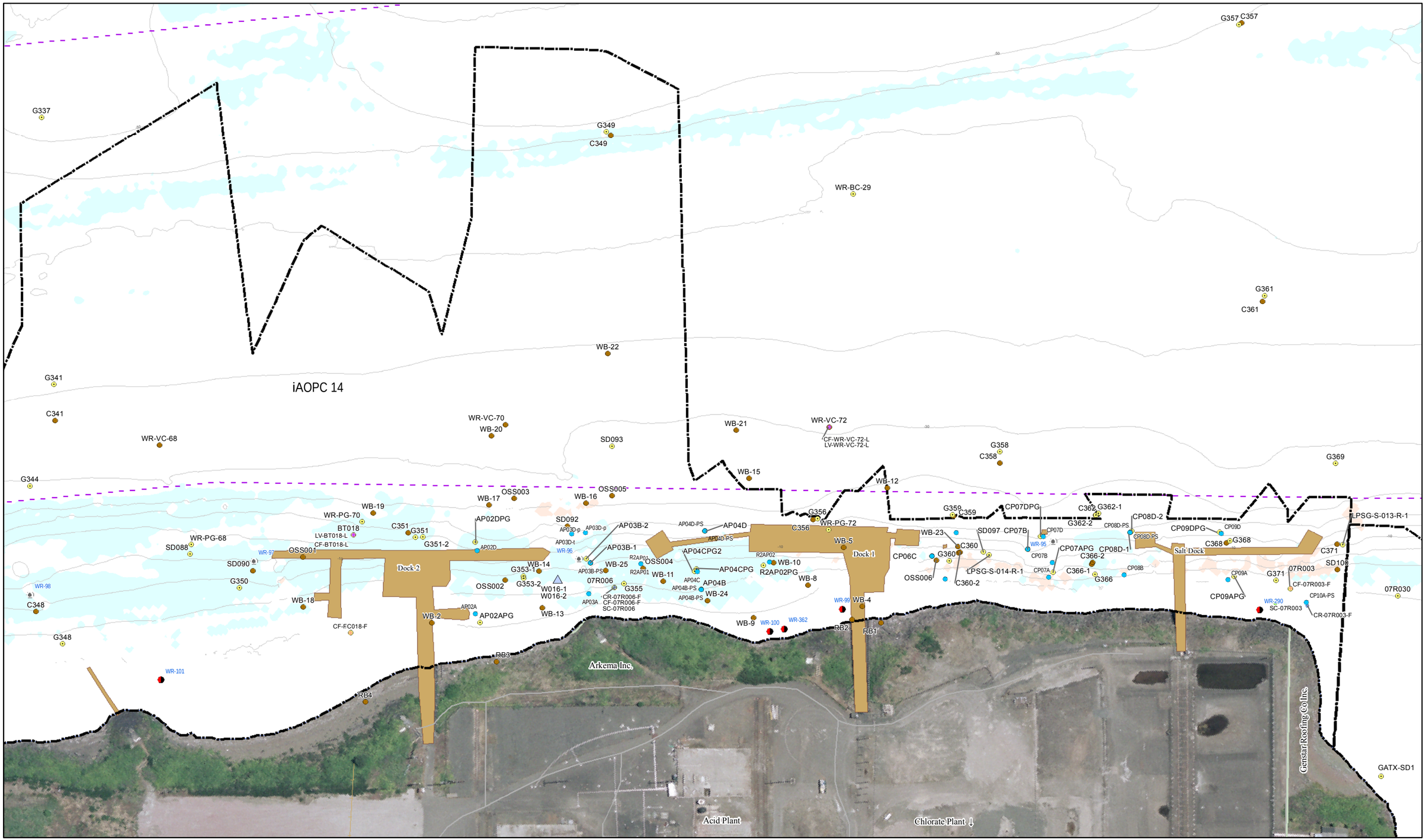


Map Document: (P:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\AOPCs\SiteOverviews01292007.mxd)
2/6/2007 -- 9:13:12 AM

integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

FEATURE SOURCES
Transportation, Property boundaries: Metro RLIS.

Channel & River miles: US Army Corps of Engineers.

Bathymetric Information: David Evans and Associates, Inc.

RLIS Aerial Images: February 2005 'leaf off' flight (6" pixel).

iAOPCs
River Mile
Navigation Channel
River 13ft NAVD88

Docks and Structures
Capping
Dredging (Post 1997)

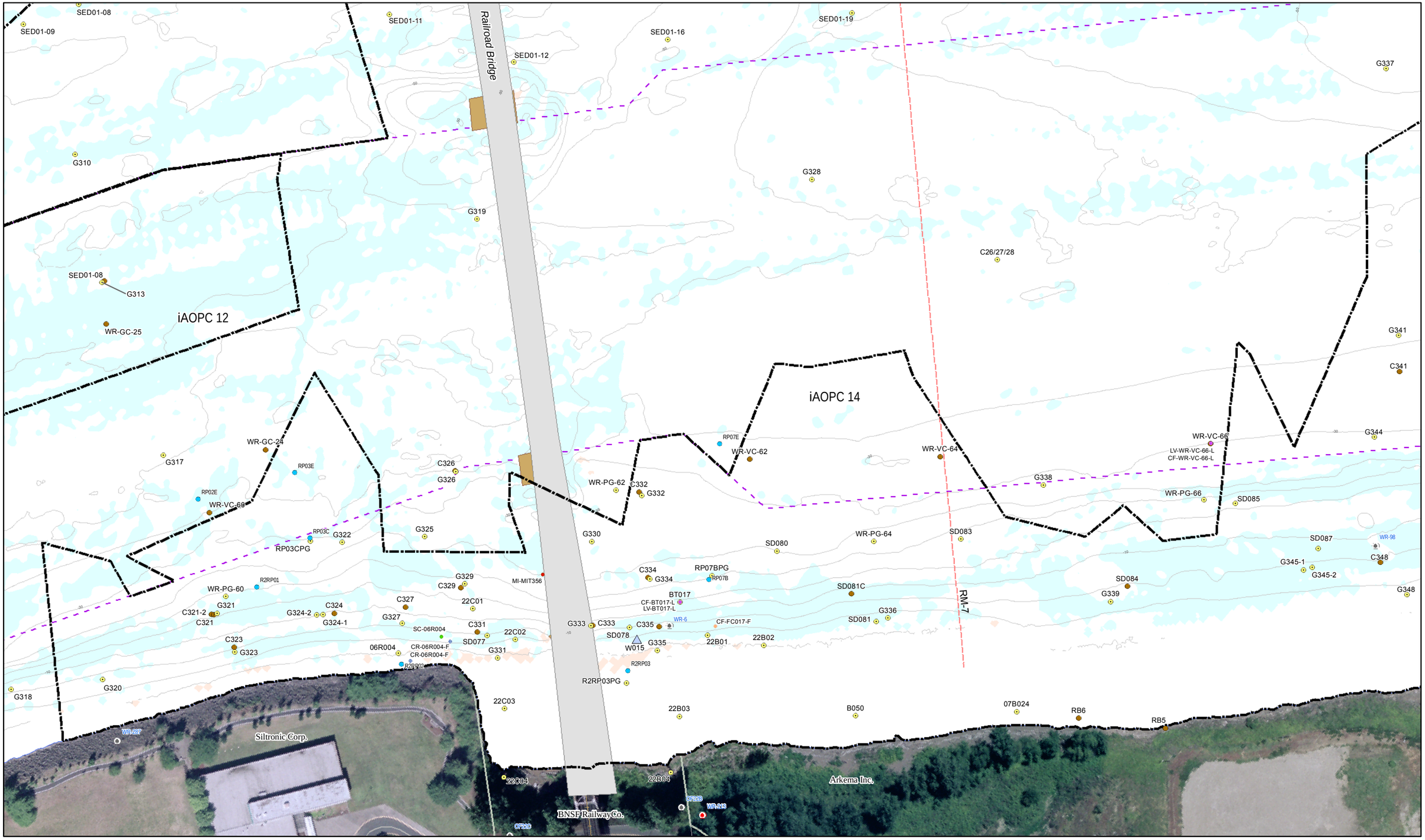
Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening

Clam, CF
Mudworm, LV
Crayfish, CR
Sculpin, SC
Multiplate Invertebrates, MI

Surface Water
Surface Sediment
Subsurface Sediment
TZW Sample Location (<38cm BML)

Active Outfalls
Unknown Outfalls
Abandoned Outfalls

Map 11.3.11-1a
Portland Harbor RI/FS
Comprehensive Round 2 Report
iAOPC Site Overview
iAOPC 14



Map Document: (P:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\AOPCs\SiteOverviews01292007.mxd)
2/6/2007 -- 9:13:12 AM

integral consulting inc.

LWG
LOWER WILLAMETTE GROUP

0 100 200 300 Feet

FEATURE SOURCES
Transportation, Property boundaries: Metro RLIS.

Channel & River miles: US Army Corps of Engineers.

Bathymetric Information: David Evans and Associates, Inc.

RLIS Aerial Images: February 2005 'leaf off' flight (6" pixel).

iAOPCs
River Mile
Navigation Channel
River 13ft NAVD88

Docks and Structures
Capping
Dredging (Post 1997)

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening

Clam, CF
Mudworm, LV
Crayfish, CR
Sculpin, SC
Multiplate Invertebrates, MI

Surface Water
Surface Sediment
Subsurface Sediment
TZW Sample Location (<38cm BML)

Active Outfalls
Unknown Outfalls
Abandoned Outfalls

Map 11.3.11-1b
Portland Harbor RI/FS
Comprehensive Round 2 Report
iAOPC Site Overview
iAOPC 14

iAOPC 13

iAOPC 14

Railroad Bridge

RM-7

RM-7.5

McCormick & Baxter Creosoting Co.

Siltronic Corp.

BNSF Railway Co.

City of Portland

Arkema Inc.

Genstar Roofing Co Inc.

ESCO Corp. - Willbridge Landfill

Nikko Materials Usa Inc.

Schnitzer Invest. Corp.

Metro Central Transfer Station

Percent (%) Fines

- 0-25
- 26-50
- 50-75
- 75-100
- Not Analyzed

integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

- Active Outfalls
- Unknown Outfalls
- Abandoned Outfalls
- Navigation Channel
- River_13ft_NAVD88

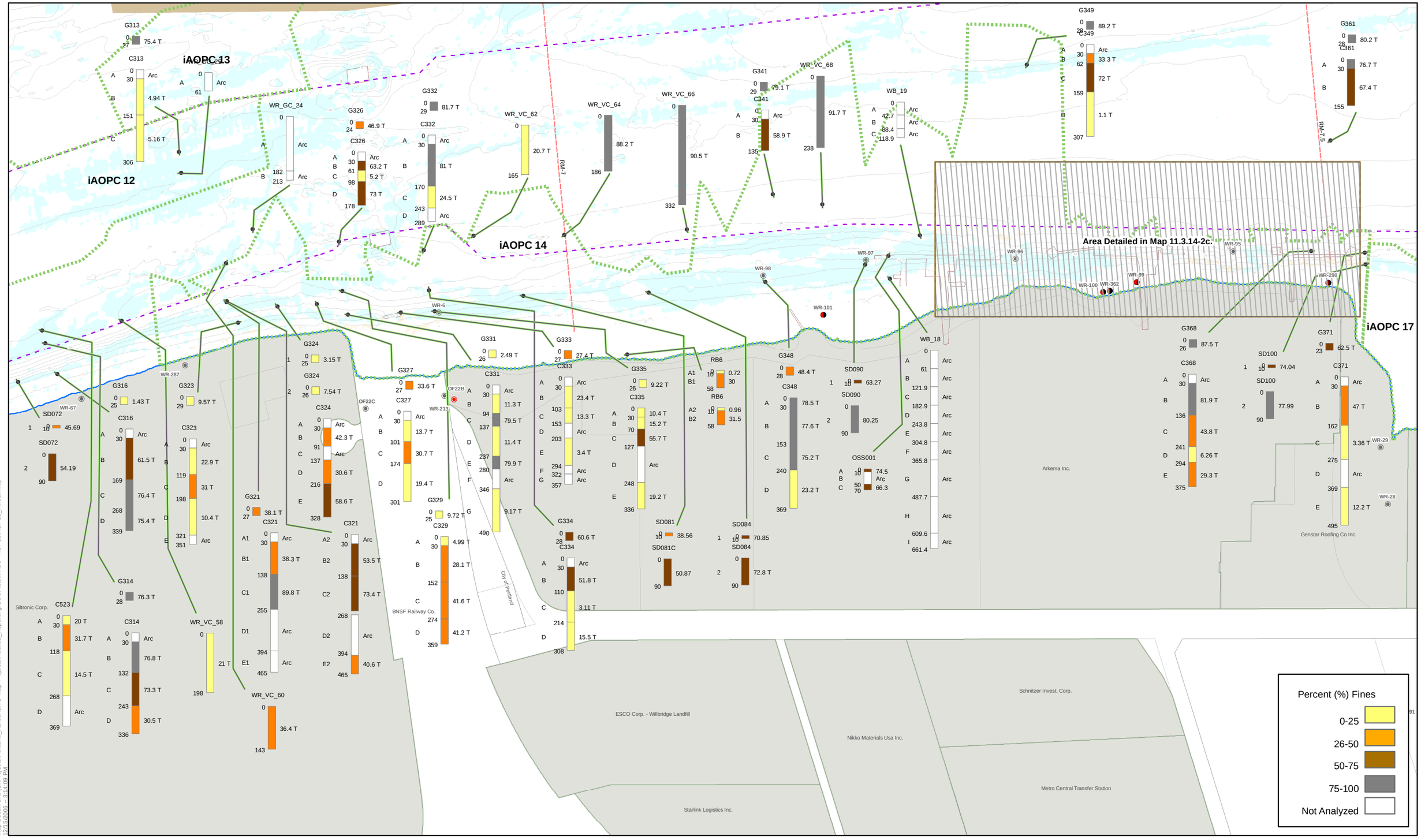
Bathymetric Change

- -22 - -0.49 Shoaling
- -0.5 - 0.5
- 0.51 - 37 Deepening
- 5 foot Contours (NAVD88)

