

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

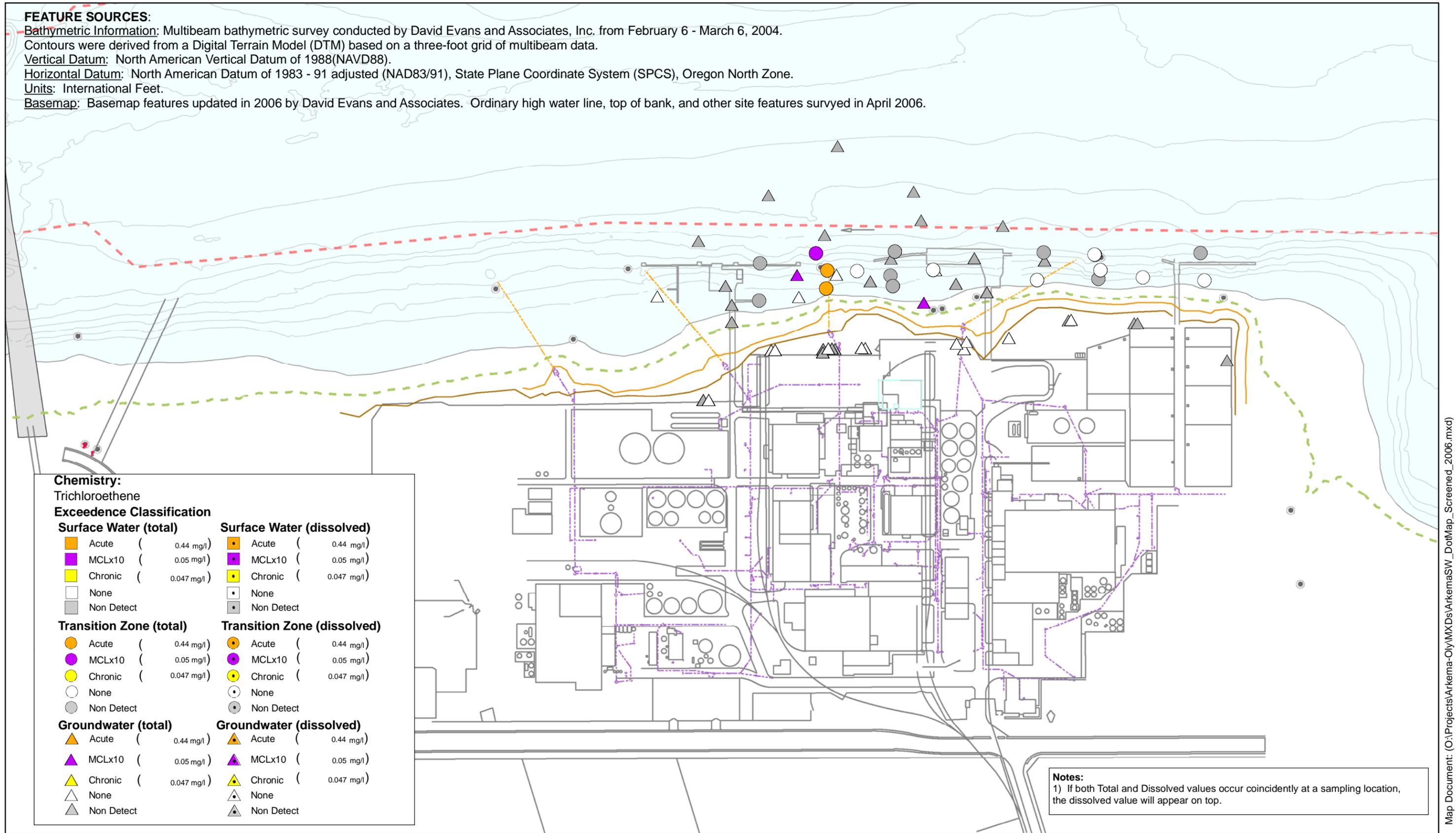
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.



Chemistry:

Trichloroethene

Exceedence Classification

Surface Water (total)

- Acute (0.44 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.047 mg/l)
- None
- Non Detect

Surface Water (dissolved)

- Acute (0.44 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.047 mg/l)
- None
- Non Detect

Transition Zone (total)

- Acute (0.44 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.047 mg/l)
- None
- Non Detect

Transition Zone (dissolved)

- Acute (0.44 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.047 mg/l)
- None
- Non Detect

Groundwater (total)

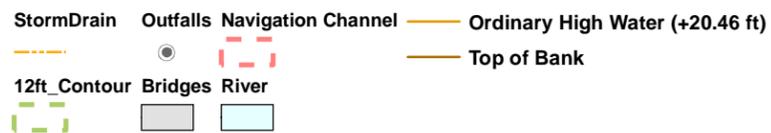
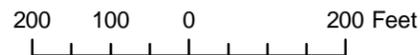
- Acute (0.44 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.047 mg/l)
- None
- Non Detect

Groundwater (dissolved)

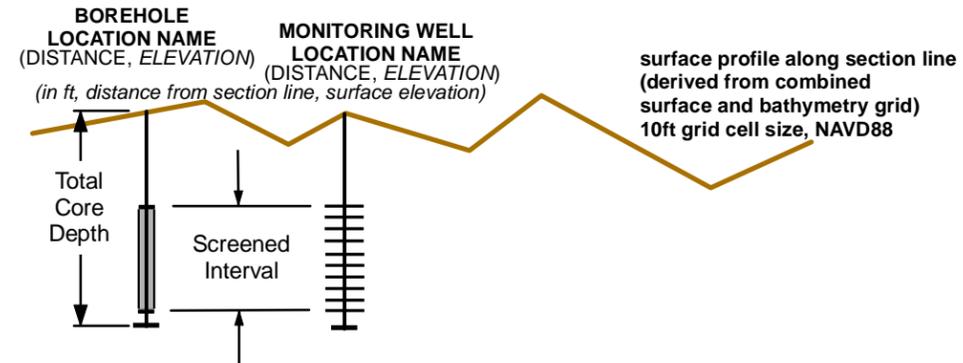
- Acute (0.44 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.047 mg/l)
- None
- Non Detect

Notes:

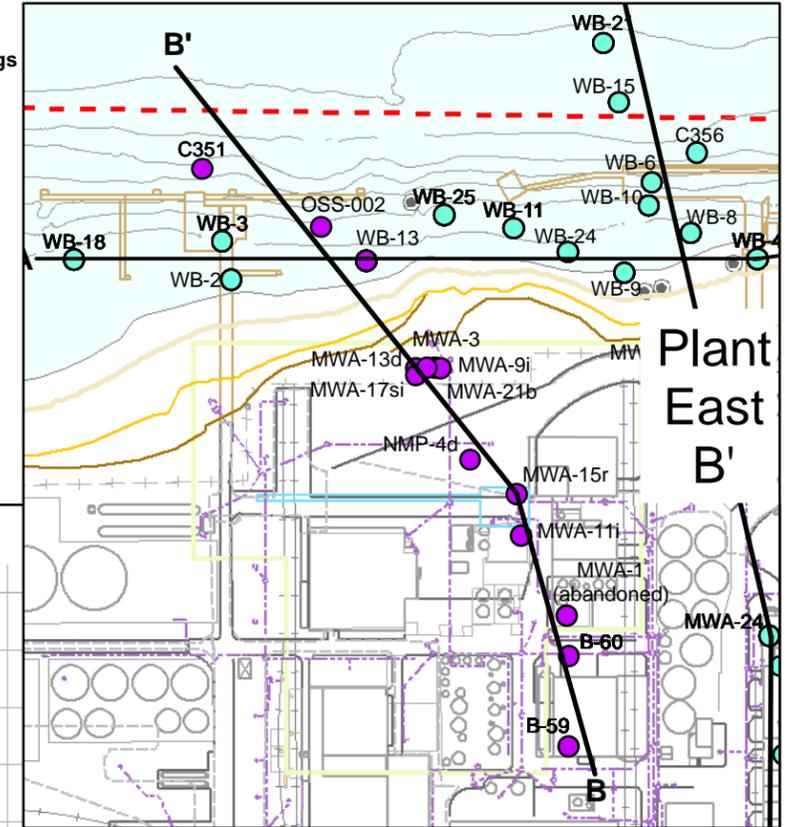
1) If both Total and Dissolved values occur coincidentally at a sampling location, the dissolved value will appear on top.



Notes:
 1) Due to projection onto the section line, lithology was estimated at some well and borehole stations based on best professional judgment



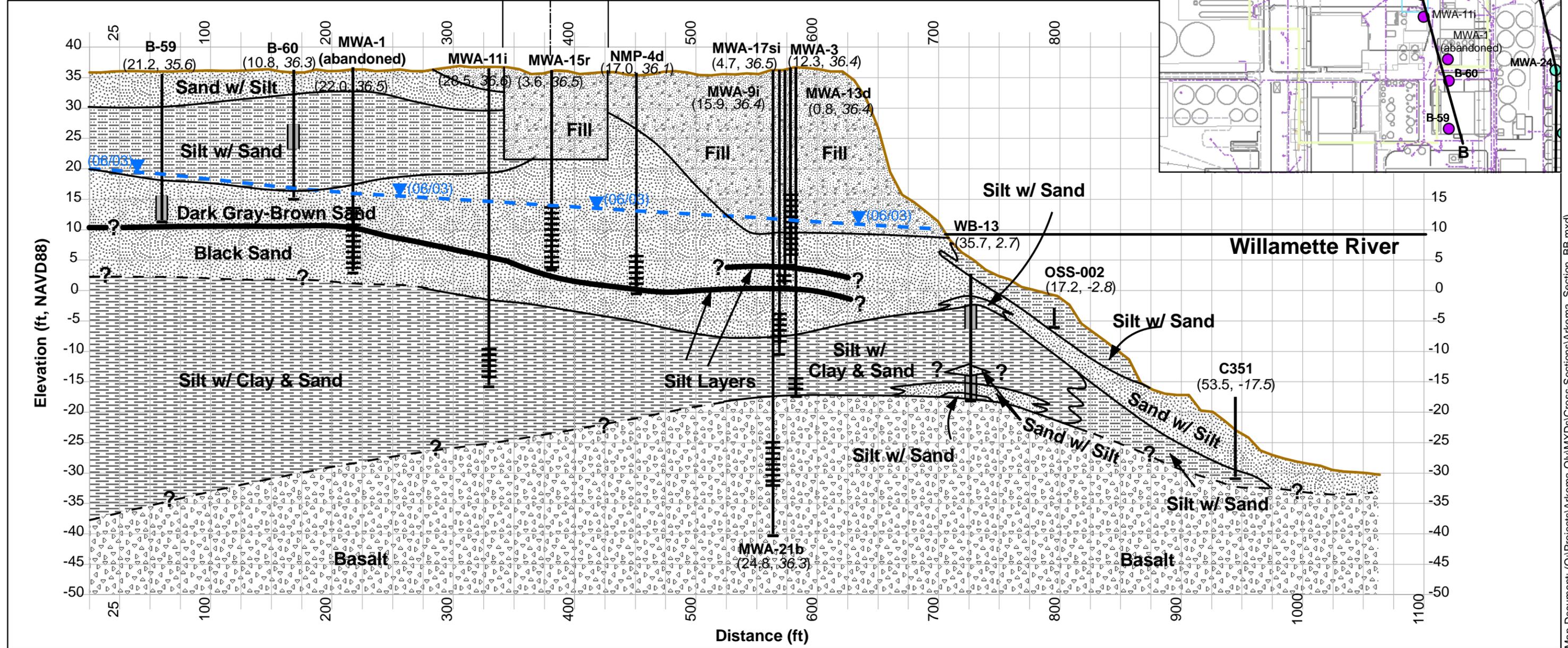
- Map View Legend**
- Section_BB Selected Wells and Borings
 - Section_AA
 - Section_CC
 - Section_DD
 - Navigation Channel
 - River
 - 12ft Contour
 - Ordinary High Water
 - Top of Bank
 - Outfalls
 - 5 Ft Contours



Plant West
B

Plant East
B'

Section B-B'



Section View: Vertical Exaggeration: 5X

- Fill
- Sand with varying amounts of silt
- Silt with varying amounts of fine sand
- Silt with some clay and fine sand
- Basalt
- Inferred soil or geologic contact (queried where uncertain)
- Shallow-zone groundwater surface (approximate) June 2003; based on monitoring well data only.
- Silt Layer

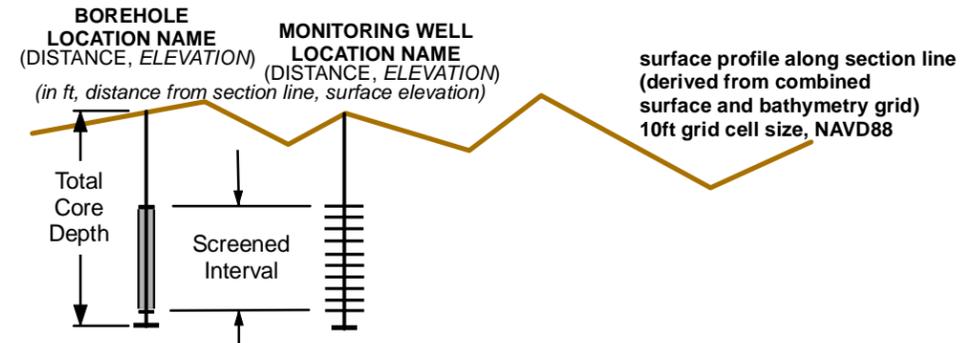
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0 50 100 200 Feet
 1 inch equals 80 feet

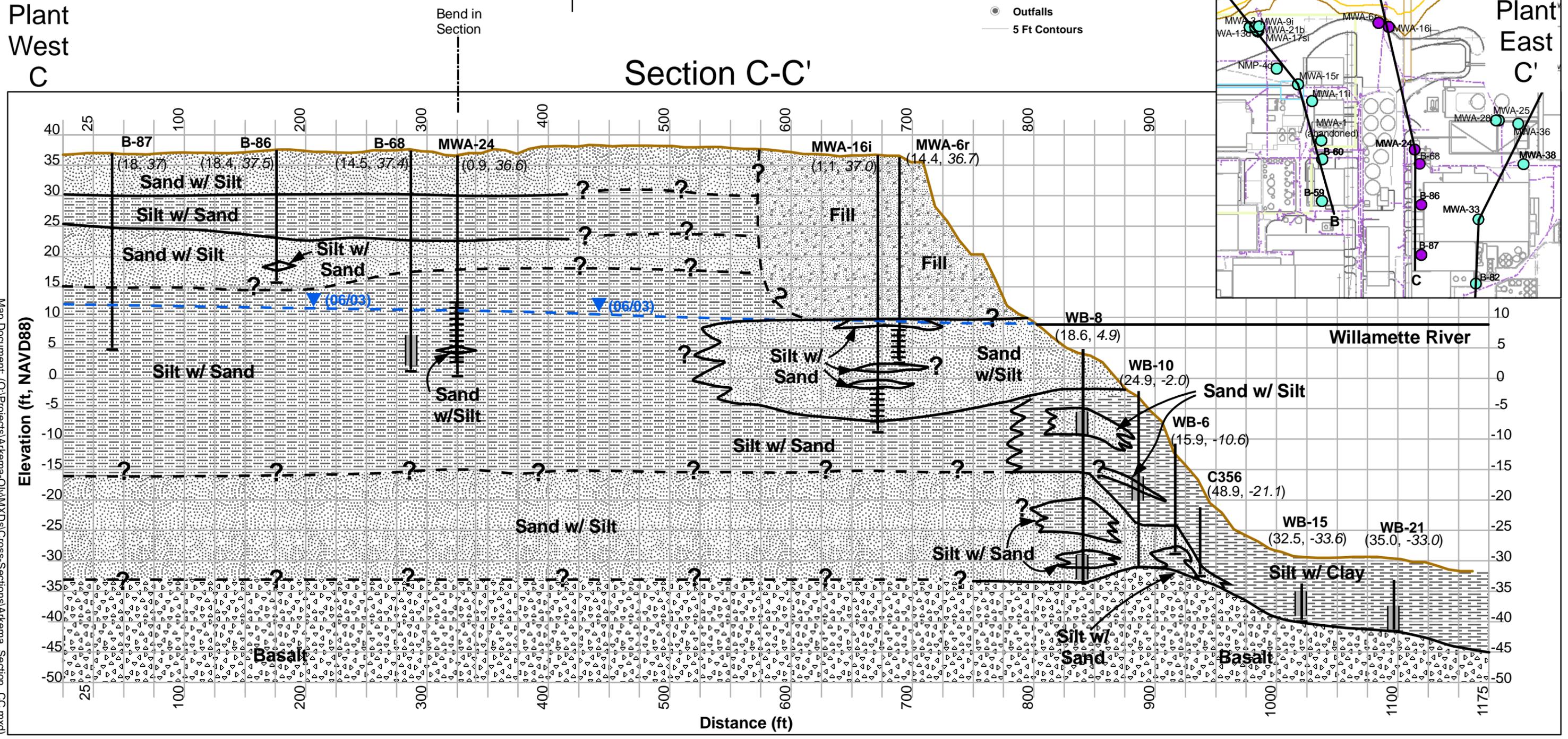
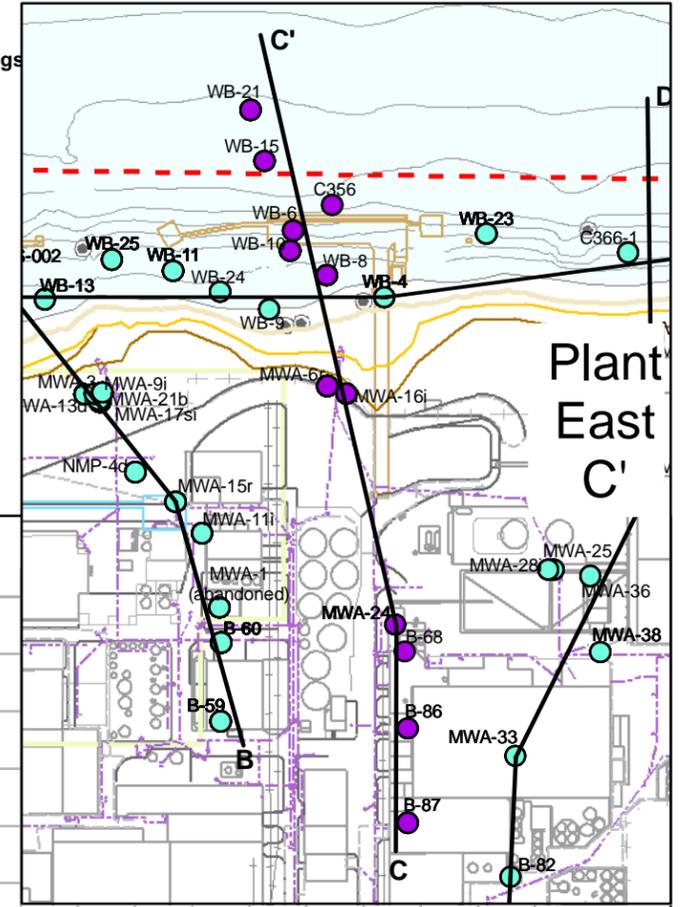
**Figure X-x
 Cross-Section B-B'**

Map Document: (O:\Projects\Arkema-Oly\MXDs\Cross-Sections\Arkema_Section_BB.mxd) 5/9/2006 -- 3:04:56 PM

Notes:
 1) Due to projection onto the section line, lithology was estimated at some well and borehole stations based on best professional judgment



- Map View Legend**
- Section_CC Selected Wells and Borings
 - Section_AA
 - Section_BB
 - Section_DD
 - Navigation Channel
 - River
 - 12ft Contour
 - Ordinary High Water
 - Top of Bank
 - Outfalls
 - 5 Ft Contours



Map Document: (O:\Projects\Arkema-Oily\MXD\S\Cross-Sections\Arkema_Section_CC.mxd) 5/9/2006 -- 10:28:42 AM



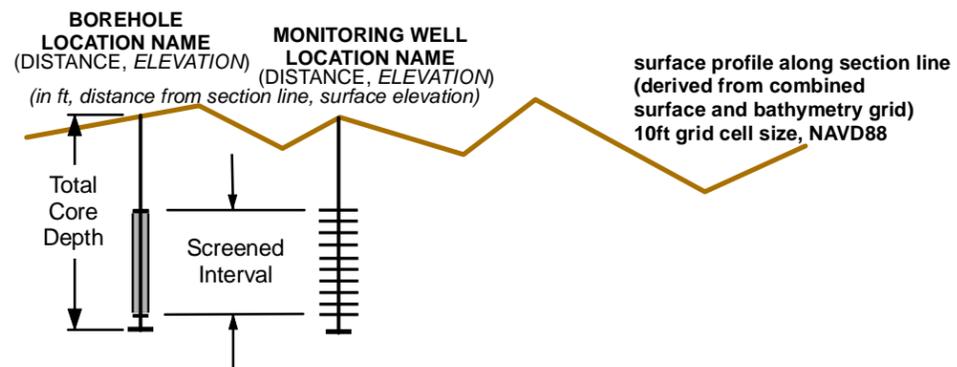
- Section View: Vertical Exaggeration: 5X**
- Fill
 - Sand with varying amounts of silt
 - Silt with varying amounts of fine sand
 - Silt with some clay and fine sand
 - Basalt
 - Inferred soil or geologic contact (queried where uncertain)
 - Shallow-zone groundwater surface (approximate) June 2003; based on monitoring well data only.

