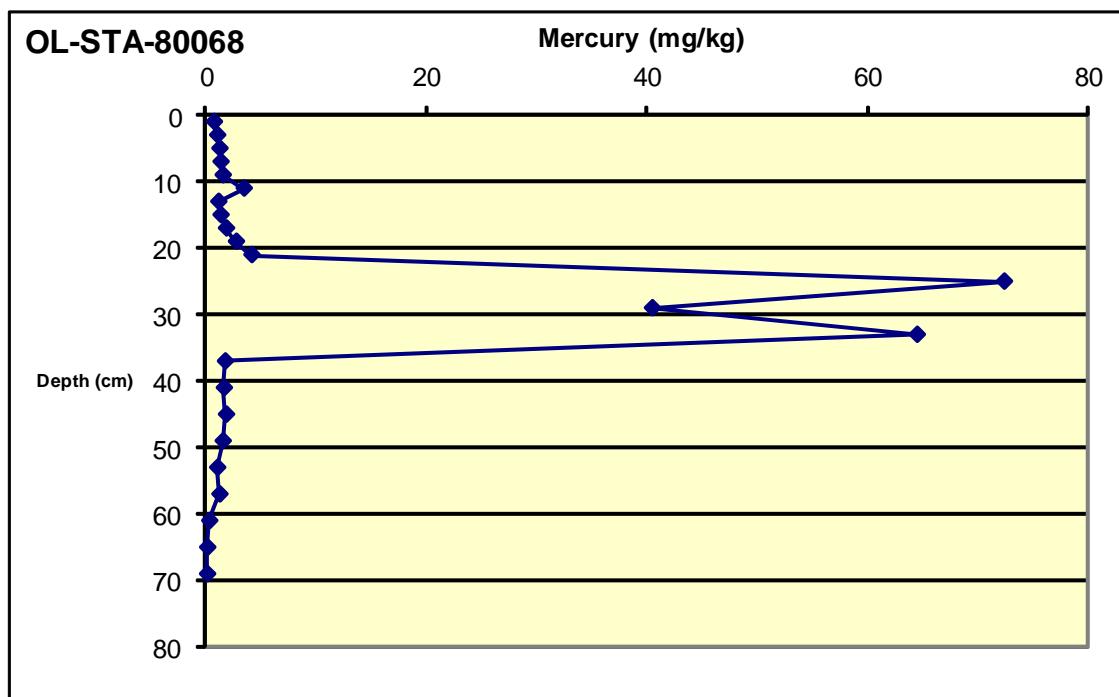
Onondaga Lake
Syracuse, New York

Demonstration of Ongoing Natural
Recovery in Onondaga Lake
SMU 8 Sediment

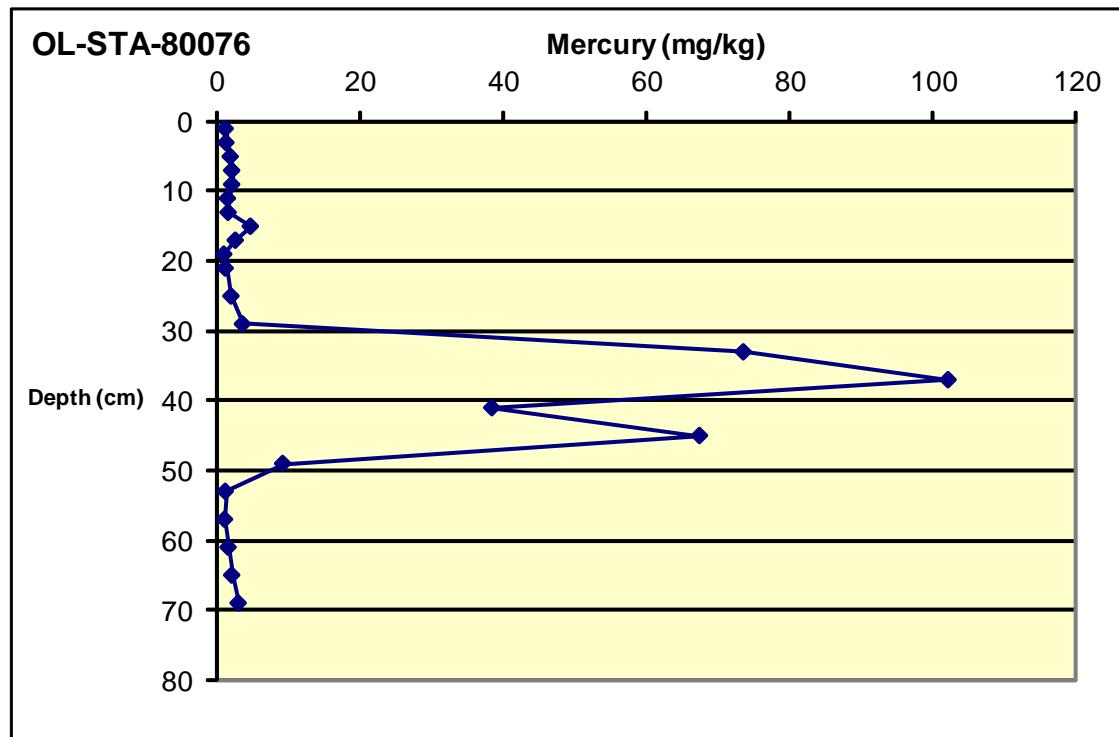
PARSONS

301 Plainfield Rd, Suite 350, Syracuse, NY, 13212, Phone 315-451-9560

(North Basin)



(South Basin)



Note: The mercury concentrations were plotted based on the midpoint of the depth interval from which the sample was collected.

FIGURE 6.2**Honeywell**Onondaga Lake
Syracuse, New YorkExample SMU 8 Sediment
Mercury Vertical Profiles
(from 2008)**PARSONS**