- iAOPC Boundary
- capping
- Dredging (Post 1997)
- Dredged or Capped

Map 11.3.11-2a
Portland Harbor RI/FS
Comprehensive Round 2 Report
Surface Sediment Texture
Percent (%) Fines
iAOPC 14

Map Document: (Q:\Projects\Portland_Harbor\LWG_Map Projects\Round2_Reporting\AOPCs\MXDs\Surface_Fines.mxd) 12/3/2007 -- 11:21:33 AM



Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\AOPCs_Fines.mxd)
12/15/2006 -- 3:14:09 PM

integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

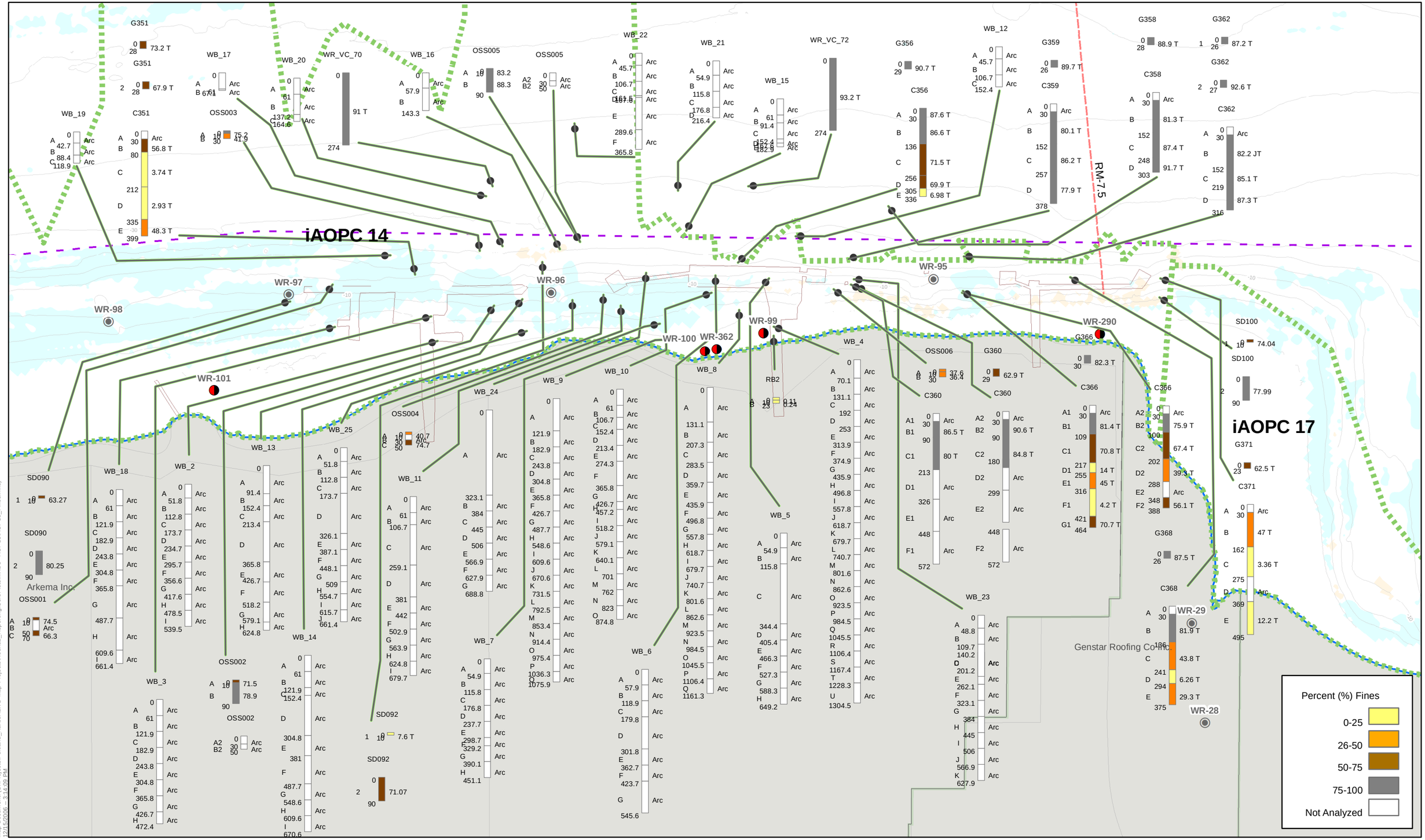
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

- Active Outfalls
- Unknown Outfalls
- Abandoned Outfalls
- Docks and Structures
- River Miles
- 5 foot Contours (NAVD88)

Bathymetric Change
- -22 - -0.49 Shoaling
- -0.5 - 0.5
- 0.51 - 37 Deepening
- Navigation Channel

- iAOPC Boundary
- Capping Footprint
- Dredging (Post 1997)

Map 11.3.11- 2b
Portland Harbor RI/FS
Comprehensive Round 2 Report
Subsurface Sediment Texture
Percent (%) Fines
iAOPC 14



integral consulting inc.

LWG Lower Willamette Group

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 100 200 300 Feet

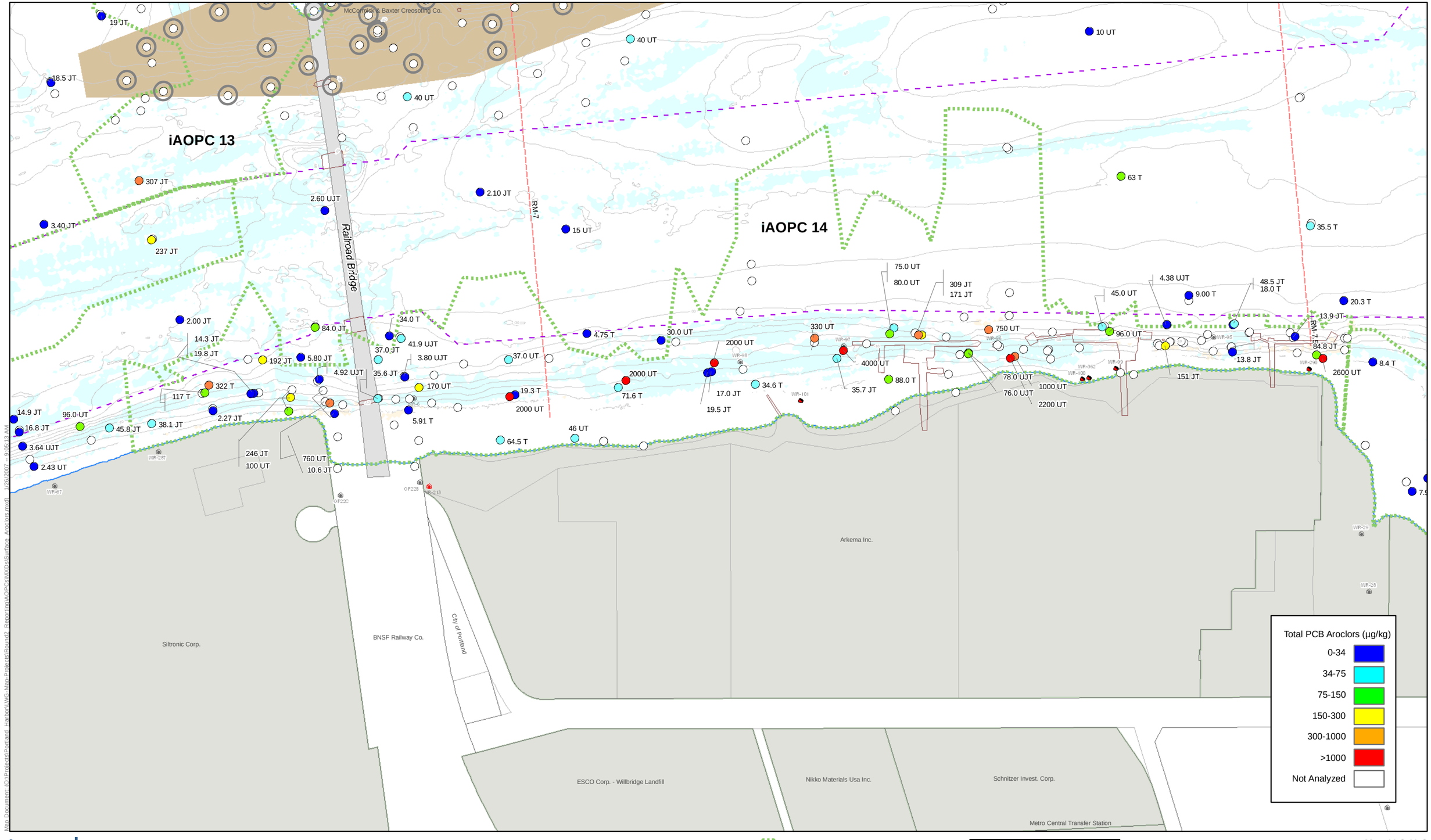
Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
River Miles
5 foot Contours (NAVD88)

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
Navigation Channel

iAOPC Boundary
Capping Footprint
Dredging (Post 1997)

Map 11.3.11- 2c
Portland Harbor RI/FS
Comprehensive Round 2 Report
Subsurface Sediment Texture
Percent (%) Fines
iAOPC 14

Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\AOPCs_Fines.mxd)
12/15/2008 -- 3:14:09 PM



integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
Navigation Channel
River_13ft_NAVD88

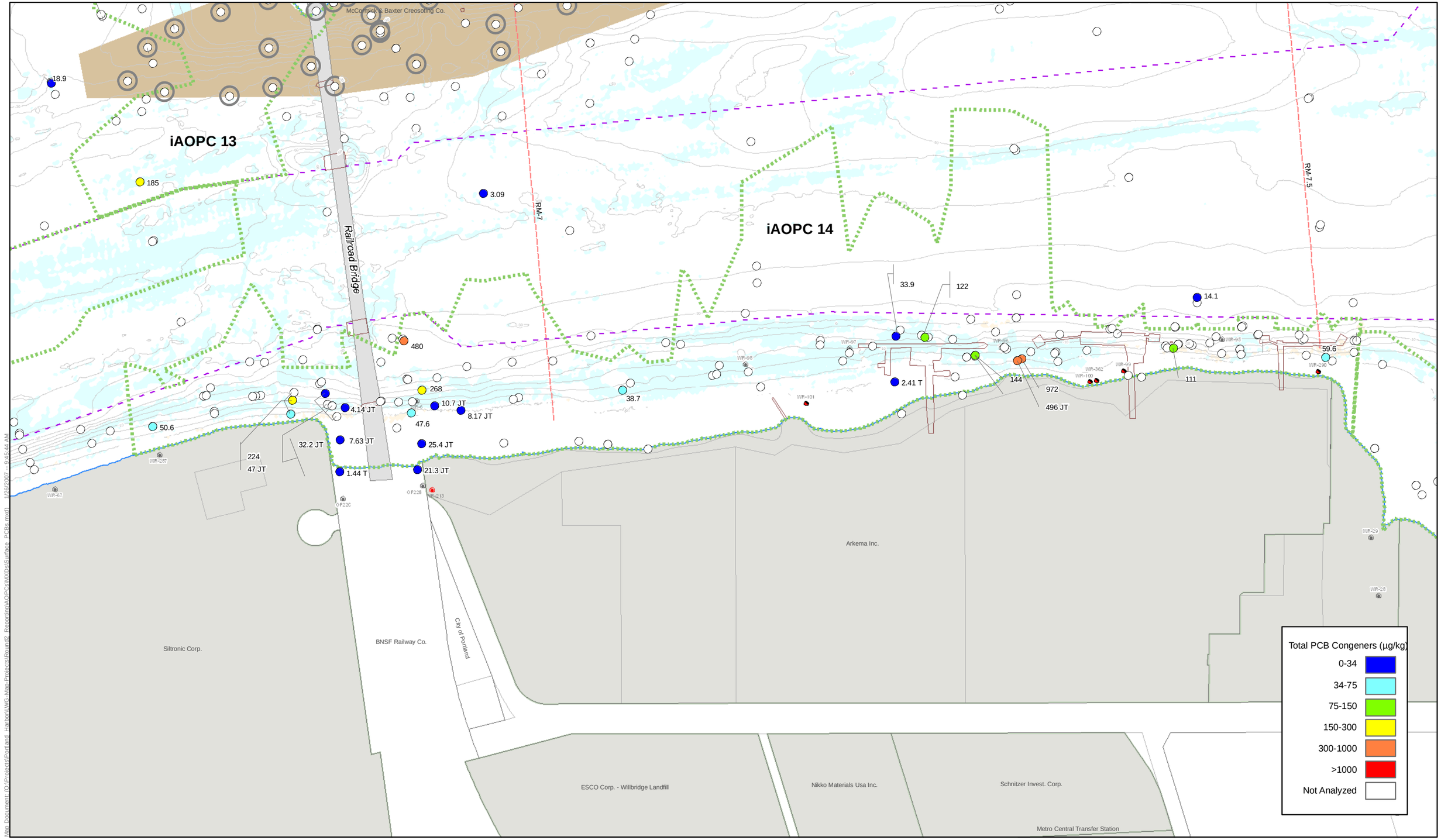
Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
5 foot Contours (NAVD88)