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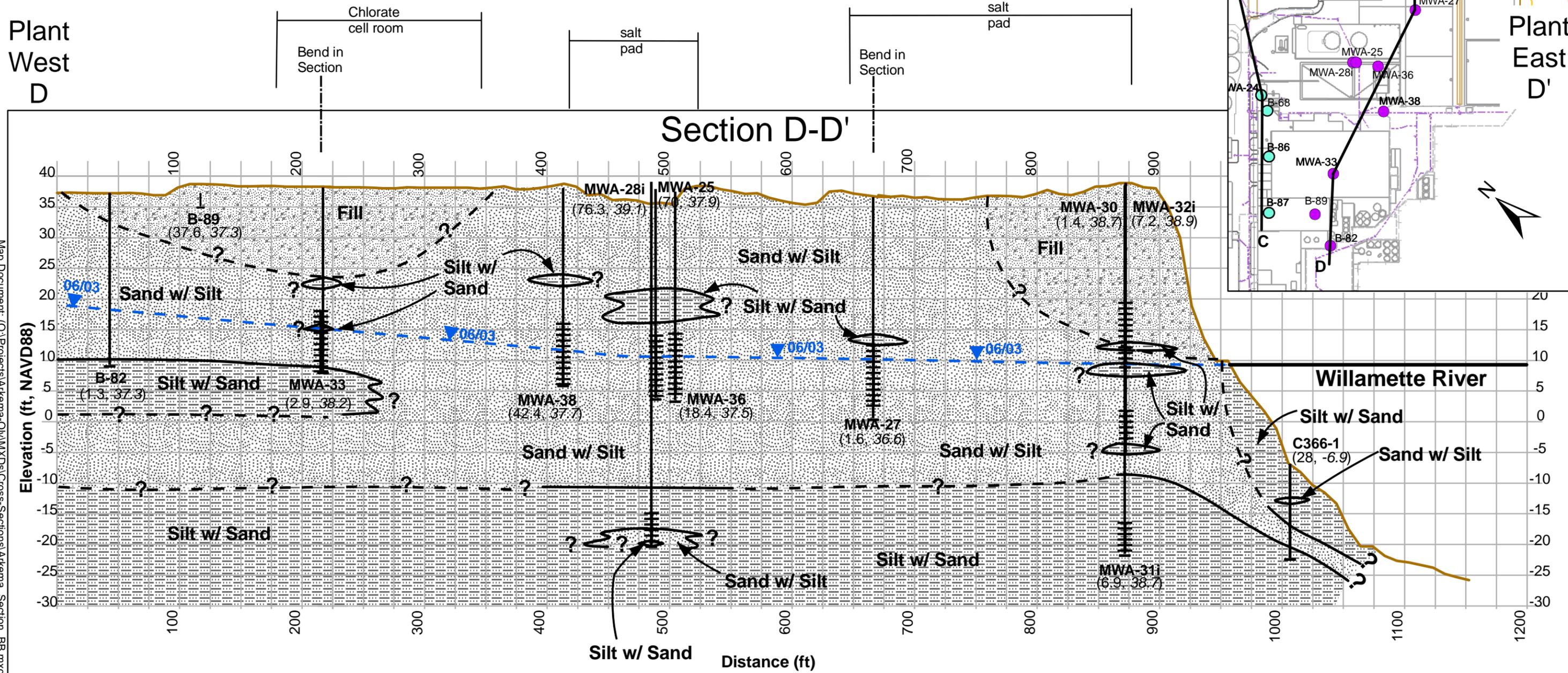
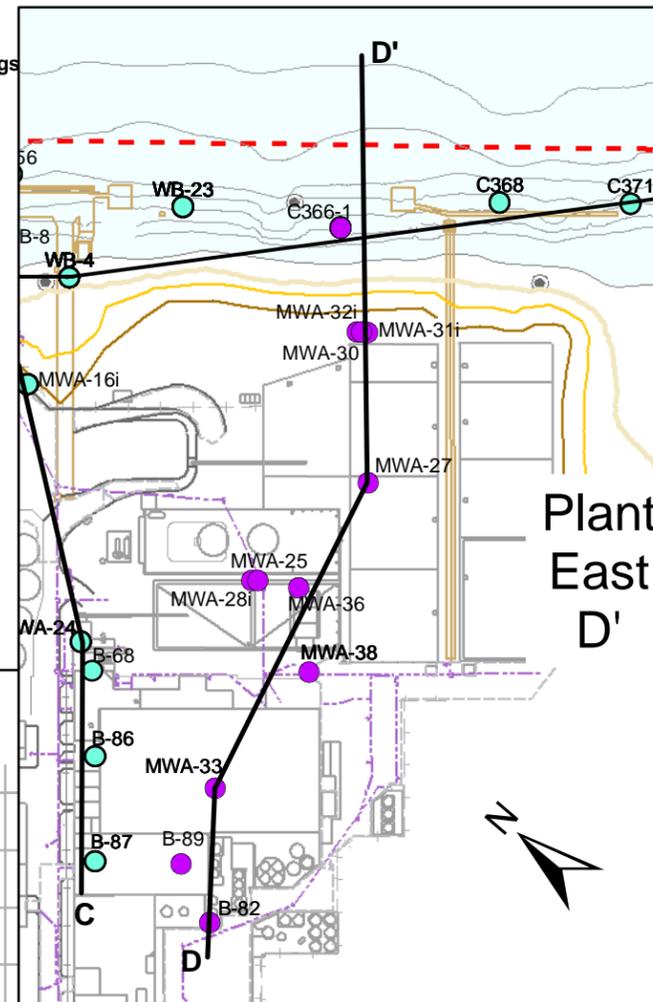
0 50 100 200 Feet
 1 inch equals 80 feet

Figure X-x
Cross-Section C-C'

Notes:
 1) Due to projection onto the section line, lithology was estimated at some well and borehole stations based on best professional judgment



- Map View Legend**
- Section_DD_Selected_Wells and Borings
 - Section_AA
 - Section_BB
 - Section_CC
 - Navigation Channel
 - River
 - 12ft Contour
 - Ordinary High Water
 - Top of Bank
 - Outfalls
 - 5 Ft Contours



Map Document: (O:\Projects\Arkema-Oly\MXDs\Cross-Sections\Arkema_Section_BB.mxd) 4/28/2006 -- 10:08:52 AM



- Section View: Vertical Exaggeration: 5X
- Fill
 - Sand with varying amounts of silt
 - Silt with varying amounts of fine sand
 - Silt with some clay and fine sand
 - Basalt
 - Inferred soil or geologic contact (queried where uncertain)
 - Shallow-zone groundwater surface (approximate) June 2003; based on monitoring well data only.

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0 50 100 200 Feet
 1 inch equals 80 feet

Figure X-x
 Cross-Section D-D'

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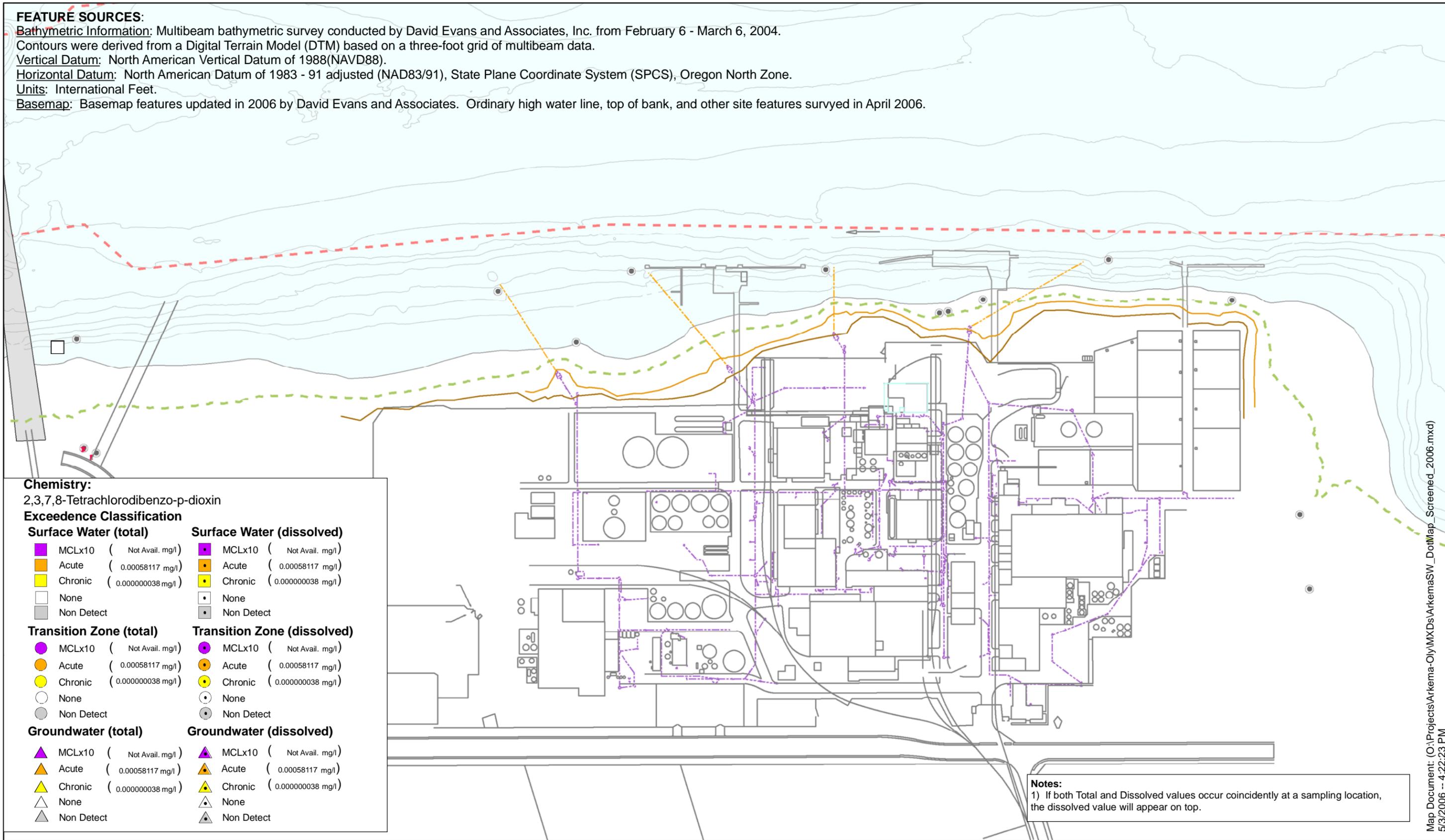
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Units: International Feet.

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.



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

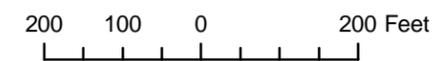
Exceedence Classification

Surface Water (total)		Surface Water (dissolved)	
■ MCLx10 (Not Avail. mg/l)	■ MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)
■ Acute (0.00058117 mg/l)	■ Acute (0.00058117 mg/l)	● Acute (0.00058117 mg/l)	● Acute (0.00058117 mg/l)
■ Chronic (0.000000038 mg/l)	■ Chronic (0.000000038 mg/l)	● Chronic (0.000000038 mg/l)	● Chronic (0.000000038 mg/l)
□ None	□ None	○ None	○ None
■ Non Detect	■ Non Detect	● Non Detect	● Non Detect

Transition Zone (total)		Transition Zone (dissolved)	
● MCLx10 (Not Avail. mg/l)			
● Acute (0.00058117 mg/l)			
● Chronic (0.000000038 mg/l)			
○ None	○ None	○ None	○ None
● Non Detect	● Non Detect	● Non Detect	● Non Detect

Groundwater (total)		Groundwater (dissolved)	
▲ MCLx10 (Not Avail. mg/l)			
▲ Acute (0.00058117 mg/l)			
▲ Chronic (0.000000038 mg/l)			
△ None	△ None	△ None	△ None
▲ Non Detect	▲ Non Detect	▲ Non Detect	▲ Non Detect

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



Storm Drain	Outfalls	Navigation Channel	Ordinary High Water (+20.46 ft)
12ft. Contour	Bridges	River	Top of Bank

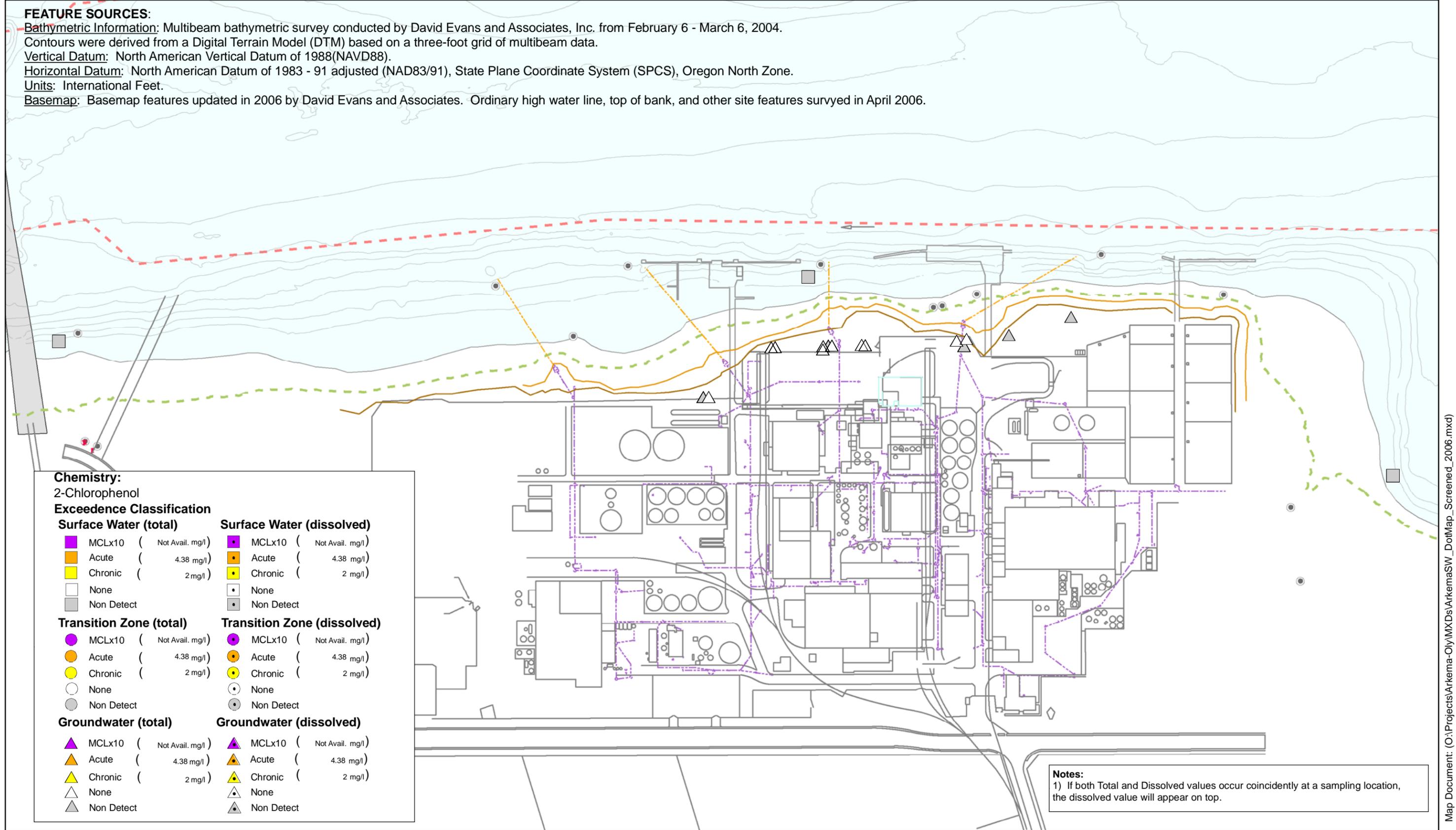
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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
2,3,7,8-Tetrachlorodibenzo-p-dioxin

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

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.
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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.



