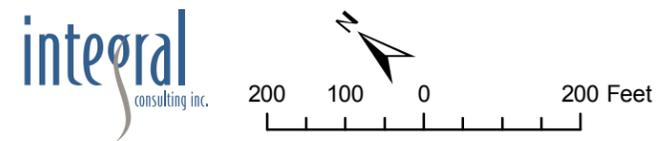


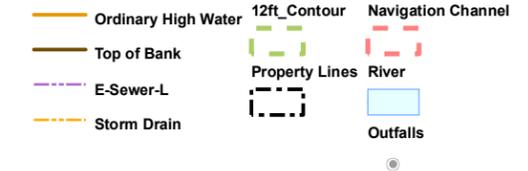
Map Document: (O:\Projects\Arkema-01\MXDs\ArkemaSW_DotMap_Screened_20060622.mxd) 6/23/2006 - 6:06:12 PM

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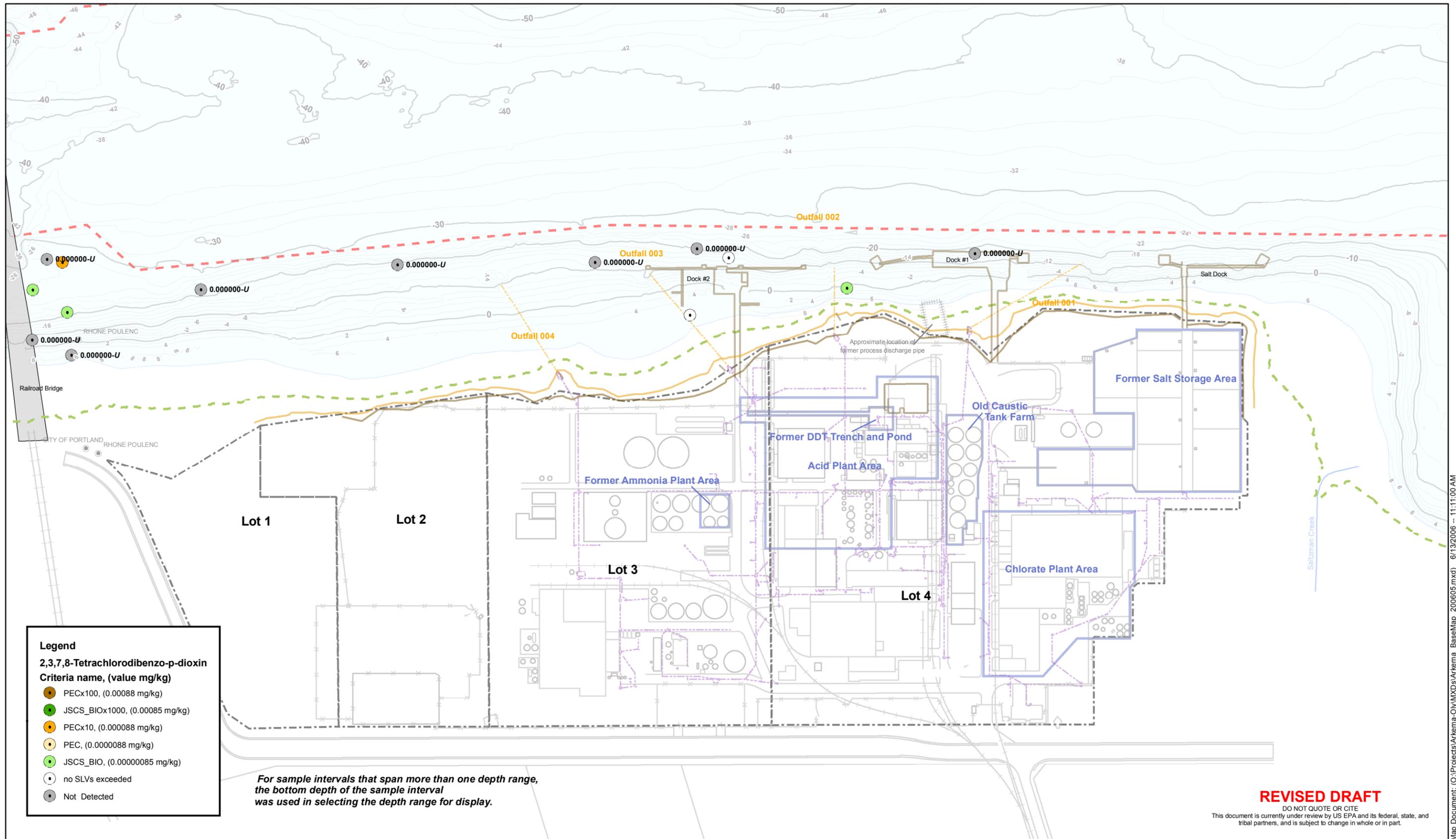
Notes:
 1) If both Total and Dissolved values occur coincidentally at a sampling location, the dissolved value will appear on top.