iAOPC Boundary
capping
Dredging (Post 1997)
Dredged or Capped

Map 11.3.11-3
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Surface Sediment
Total PCB Aroclors (µg/kg)

iAOPC 14

Map Document: (Q:\Projects\Portland_Harbor\LWG_Map Projects\Round2_Reporting\AOPCs\MXDs\Surface_Anoclors.mxd) 1/26/2007 -- 9:05:13 AM



integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

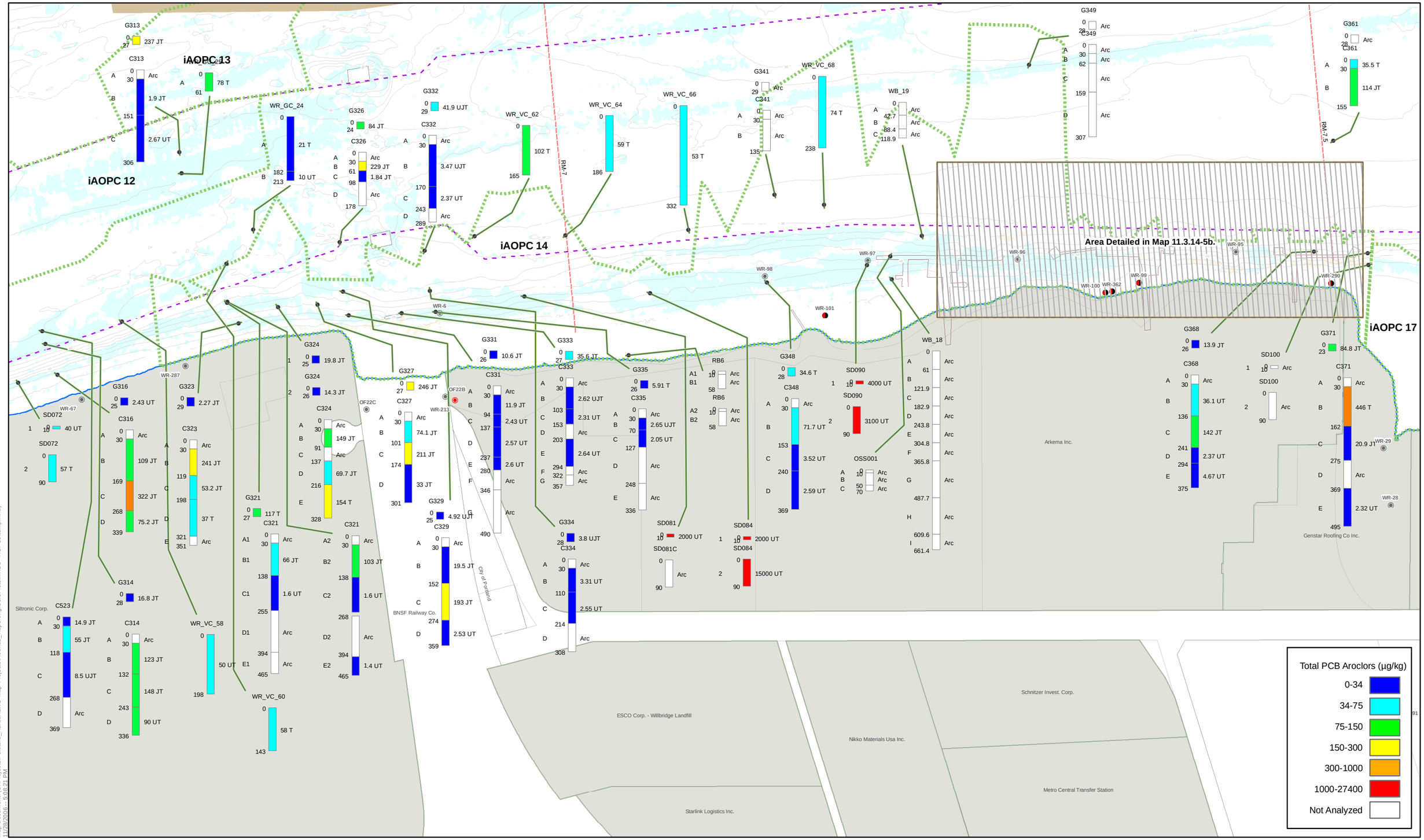
Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
Navigation Channel
River_13ft_NAVD88

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
5 foot Contours (NAVD88)

iAOPC Boundary
Capping footprint
Dredging (Post 1997)
Dredged or Capped

Map 11.3.11-4
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Surface Sediment
Total PCB Congeners (µg/kg)
iAOPC 14

Map Document: (G:\Projects\Portland_Harbor\LWG_Map Projects\Round2_Reporting\AOPCs\MXDs\Surface_PCBs.mxd)
1/26/2007 -- 9:45:44 AM



Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\temp.mxd)
12/28/2016 -- 5:09:21 PM

integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

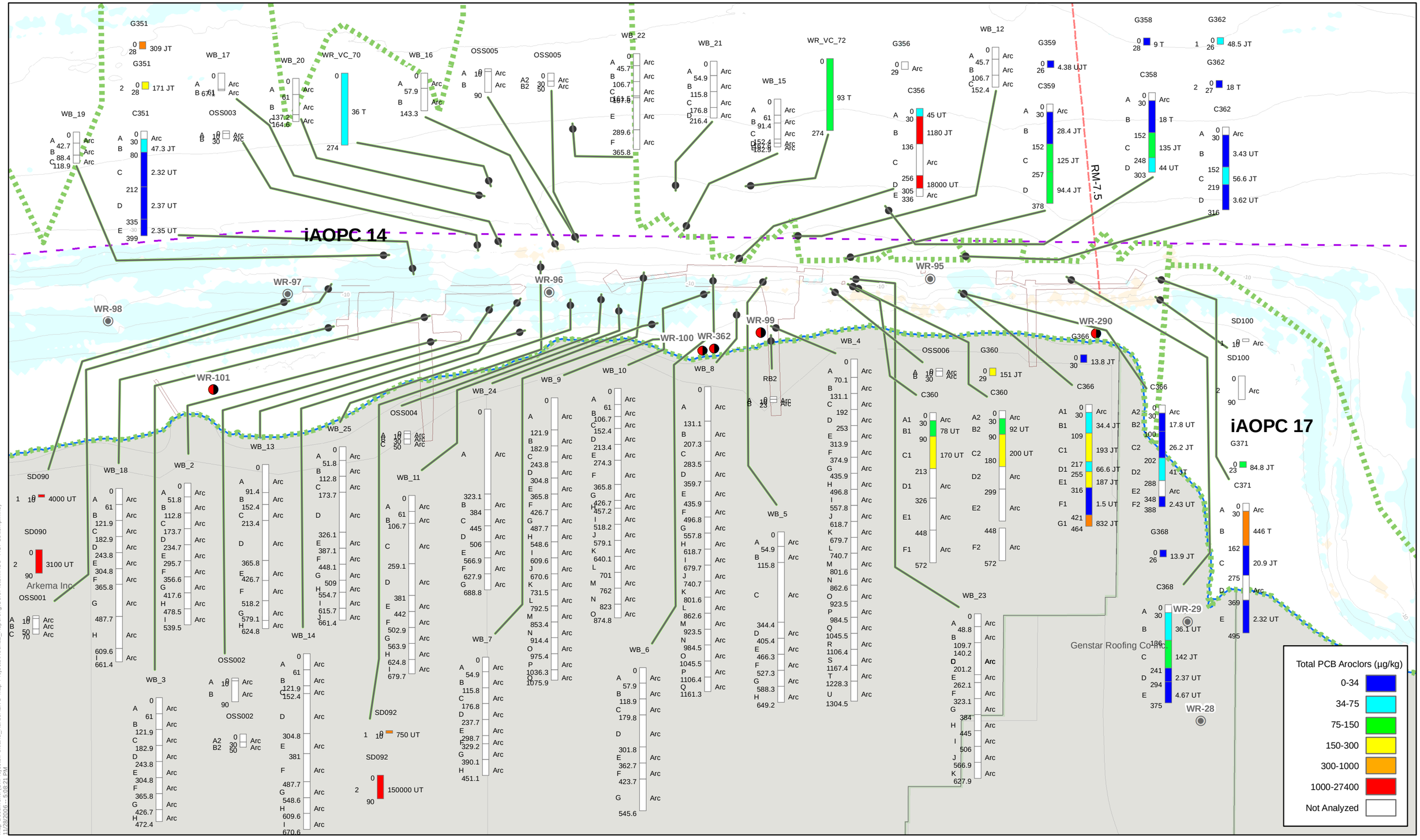
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

- Active Outfalls
- Unknown Outfalls
- Abandoned Outfalls
- Docks and Structures
- River Miles
- 5 foot Contours (NAVD88)

Bathymetric Change
- -22 - -0.49 Shoaling
- -0.5 - 0.5
- 0.51 - 37 Deepening
- Navigation Channel

- iAOPC Boundary
- Capping Footprint
- Dredging (Post 1997)

Map 11.3.11 - 5a
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Total PCB Aroclors (µg/kg)
iAOPC 14



Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\temp.mxd)
11/28/2006 -- 5:08:21 PM

integral consulting inc.

LWG LOWER WILLAMETTE GROUP

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

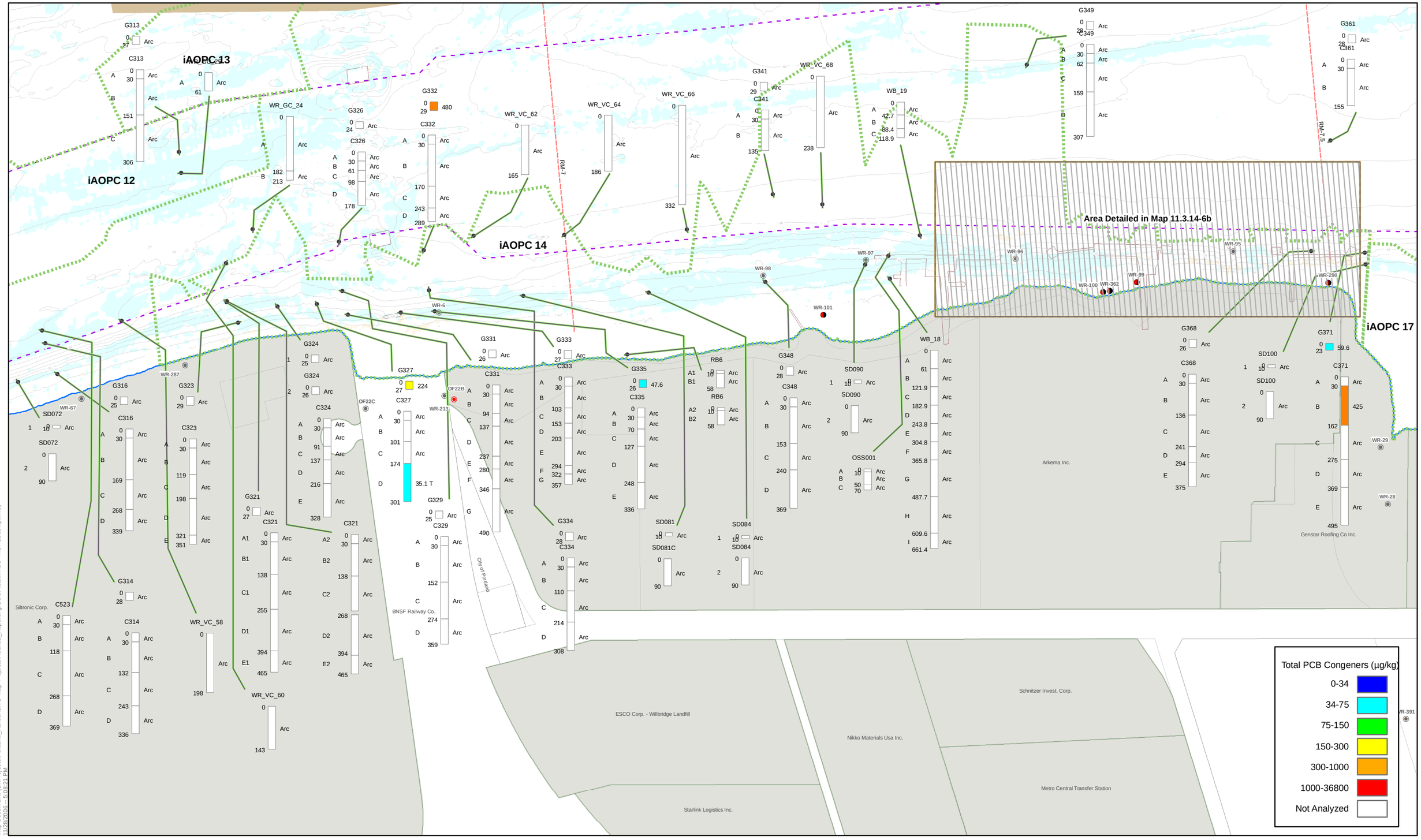
0 100 200 300 Feet

Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
River Miles
5 foot Contours (NAVD88)