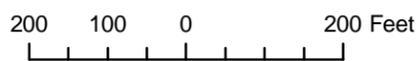
Chemistry:
2-Chlorophenol

Exceedance Classification		Surface Water (total)		Surface Water (dissolved)	
■	MCLx10 (Not Avail. mg/l)	■	MCLx10 (Not Avail. mg/l)	●	MCLx10 (Not Avail. mg/l)
■	Acute (4.38 mg/l)	■	Acute (4.38 mg/l)	●	Acute (4.38 mg/l)
■	Chronic (2 mg/l)	■	Chronic (2 mg/l)	●	Chronic (2 mg/l)
□	None	□	None	○	None
■	Non Detect	■	Non Detect	○	Non Detect

Transition Zone (total)		Transition Zone (dissolved)	
●	MCLx10 (Not Avail. mg/l)	●	MCLx10 (Not Avail. mg/l)
●	Acute (4.38 mg/l)	●	Acute (4.38 mg/l)
●	Chronic (2 mg/l)	●	Chronic (2 mg/l)
○	None	○	None
○	Non Detect	○	Non Detect

Groundwater (total)		Groundwater (dissolved)	
▲	MCLx10 (Not Avail. mg/l)	▲	MCLx10 (Not Avail. mg/l)
▲	Acute (4.38 mg/l)	▲	Acute (4.38 mg/l)
▲	Chronic (2 mg/l)	▲	Chronic (2 mg/l)
△	None	△	None
△	Non Detect	△	Non Detect

Notes:
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Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
2-Chlorophenol

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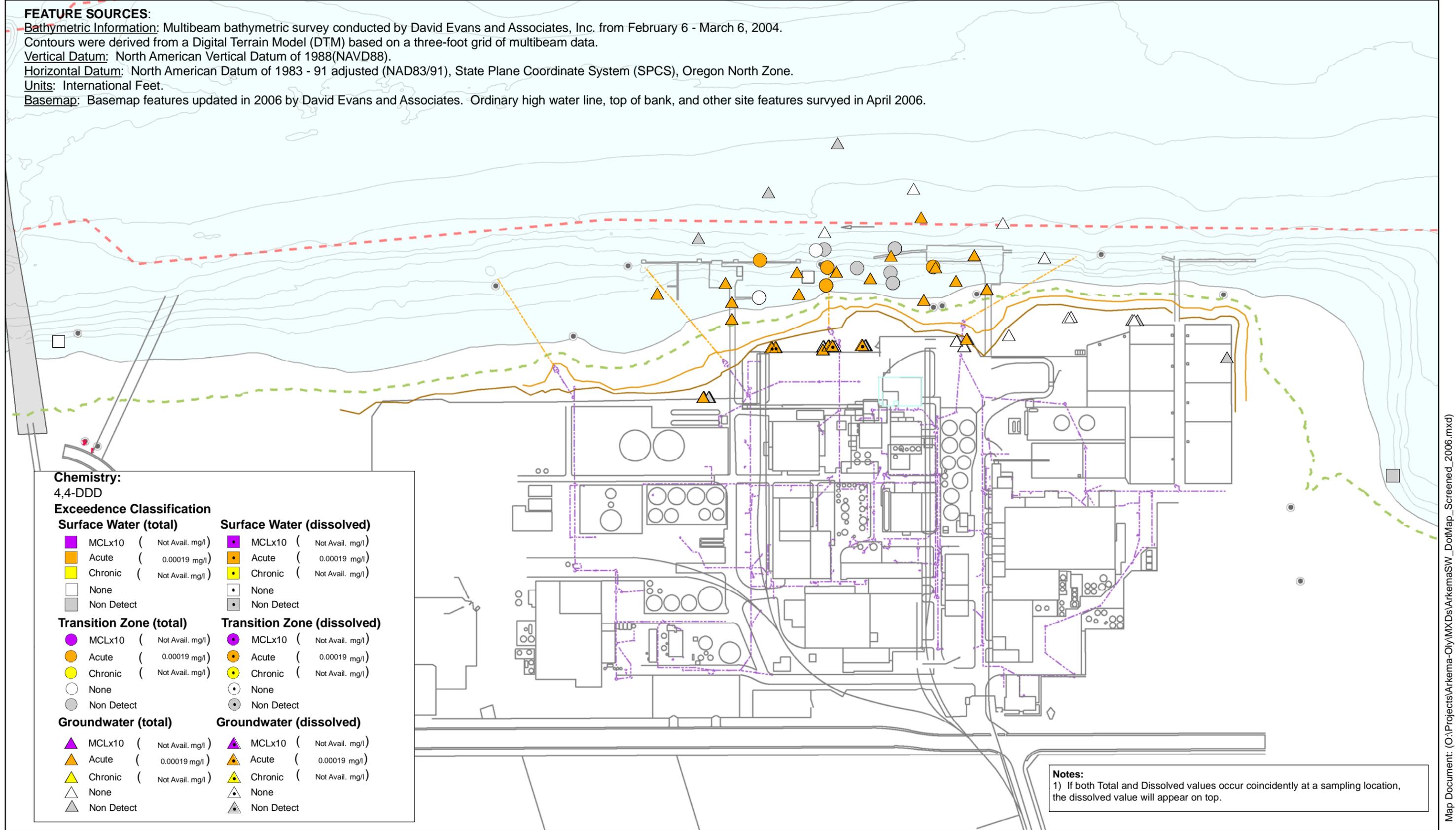
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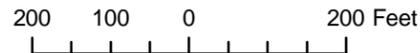
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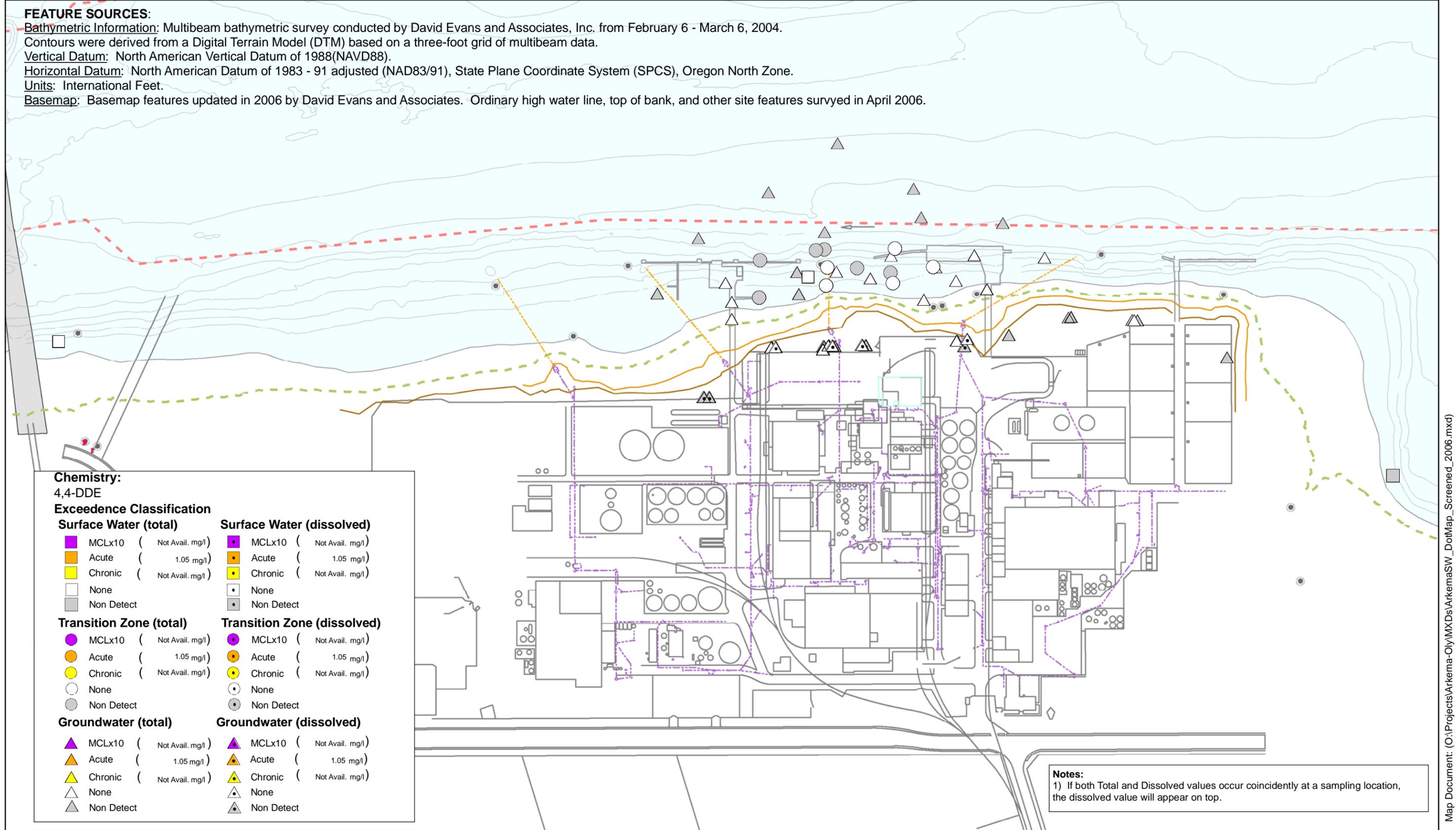


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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
4,4-DDD

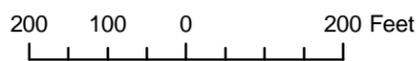
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Chemistry:		Chemistry:	
4,4-DDE			
Exceedance Classification			
Surface Water (total)		Surface Water (dissolved)	
 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)
 Acute (1.05 mg/l)	 Acute (1.05 mg/l)	 Acute (1.05 mg/l)	 Acute (1.05 mg/l)
 Chronic (Not Avail. mg/l)	 Chronic (Not Avail. mg/l)	 Chronic (Not Avail. mg/l)	 Chronic (Not Avail. mg/l)
 None	 None	 None	 None
 Non Detect	 Non Detect	 Non Detect	 Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)
 Acute (1.05 mg/l)	 Acute (1.05 mg/l)	 Acute (1.05 mg/l)	 Acute (1.05 mg/l)
 Chronic (Not Avail. mg/l)	 Chronic (Not Avail. mg/l)	 Chronic (Not Avail. mg/l)	 Chronic (Not Avail. mg/l)
 None	 None	 None	 None
 Non Detect	 Non Detect	 Non Detect	 Non Detect
Groundwater (total)		Groundwater (dissolved)	
 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)
 Acute (1.05 mg/l)	 Acute (1.05 mg/l)	 Acute (1.05 mg/l)	 Acute (1.05 mg/l)
 Chronic (Not Avail. mg/l)	 Chronic (Not Avail. mg/l)	 Chronic (Not Avail. mg/l)	 Chronic (Not Avail. mg/l)
 None	 None	 None	 None
 Non Detect	 Non Detect	 Non Detect	 Non Detect

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
4,4-DDE

Map Document: (O:\Projects\Arkema-Oly\MXDs\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

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Units: International Feet.

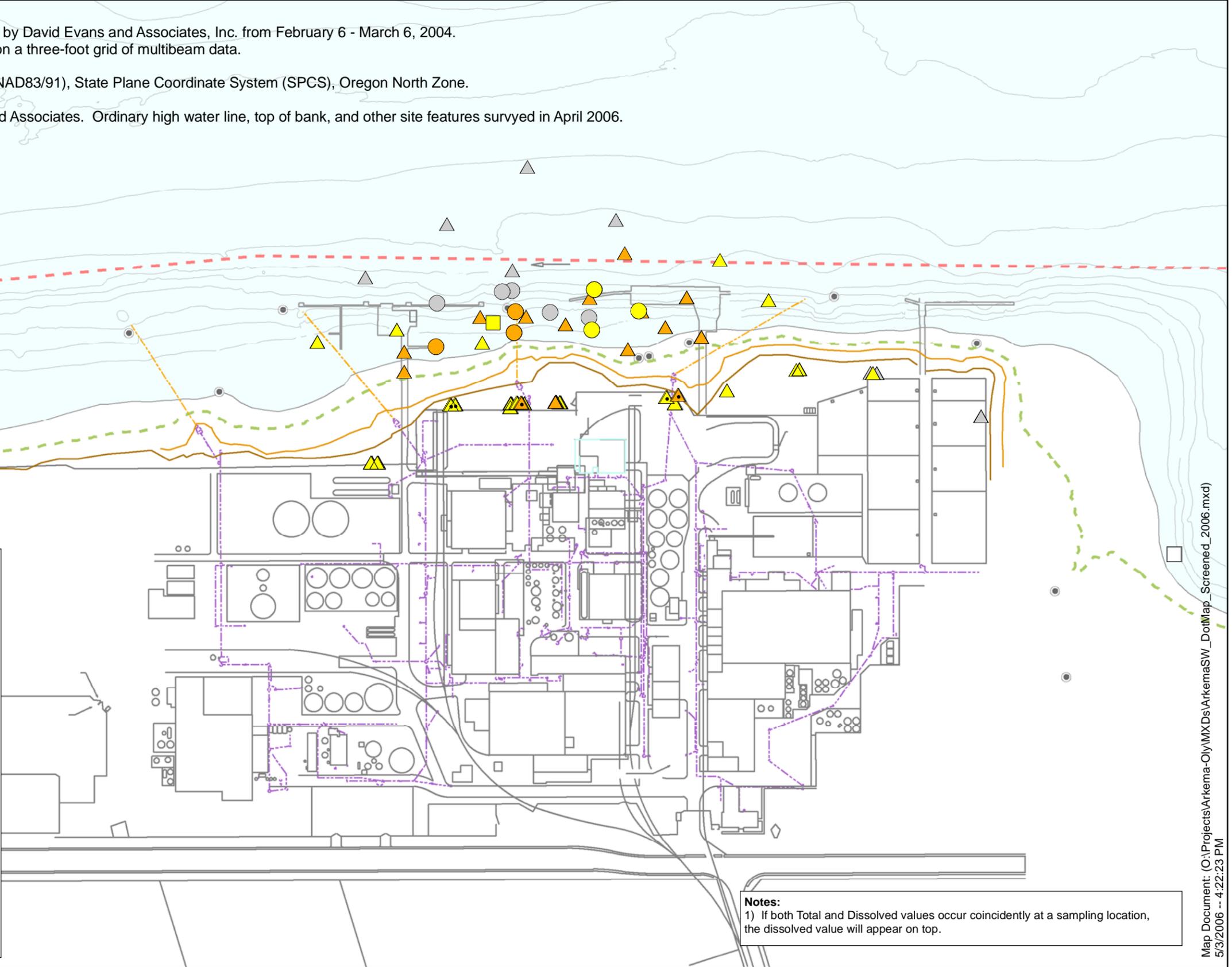
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Chemistry:
4,4-DDT

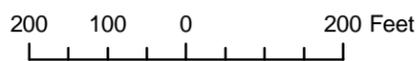
Exceedence Classification		Surface Water (total)		Surface Water (dissolved)	
	MCLx10 (Not Avail. mg/l)		MCLx10 (Not Avail. mg/l)		MCLx10 (Not Avail. mg/l)
	Acute (0.0011 mg/l)		Acute (0.0011 mg/l)		Acute (0.0011 mg/l)
	Chronic (0.000001 mg/l)		Chronic (0.000001 mg/l)		Chronic (0.000001 mg/l)
	None		None		None
	Non Detect		Non Detect		Non Detect

Transition Zone (total)		Transition Zone (dissolved)	
	MCLx10 (Not Avail. mg/l)		MCLx10 (Not Avail. mg/l)
	Acute (0.0011 mg/l)		Acute (0.0011 mg/l)
	Chronic (0.000001 mg/l)		Chronic (0.000001 mg/l)
	None		None
	Non Detect		Non Detect

Groundwater (total)		Groundwater (dissolved)	
	MCLx10 (Not Avail. mg/l)		MCLx10 (Not Avail. mg/l)
	Acute (0.0011 mg/l)		Acute (0.0011 mg/l)
	Chronic (0.000001 mg/l)		Chronic (0.000001 mg/l)
	None		None
	Non Detect		Non Detect



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



	Storm Drain		Outfalls		Navigation Channel		Ordinary High Water (+20.46 ft)
	12ft. Contour		Bridges		River		Top of Bank

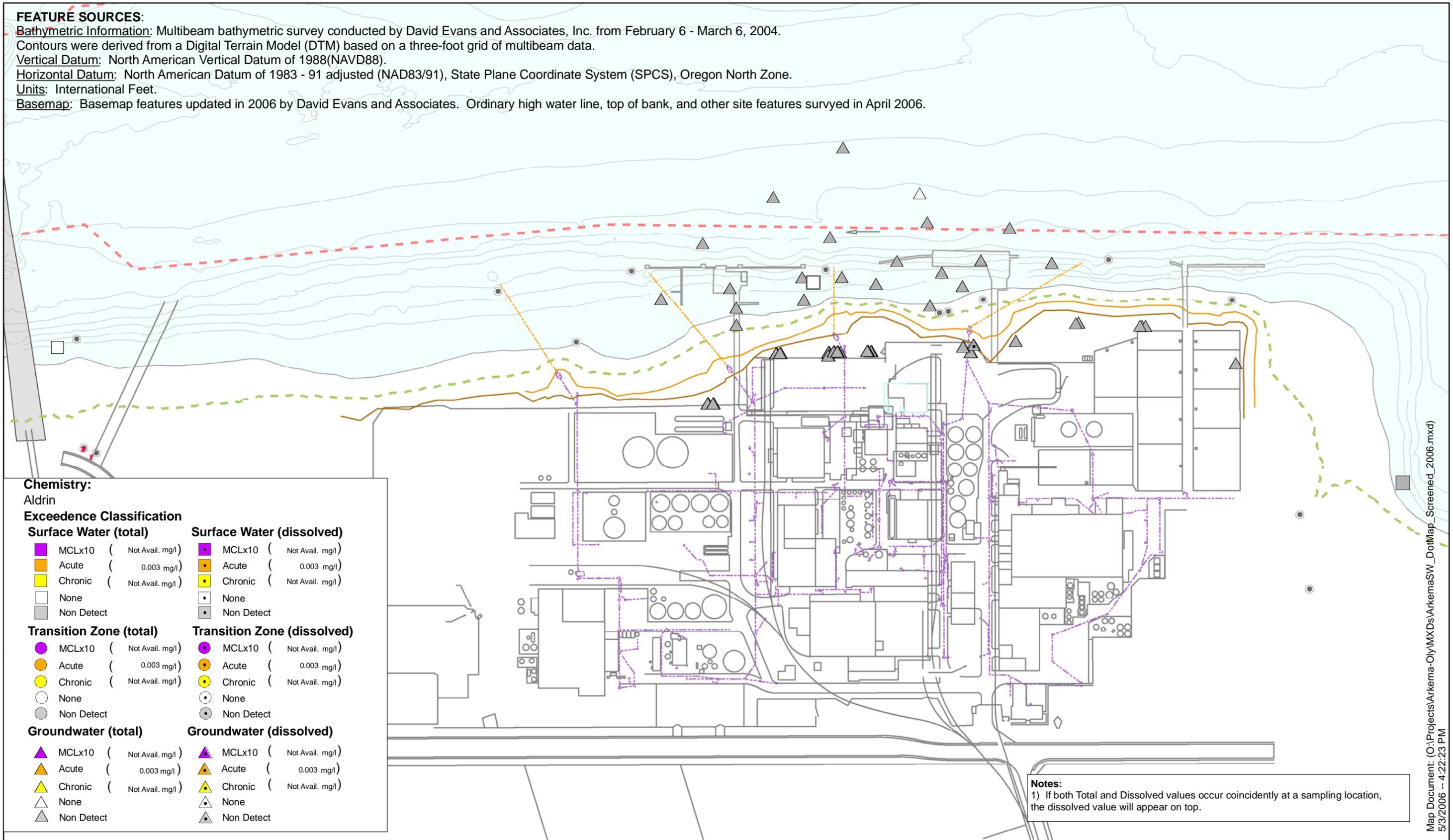
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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
4,4-DDT