FEATURE SOURCES:
 Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004. Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
 Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.
 Units: International Feet.
 Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006.



Map-276
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
2,3,7,8-Tetrachlorodibenzo-p-dioxin

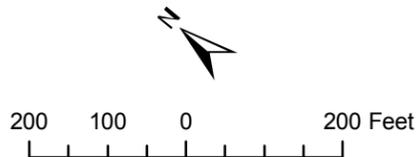


- Legend**
- 2,3,7,8-Tetrachlorodibenzo-p-dioxin**
Criteria name, (value mg/kg)
- PECx100, (0.00088 mg/kg)
 - JSCS_BIOx1000, (0.00085 mg/kg)
 - PECx10, (0.000088 mg/kg)
 - PEC, (0.0000088 mg/kg)
 - JSCS_BIO, (0.0000085 mg/kg)
 - no SLVs exceeded
 - Not Detected

For sample intervals that span more than one depth range, the bottom depth of the sample interval was used in selecting the depth range for display.

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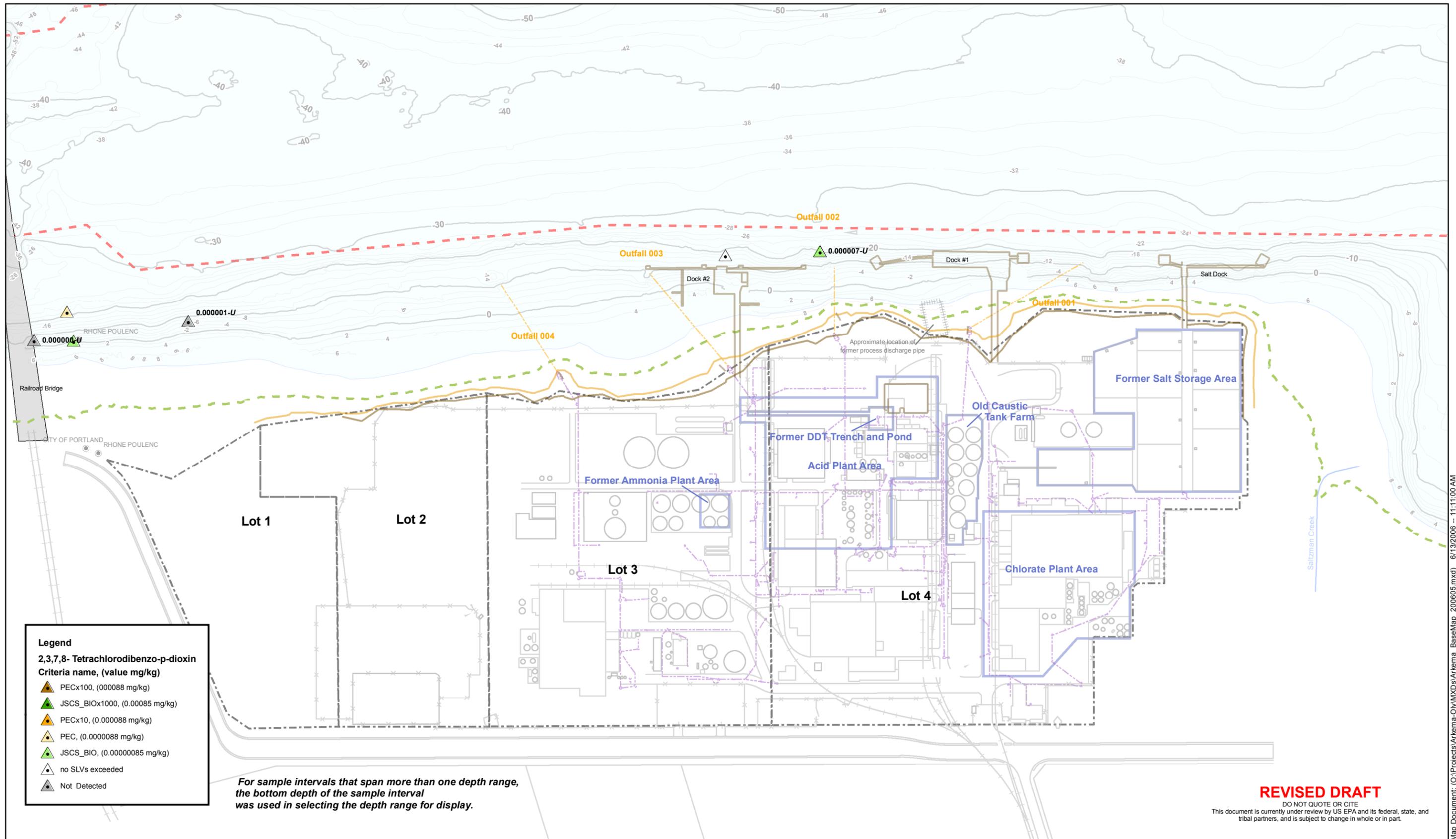