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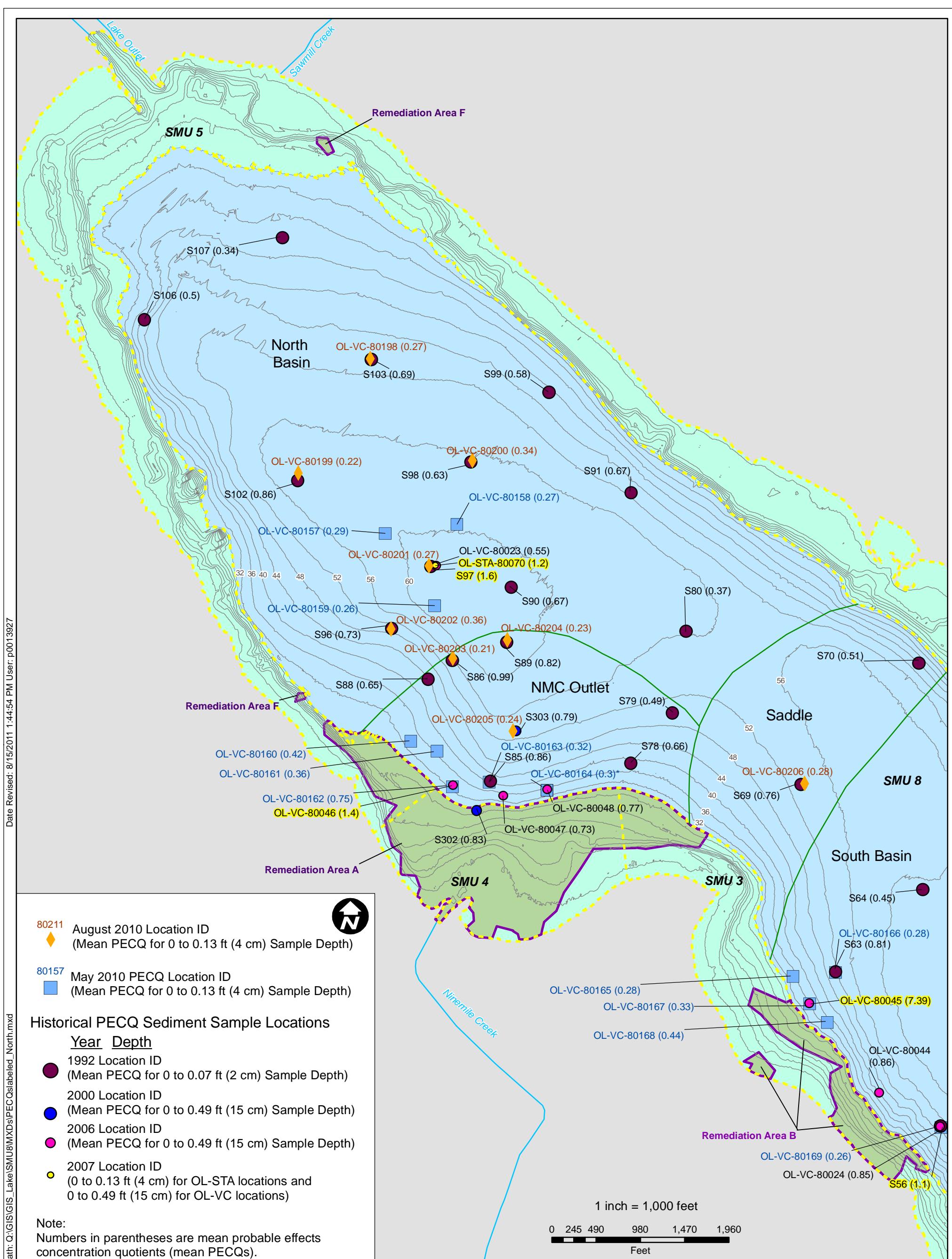
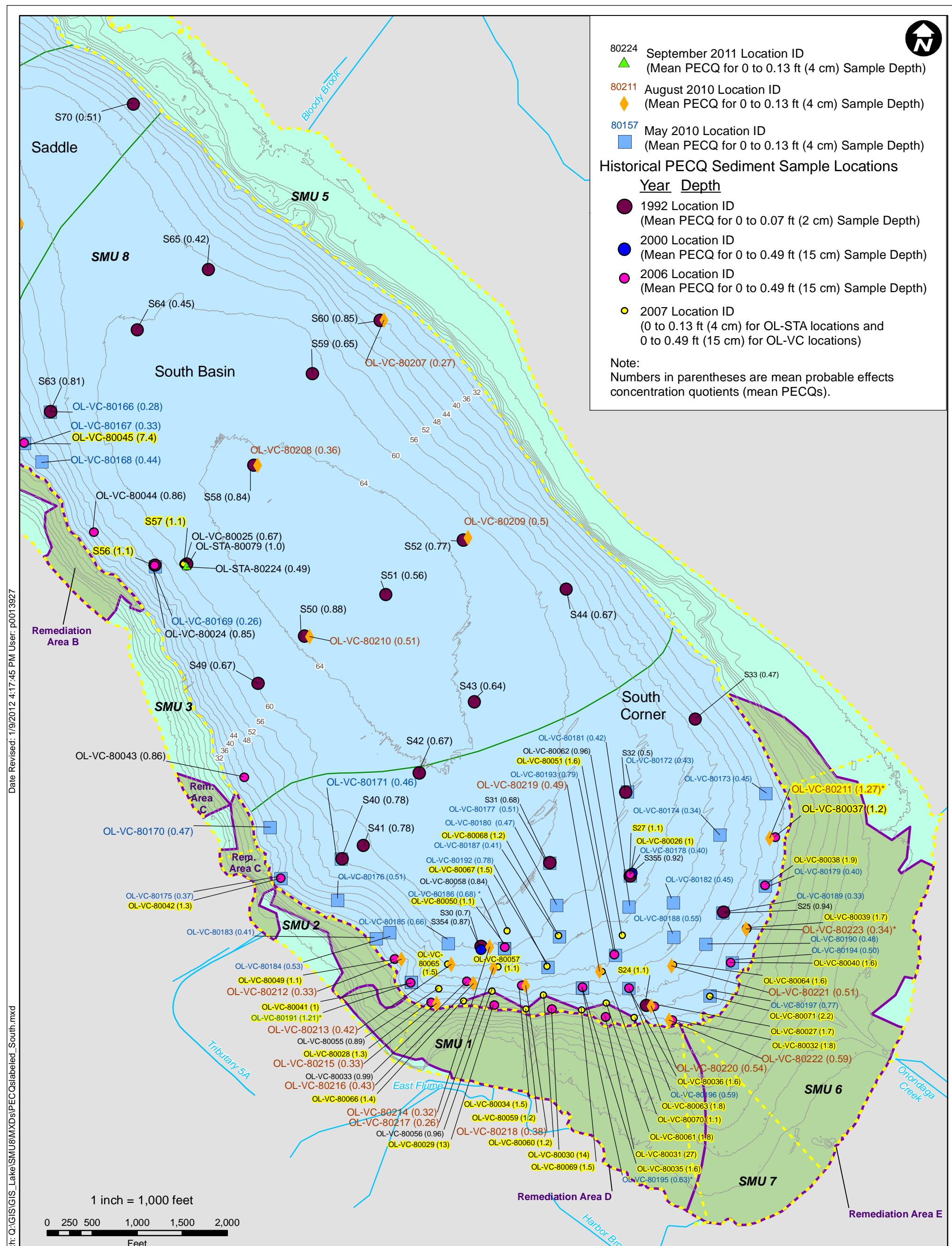


Figure 6.3a

HoneywellOnondaga Lake
Syracuse, New YorkSMU 8 Surface Sediment Sample
Locations with Mean PECQ Results
in the North Half of Onondaga Lake**PARSONS**

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NOTES

1. Bathymetry in 4 ft. intervals, labeled only in SMU 8.
2. Water depth based on average lake elevation of 362.82 feet.
3. * Indicates a duplicate sample location.
May and August 2010 maximum PECQ values posted.

Figure 6.3b

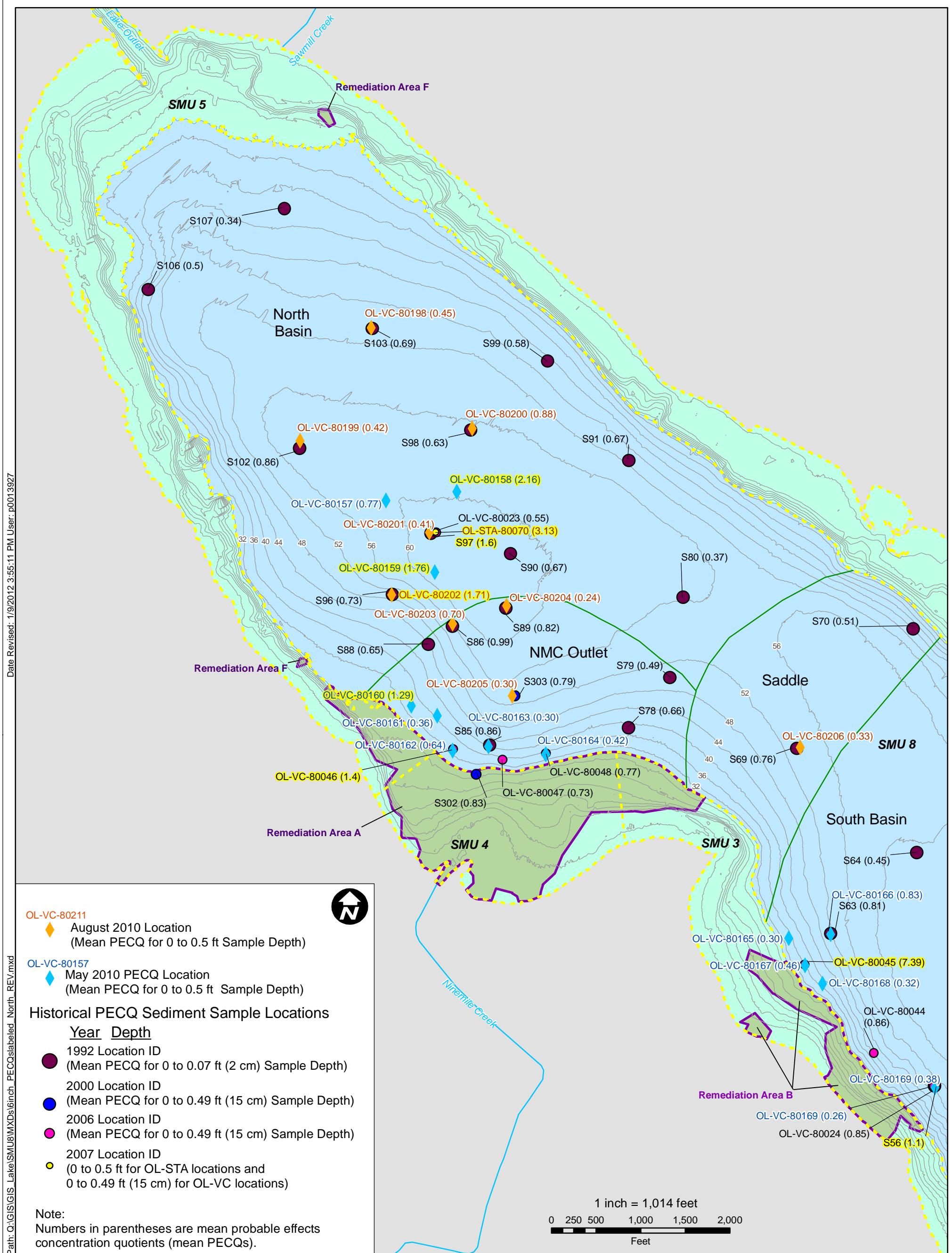
Honeywell

Onondaga Lake
Syracuse, New York

SMU 8 Surface Sediment Sample Locations with Mean PECQ Results in the South Half of Onondaga Lake (0 to 4 cm)