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

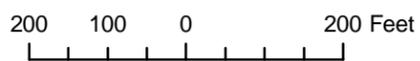
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Chemistry:		Surface Water (total)		Surface Water (dissolved)	
Aldrin					
Exceedance Classification					
Surface Water (total)		Surface Water (dissolved)			
█	MCLx10 (Not Avail. mg/l)	█	MCLx10 (Not Avail. mg/l)		
█	Acute (0.003 mg/l)	█	Acute (0.003 mg/l)		
█	Chronic (Not Avail. mg/l)	█	Chronic (Not Avail. mg/l)		
□	None	□	None		
■	Non Detect	■	Non Detect		
Transition Zone (total)		Transition Zone (dissolved)			
●	MCLx10 (Not Avail. mg/l)	●	MCLx10 (Not Avail. mg/l)		
●	Acute (0.003 mg/l)	●	Acute (0.003 mg/l)		
●	Chronic (Not Avail. mg/l)	●	Chronic (Not Avail. mg/l)		
○	None	○	None		
●	Non Detect	●	Non Detect		
Groundwater (total)		Groundwater (dissolved)			
▲	MCLx10 (Not Avail. mg/l)	▲	MCLx10 (Not Avail. mg/l)		
▲	Acute (0.003 mg/l)	▲	Acute (0.003 mg/l)		
▲	Chronic (Not Avail. mg/l)	▲	Chronic (Not Avail. mg/l)		
△	None	△	None		
▲	Non Detect	▲	Non Detect		

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



—	StormDrain	●	Outfalls	—	Navigation Channel	—	Ordinary High Water (+20.46 ft)
—	12ft. Contour	■	Bridges	—	River	—	Top of Bank

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Aldrin

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FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

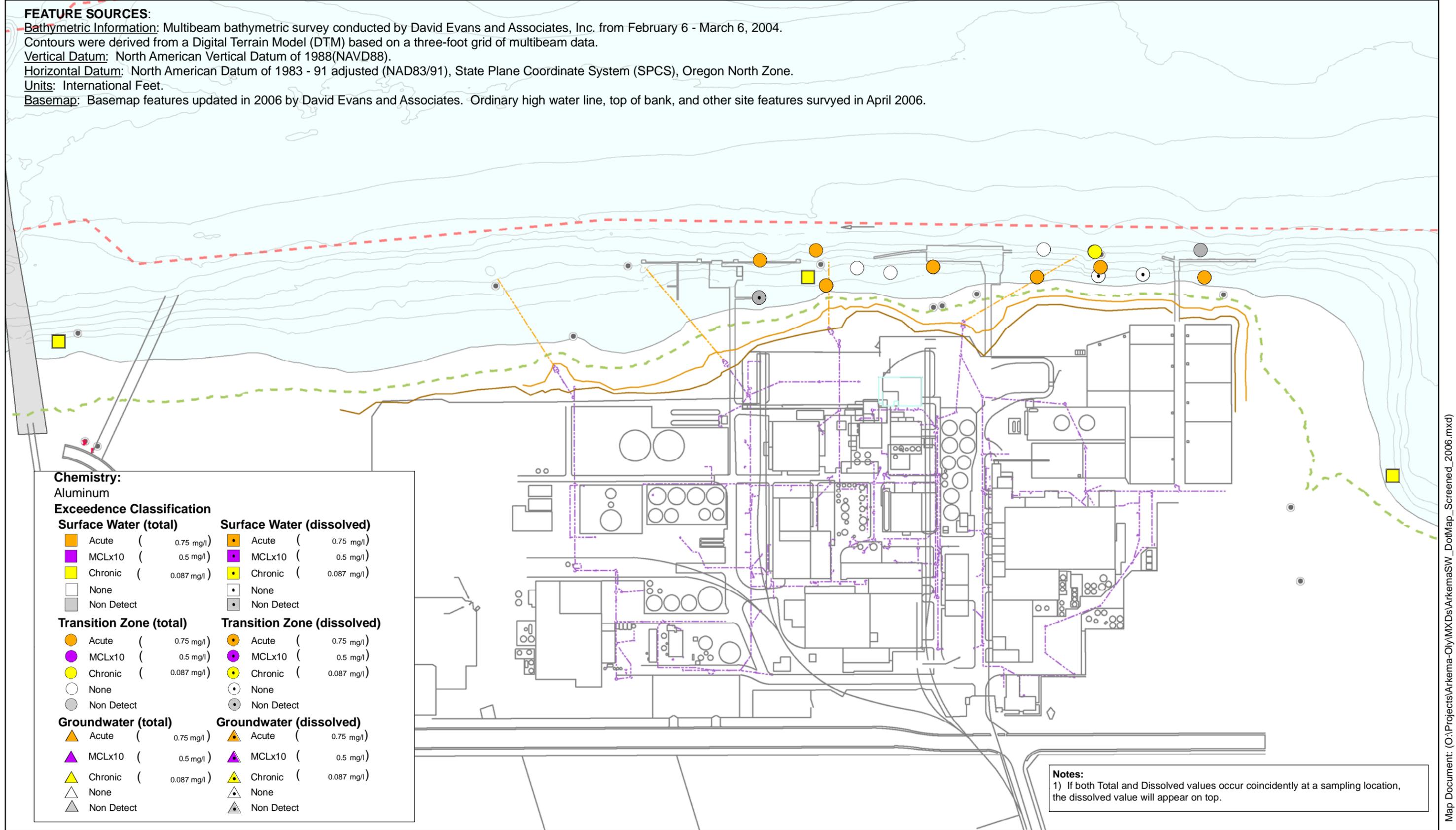
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.

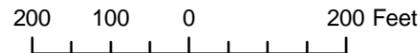
Units: International Feet.

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.



Chemistry:		Chemistry:	
Aluminum			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
Orange Square	Acute (0.75 mg/l)	Orange Circle	Acute (0.75 mg/l)
Purple Square	MCLx10 (0.5 mg/l)	Purple Circle	MCLx10 (0.5 mg/l)
Yellow Square	Chronic (0.087 mg/l)	Yellow Circle	Chronic (0.087 mg/l)
White Square	None	White Circle	None
Grey Square	Non Detect	Grey Circle	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
Orange Circle	Acute (0.75 mg/l)	Orange Circle	Acute (0.75 mg/l)
Purple Circle	MCLx10 (0.5 mg/l)	Purple Circle	MCLx10 (0.5 mg/l)
Yellow Circle	Chronic (0.087 mg/l)	Yellow Circle	Chronic (0.087 mg/l)
White Circle	None	White Circle	None
Grey Circle	Non Detect	Grey Circle	Non Detect
Groundwater (total)		Groundwater (dissolved)	
Orange Triangle	Acute (0.75 mg/l)	Orange Triangle	Acute (0.75 mg/l)
Purple Triangle	MCLx10 (0.5 mg/l)	Purple Triangle	MCLx10 (0.5 mg/l)
Yellow Triangle	Chronic (0.087 mg/l)	Yellow Triangle	Chronic (0.087 mg/l)
White Triangle	None	White Triangle	None
Grey Triangle	Non Detect	Grey Triangle	Non Detect

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Aluminum

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).

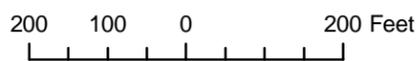
Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.

Chemistry:		Chemistry:	
Aroclors			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■	MCLx10 (0.005 mg/l)	●	MCLx10 (0.005 mg/l)
■	Acute (0.002 mg/l)	●	Acute (0.002 mg/l)
■	Chronic (0.000014 mg/l)	●	Chronic (0.000014 mg/l)
■	None	●	None
■	Non Detect	●	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
●	MCLx10 (0.005 mg/l)	●	MCLx10 (0.005 mg/l)
●	Acute (0.002 mg/l)	●	Acute (0.002 mg/l)
●	Chronic (0.000014 mg/l)	●	Chronic (0.000014 mg/l)
●	None	●	None
●	Non Detect	●	Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲	MCLx10 (0.005 mg/l)	▲	MCLx10 (0.005 mg/l)
▲	Acute (0.002 mg/l)	▲	Acute (0.002 mg/l)
▲	Chronic (0.000014 mg/l)	▲	Chronic (0.000014 mg/l)
▲	None	▲	None
▲	Non Detect	▲	Non Detect

Notes:
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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Aroclors

Map Document: (O:\Projects\Arkema-Oly\MXDs\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

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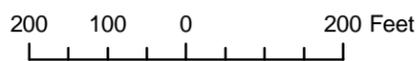
Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.

Chemistry:		Chemistry:	
Benz(a)anthracene			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
	MCLx10 (0.002 mg/l)		MCLx10 (0.002 mg/l)
	Acute (0.00049 mg/l)		Acute (0.00049 mg/l)
	Chronic (0.000027 mg/l)		Chronic (0.000027 mg/l)
	None		None
	Non Detect		Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
	MCLx10 (0.002 mg/l)		MCLx10 (0.002 mg/l)
	Acute (0.00049 mg/l)		Acute (0.00049 mg/l)
	Chronic (0.000027 mg/l)		Chronic (0.000027 mg/l)
	None		None
	Non Detect		Non Detect
Groundwater (total)		Groundwater (dissolved)	
	MCLx10 (0.002 mg/l)		MCLx10 (0.002 mg/l)
	Acute (0.00049 mg/l)		Acute (0.00049 mg/l)
	Chronic (0.000027 mg/l)		Chronic (0.000027 mg/l)
	None		None
	Non Detect		Non Detect

Notes:
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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Benz(a)anthracene

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

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).

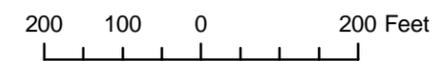
Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.

Chemistry:		Chemistry:	
Benzo(a)pyrene			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■	MCLx10 (0.002 mg/l)	●	MCLx10 (0.002 mg/l)
■	Acute (0.00024 mg/l)	●	Acute (0.00024 mg/l)
■	Chronic (0.000014 mg/l)	●	Chronic (0.000014 mg/l)
■	None	●	None
■	Non Detect	●	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
●	MCLx10 (0.002 mg/l)	●	MCLx10 (0.002 mg/l)
●	Acute (0.00024 mg/l)	●	Acute (0.00024 mg/l)
●	Chronic (0.000014 mg/l)	●	Chronic (0.000014 mg/l)
●	None	●	None
●	Non Detect	●	Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲	MCLx10 (0.002 mg/l)	▲	MCLx10 (0.002 mg/l)
▲	Acute (0.00024 mg/l)	▲	Acute (0.00024 mg/l)
▲	Chronic (0.000014 mg/l)	▲	Chronic (0.000014 mg/l)
▲	None	▲	None
▲	Non Detect	▲	Non Detect

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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Benzo(a)pyrene

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

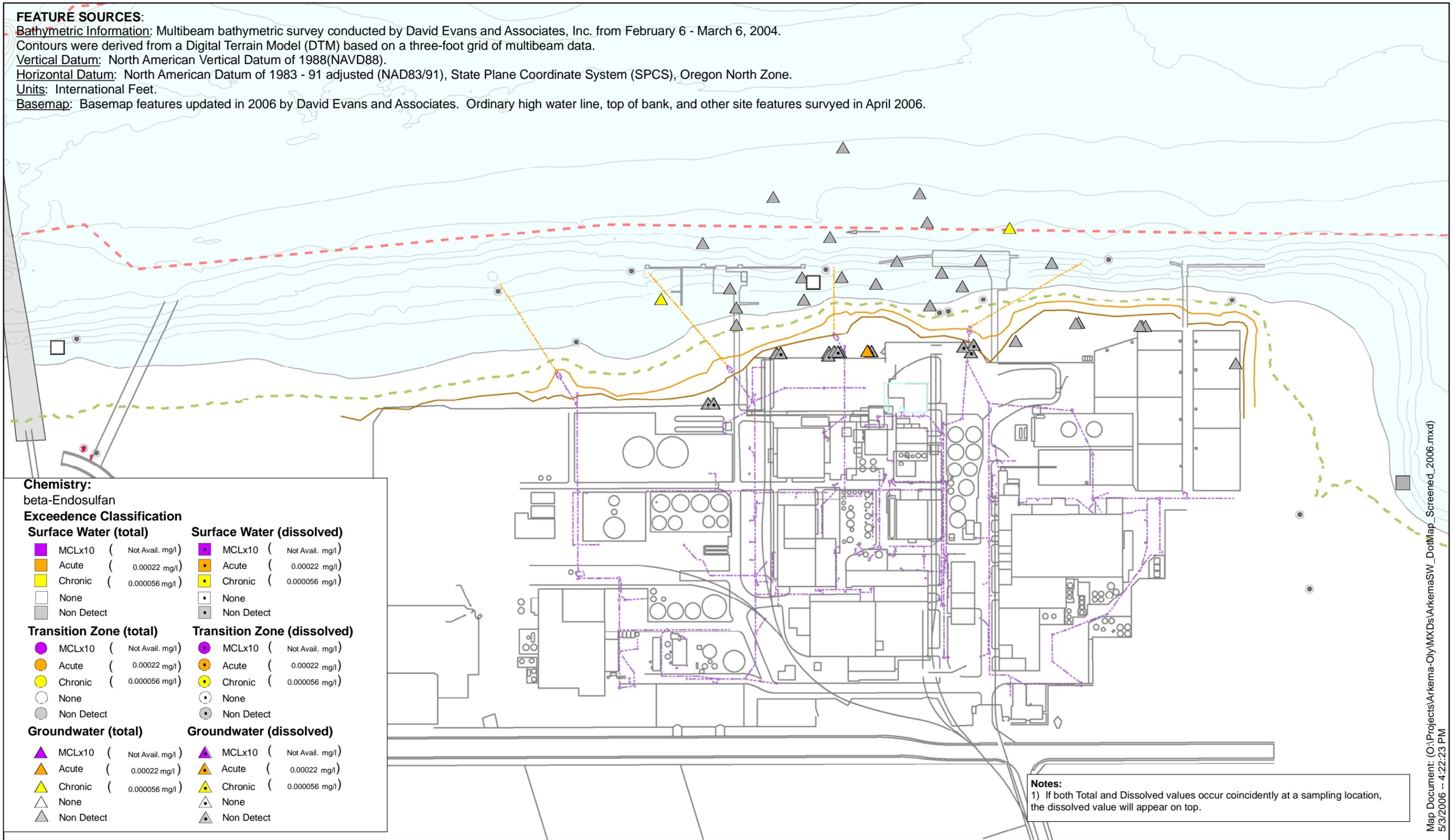
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Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

Units: International Feet.

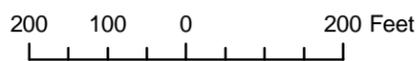
Basemap: Basemap features updated in 2006 by David Evans and Associates. Ordinary high water line, top of bank, and other site features surveyed in April 2006.



Chemistry:
beta-Endosulfan

Exceedance Classification		Surface Water (total)		Surface Water (dissolved)			
■	MCLx10 (Not Avail. mg/l)	■	MCLx10 (Not Avail. mg/l)	●	MCLx10 (Not Avail. mg/l)		
■	Acute (0.00022 mg/l)	■	Acute (0.00022 mg/l)	●	Acute (0.00022 mg/l)		
■	Chronic (0.000056 mg/l)	■	Chronic (0.000056 mg/l)	●	Chronic (0.000056 mg/l)		
□	None	□	None	○	None		
■	Non Detect	■	Non Detect	○	Non Detect		
Transition Zone (total)		Transition Zone (dissolved)		Groundwater (total)		Groundwater (dissolved)	
●	MCLx10 (Not Avail. mg/l)	●	MCLx10 (Not Avail. mg/l)	▲	MCLx10 (Not Avail. mg/l)	▲	MCLx10 (Not Avail. mg/l)
●	Acute (0.00022 mg/l)	●	Acute (0.00022 mg/l)	▲	Acute (0.00022 mg/l)	▲	Acute (0.00022 mg/l)
●	Chronic (0.000056 mg/l)	●	Chronic (0.000056 mg/l)	▲	Chronic (0.000056 mg/l)	▲	Chronic (0.000056 mg/l)
○	None	○	None	▲	None	▲	None
○	Non Detect	○	Non Detect	▲	Non Detect	▲	Non Detect

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



—	StormDrain	●	Outfalls	—	Navigation Channel	—	Ordinary High Water (+20.46 ft)
—	12ft. Contour	■	Bridges	—	River	—	Top of Bank

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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
beta-Endosulfan

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

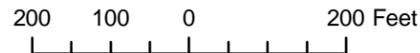
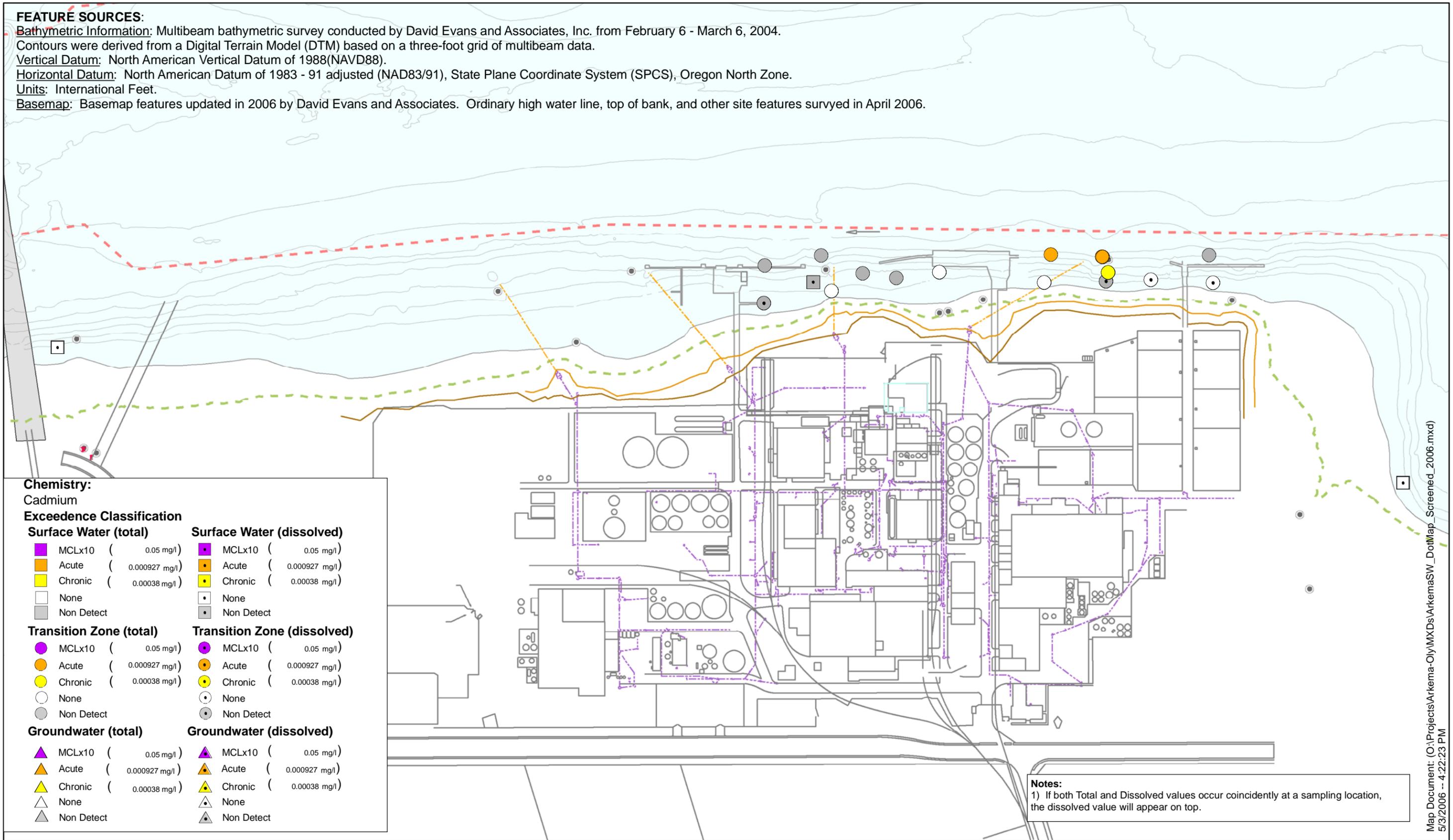
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Vertical Datum: North American Vertical Datum of 1988 (NAVD88).

Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

Units: International Feet.

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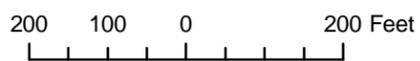
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Units: International Feet.

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.

Chemistry:		Chemistry:	
Carbon disulfide			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■ MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	■ Acute (0.017 mg/l)	● Acute (0.017 mg/l)
■ Chronic (0.00092 mg/l)	● Chronic (0.00092 mg/l)	■ None	● None
■ Non Detect	● Non Detect	■ None	● Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● Acute (0.017 mg/l)	● Acute (0.017 mg/l)
● Chronic (0.00092 mg/l)	● Chronic (0.00092 mg/l)	● None	● None
● Non Detect	● Non Detect	● None	● Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲ MCLx10 (Not Avail. mg/l)	▲ MCLx10 (Not Avail. mg/l)	▲ Acute (0.017 mg/l)	▲ Acute (0.017 mg/l)
▲ Chronic (0.00092 mg/l)	▲ Chronic (0.00092 mg/l)	▲ None	▲ None
▲ Non Detect	▲ Non Detect	▲ None	▲ Non Detect

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Carbon disulfide

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

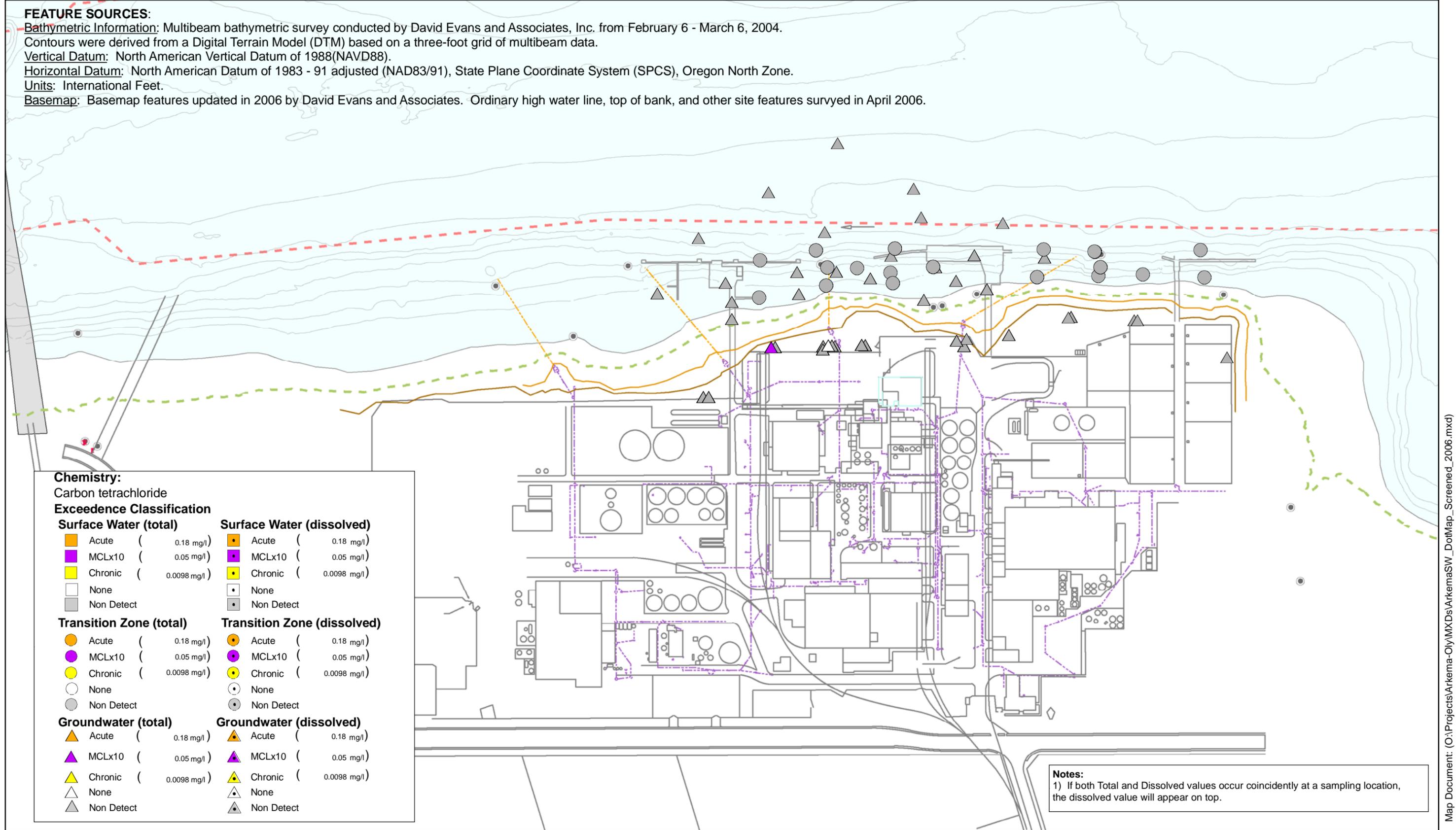
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Vertical Datum: North American Vertical Datum of 1988 (NAVD88).

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.



Chemistry:

Carbon tetrachloride

Exceedance Classification

Surface Water (total)

- Acute (0.18 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.0098 mg/l)
- None
- Non Detect

Surface Water (dissolved)

- Acute (0.18 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.0098 mg/l)
- None
- Non Detect

Transition Zone (total)

- Acute (0.18 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.0098 mg/l)
- None
- Non Detect

Transition Zone (dissolved)

- Acute (0.18 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.0098 mg/l)
- None
- Non Detect

Groundwater (total)

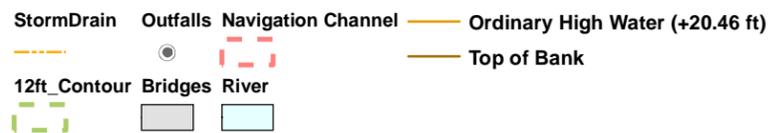
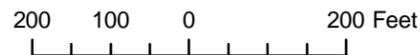
- Acute (0.18 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.0098 mg/l)
- None
- Non Detect

Groundwater (dissolved)

- Acute (0.18 mg/l)
- MCLx10 (0.05 mg/l)
- Chronic (0.0098 mg/l)
- None
- Non Detect

Notes:

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Carbon tetrachloride

FEATURE SOURCES:

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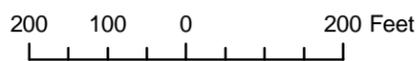
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Units: International Feet.

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.

Chemistry:		Chemistry:	
Chloride			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■	MCLx10 (Not Avail. mg/l)	●	MCLx10 (Not Avail. mg/l)
■	Acute (860 mg/l)	●	Acute (860 mg/l)
■	Chronic (230 mg/l)	●	Chronic (230 mg/l)
■	None	●	None
■	Non Detect	●	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
●	MCLx10 (Not Avail. mg/l)	●	MCLx10 (Not Avail. mg/l)
●	Acute (860 mg/l)	●	Acute (860 mg/l)
●	Chronic (230 mg/l)	●	Chronic (230 mg/l)
●	None	●	None
●	Non Detect	●	Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲	MCLx10 (Not Avail. mg/l)	▲	MCLx10 (Not Avail. mg/l)
▲	Acute (860 mg/l)	▲	Acute (860 mg/l)
▲	Chronic (230 mg/l)	▲	Chronic (230 mg/l)
▲	None	▲	None
▲	Non Detect	▲	Non Detect

Notes:
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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Chloride

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

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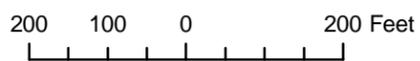
Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.

Chemistry:		Chemistry:	
Chloroform			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■ MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	■ MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)
■ Acute (0.49 mg/l)	● Acute (0.49 mg/l)	■ Acute (0.49 mg/l)	● Acute (0.49 mg/l)
■ Chronic (0.028 mg/l)	● Chronic (0.028 mg/l)	■ Chronic (0.028 mg/l)	● Chronic (0.028 mg/l)
■ None	● None	■ None	● None
■ Non Detect	● Non Detect	■ Non Detect	● Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)
● Acute (0.49 mg/l)			
● Chronic (0.028 mg/l)			
● None			
● Non Detect			
Groundwater (total)		Groundwater (dissolved)	
▲ MCLx10 (Not Avail. mg/l)	▲ MCLx10 (Not Avail. mg/l)	▲ MCLx10 (Not Avail. mg/l)	▲ MCLx10 (Not Avail. mg/l)
▲ Acute (0.49 mg/l)			
▲ Chronic (0.028 mg/l)			
▲ None			
▲ Non Detect			

Notes:
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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Chloroform

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

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).

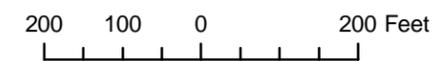
Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.

Chemistry:		Chemistry:	
Chromium			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■	MCLx10 (1 mg/l)	●	MCLx10 (1 mg/l)
■	Acute (0.20028 mg/l)	●	Acute (0.20028 mg/l)
■	Chronic (0.0261 mg/l)	●	Chronic (0.0261 mg/l)
■	None	●	None
■	Non Detect	●	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
●	MCLx10 (1 mg/l)	●	MCLx10 (1 mg/l)
●	Acute (0.20028 mg/l)	●	Acute (0.20028 mg/l)
●	Chronic (0.0261 mg/l)	●	Chronic (0.0261 mg/l)
●	None	●	None
●	Non Detect	●	Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲	MCLx10 (1 mg/l)	▲	MCLx10 (1 mg/l)
▲	Acute (0.20028 mg/l)	▲	Acute (0.20028 mg/l)
▲	Chronic (0.0261 mg/l)	▲	Chronic (0.0261 mg/l)
▲	None	▲	None
▲	Non Detect	▲	Non Detect

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Chromium

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

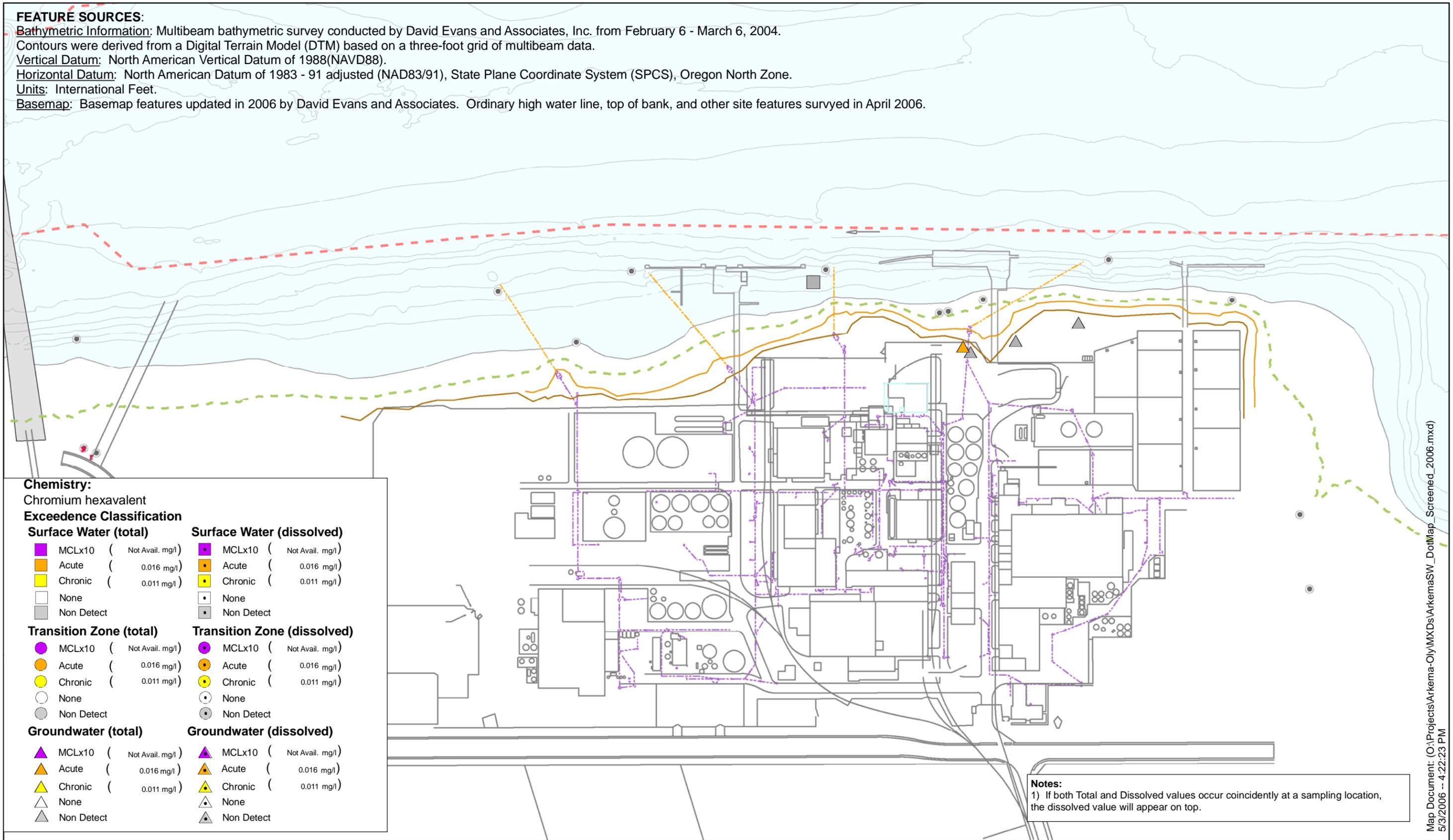
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.

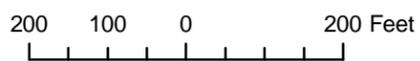
Units: International Feet.

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.



Chemistry:		Chemistry:	
Chromium hexavalent			
Exceedance Classification			
Surface Water (total)		Surface Water (dissolved)	
■ MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	■ MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)
■ Acute (0.016 mg/l)	● Acute (0.016 mg/l)	■ Acute (0.016 mg/l)	● Acute (0.016 mg/l)
■ Chronic (0.011 mg/l)	● Chronic (0.011 mg/l)	■ Chronic (0.011 mg/l)	● Chronic (0.011 mg/l)
■ None	● None	■ None	● None
■ Non Detect	● Non Detect	■ Non Detect	● Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)
● Acute (0.016 mg/l)			
● Chronic (0.011 mg/l)			
● None			
● Non Detect			
Groundwater (total)		Groundwater (dissolved)	
▲ MCLx10 (Not Avail. mg/l)	▲ MCLx10 (Not Avail. mg/l)	▲ MCLx10 (Not Avail. mg/l)	▲ MCLx10 (Not Avail. mg/l)
▲ Acute (0.016 mg/l)			
▲ Chronic (0.011 mg/l)			
▲ None			
▲ Non Detect			

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



--- StormDrain	● Outfalls	--- Navigation Channel	--- Ordinary High Water (+20.46 ft)
--- 12ft. Contour	■ Bridges	--- River	--- Top of Bank

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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Chromium hexavalent

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

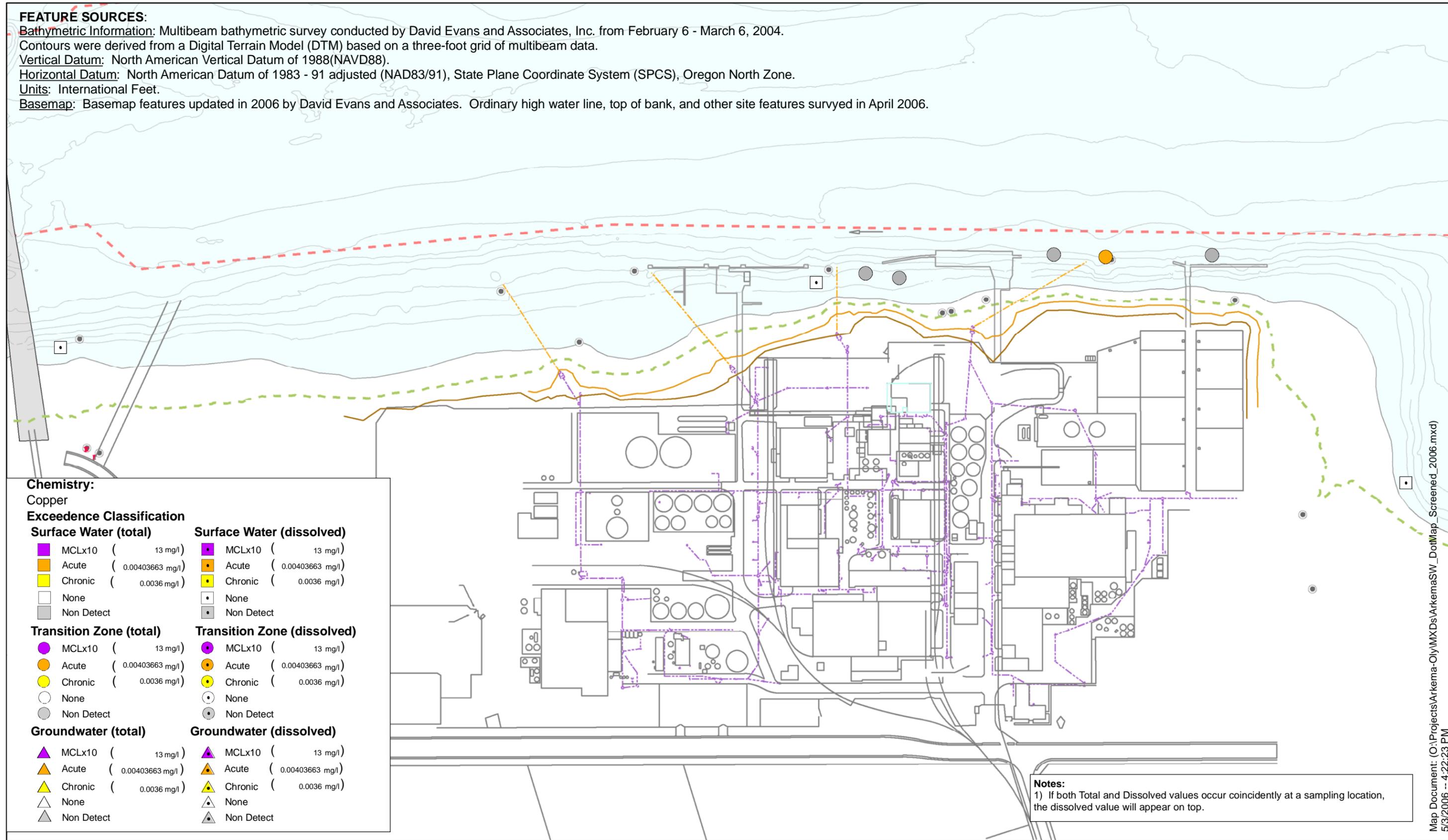
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.