FEATURE SOURCES:
 Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004. Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
 Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.
 Units: International Feet.
 Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006. Most buildings and structures on the Arkema site have been demolished or removed.
 OHW and Top of Slope lines were created from the April 2006 DEA survey, the +12ft contour line was derived from the combined lidar/bathymetry grid.
 Lot Lines: Created by importing pdf file from ERM, georeferencing to CAD lines (RMS error = 2.3042) and heads-up digitizing the lot lines.

- Ordinary High Water
- Top of Bank
- E-Sewer-L
- Storm Drain
- 12ft Contour
- Bridges
- Property Lines
- Navigation Channel
- River
- Outfalls

Map-277
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Surface (0-1 ft)
2,3,7,8-Tetrachlorodibenzo-p-dioxin

Map Document: (O:\Projects\Arkema-01\MapDocs\Arkema_Basemap_200605.mxd) 6/13/2006 -- 11:11:00 AM

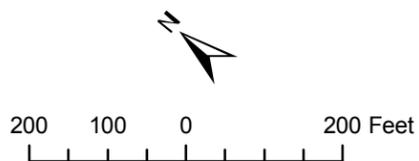


Legend
2,3,7,8- Tetrachlorodibenzo-p-dioxin
Criteria name, (value mg/kg)

- PECx100, (0.00088 mg/kg)
- JSCS_BIOx1000, (0.00085 mg/kg)
- PECx10, (0.000088 mg/kg)
- PEC, (0.0000088 mg/kg)
- JSCS_BIO, (0.0000085 mg/kg)
- no SLVs exceeded
- Not Detected

For sample intervals that span more than one depth range, the bottom depth of the sample interval was used in selecting the depth range for display.

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 This document is currently under review by US EPA and its federal, state, and tribal partners, and is subject to change in whole or in part.