PARSONS

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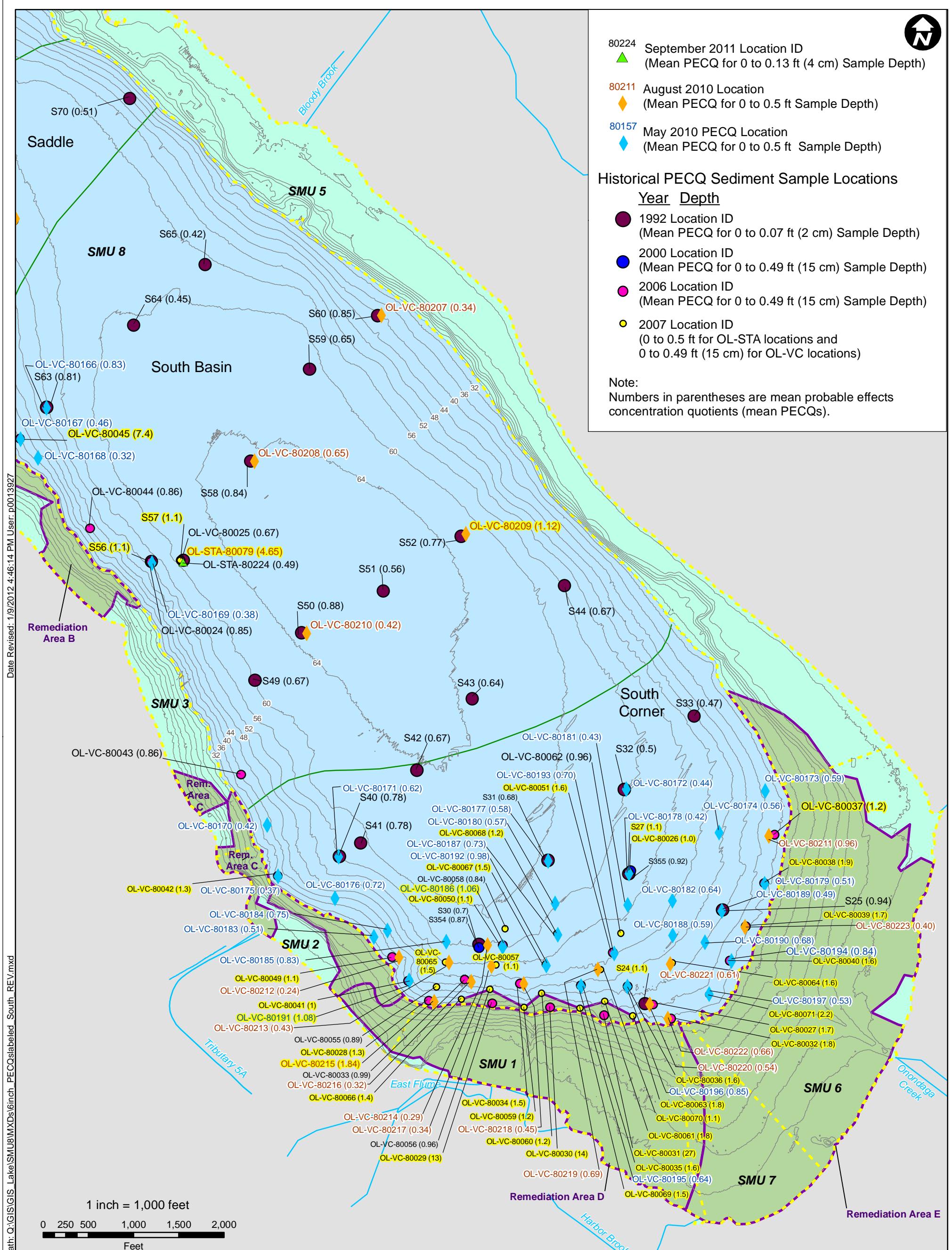
- 4 ft. Bathymetric Contour
- NYSDEC Demarcation for SMU 8
- SMU Boundary
- Remediation Area Boundary
- (1.2) OL-VC-80030 Sample Locations Where Mean PECQ is 1 or Higher

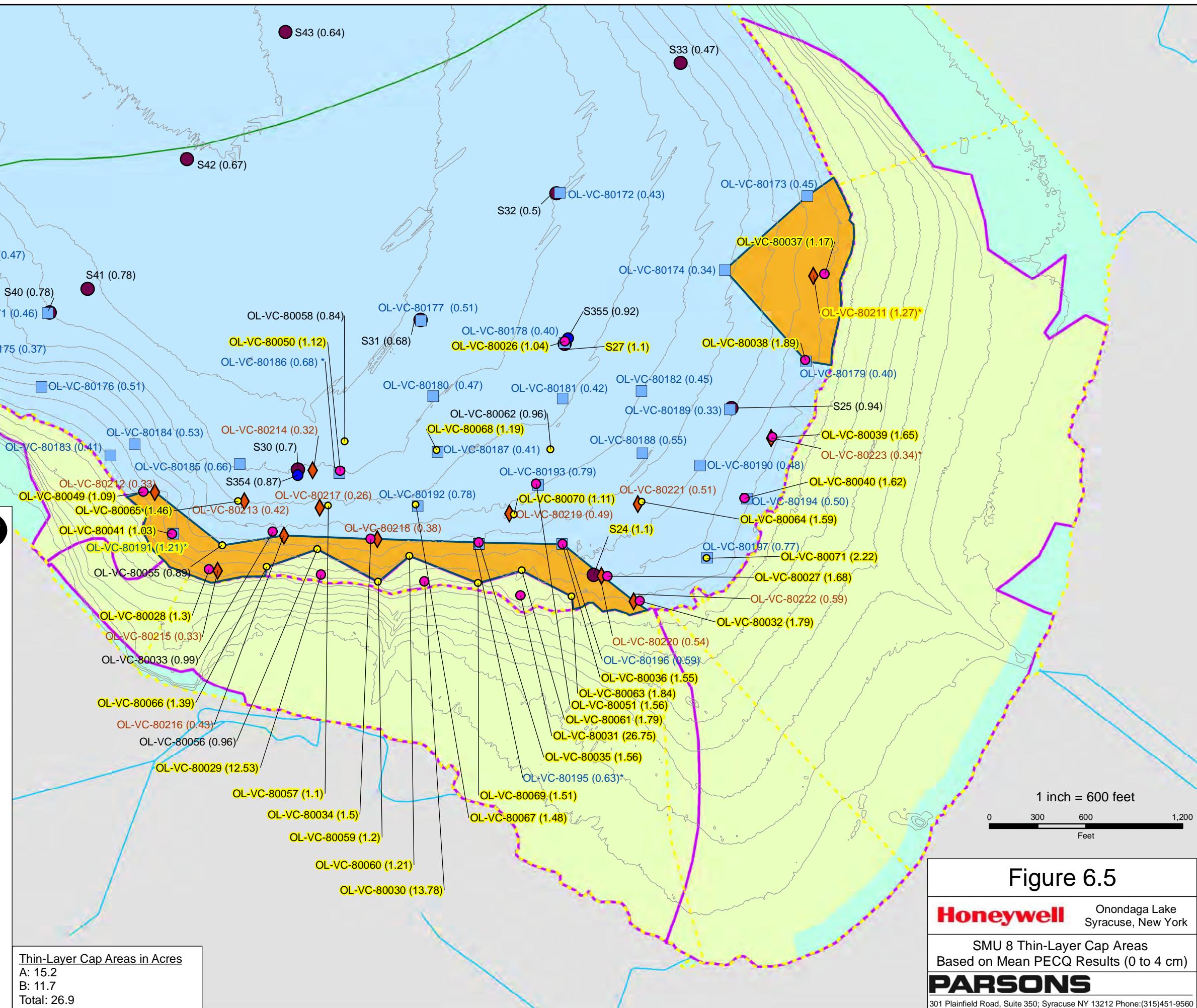
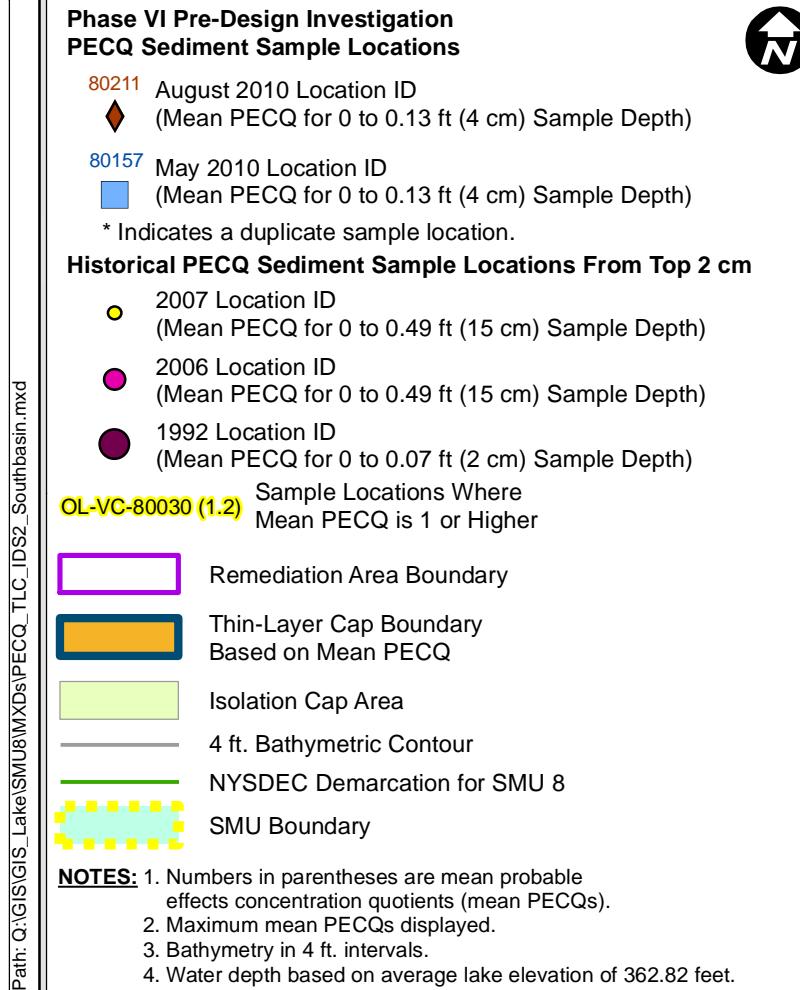
NOTES