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
Navigation Channel

iAOPC Boundary
Capping Footprint
Dredging (Post 1997)

Map 11.3.11- 5b
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Total PCB Aroclors (µg/kg)
iAOPC 14



Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\temp.mxd)
11/28/2016 -- 5:08:21 PM

integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

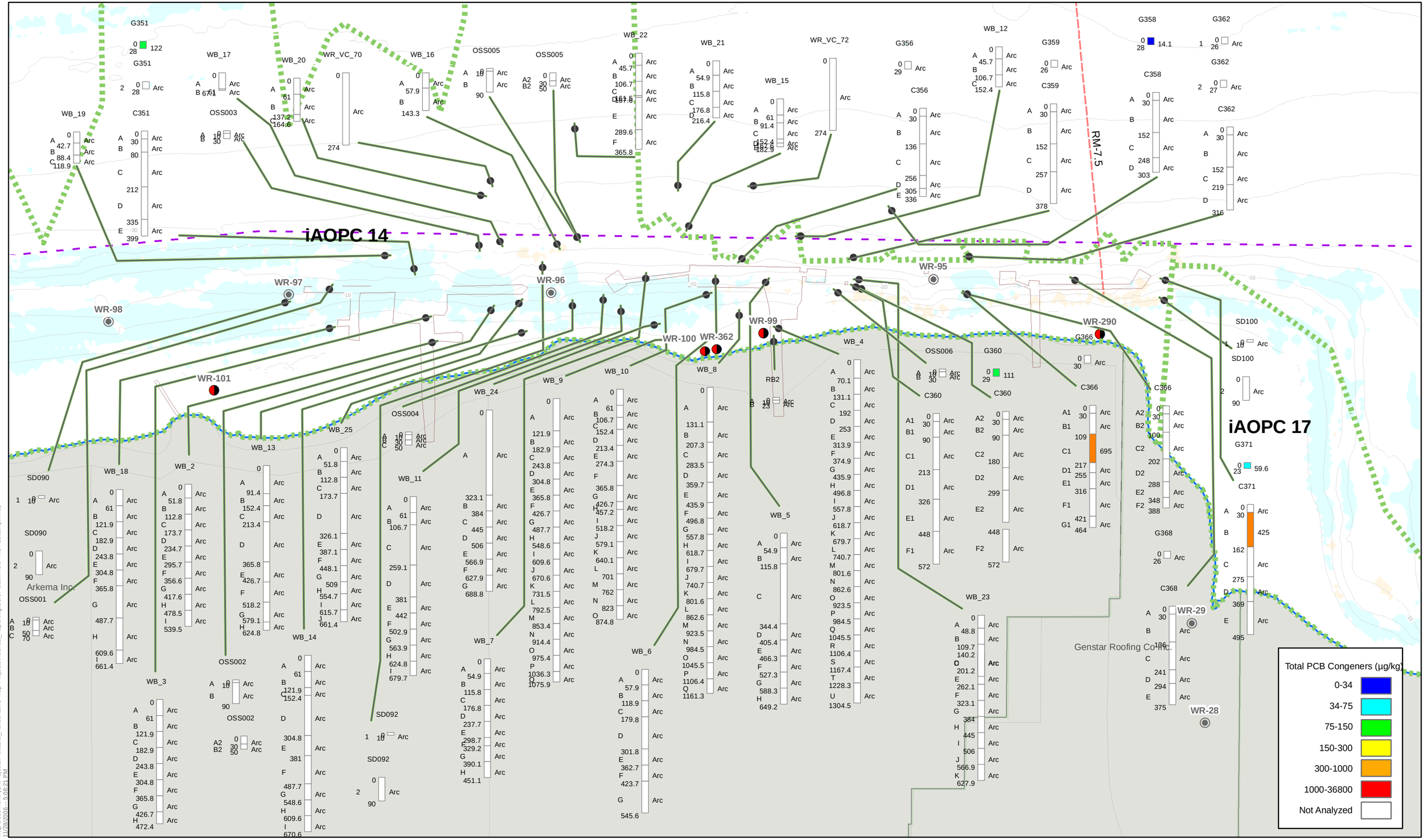
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
River Miles
5 foot Contours (NAVD88)

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
Navigation Channel

iAOPC Boundary
Capping Footprint
Dredging (Post 1997)

Map 11.3.11 - 6a
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Total PCB Congeners (µg/kg)
iAOPC 14



Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\temp.mxd)
11/28/2016 -- 5:08:21 PM

integral consulting inc.

LWG Lower Willamette Group

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 100 200 300 Feet

- Active Outfalls
- Unknown Outfalls
- Abandoned Outfalls
- Docks and Structures
- River Miles
- 5 foot Contours (NAVD88)

Bathymetric Change
- -22 - -0.49 Shoaling
- -0.5 - 0.5
- 0.51 - 37 Deepening
- Navigation Channel

- iAOPC Boundary
- Capping Footprint
- Dredging (Post 1997)

Map 11.3.11- 6b
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Total PCB Congeners (µg/kg)
iAOPC 14

iAOPC 13

iAOPC 14

Railroad Bridge

RM-7

RM-7.5

McCormick & Baxter Creosoting Co.

Arkema Inc.

Siltronic Corp.

BNSF Railway Co.

City of Portland

ESCO Corp. - Willbridge Landfill

Nikko Materials Usa Inc.

Schnitzer Invest. Corp.

Metro Central Transfer Station

Arsenic (mg/kg)

- 0-5
- 5-10
- 10-15
- 15-20
- 20-25
- >25
- Not Analyzed

integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

- Active Outfalls
- Unknown Outfalls
- Abandoned Outfalls
- Docks and Structures
- Navigation Channel
- River_13ft_NAVD88

Bathymetric Change

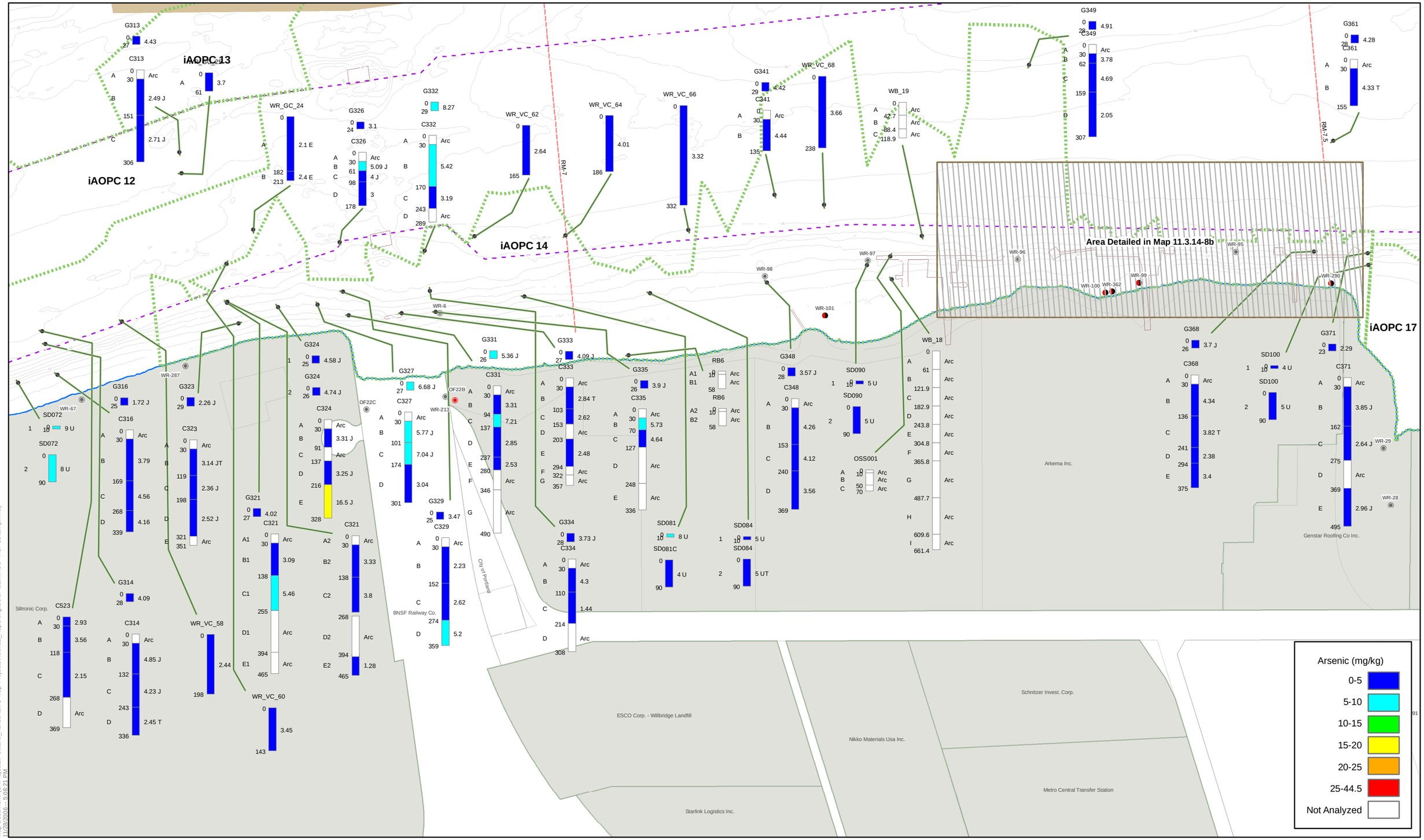
- -22 - -0.49 Shoaling
- -0.5 - 0.5
- 0.51 - 37 Deepening
- 5 foot Contours (NAVD88)

- iAOPC Boundary
- capping
- Dredging (Post 1997)
- Dredged or Capped

Map 11.3.11-7
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Surface Sediment
Arsenic (mg/kg)

iAOPC 14

Map Document: (Q:\Projects\Portland_Harbor\LWG_Map_Projects\Round2_Reporting\AOPCs\MXDs\Surface_Arsenic.mxd) 1/29/2007 -- 10:44:31 AM



Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\temp.mxd)
12/28/2016 -- 5:08:21 PM

integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

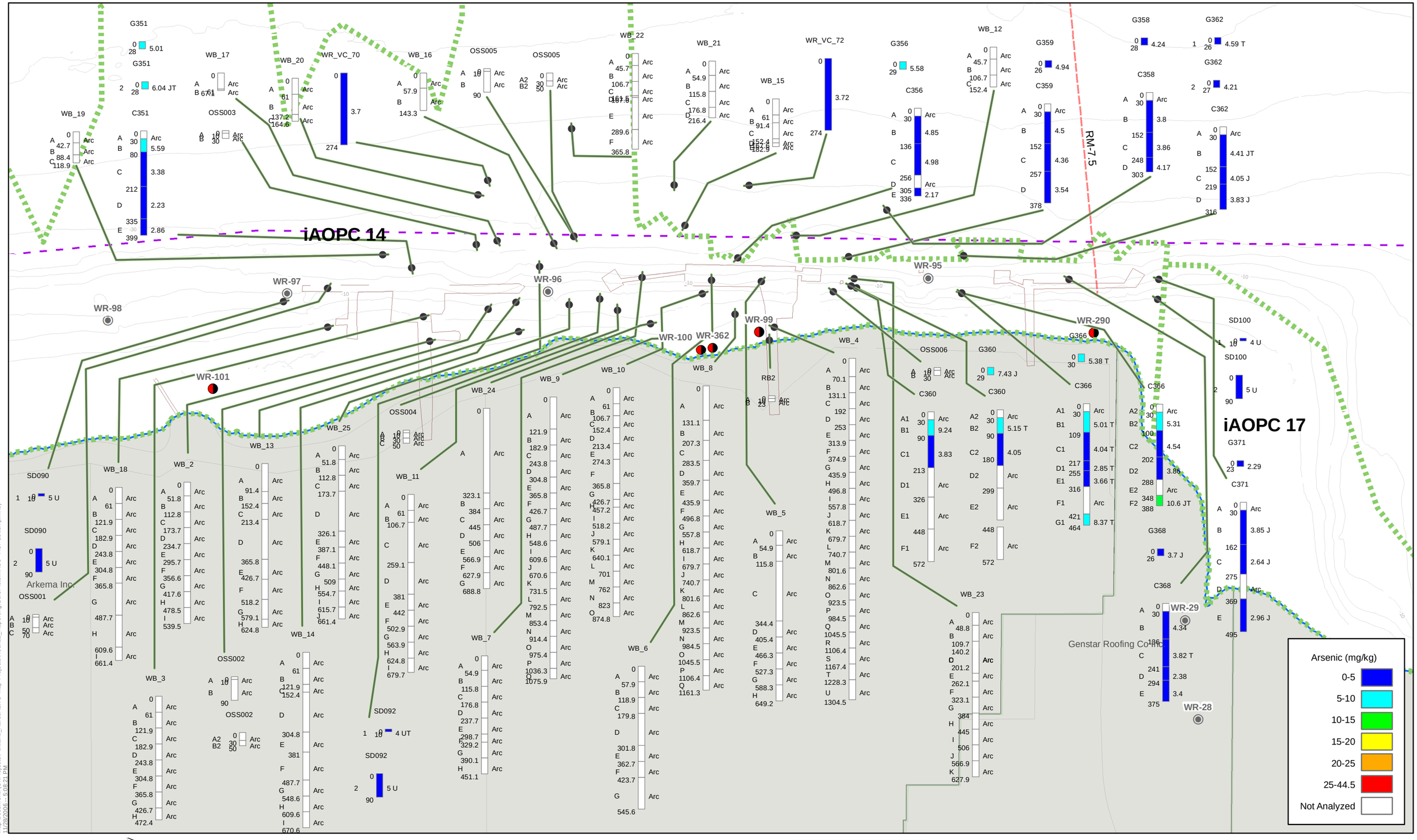
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
River Miles
5 foot Contours (NAVD88)

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
Navigation Channel

iAOPC Boundary
Capping Footprint
Dredging (Post 1997)

Map 11.3.11- 8a
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Arsenic (mg/kg)
iAOPC 14



Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\temp.mxd)
11/28/2006 -- 5:08:21 PM

integral consulting inc.