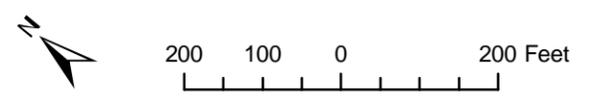
Units: International Feet.

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.



Chemistry:		Chemistry:	
Copper			
Exceedance Classification			
Surface Water (total)		Surface Water (dissolved)	
■ MCLx10 (13 mg/l)	● MCLx10 (13 mg/l)	■ Acute (0.00403663 mg/l)	● Acute (0.00403663 mg/l)
■ Chronic (0.0036 mg/l)	● Chronic (0.0036 mg/l)	■ None	● None
■ Non Detect	● Non Detect	■ Non Detect	● Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
● MCLx10 (13 mg/l)	● MCLx10 (13 mg/l)	● Acute (0.00403663 mg/l)	● Acute (0.00403663 mg/l)
● Chronic (0.0036 mg/l)	● Chronic (0.0036 mg/l)	● None	● None
● Non Detect	● Non Detect	● Non Detect	● Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲ MCLx10 (13 mg/l)	▲ MCLx10 (13 mg/l)	▲ Acute (0.00403663 mg/l)	▲ Acute (0.00403663 mg/l)
▲ Chronic (0.0036 mg/l)	▲ Chronic (0.0036 mg/l)	▲ None	▲ None
▲ Non Detect	▲ Non Detect	▲ Non Detect	▲ Non Detect

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Copper

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

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).

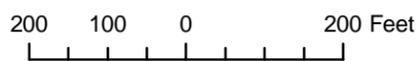
Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.

Chemistry:		Chemistry:	
DIELDERIN			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)
 Acute (0.00024 mg/l)	 Acute (0.00024 mg/l)	 Acute (0.00024 mg/l)	 Acute (0.00024 mg/l)
 Chronic (0.000056 mg/l)	 Chronic (0.000056 mg/l)	 Chronic (0.000056 mg/l)	 Chronic (0.000056 mg/l)
 None	 None	 None	 None
 Non Detect	 Non Detect	 Non Detect	 Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)
 Acute (0.00024 mg/l)	 Acute (0.00024 mg/l)	 Acute (0.00024 mg/l)	 Acute (0.00024 mg/l)
 Chronic (0.000056 mg/l)	 Chronic (0.000056 mg/l)	 Chronic (0.000056 mg/l)	 Chronic (0.000056 mg/l)
 None	 None	 None	 None
 Non Detect	 Non Detect	 Non Detect	 Non Detect
Groundwater (total)		Groundwater (dissolved)	
 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)	 MCLx10 (Not Avail. mg/l)
 Acute (0.00024 mg/l)	 Acute (0.00024 mg/l)	 Acute (0.00024 mg/l)	 Acute (0.00024 mg/l)
 Chronic (0.000056 mg/l)	 Chronic (0.000056 mg/l)	 Chronic (0.000056 mg/l)	 Chronic (0.000056 mg/l)
 None	 None	 None	 None
 Non Detect	 Non Detect	 Non Detect	 Non Detect

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
DIELDERIN

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

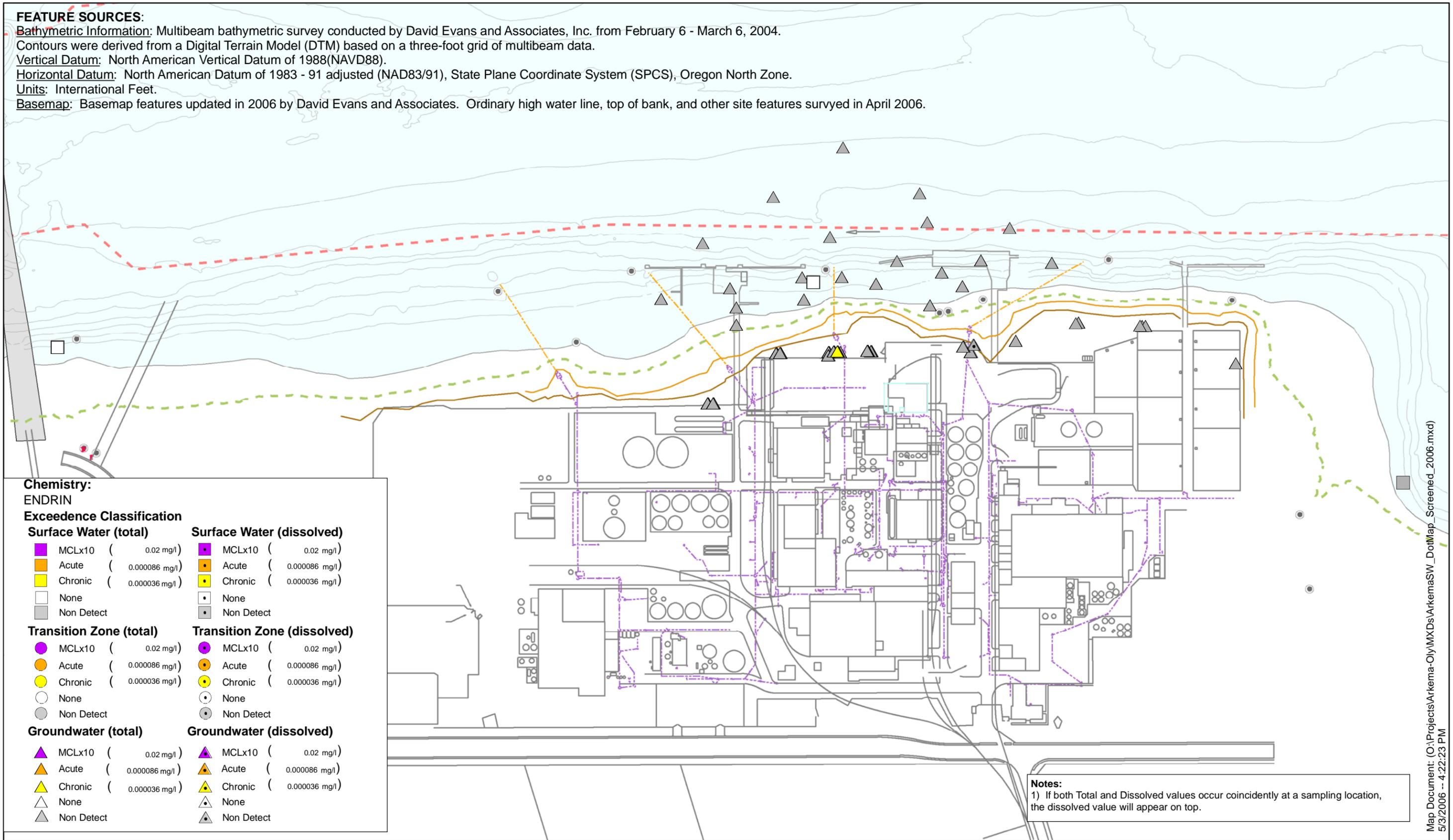
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.

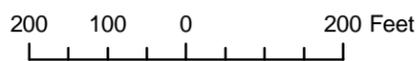
Units: International Feet.

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.



Chemistry:		Chemistry:	
ENDRIN			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■	MCLx10 (0.02 mg/l)	●	MCLx10 (0.02 mg/l)
■	Acute (0.000086 mg/l)	●	Acute (0.000086 mg/l)
■	Chronic (0.000036 mg/l)	●	Chronic (0.000036 mg/l)
■	None	●	None
■	Non Detect	●	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
●	MCLx10 (0.02 mg/l)	●	MCLx10 (0.02 mg/l)
●	Acute (0.000086 mg/l)	●	Acute (0.000086 mg/l)
●	Chronic (0.000036 mg/l)	●	Chronic (0.000036 mg/l)
●	None	●	None
●	Non Detect	●	Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲	MCLx10 (0.02 mg/l)	▲	MCLx10 (0.02 mg/l)
▲	Acute (0.000086 mg/l)	▲	Acute (0.000086 mg/l)
▲	Chronic (0.000036 mg/l)	▲	Chronic (0.000036 mg/l)
▲	None	▲	None
▲	Non Detect	▲	Non Detect

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



---	StormDrain	●	Outfalls	---	Navigation Channel	---	Ordinary High Water (+20.46 ft)
---	12ft. Contour	■	Bridges	---	River	---	Top of Bank

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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
ENDRIN

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

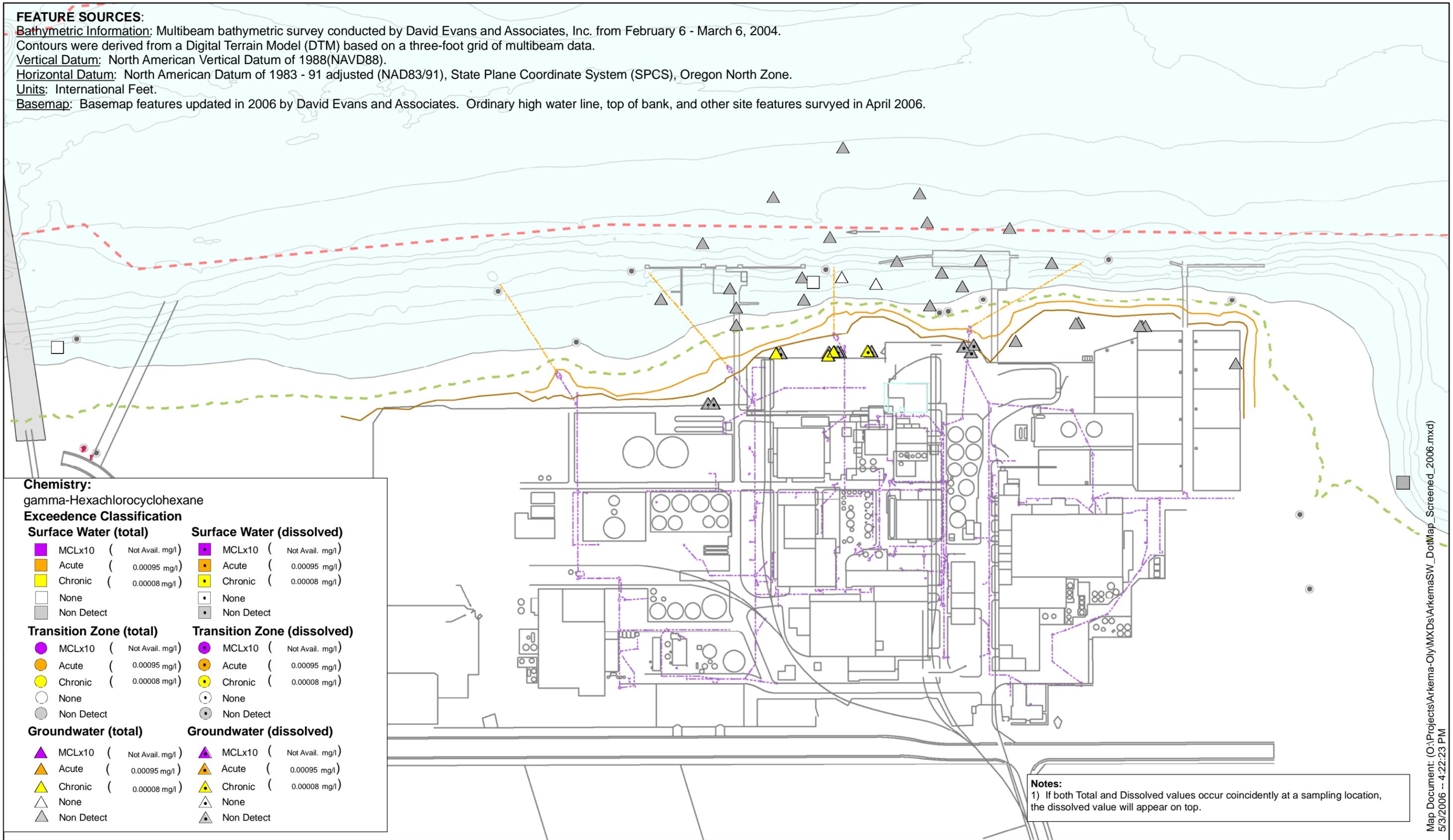
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Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.



FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

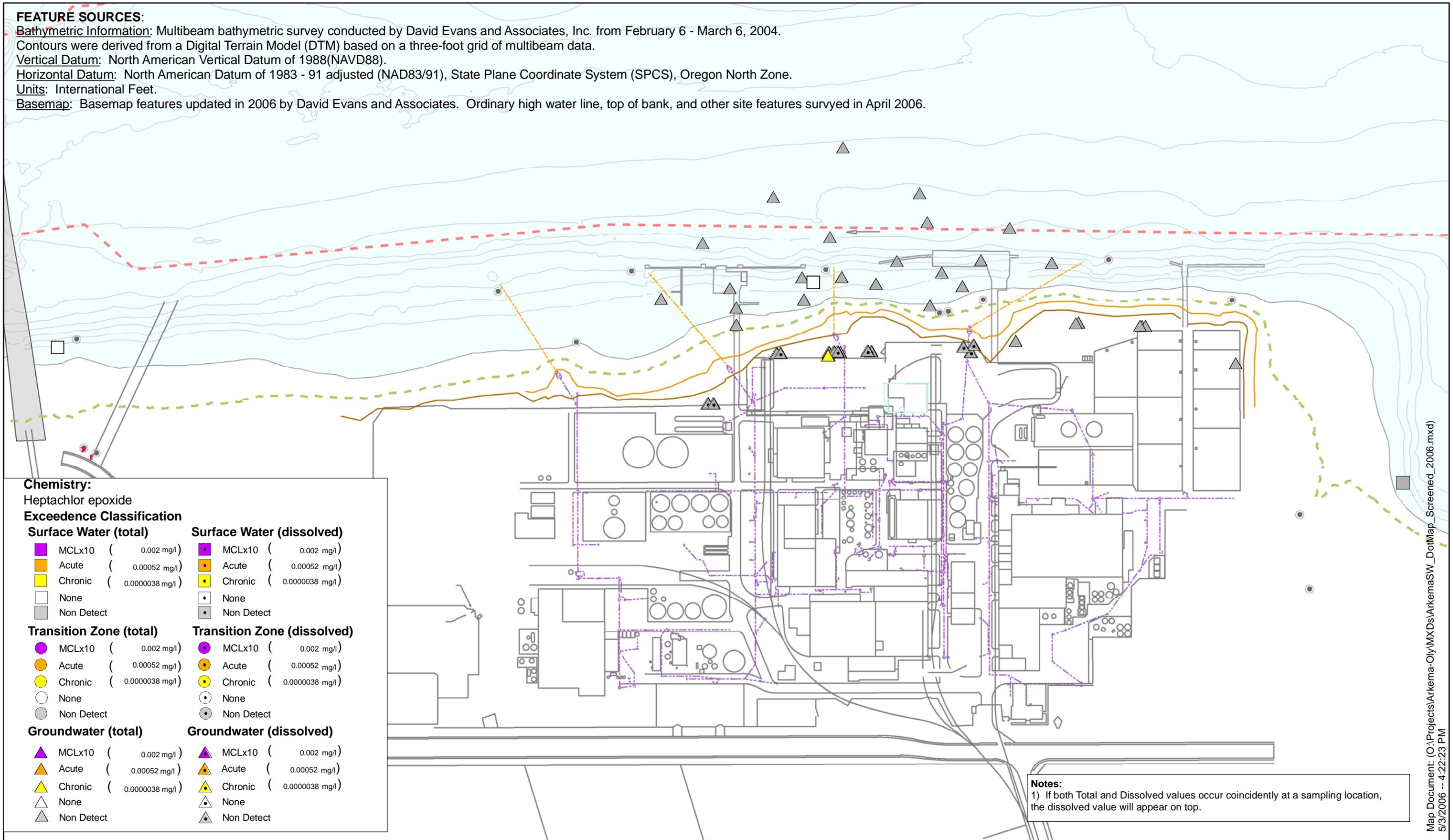
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.