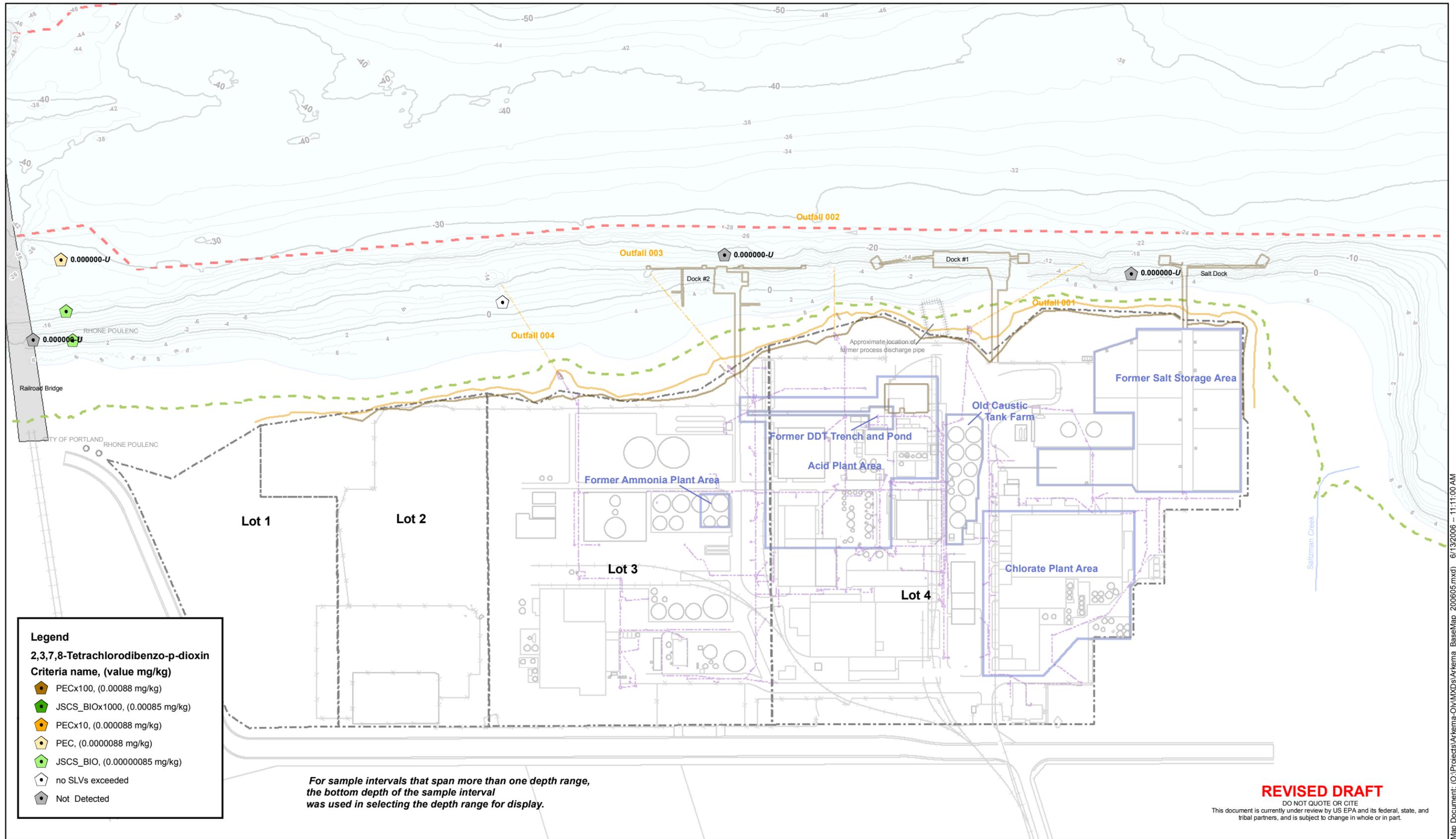


FEATURE SOURCES:
 Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004. Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
 Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.
 Units: International Feet.
 Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006. Most buildings and structures on the Arkema site have been demolished or removed.
 OHW and Top of Slope lines were created from the April 2006 DEA survey, the +12ft contour line was derived from the combined lidar/bathymetry grid.
 Lot Lines: Created by importing pdf file from ERM, georeferencing to CAD lines (RMS error = 2.3042) and heads-up digitizing the lot lines.

Ordinary High Water	12ft Contour	Navigation Channel
Top of Bank	Bridges	River
E-Sewer-L	Property Lines	Outfalls
Storm Drain		

Map-278
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Shallow Subsurface (1-4 ft)
2,3,7,8-Tetrachlorodibenzo-p-dioxin

Map Document: (O:\Projects\Arkema-01\MapDocs\Arkema_BaseMap_200605.mxd) 6/13/2006 -- 11:11:00 AM



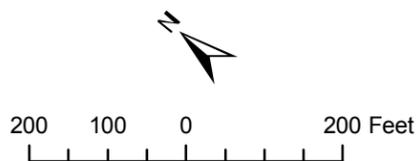
Legend

2,3,7,8-Tetrachlorodibenzo-p-dioxin
Criteria name, (value mg/kg)

- PECx100, (0.00088 mg/kg)
- JSCS_BIOx1000, (0.00085 mg/kg)
- PECx10, (0.000088 mg/kg)
- PEC, (0.0000088 mg/kg)
- JSCS_BIO, (0.00000085 mg/kg)
- no SLVs exceeded
- Not Detected

For sample intervals that span more than one depth range, the bottom depth of the sample interval was used in selecting the depth range for display.