LWG LOWER WILLAMETTE GROUP

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

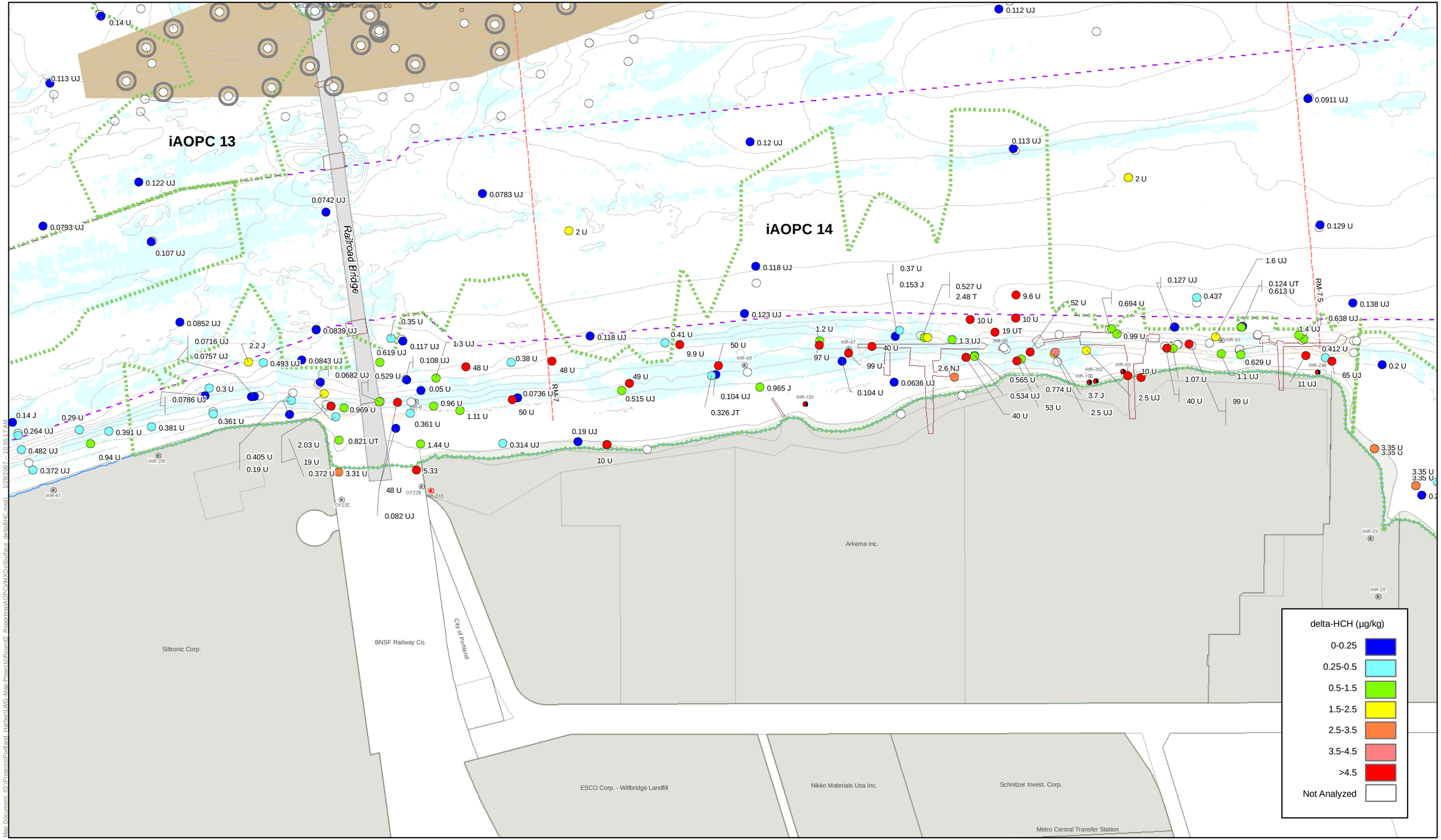
0 100 200 300 Feet

Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
River Miles
5 foot Contours (NAVD88)

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
Navigation Channel

iAOPC Boundary
Capping Footprint
Dredging (Post 1997)

Map 11.3.11- 8b
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Arsenic (mg/kg)
iAOPC 14



integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

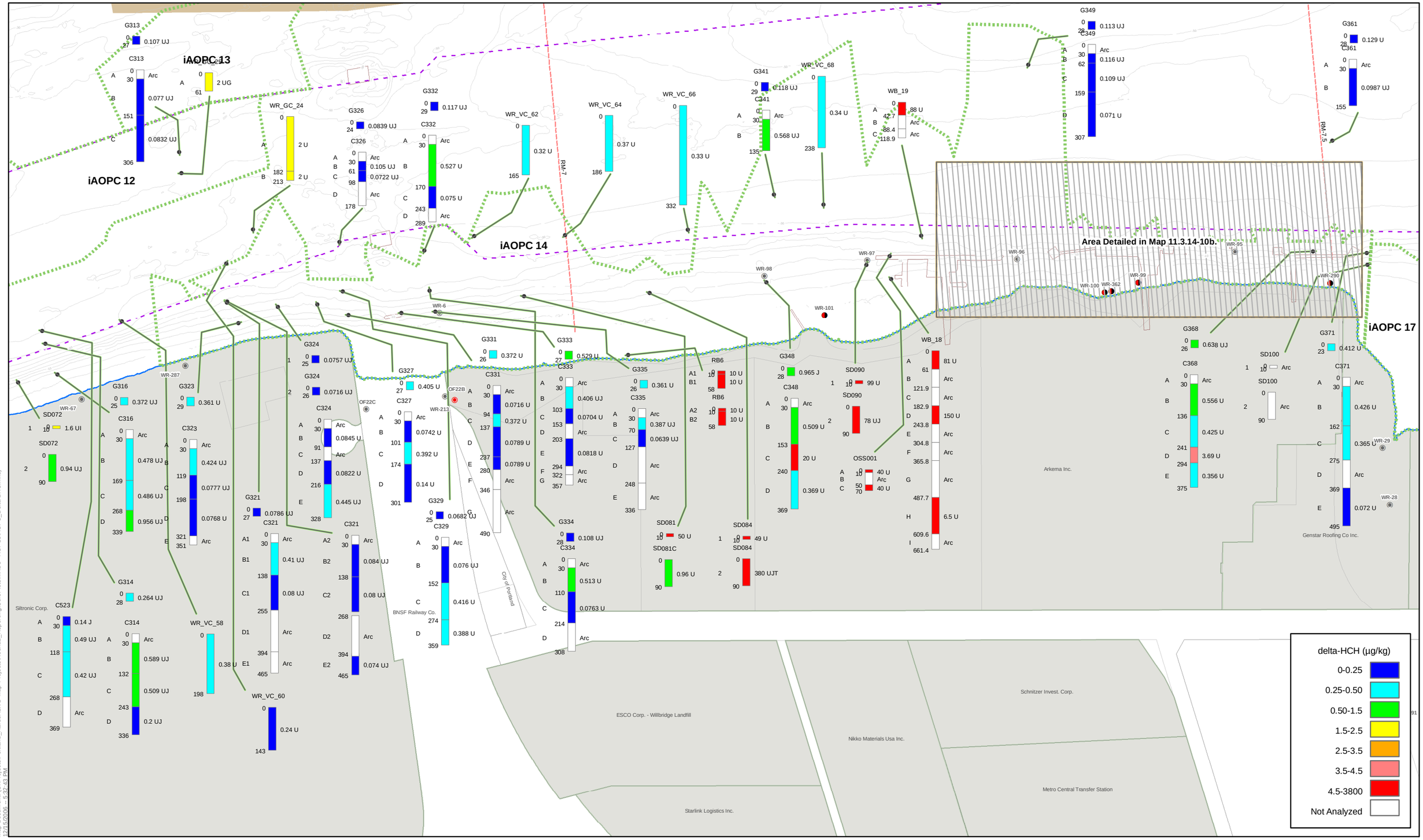
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
Navigation Channel
River_13ft_NAVD88

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
5 foot Contours (NAVD88)

iAOPC Boundary
capping
Dredging (Post 1997)
Dredged or Capped

Map 11.3.11-9
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Surface Sediment
delta-Hexachlorocyclohexane (µg/kg)
iAOPC 14



Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\AOPC_Delta-BHC.mxd)
12/15/2006 -- 5:32:43 PM

integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

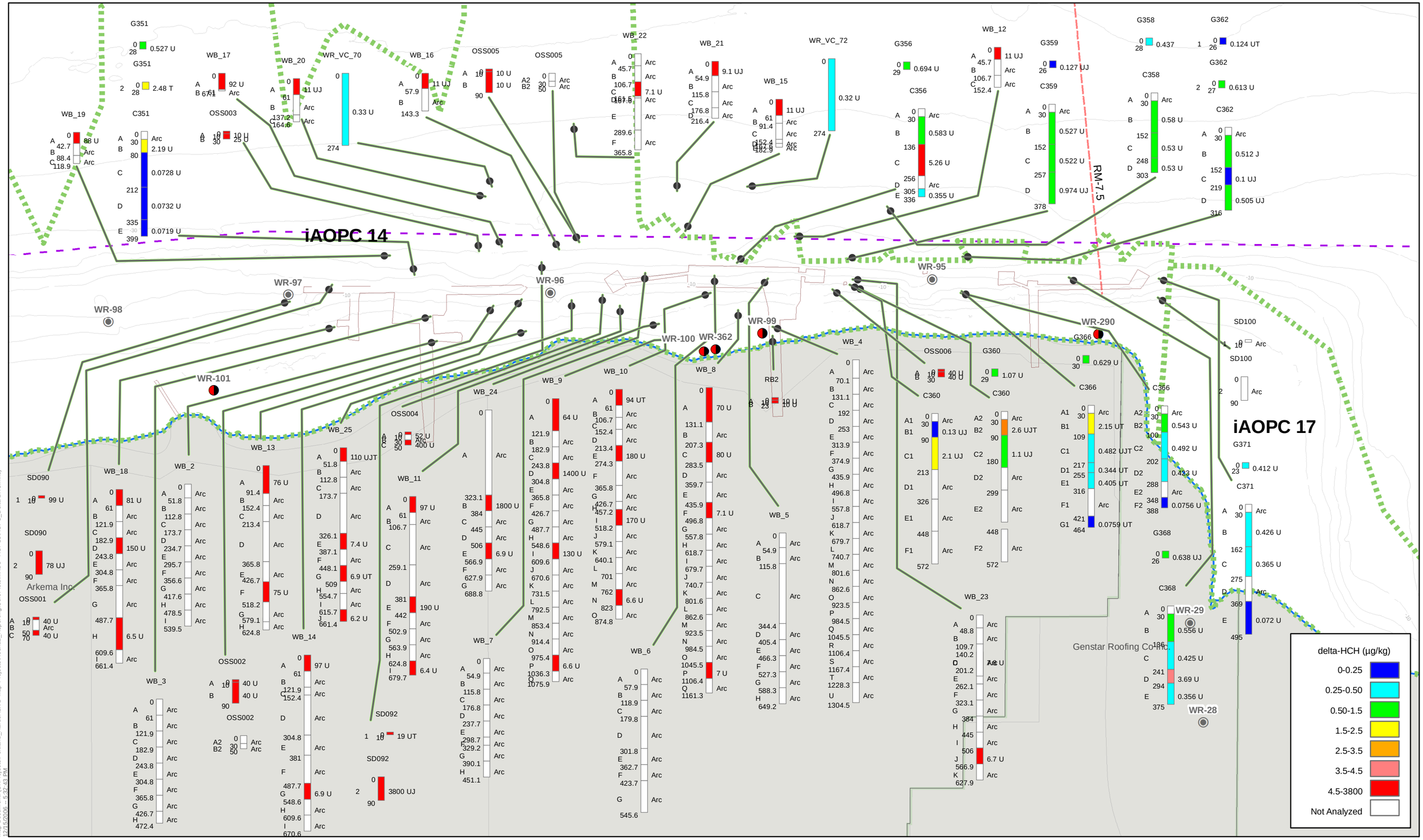
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

- Active Outfalls
- Unknown Outfalls
- Abandoned Outfalls
- Docks and Structures
- River Miles
- 5 foot Contours (NAVD88)

Bathymetric Change
- -22 - -0.49 Shoaling
- -0.5 - 0.5
- 0.51 - 37 Deepening
- Navigation Channel

- iAOPC Boundary
- Capping Footprint
- Dredging (Post 1997)

Map 11.3.11-10a
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentration in Subsurface Sediment
delta-Hexachlorocyclohexane (µg/kg)
iAOPC 14



integral consulting inc.