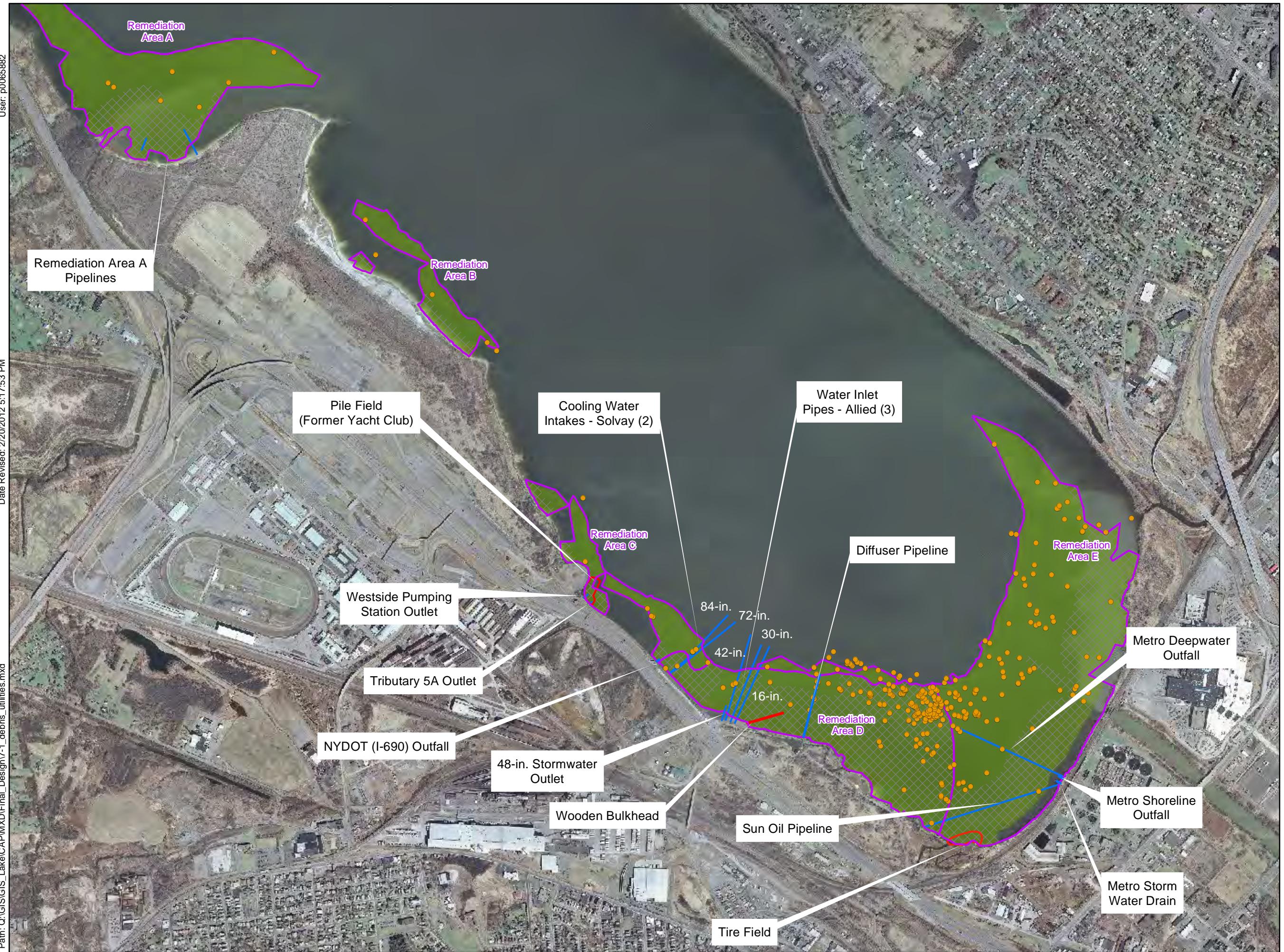
1. Bathymetry in 4 ft. intervals, labeled only in SMU 8.
2. Water depth based on average lake elevation of 362.82 feet.
3. * Indicates a duplicate sample location. May and August 2010 maximum PECQ values posted.

Figure 6.4a**Honeywell**Onondaga Lake
Syracuse, New YorkSMU 8 Surface Sediment Sample
Locations with Mean PECQ Results
in the North Half of Onondaga Lake (0 to 15 cm)**PARSONS**

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Side-scan Sonar Target

- Debris (greater than 5' in any dimension)

Digitized Anomalies from
Magnetometer Data and
Historical Records
(locations/lengths
are approximate)

■ Remediation Area Boundary

■ Isolation Cap Area

▨ Dredge Area



900 450 0 900
Feet

Note: 2009 Aerial Photos obtained from
NYS GIS Clearinghouse

FIGURE 7.1

Honeywell Onondaga Lake
Syracuse, New York

Remediation Areas
Debris & Utilities

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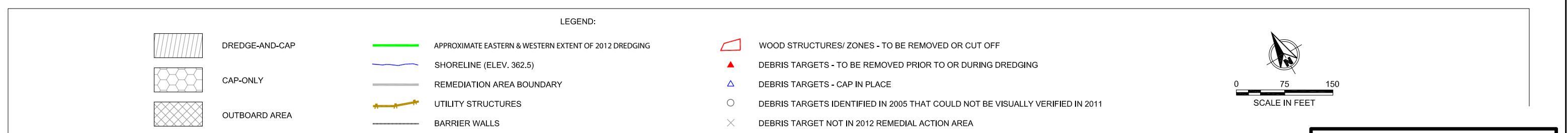
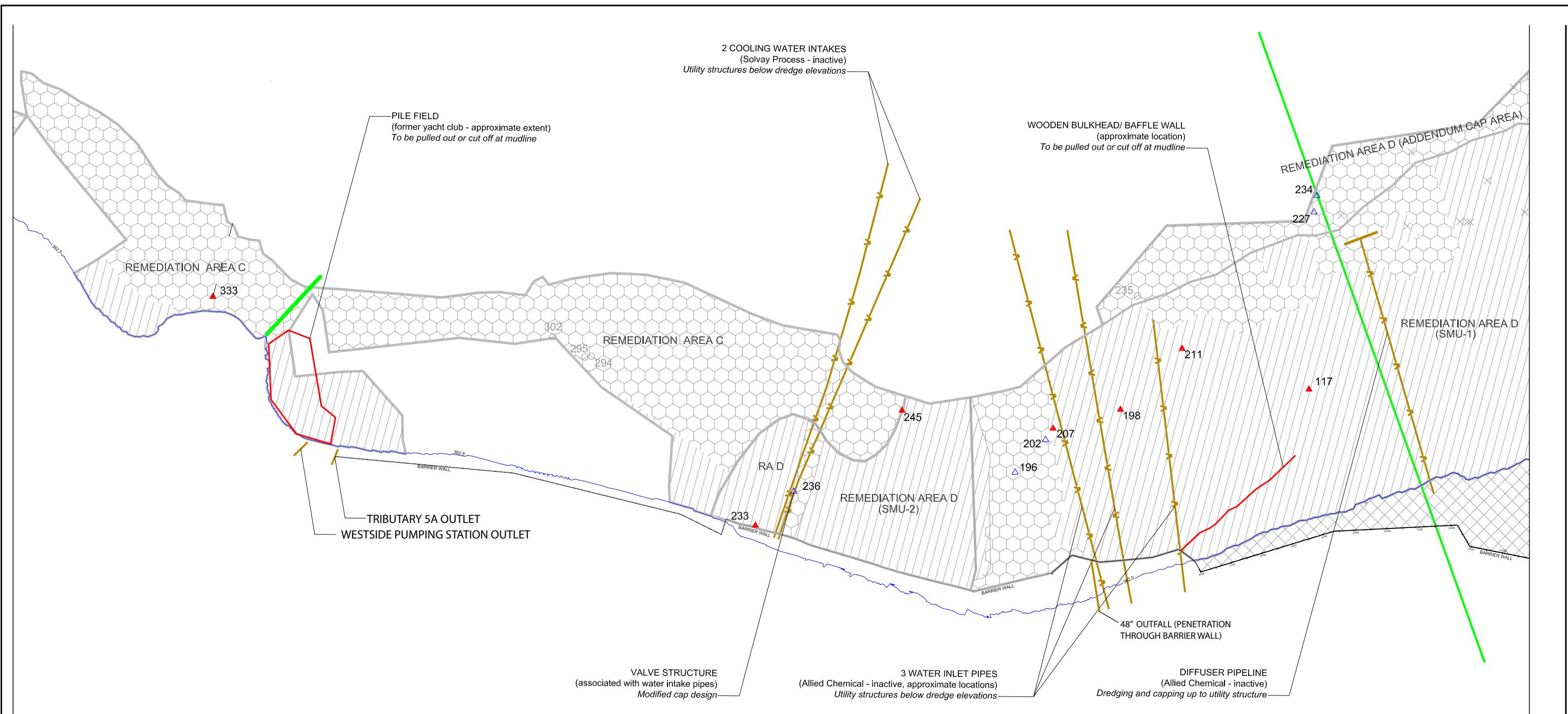