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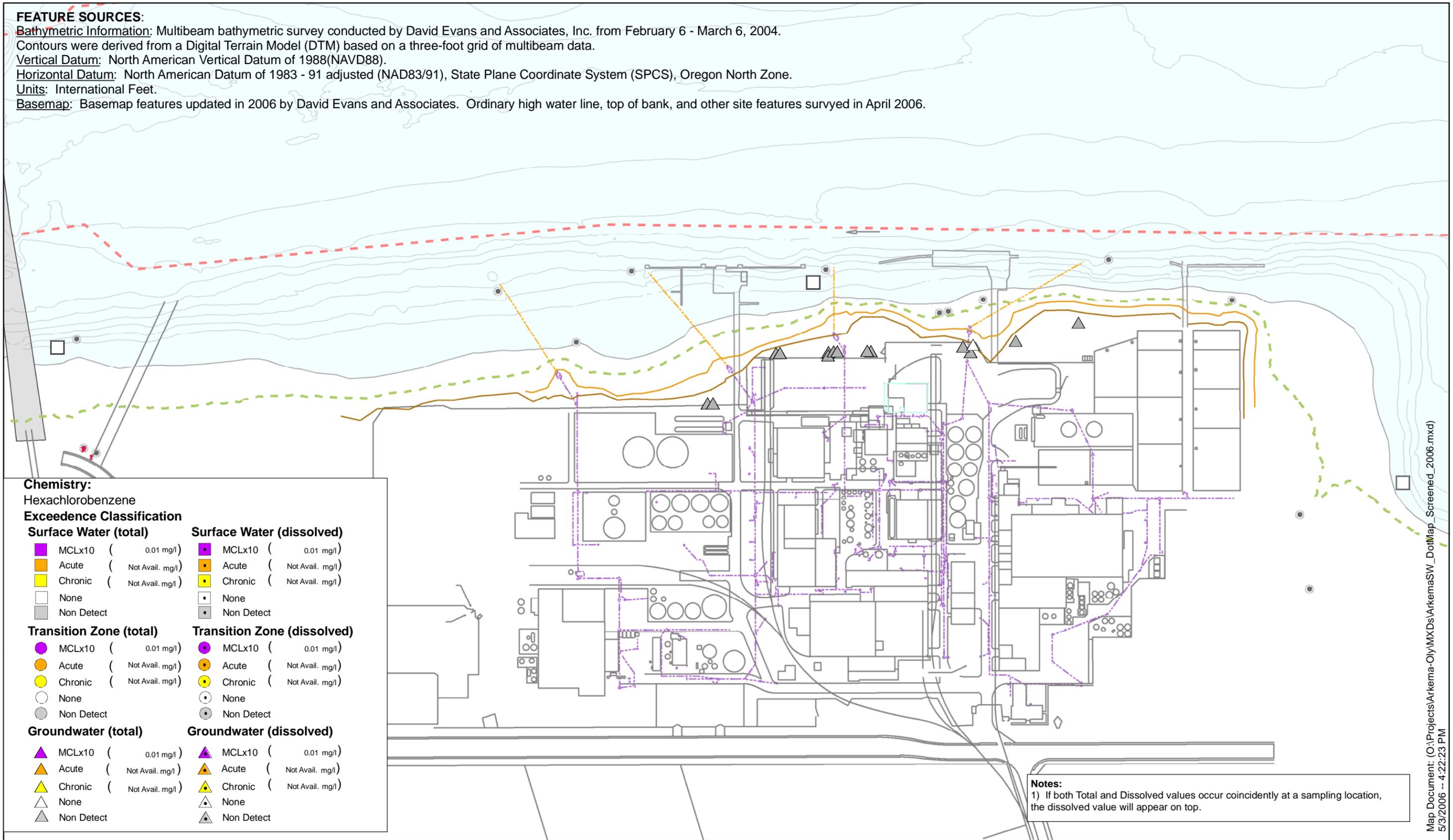
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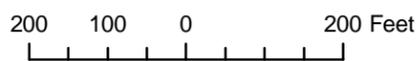
Units: International Feet.

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.



Chemistry:		Chemistry:	
Hexachlorobenzene			
Exceedance Classification			
Surface Water (total)		Surface Water (dissolved)	
■ MCLx10 (0.01 mg/l)	■ MCLx10 (0.01 mg/l)	● MCLx10 (0.01 mg/l)	● MCLx10 (0.01 mg/l)
■ Acute (Not Avail. mg/l)	■ Acute (Not Avail. mg/l)	● Acute (Not Avail. mg/l)	● Acute (Not Avail. mg/l)
■ Chronic (Not Avail. mg/l)	■ Chronic (Not Avail. mg/l)	● Chronic (Not Avail. mg/l)	● Chronic (Not Avail. mg/l)
□ None	□ None	○ None	○ None
■ Non Detect	■ Non Detect	● Non Detect	● Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
● MCLx10 (0.01 mg/l)			
● Acute (Not Avail. mg/l)			
● Chronic (Not Avail. mg/l)			
○ None	○ None	○ None	○ None
● Non Detect	● Non Detect	● Non Detect	● Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲ MCLx10 (0.01 mg/l)			
▲ Acute (Not Avail. mg/l)			
▲ Chronic (Not Avail. mg/l)			
△ None	△ None	△ None	△ None
▲ Non Detect	▲ Non Detect	▲ Non Detect	▲ Non Detect

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



Storm Drain	Outfalls	Navigation Channel	Ordinary High Water (+20.46 ft)
12ft. Contour	Bridges	River	Top of Bank

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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Hexachlorobenzene

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

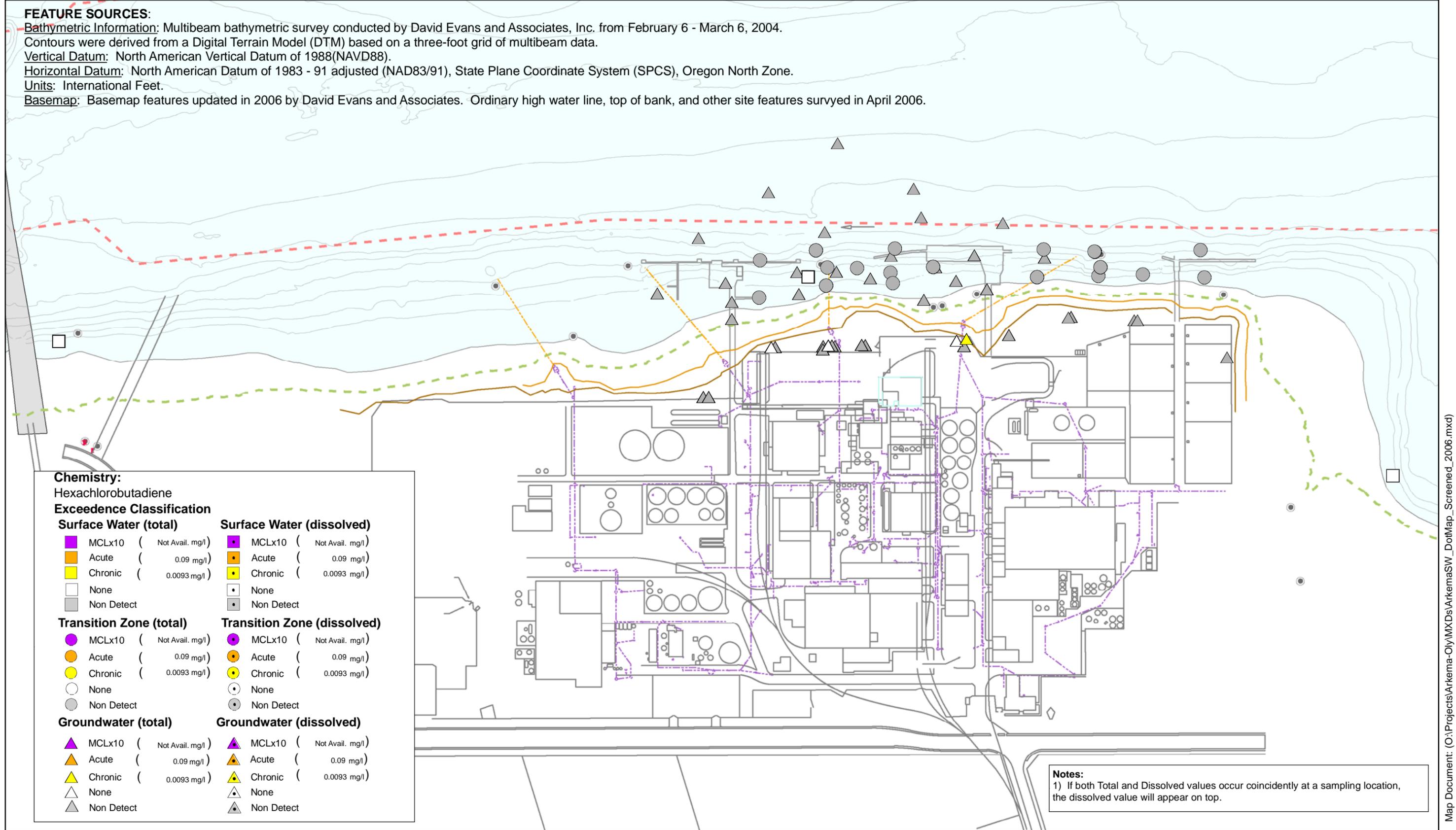
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Vertical Datum: North American Vertical Datum of 1988 (NAVD88).

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.



Chemistry:

Hexachlorobutadiene

Exceedence Classification

Surface Water (total)

- MCLx10 (Not Avail. mg/l)
- Acute (0.09 mg/l)
- Chronic (0.0093 mg/l)
- None
- Non Detect

Surface Water (dissolved)

- MCLx10 (Not Avail. mg/l)
- Acute (0.09 mg/l)
- Chronic (0.0093 mg/l)
- None
- Non Detect

Transition Zone (total)

- MCLx10 (Not Avail. mg/l)
- Acute (0.09 mg/l)
- Chronic (0.0093 mg/l)
- None
- Non Detect

Transition Zone (dissolved)

- MCLx10 (Not Avail. mg/l)
- Acute (0.09 mg/l)
- Chronic (0.0093 mg/l)
- None
- Non Detect

Groundwater (total)

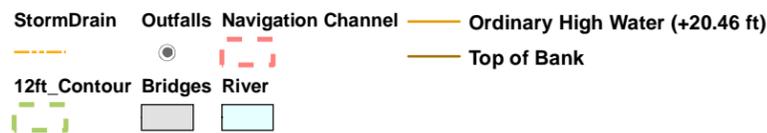
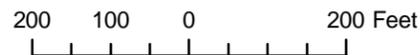
- ▲ MCLx10 (Not Avail. mg/l)
- ▲ Acute (0.09 mg/l)
- ▲ Chronic (0.0093 mg/l)
- None
- Non Detect

Groundwater (dissolved)

- ▲ MCLx10 (Not Avail. mg/l)
- ▲ Acute (0.09 mg/l)
- ▲ Chronic (0.0093 mg/l)
- None
- Non Detect

Notes:

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Hexachlorobutadiene

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

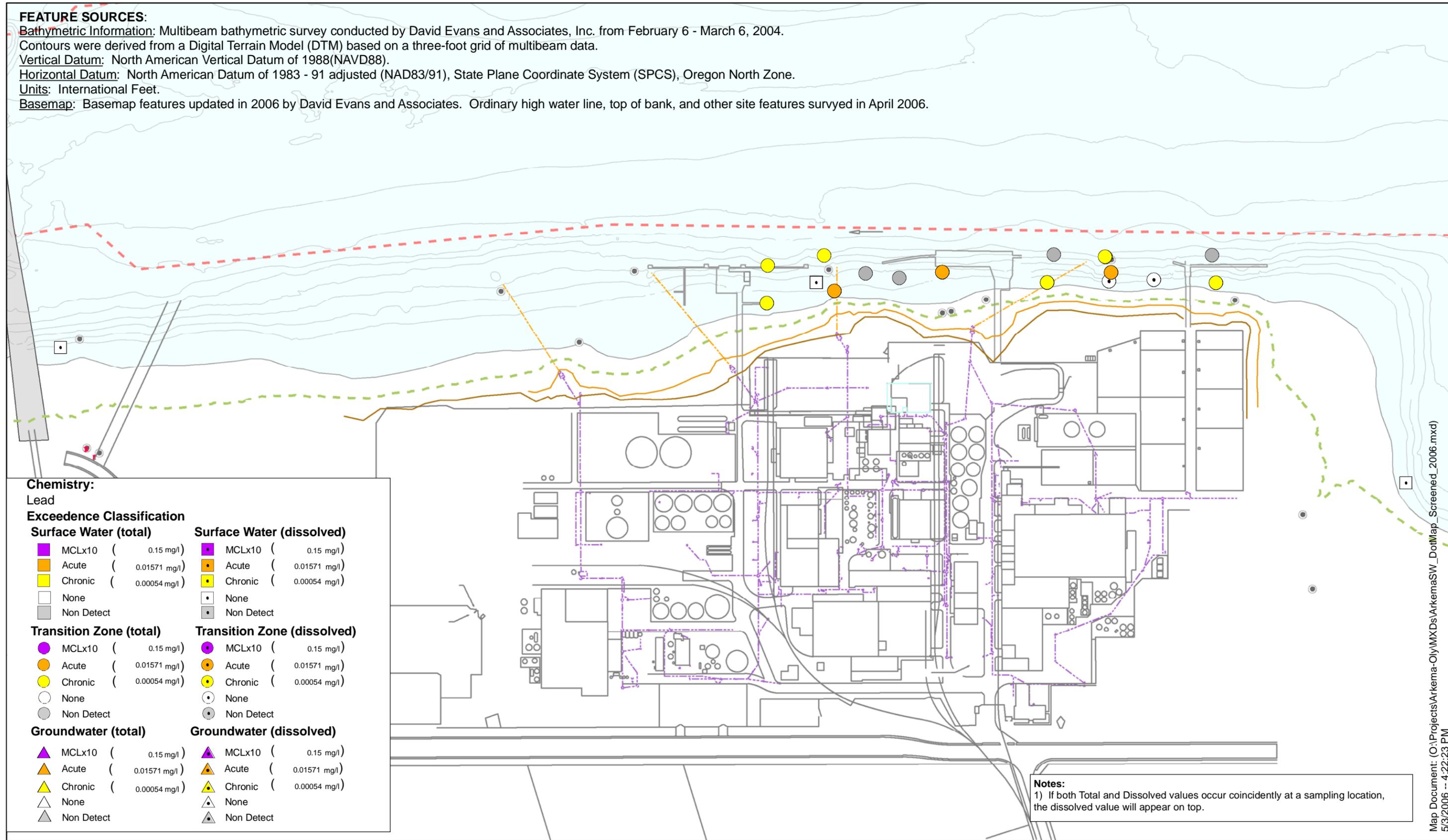
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

Vertical Datum: North American Vertical Datum of 1988(NAVD88).

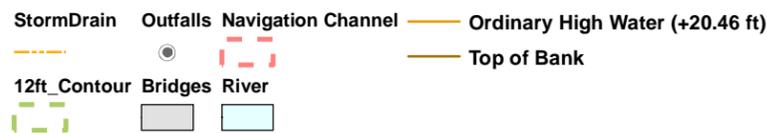
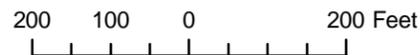
Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.

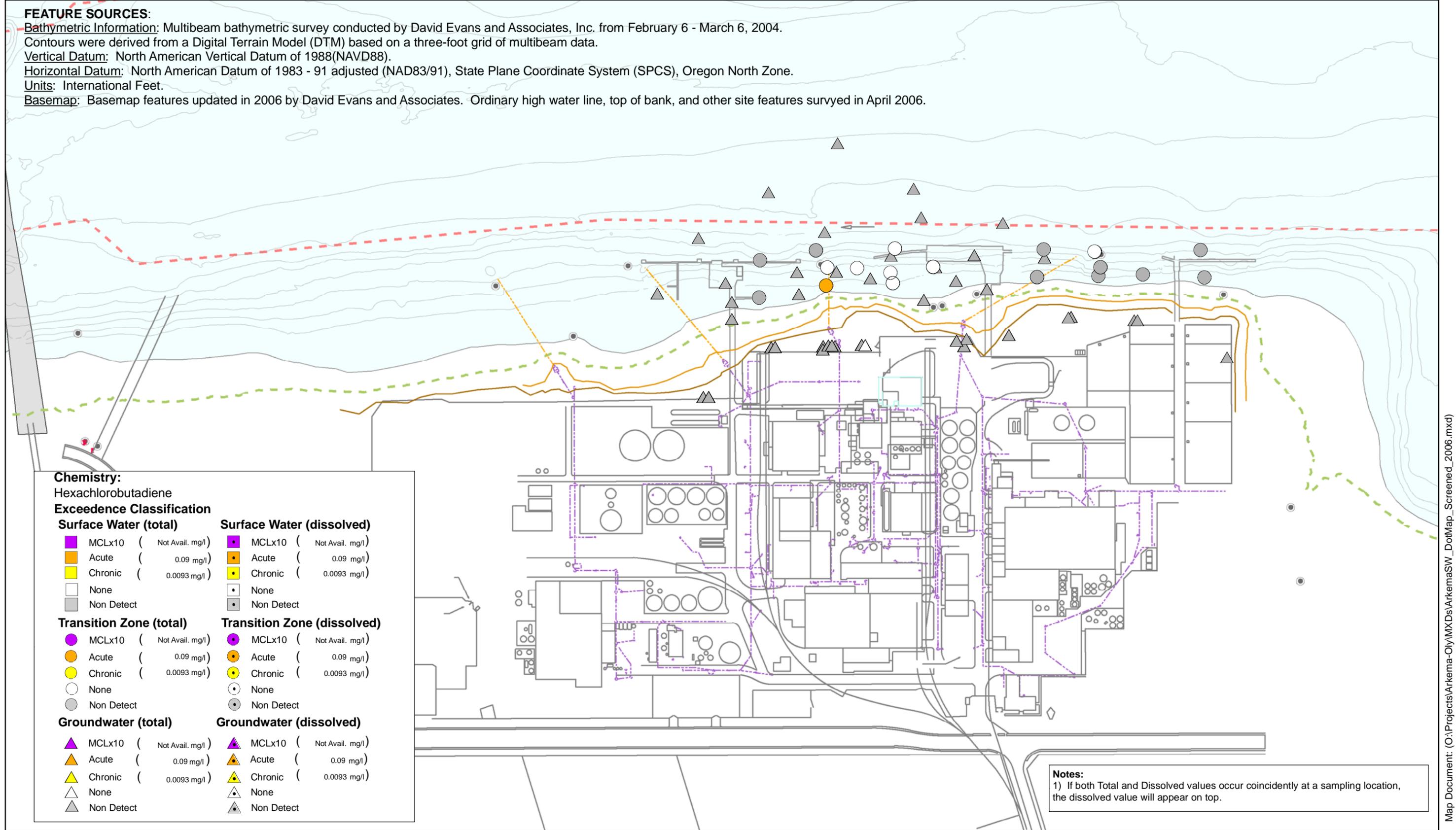


Notes:
1) If both Total and Dissolved values occur coincidentally at a sampling location, the dissolved value will appear on top.



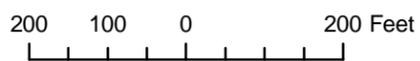
FEATURE SOURCES:

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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.