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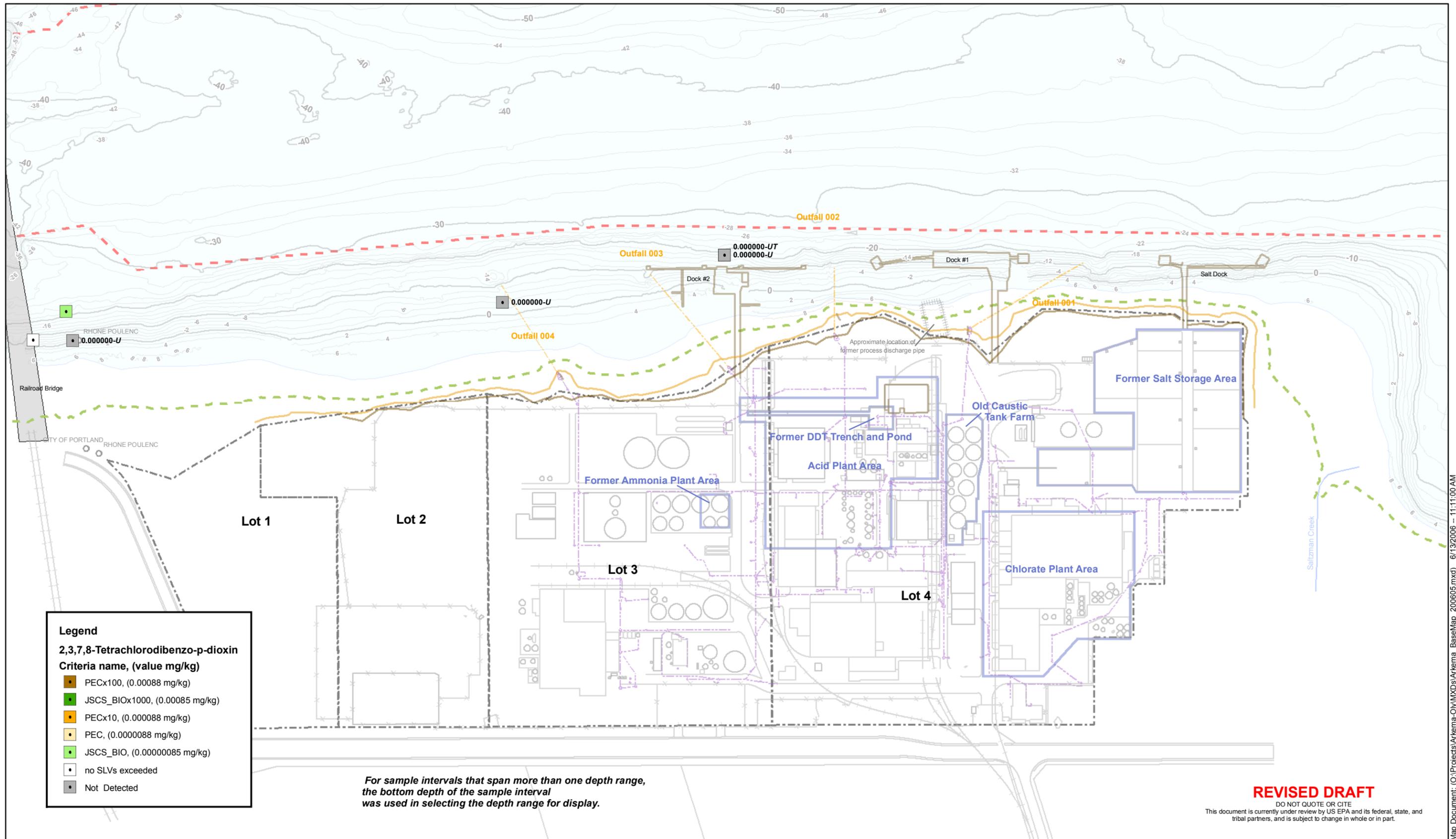


FEATURE SOURCES:
 Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004. Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
 Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.
 Units: International Feet.
 Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006. Most buildings and structures on the Arkema site have been demolished or removed.
 OHW and Top of Slope lines were created from the April 2006 DEA survey, the +12ft contour line was derived from the combined lidar/bathymetry grid.
 Lot Lines: Created by importing pdf file from ERM, georeferencing to CAD lines (RMS error = 2.3042) and heads-up digitizing the lot lines.