FIGURE 7.2

Honeywell

RE 712

Onondaga Lake Syracuse, New York

Debris Targets Within 2012 Remedial Action Area

PARSONS

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User: p0013927

Date Revised: 2/15/2012 11:51:23 AM

Path: Q:\GIS\GIS_LakeCAP\Final_Design\7-3_debris_utilities_focusmap.mxd



Utilities based on
Magnetometer Data and
Historical Records
(locations/lengths
are approximate)

Remediation Area Boundary

Isolation Cap Area

Dredge Area



540 270 0 540
Feet

Note: 2009 Aerial Photos obtained from
NYS GIS Clearinghouse

FIGURE 7.3

Honeywell Onondaga Lake
Syracuse, New York

Utilities in Remediation
Areas C, D and E

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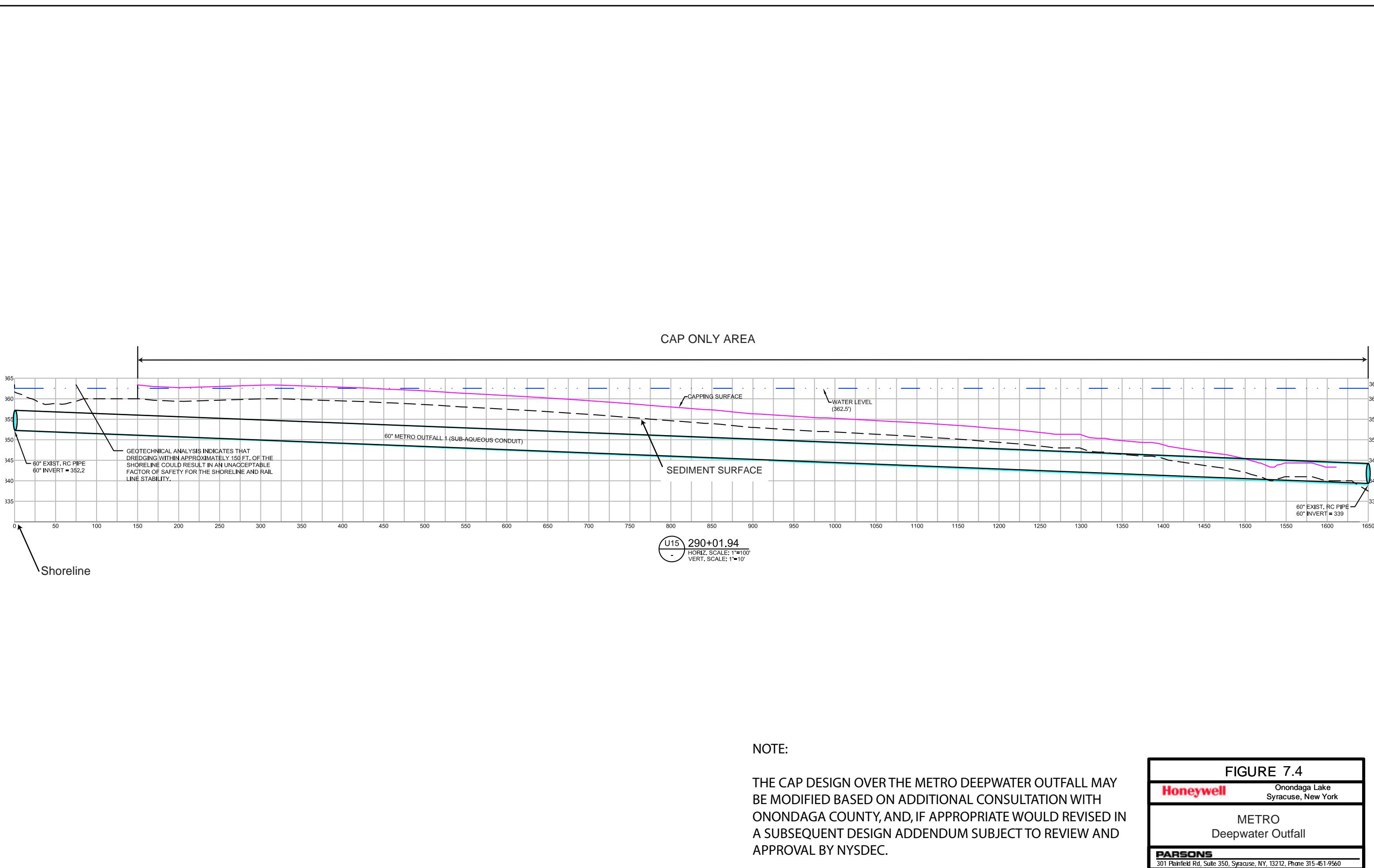


FIGURE 7.4

Honeywell

**Onondaga Lake
Syracuse, New York**

METRO

Deepwater Outfall

PARSONS

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NOTE

THE CAP DESIGN OVER THE METRO DEEPWATER OUTFALL MAY BE MODIFIED BASED ON ADDITIONAL CONSULTATION WITH ONONDAGA COUNTY, AND, IF APPROPRIATE WOULD REVISED IN A SUBSEQUENT DESIGN ADDENDUM SUBJECT TO REVIEW AND APPROVAL BY NYSDEC.