LWG Lower Willamette Group

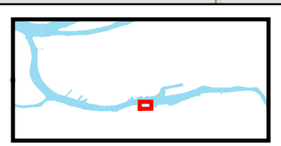
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 100 200 300 Feet

Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
River Miles
5 foot Contours (NAVD88)

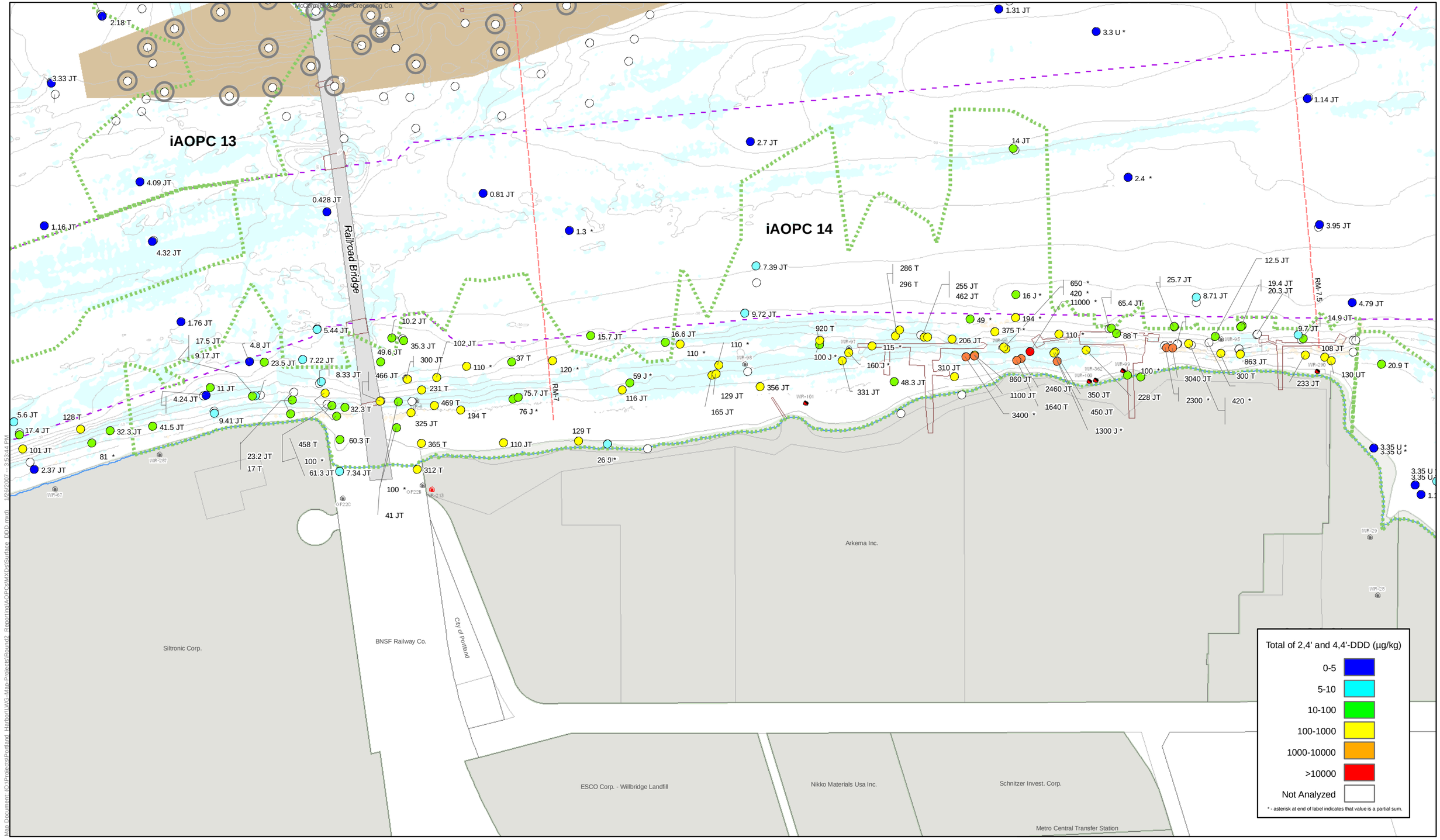
Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
Navigation Channel

iAOPC Boundary
Capping Footprint
Dredging (Post 1997)



Map 11.3.11-10b
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentration in Subsurface Sediment
delta-Hexachlorocyclohexane (µg/kg)
iAOPC 14

Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\AOPC_Delta-BHC.mxd)
2/15/2008 -- 5:32:43 PM



integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

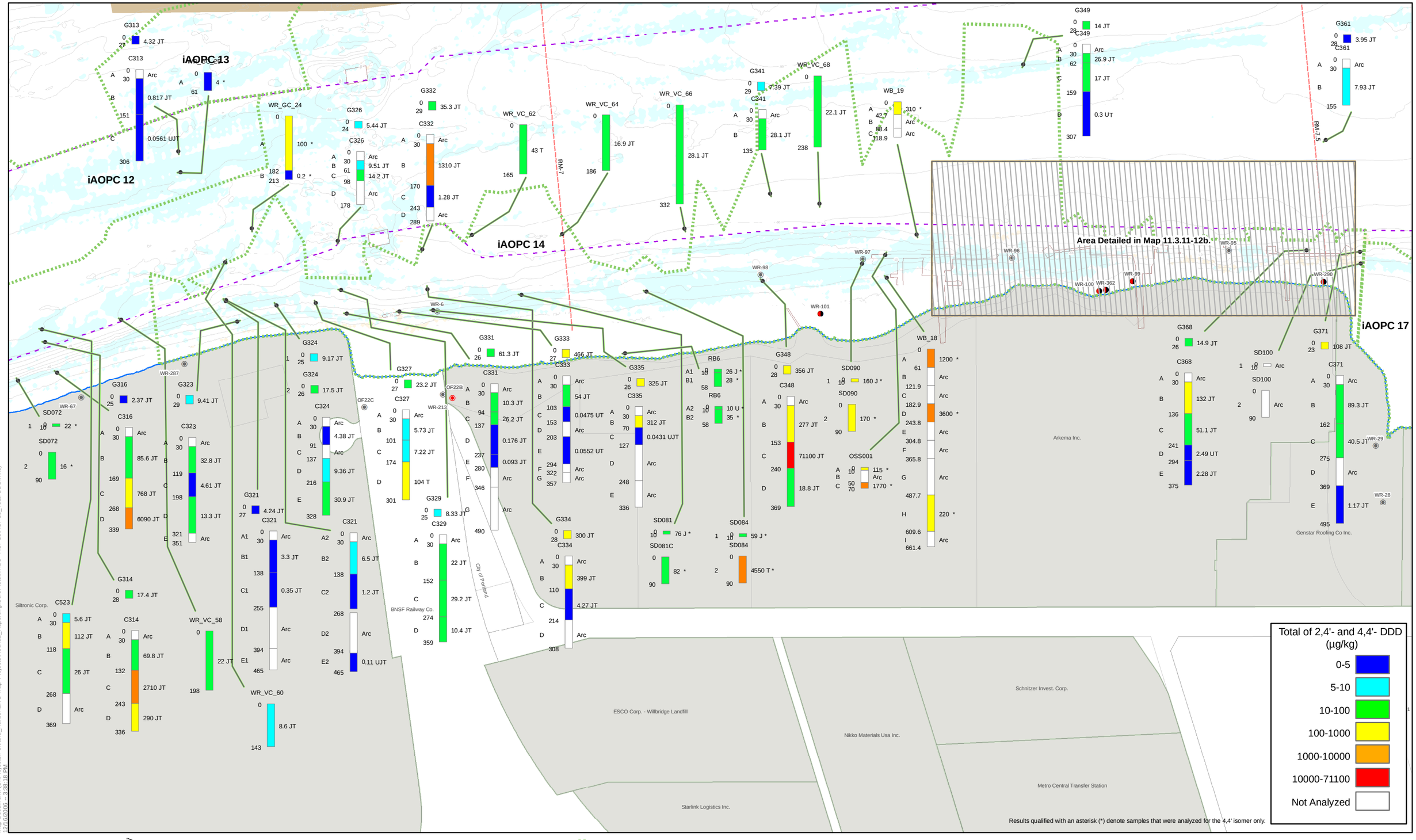
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

- Active Outfalls
- Unknown Outfalls
- Abandoned Outfalls
- Docks and Structures
- Navigation Channel
- River_13ft_NAVD88

Bathymetric Change
- -22 - -0.49 Shoaling
- -0.5 - 0.5
- 0.51 - 37 Deepening
- 5 foot Contours (NAVD88)

- AOPC Boundary
- capping
- Dredging (Post 1997)
- Dredged or Capped

Map 11.3.11-11
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Surface Sediment
Total of 2,4' and 4,4'-DDD (µg/kg)
iAOPC 14



integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

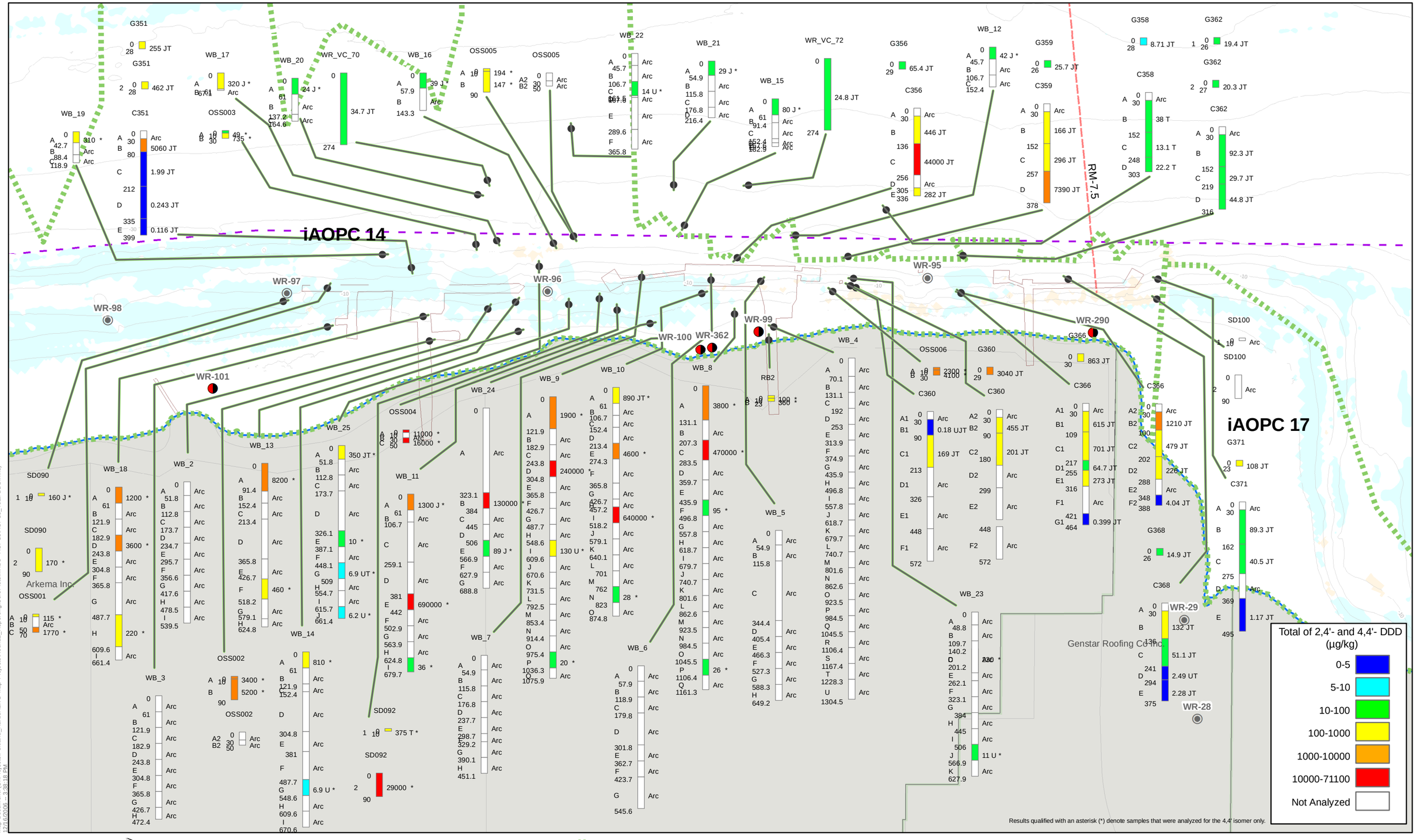
Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
River Miles
5 foot Contours (NAVD88)

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
Navigation Channel

iAOPC Boundary
Capping Footprint
Dredging (Post 1997)

Map 11.3.11-12a
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Total of 2,4'- and 4,4'- DDD (µg/kg)
iAOPC 14

Map Document: (O:\Projects\Portland_Harbor\LWG-Map_Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\AOPCs_Total DDD.mxd)
12/14/2016 -- 3:38:18 PM



integral consulting inc.