- Ordinary High Water
- Top of Bank
- E-Sewer-L
- Storm Drain
- 12ft_Contour
- Bridges
- Property Lines
- Navigation Channel
- River
- Outfalls

Map-279
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Intermediate Subsurface (4-8 ft)
2,3,7,8-Tetrachlorodibenzo-p-dioxin

Map Document: (O:\Projects\Arkema-01\MapDocs\Arkema_BaseMap_200605.mxd) 6/13/2006 11:11:00 AM



Legend

2,3,7,8-Tetrachlorodibenzo-p-dioxin

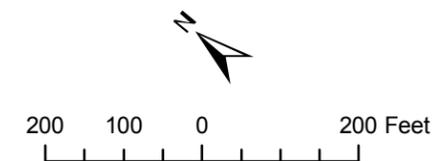
Criteria name, (value mg/kg)

- PECx100, (0.00088 mg/kg)
- JSCS_BIOx1000, (0.00085 mg/kg)
- PECx10, (0.000088 mg/kg)
- PEC, (0.0000088 mg/kg)
- JSCS_BIO, (0.00000085 mg/kg)
- no SLVs exceeded
- Not Detected

For sample intervals that span more than one depth range, the bottom depth of the sample interval was used in selecting the depth range for display.

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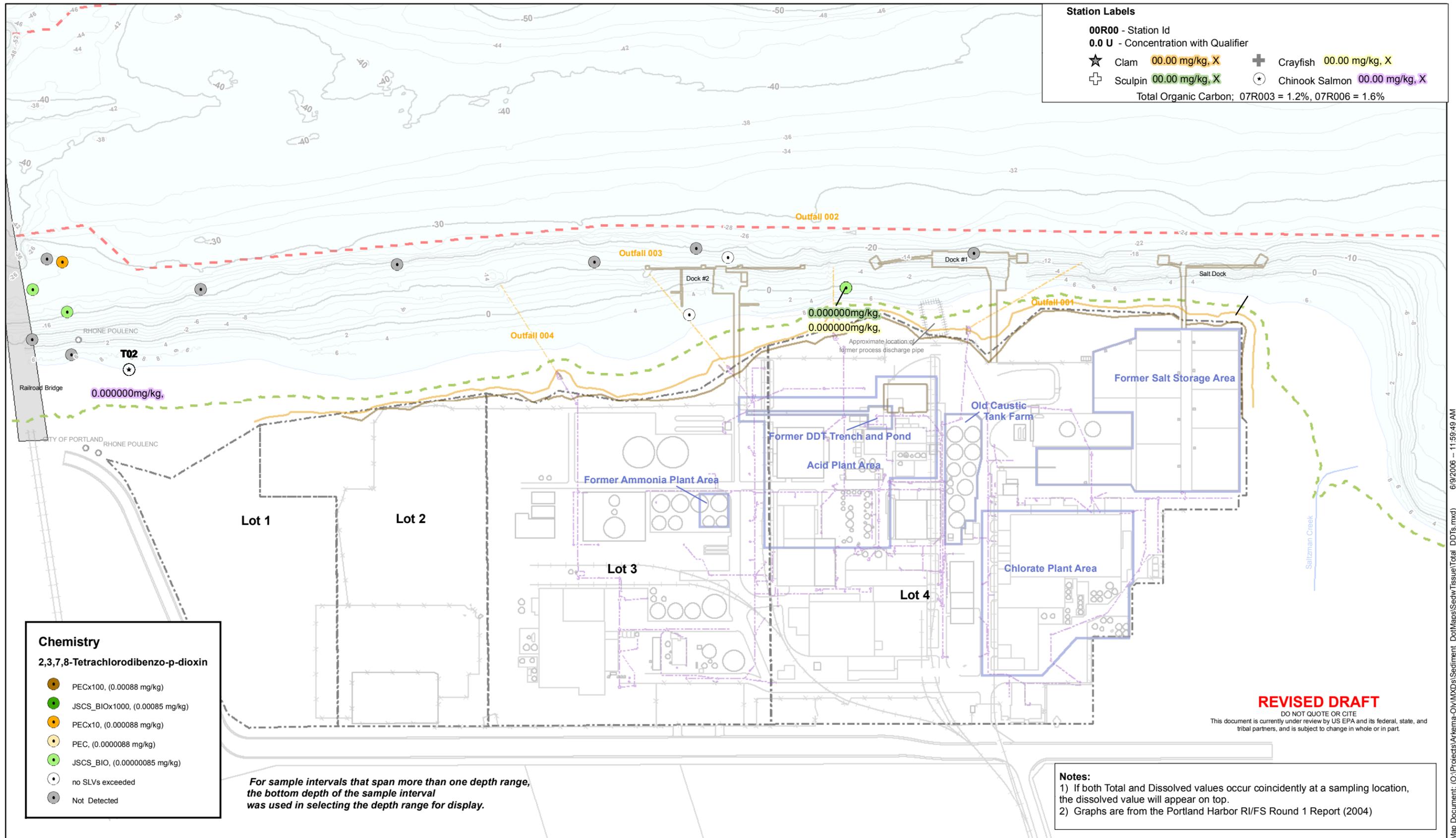