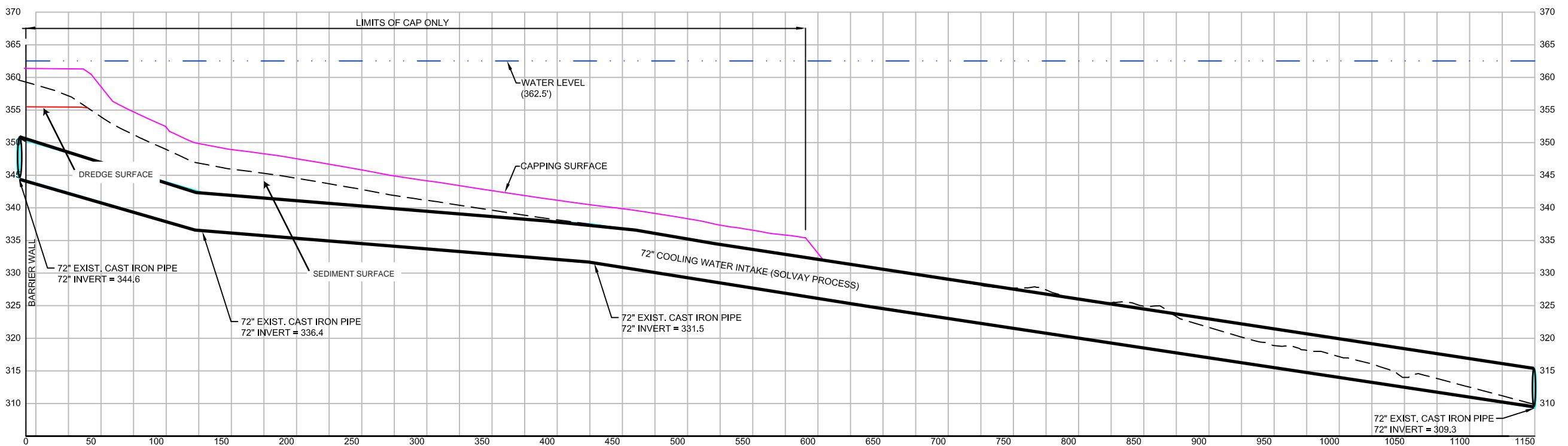
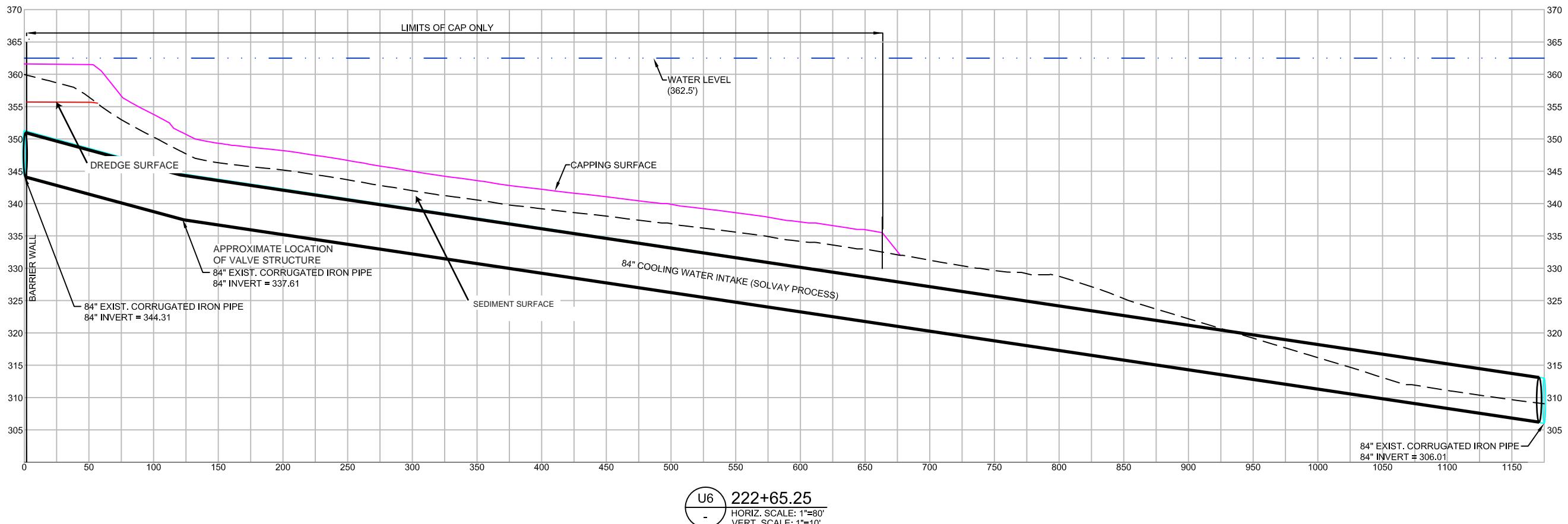


FIGURE 7.5

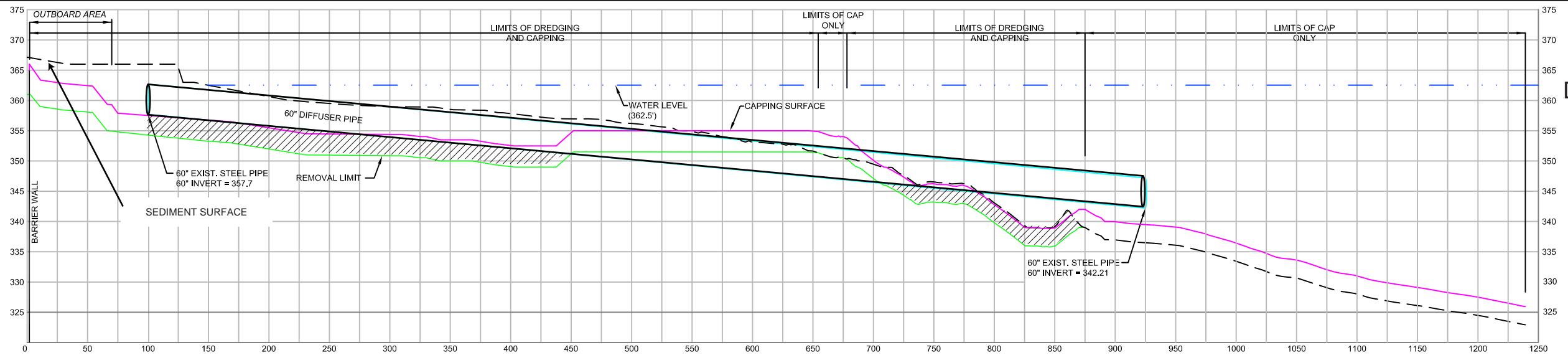
Honeywell

Onondaga Lake
Syracuse, New York

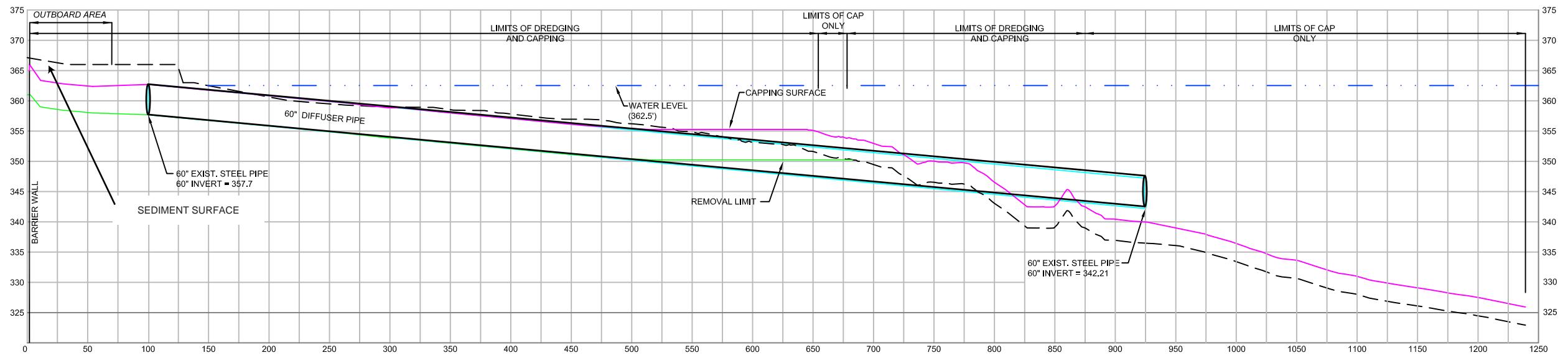
**COOLING WATER INTAKES
(SOLVAY PROCESS)**

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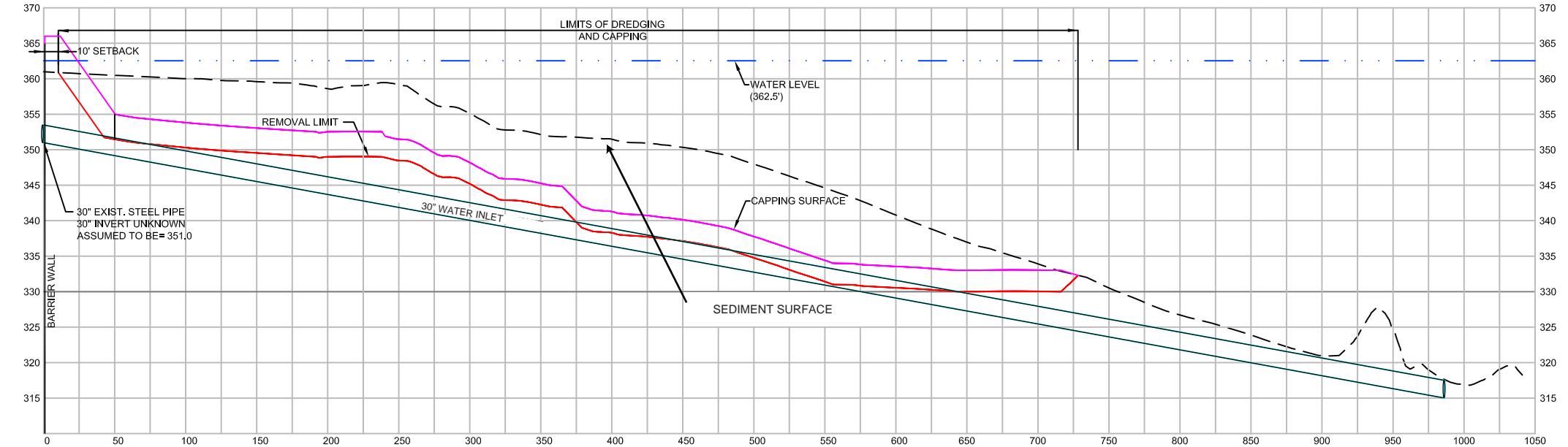


Diffuser Pipeline Profile
Adjacent to Pipe

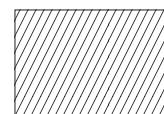


Diffuser Pipeline Profile
At Pipe

U11 244+39.90
HORIZ. SCALE: 1"=80'
VERT. SCALE: 1"=10'



30" Water Inlet
Pipes (Allied)



Area underlying pipeline
that will not be removed to
avoid undermining and
potential collapse of
pipeline.