LWG Lower Willamette Group

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 100 200 300 Feet

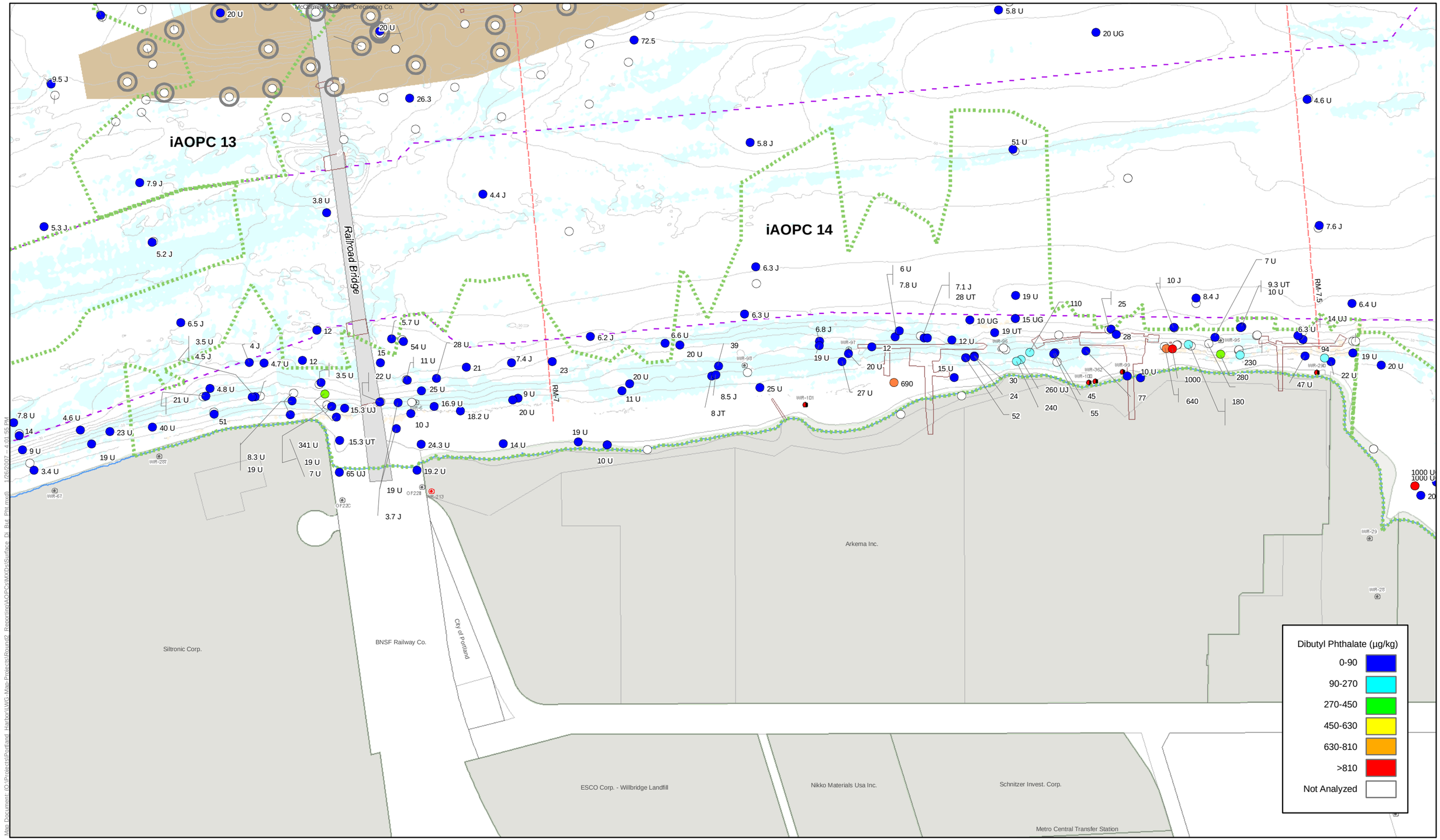
Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
River Miles
5 foot Contours (NAVD88)

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
Navigation Channel

iAOPC Boundary
Capping Footprint
Dredging (Post 1997)

Map 11.3.11-12b
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Total of 2,4'- and 4,4'- DDD (µg/kg)
iAOPC 14

Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\AOPCs_Total DDD.mxd)
2/16/2006 -- 3:38:18 PM



integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

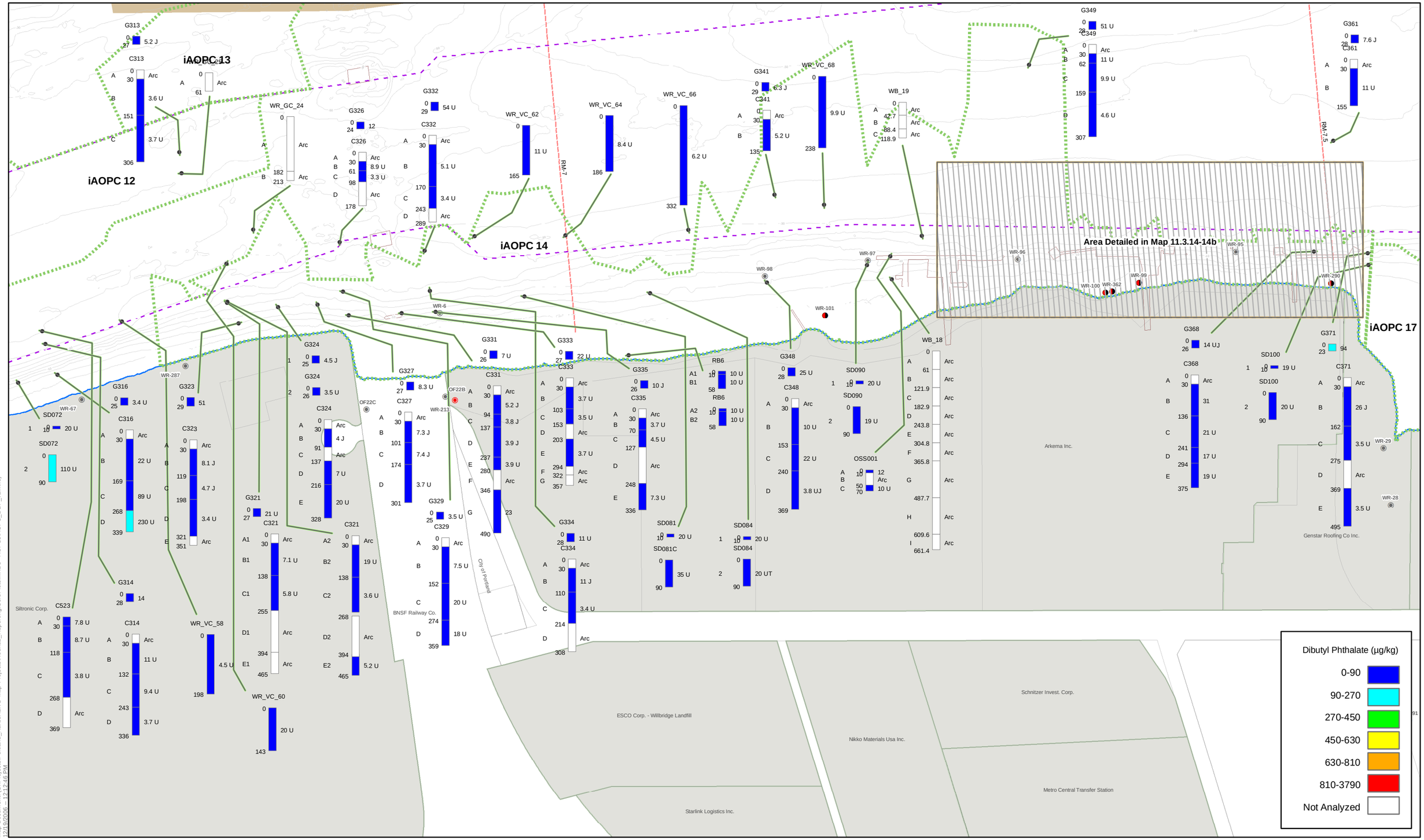
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Active Outfalls
Unknown Outfalls
Abandoned Outfalls
River_13ft_NAVD88
Docks and Structures
Navigation Channel

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
5 foot Contours (NAVD88)

iAOPC Boundary
Capping footprint
Dredging (Post 1997)
Dredged or Capped

Map 11.3.11-13
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Surface Sediment
Dibutyl Phthalate (µg/kg)
iAOPC 14



Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\AOPC_DBP_v2.mxd)
2/19/2016 -- 12:12:46 PM

integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

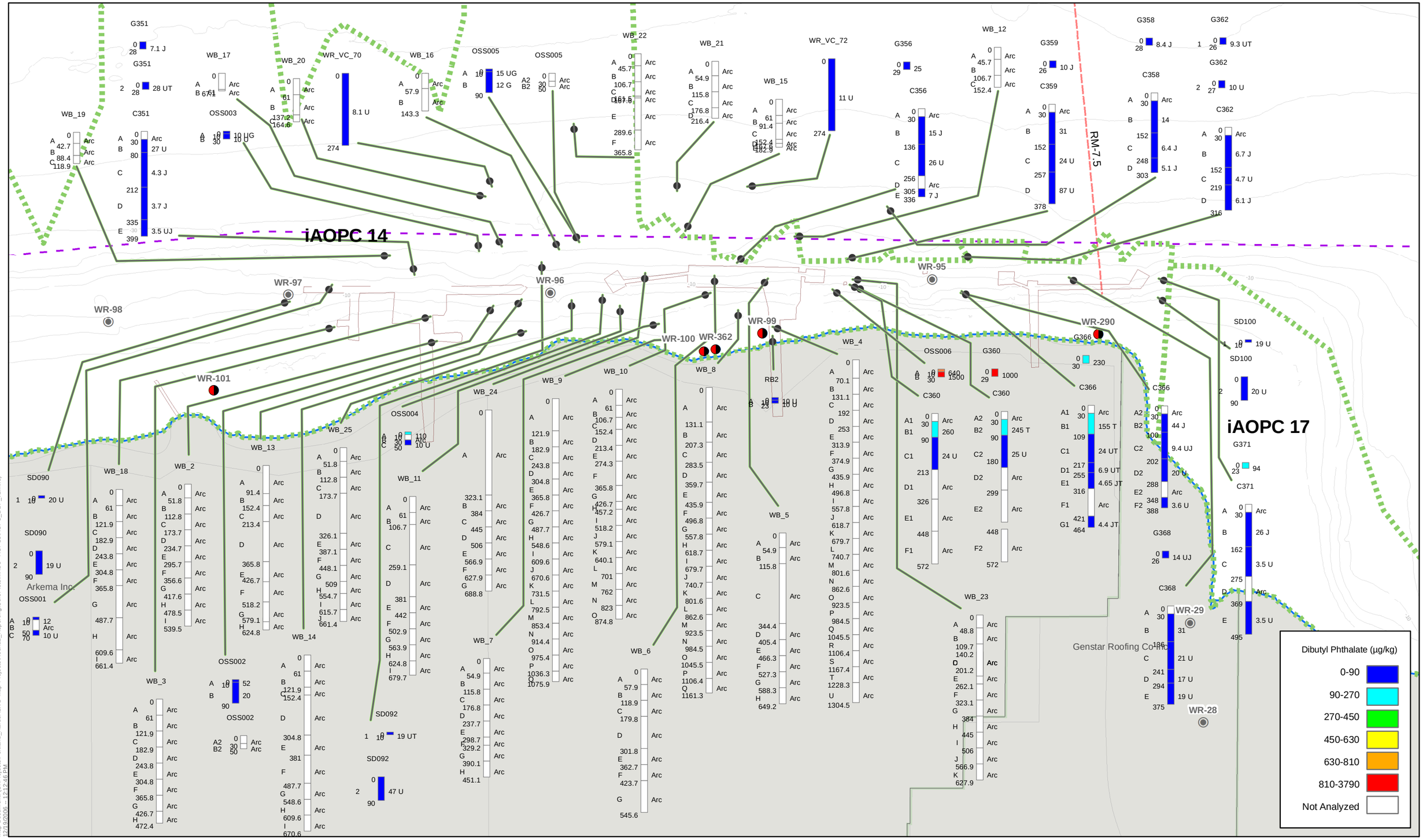
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

- Active Outfalls
- Unknown Outfalls
- Abandoned Outfalls
- Docks and Structures
- River Miles
- 5 foot Contours (NAVD88)

Bathymetric Change
- -22 - -0.49 Shoaling
- -0.5 - 0.5
- 0.51 - 37 Deepening
- Navigation Channel

- iAOPC Boundary
- Capping Footprint
- Dredging (Post 1997)

Map 11.3.11-14a
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Dibutyl Phthalate (µg/kg)
iAOPC 14



integral consulting inc.