FEATURE SOURCES:
 Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004. Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
 Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.
 Units: International Feet.
 Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006. Most buildings and structures on the Arkema site have been demolished or removed.
 OHW and Top of Slope lines were created from the April 2006 DEA survey, the +12ft contour line was derived from the combined lidar/bathymetry grid.
 Lot Lines: Created by importing pdf file from ERM, georeferencing to CAD lines (RMS error = 2.3042) and heads-up digitizing the lot lines.

— Ordinary High Water	— 12ft. Contour	— Navigation Channel
— Top of Bank	— Bridges	— River
— E-Sewer-L	— Property Lines	— Outfalls
— Storm Drain	—	—

Map-280
Arkema Site
Surface & Sub-Surface Sediment Samples
Depth Range: Deep Subsurface (> 8 ft)
2,3,7,8-Tetrachlorodibenzo-p-dioxin

Map Document: (O:\Projects\Arkema-01\MapDocs\Arkema_BaseMap_200605.mxd) 6/13/2006 11:11:00 AM



Station Labels

00R00 - Station Id
 0.0 U - Concentration with Qualifier

★ Clam	00.00 mg/kg, X	✚ Crayfish	00.00 mg/kg, X
✚ Sculpin	00.00 mg/kg, X	⊙ Chinook Salmon	00.00 mg/kg, X

Total Organic Carbon: 07R003 = 1.2%, 07R006 = 1.6%

Chemistry

2,3,7,8-Tetrachlorodibenzo-p-dioxin

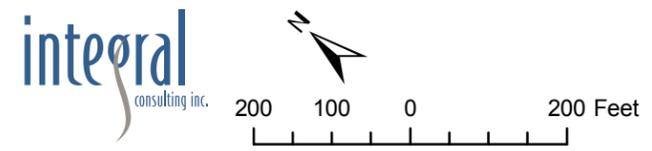
●	PECx100, (0.00088 mg/kg)
●	JSCS_BIOx1000, (0.00085 mg/kg)
●	PECx10, (0.000088 mg/kg)
●	PEC, (0.0000088 mg/kg)
●	JSCS_BIO, (0.00000085 mg/kg)
○	no SLVs exceeded
●	Not Detected

For sample intervals that span more than one depth range, the bottom depth of the sample interval was used in selecting the depth range for display.

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Notes:

- 1) If both Total and Dissolved values occur coincidentally at a sampling location, the dissolved value will appear on top.
- 2) Graphs are from the Portland Harbor RI/FS Round 1 Report (2004)



FEATURE SOURCES:
 Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004. Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
 Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.
 Units: International Feet.
 Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006. Basemap features reflect structures that have been removed from the site.
 OHW and Top of Slope lines were created from the April 2006 DEA survey, the +12ft contour line was derived from the combined lidar/bathymetry grid.

—	Ordinary High Water	—	12ft_Contour	—	Navigation Channel
—	Top of Bank	—	—	—	River
—	E-Sewer-L	—	—	—	Outfalls
—	Storm Drain	—	—	—	Property Lines
—		—	—	—	Bridges

Map-281
Arkema Site
Surface Sediment & Tissue Samples
2,3,7,8- Tetrachlorodibenzo-p-dioxin
Depth Range: Surface (0 - 1 ft)

Map Document: (O:\Projects\Arkema-O\MapDocs\Sediment_DotMaps\SedW\Tissue\Total_DDTs.mxd) 6/9/2006 -- 11:59:49 AM