U9 244+35.15
HORIZ. SCALE: 1"=80'
VERT. SCALE: 1"=10'

FIGURE 7.6

Honeywell

Onondaga Lake
Syracuse, New York

Diffuser Pipeline Profiles
& 30" Water Inlet

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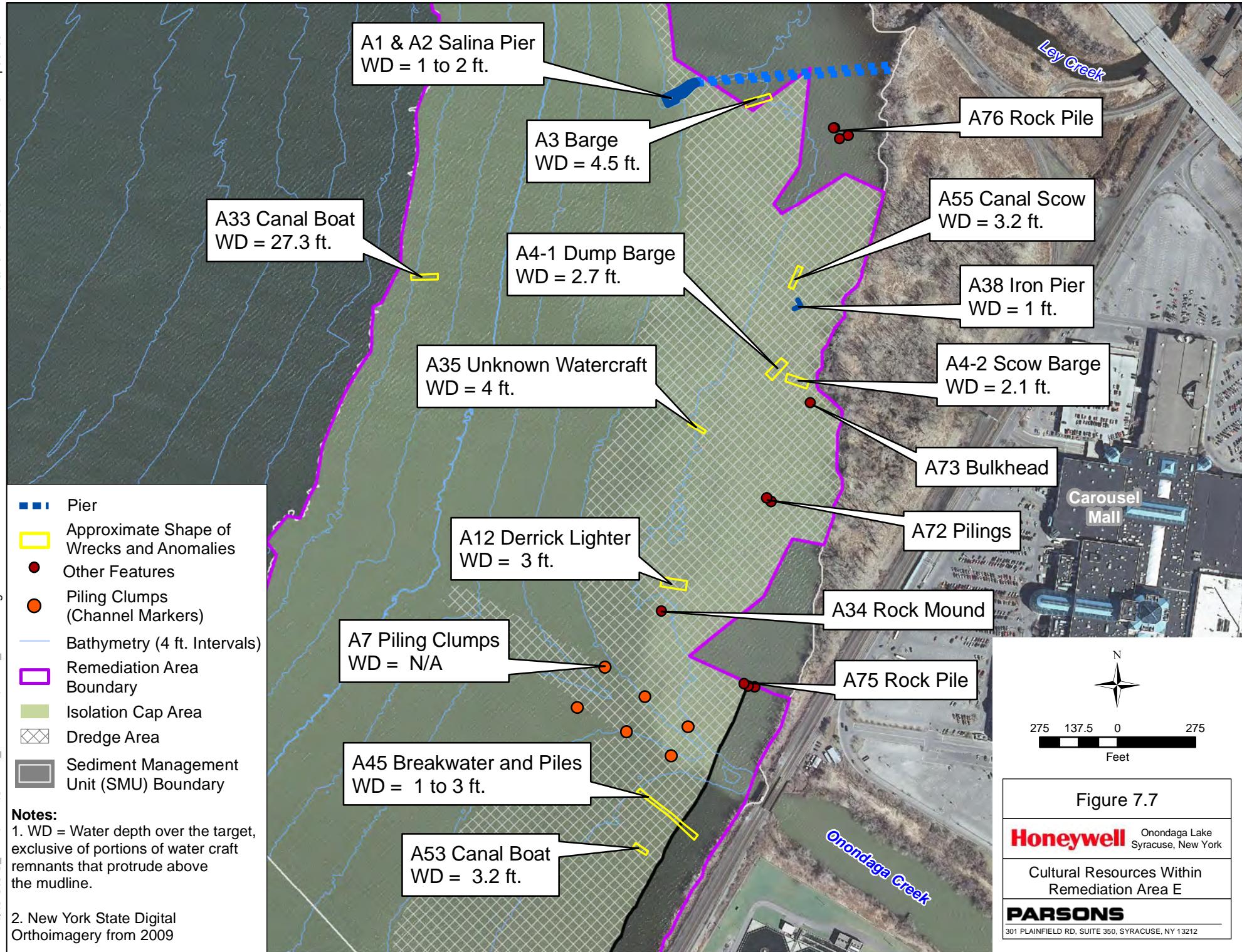


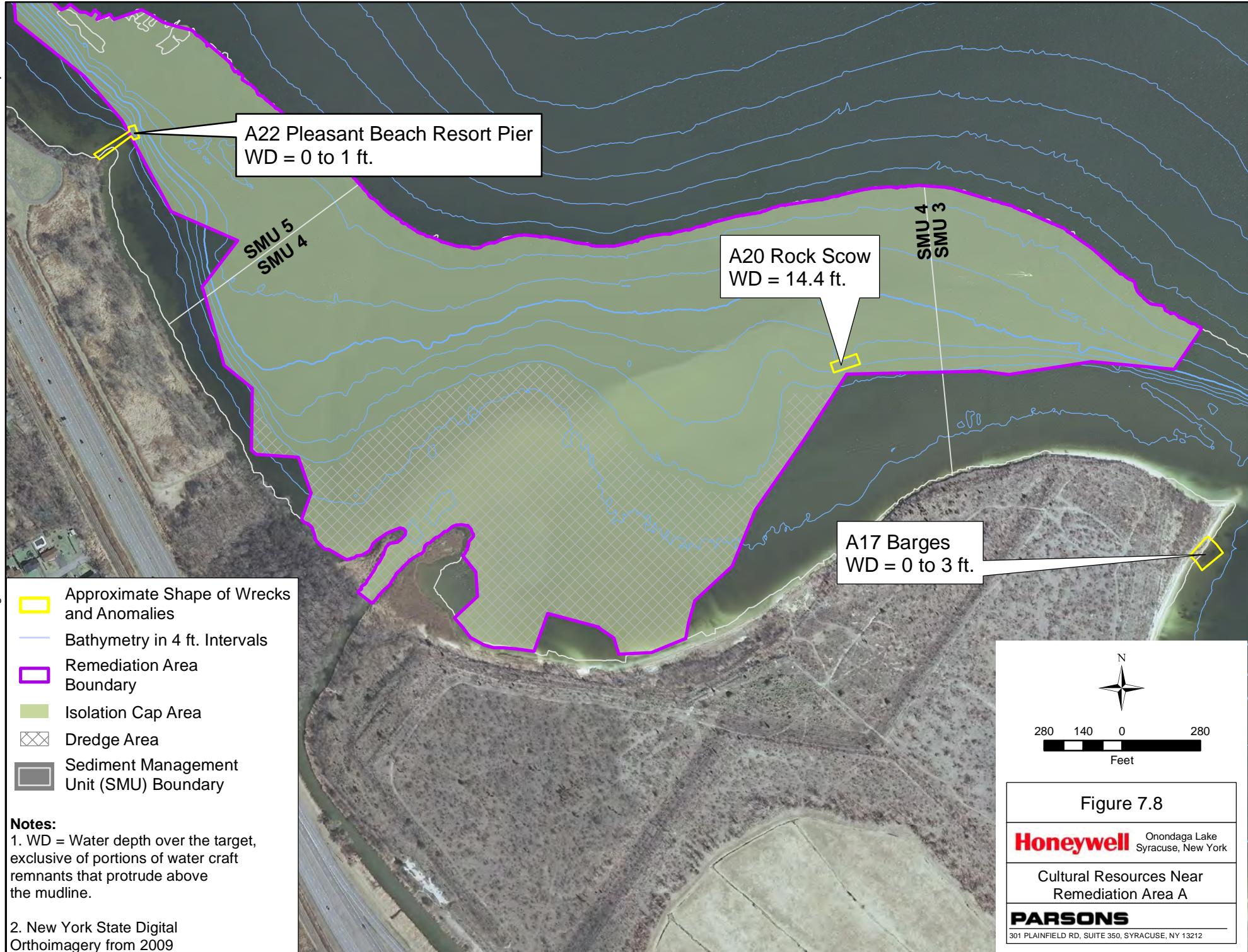
Figure 7.7

Honeywell Onondaga Lake
Syracuse, New York

Cultural Resources Within
Remediation Area E

PARSONS

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**Notes:**

1. WD = Water depth over the target, exclusive of portions of water craft remnants that protrude above the mudline.
2. New York State Digital Orthoimagery from 2009