LWG Lower Willamette Group

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 100 200 300 Feet

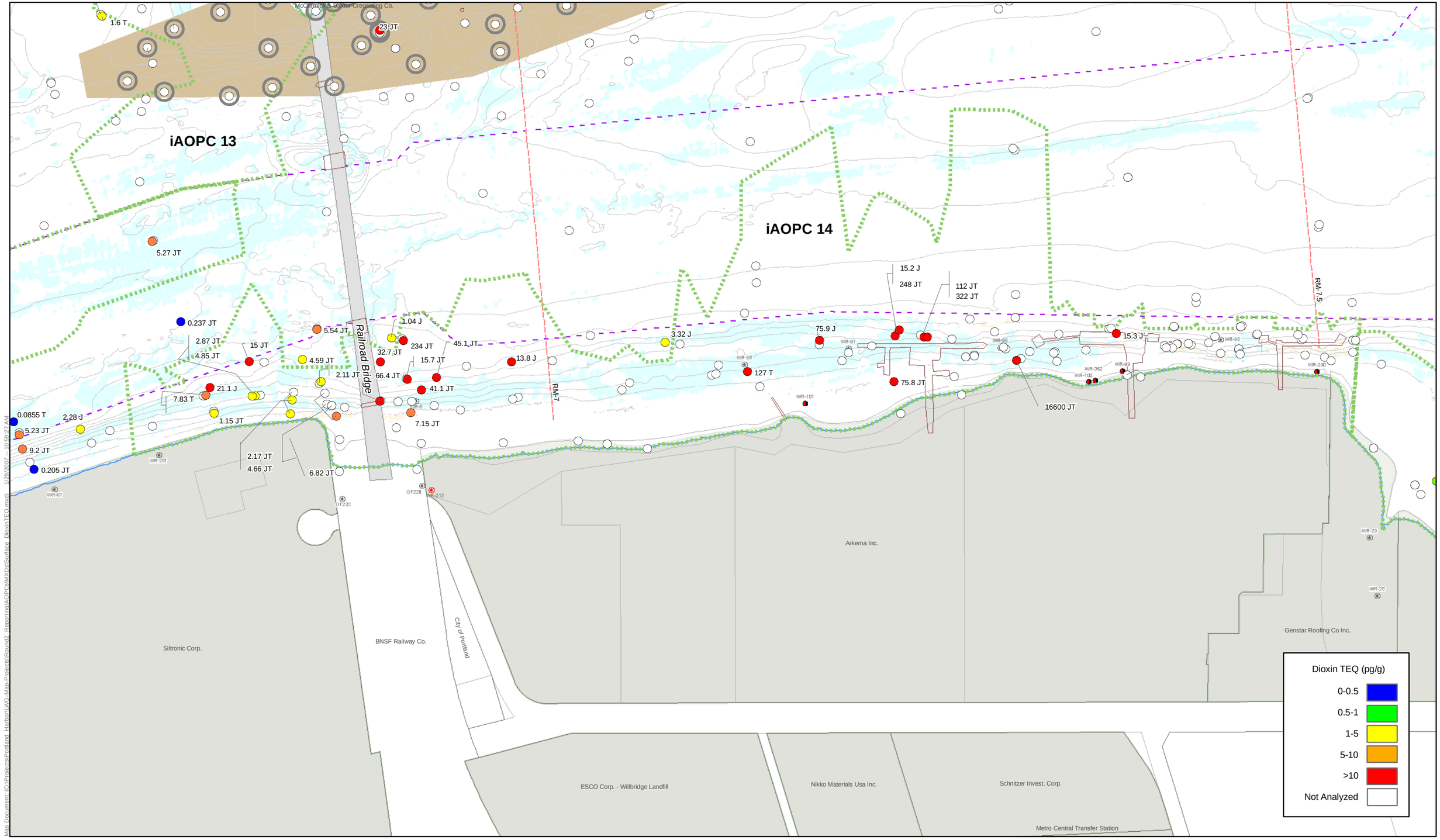
Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
River Miles
5 foot Contours (NAVD88)

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
Navigation Channel

iAOPC Boundary
Capping Footprint
Dredging (Post 1997)

Map 11.3.11-14b
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Dibutyl Phthalate (µg/kg)
iAOPC 14

Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\AOPC_DBP_v2.mxd)
2/13/2008 -- 12:12:46 PM



integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

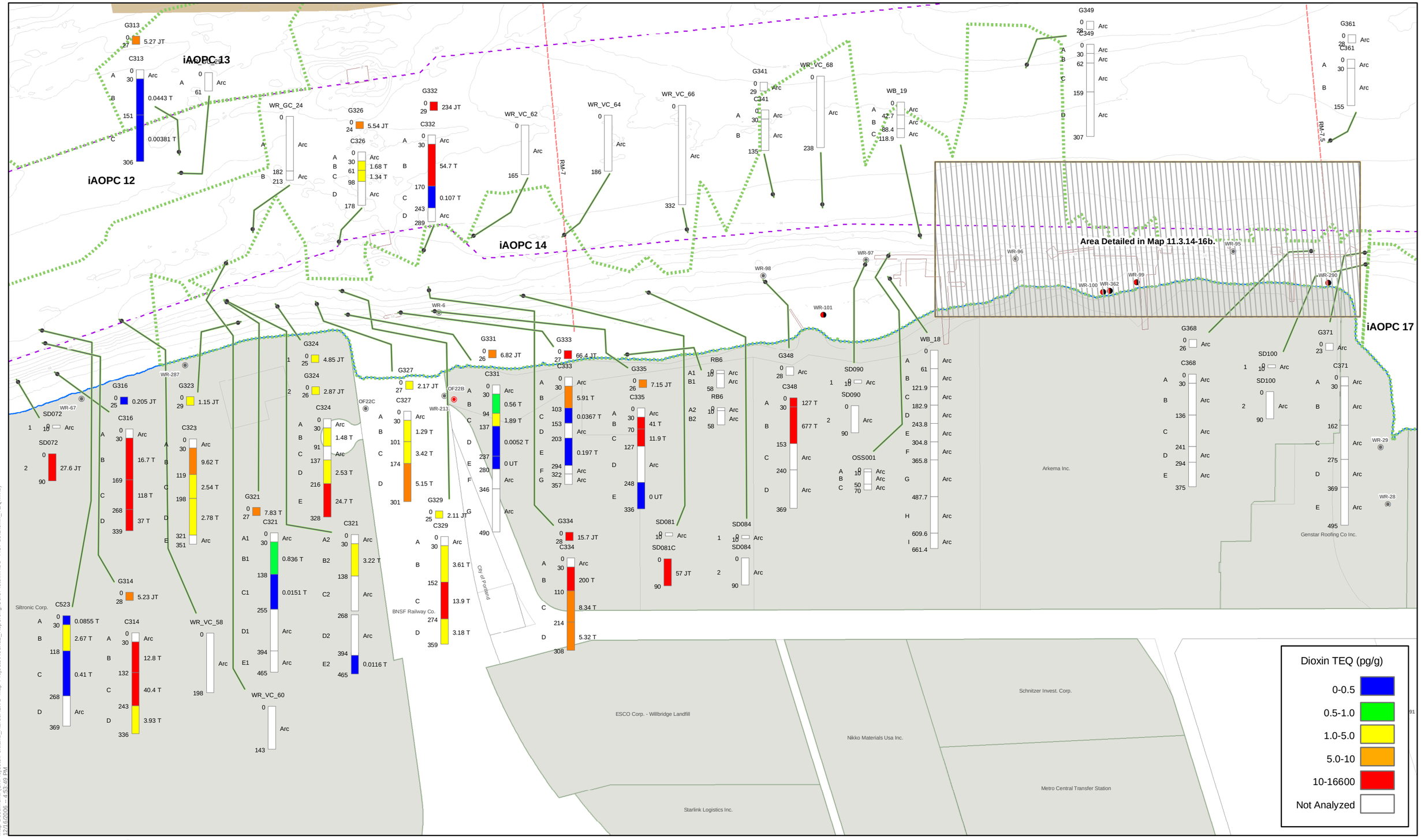
- Active Outfalls
- Unknown Outfalls
- Abandoned Outfalls
- Docks and Structures
- Navigation Channel
- River_13ft_NAVD88

Bathymetric Change
- -22 - -0.49 Shoaling
- -0.5 - 0.5
- 0.51 - 37 Deepening
- 5 foot Contours (NAVD88)

- iAOPC Boundary
- capping
- Dredging (Post 1997)
- Dredged or Capped

Map 11.3.11-15
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Surface Sediment
Dioxin 2,3,7,8-TCDD Toxic Equivalence (pg/g)
iAOPC 14

Map Document: (Q:\Projects\Portland_Harbor\LWG_Map_Projects\Round2_Reporting\AOPCs\MXDs\Surface_Dioxin\TEQ.mxd) 1/20/2007 10:59:27 AM



Map Document: (O:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\Dioxin_TEQ.mxd)
12/16/2008 -- 4:53:49 PM

integral consulting inc.

LWG Lower Willamette Group

0 100 200 300 Feet

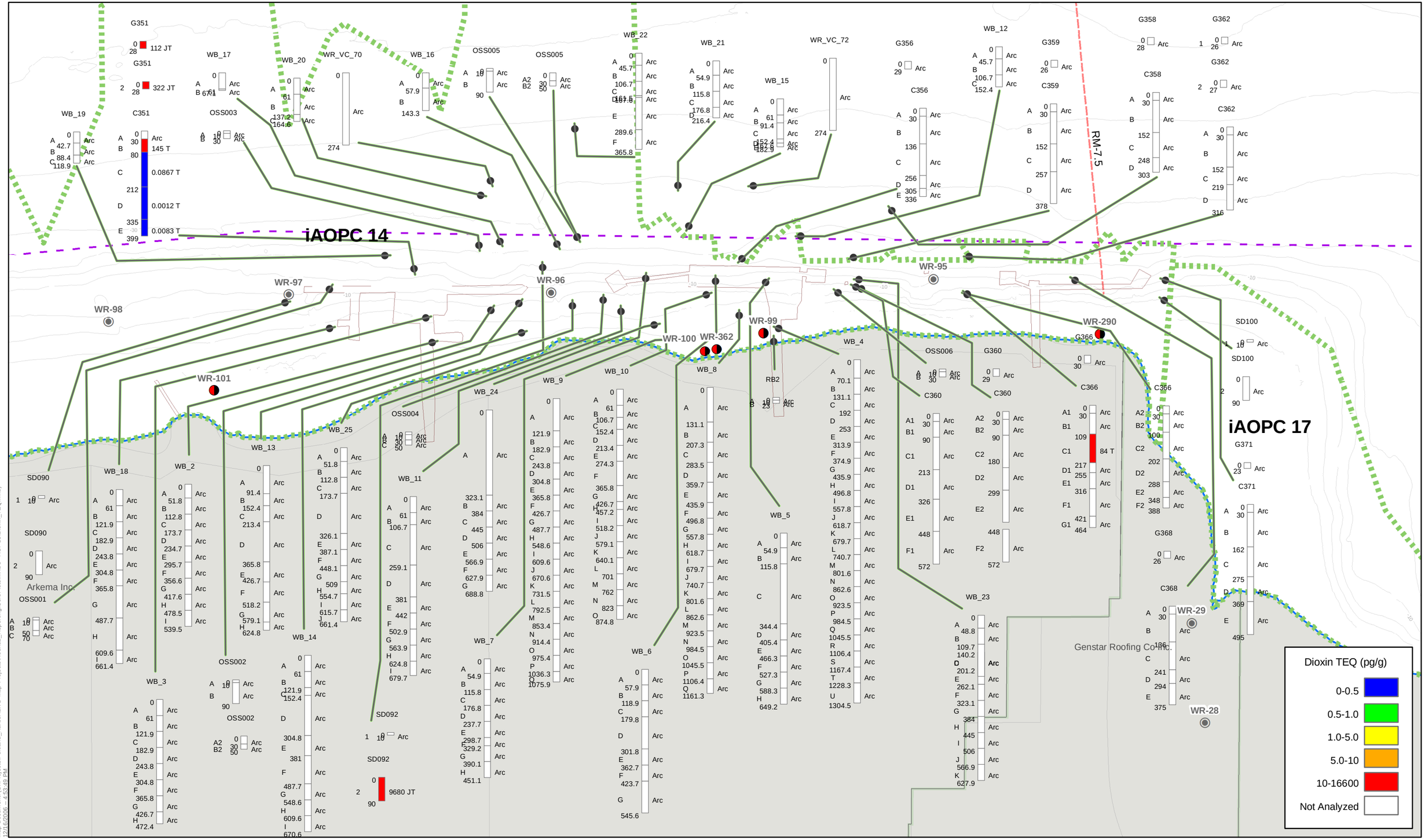
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

- Active Outfalls
- Unknown Outfalls
- Abandoned Outfalls
- Docks and Structures
- River Miles
- 5 foot Contours (NAVD88)

Bathymetric Change
- -22 - -0.49 Shoaling
- -0.5 - 0.5
- 0.51 - 37 Deepening
- Navigation Channel

- iAOPC Boundary
- Capping Footprint
- Dredging (Post 1997)

Map 11.3.11 -16a
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Dioxin 2,3,7,8-TCDD Toxic Equivalence (pg/g)
iAOPC 14



integral consulting inc.

LWG Lower Willamette Group

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 100 200 300 Feet

Active Outfalls
Unknown Outfalls
Abandoned Outfalls
Docks and Structures
River Miles
5 foot Contours (NAVD88)

Bathymetric Change
-22 - -0.49 Shoaling
-0.5 - 0.5
0.51 - 37 Deepening
Navigation Channel

iAOPC Boundary
Capping Footprint
Dredging (Post 1997)
Dredged or Capped

Map 11.3.11-16b
Portland Harbor RI/FS
Comprehensive Round 2 Report
Concentrations in Subsurface Sediment
Dioxin 2,3,7,8-TCDD Toxic Equivalence (pg/g)
iAOPC 14

Map Document: (C:\Projects\Portland_Harbor\LWG-Map-Projects\Round2_Reporting\CorePlots\MXDs - AOPCs\Dioxin_TEQ.mxd)
12/16/2008 -- 4:53:49 PM