Figure 7.8

Honeywell Onondaga Lake
Syracuse, New York

Cultural Resources Near
Remediation Area A

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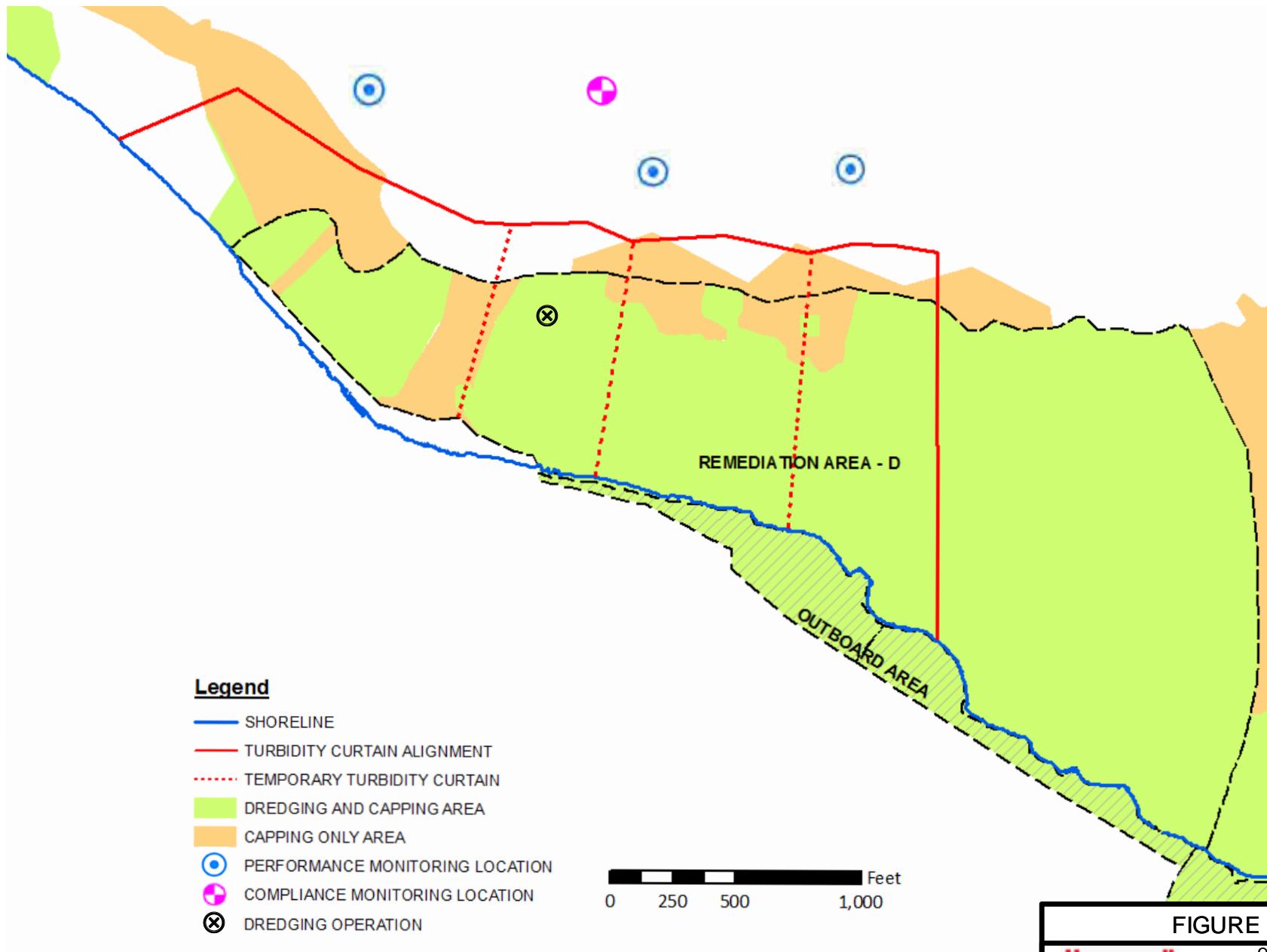


FIGURE 8.1

Honeywell

Onondaga Lake
Syracuse, New York

Example Orientation of Performance and
Compliance Monitoring Locations

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Date Revised: 3/1/2012 10:01:56 AM

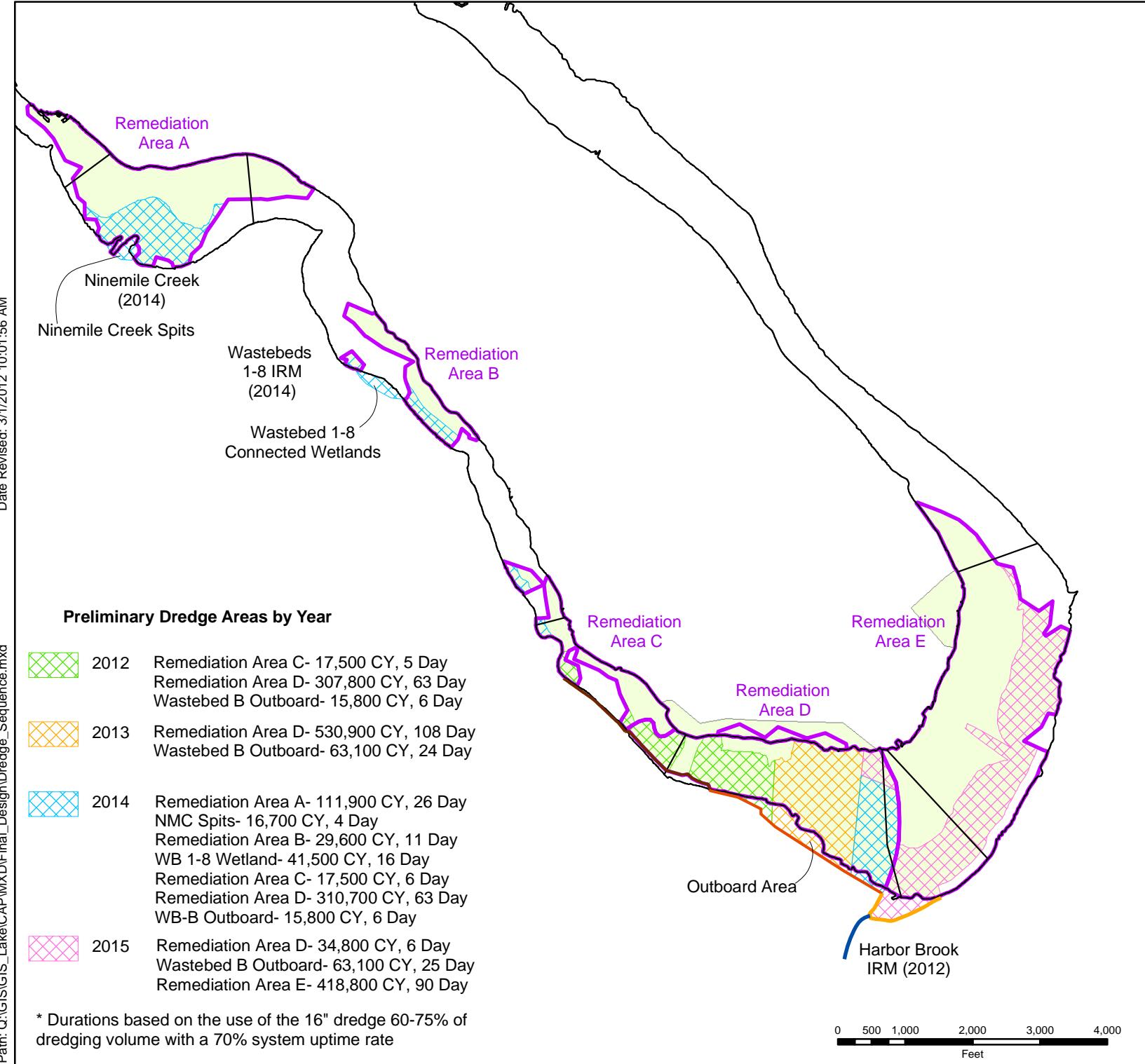


FIGURE 9.1

Honeywell Onondaga Lake
Syracuse, New York

Preliminary Dredge Sequence

PARSONS

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REMEDIATION
AREA A

REMEDIATION
AREA B

REMEDIATION
AREA C

REMEDIATION
AREA D

REMEDIATION
AREA E

PRELIMINARY CAP AREAS BY YEAR:

2012 REMEDIATION AREA C – 34,310 CY, 20 DAY
REMEDIATION AREA D – 174,447 CY, 88 DAY

2013 REMEDIATION AREA D & OUTBOARD AREA – 374,106 CY, 192 DAY

2014* REMEDIATION AREA A & NMC SPITS – 424,956 CY, 114 DAY
REMEDIATION AREA B & CONNECTED WETLANDS – 135,219 CY, 38 DAY
REMEDIATION AREA D & OUTBOARD AREA – 41,142 CY, 10 DAY
REMEDIATION AREA C – 102,929 CY, 10 DAY

2015* REMEDIATION AREA D & OUTBOARD AREA – 61,180 CY, 17 DAY
REMEDIATION AREA E & THIN LAYER CAP – 489,811 CY, 175 DAY

2016* REMEDIATION AREA E & THIN LAYER CAP – 483,686 CY, 168 DAY

* TWO CAPPING OPERATIONS

LEGEND:

- SEDIMENT MANAGEMENT UNITS (SMU) BOUNDARY
- REMEDIATION AREA BOUNDARY
- EAST WALL PORTION OF THE WB-B/HB IRM
- WEST WALL PORTION OF THE WB-B/HB IRM
- WILLIS/SEMET IRM BARRIER WALL

1500 0 1500 3000

SCALE: 1"=1500'

FIGURE 9.2

Honeywell

ONONDAGA LAKE
SYRACUSE, NY

PRELIMINARY CAP SEQUENCE

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