Chemistry:		Chemistry:	
Hexachlorobutadiene			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■ MCLx10 (Not Avail. mg/l)	■ MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)
■ Acute (0.09 mg/l)	■ Acute (0.09 mg/l)	● Acute (0.09 mg/l)	● Acute (0.09 mg/l)
■ Chronic (0.0093 mg/l)	■ Chronic (0.0093 mg/l)	● Chronic (0.0093 mg/l)	● Chronic (0.0093 mg/l)
□ None	□ None	○ None	○ None
■ Non Detect	■ Non Detect	● Non Detect	● Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
● MCLx10 (Not Avail. mg/l)			
● Acute (0.09 mg/l)			
● Chronic (0.0093 mg/l)			
○ None	○ None	○ None	○ None
● Non Detect	● Non Detect	● Non Detect	● Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲ MCLx10 (Not Avail. mg/l)			
▲ Acute (0.09 mg/l)			
▲ Chronic (0.0093 mg/l)			
△ None	△ None	△ None	△ None
▲ Non Detect	▲ Non Detect	▲ Non Detect	▲ Non Detect

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Hexachlorobutadiene

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

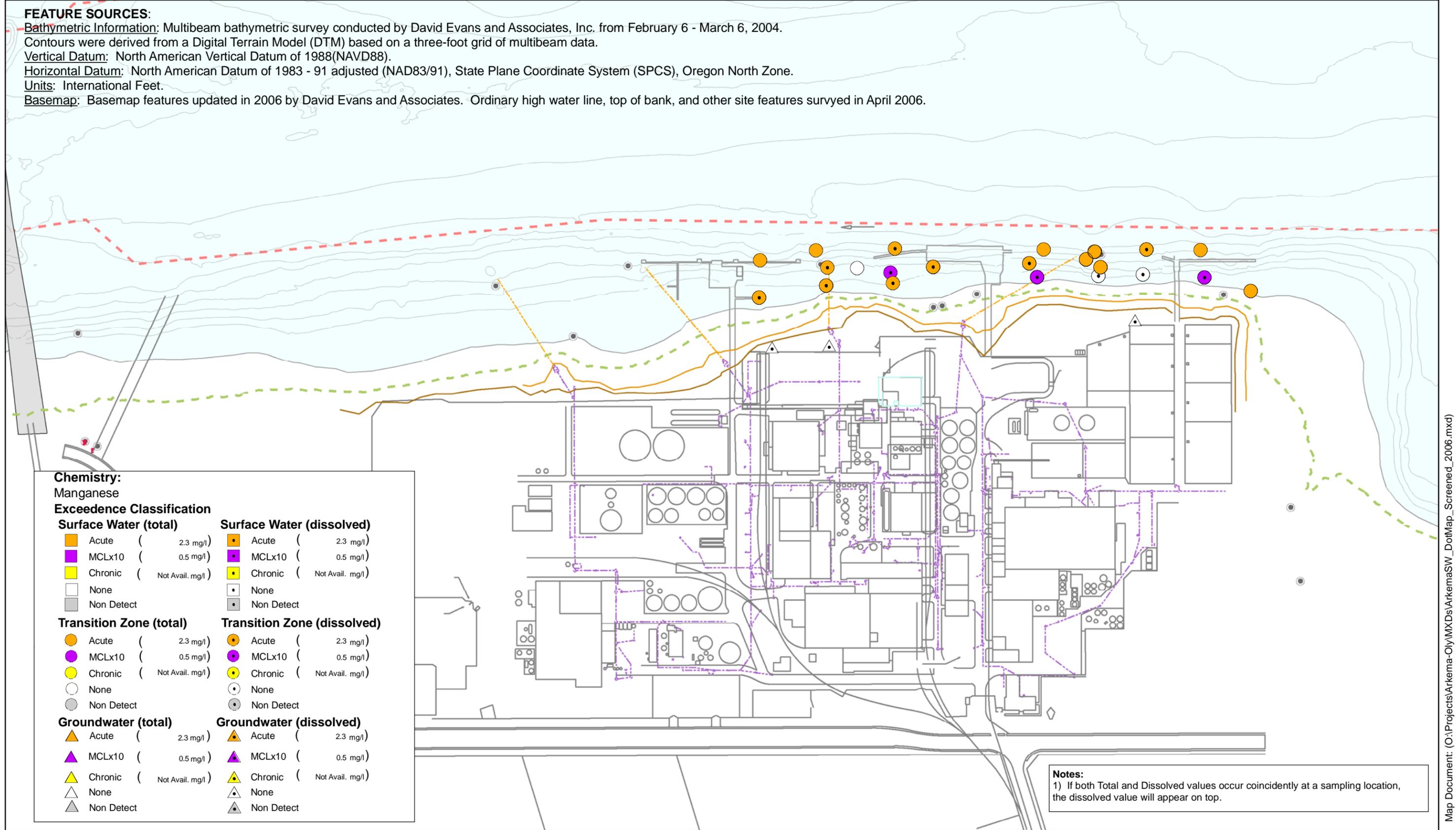
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.

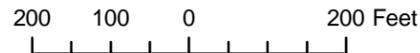
Units: International Feet.

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.



Chemistry:		Chemistry:	
Manganese			
Exceedance Classification			
Surface Water (total)		Surface Water (dissolved)	
Orange square	Acute (2.3 mg/l)	Orange square	Acute (2.3 mg/l)
Purple square	MCLx10 (0.5 mg/l)	Purple square	MCLx10 (0.5 mg/l)
Yellow square	Chronic (Not Avail. mg/l)	Yellow square	Chronic (Not Avail. mg/l)
White square	None	White square	None
Grey square	Non Detect	Grey square	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
Orange circle	Acute (2.3 mg/l)	Orange circle	Acute (2.3 mg/l)
Purple circle	MCLx10 (0.5 mg/l)	Purple circle	MCLx10 (0.5 mg/l)
Yellow circle	Chronic (Not Avail. mg/l)	Yellow circle	Chronic (Not Avail. mg/l)
White circle	None	White circle	None
Grey circle	Non Detect	Grey circle	Non Detect
Groundwater (total)		Groundwater (dissolved)	
Orange triangle	Acute (2.3 mg/l)	Orange triangle	Acute (2.3 mg/l)
Purple triangle	MCLx10 (0.5 mg/l)	Purple triangle	MCLx10 (0.5 mg/l)
Yellow triangle	Chronic (Not Avail. mg/l)	Yellow triangle	Chronic (Not Avail. mg/l)
White triangle	None	White triangle	None
Grey triangle	Non Detect	Grey triangle	Non Detect

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

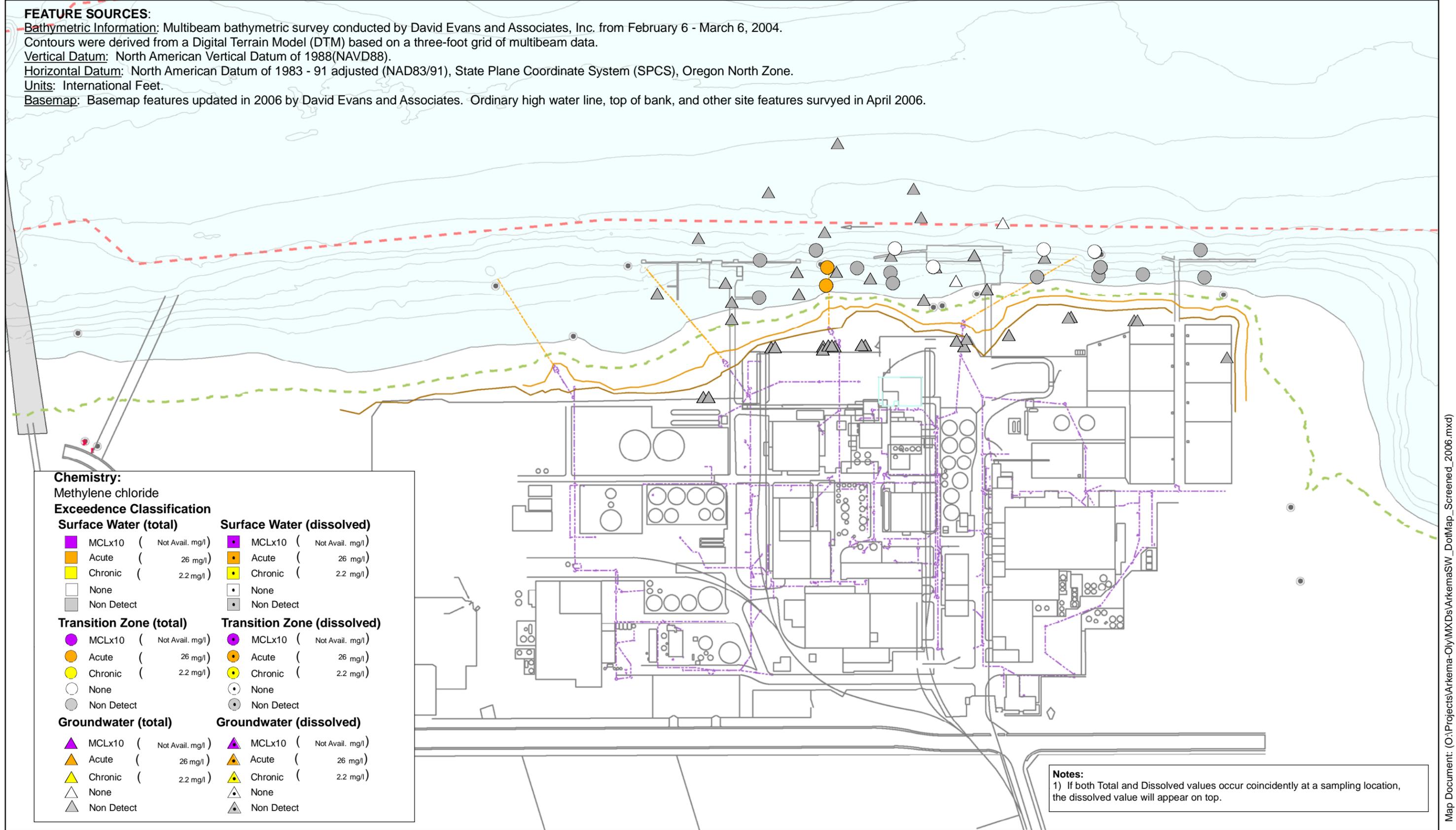


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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Manganese

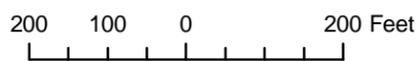
FEATURE SOURCES:

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.



Chemistry:		Chemistry:	
Methylene chloride			
Exceedance Classification			
Surface Water (total)		Surface Water (dissolved)	
■ MCLx10 (Not Avail. mg/l)	■ MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)
■ Acute (26 mg/l)	■ Acute (26 mg/l)	● Acute (26 mg/l)	● Acute (26 mg/l)
■ Chronic (2.2 mg/l)	■ Chronic (2.2 mg/l)	● Chronic (2.2 mg/l)	● Chronic (2.2 mg/l)
□ None	□ None	○ None	○ None
■ Non Detect	■ Non Detect	● Non Detect	● Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
● MCLx10 (Not Avail. mg/l)			
● Acute (26 mg/l)			
● Chronic (2.2 mg/l)			
○ None	○ None	○ None	○ None
● Non Detect	● Non Detect	● Non Detect	● Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲ MCLx10 (Not Avail. mg/l)			
▲ Acute (26 mg/l)			
▲ Chronic (2.2 mg/l)			
△ None	△ None	△ None	△ None
▲ Non Detect	▲ Non Detect	▲ Non Detect	▲ Non Detect

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



Storm Drain	Outfalls	Navigation Channel	Ordinary High Water (+20.46 ft)
12ft. Contour	Bridges	River	Top of Bank

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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Methylene chloride

Map Document: (O:\Projects\Arkema-Oly\MXDs\ArkemaSW_DotMap_Screened_2006.mxd)
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FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

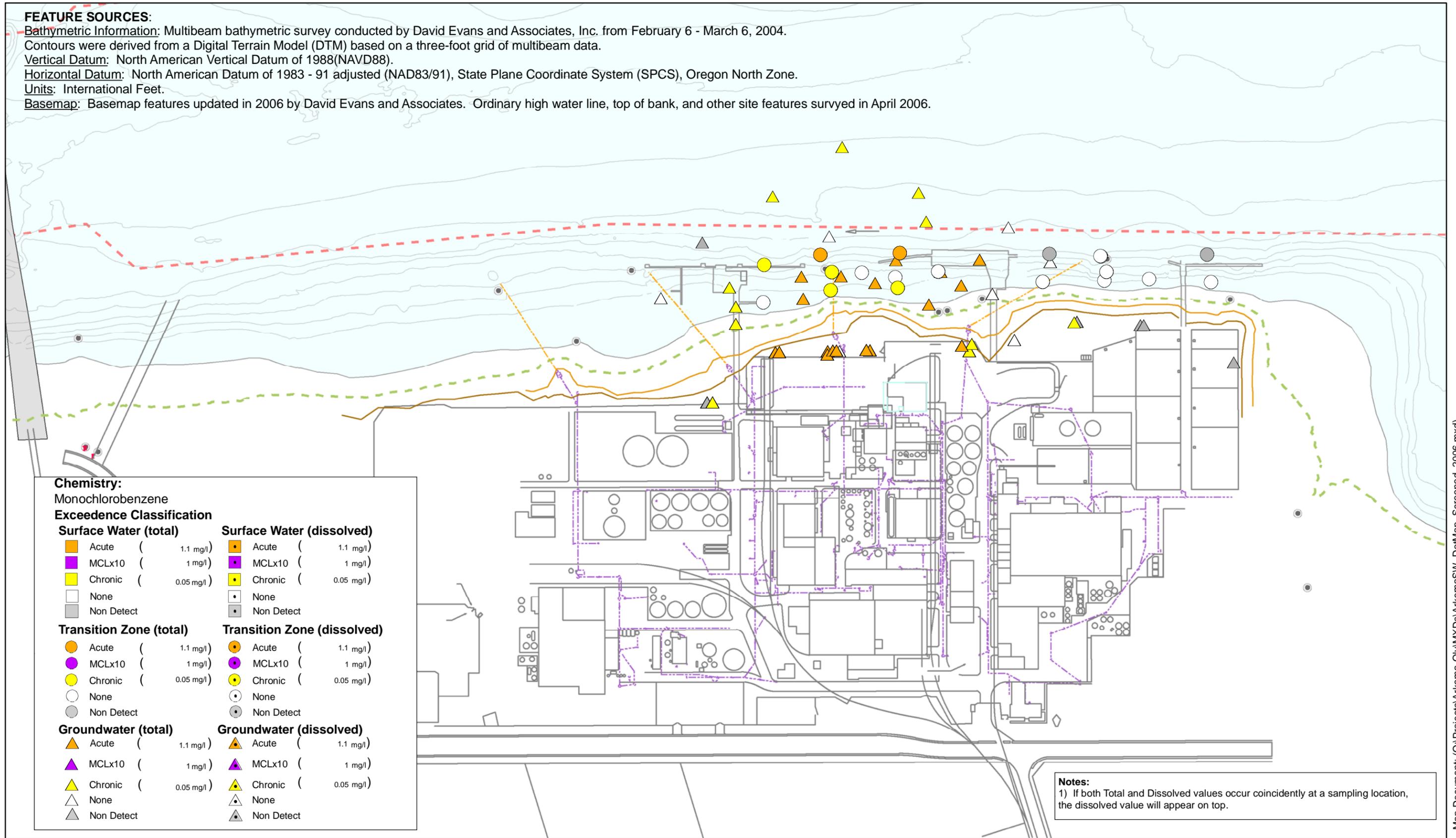
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.

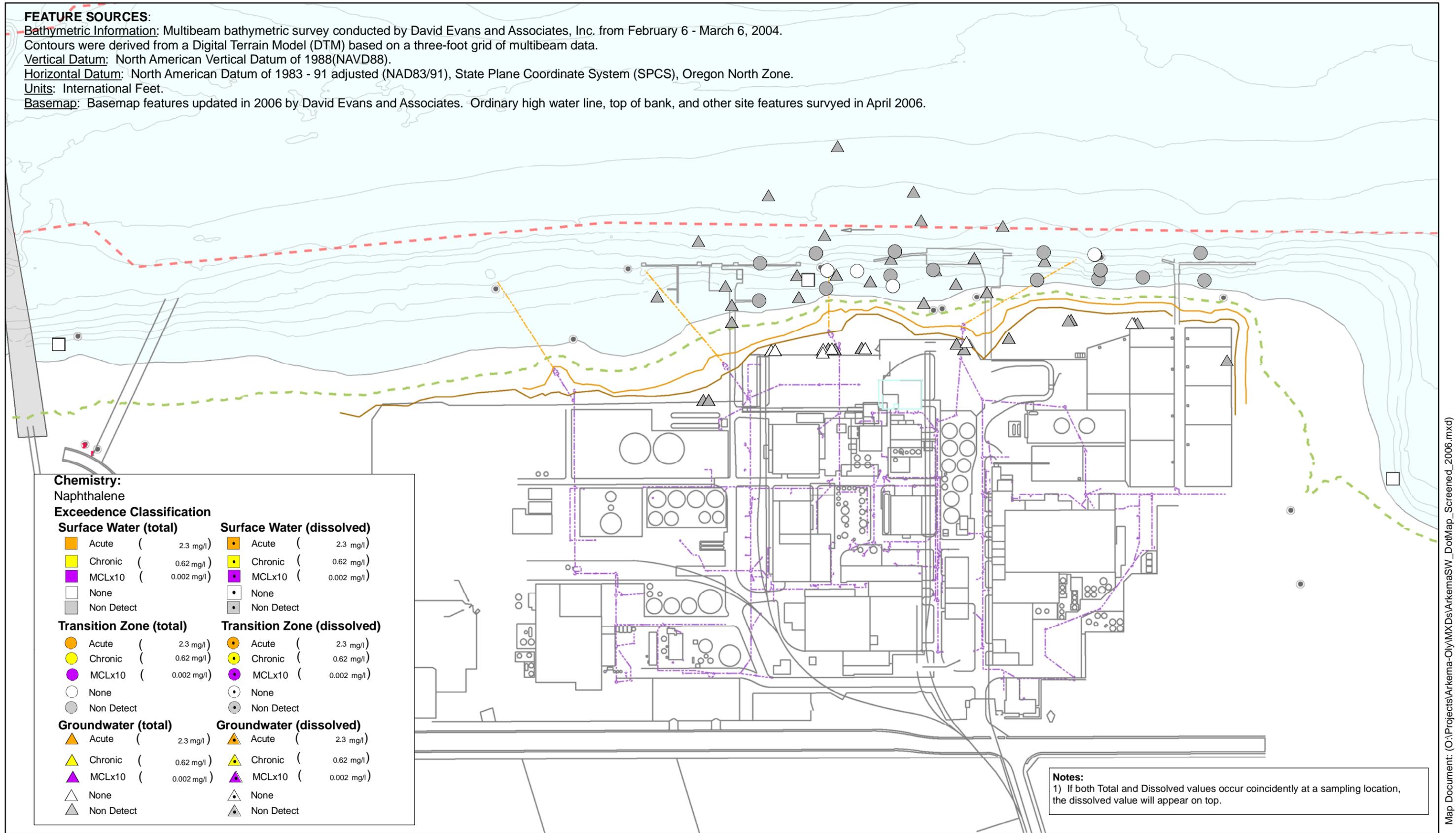
Units: International Feet.

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.



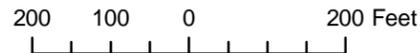
FEATURE SOURCES:

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.



Chemistry:			
Naphthalene			
Exceedance Classification			
Surface Water (total)		Surface Water (dissolved)	
Orange	Acute (2.3 mg/l)	Orange	Acute (2.3 mg/l)
Yellow	Chronic (0.62 mg/l)	Yellow	Chronic (0.62 mg/l)
Purple	MCLx10 (0.002 mg/l)	Purple	MCLx10 (0.002 mg/l)
White	None	White	None
Grey	Non Detect	Grey	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
Orange	Acute (2.3 mg/l)	Orange	Acute (2.3 mg/l)
Yellow	Chronic (0.62 mg/l)	Yellow	Chronic (0.62 mg/l)
Purple	MCLx10 (0.002 mg/l)	Purple	MCLx10 (0.002 mg/l)
White	None	White	None
Grey	Non Detect	Grey	Non Detect
Groundwater (total)		Groundwater (dissolved)	
Orange	Acute (2.3 mg/l)	Orange	Acute (2.3 mg/l)
Yellow	Chronic (0.62 mg/l)	Yellow	Chronic (0.62 mg/l)
Purple	MCLx10 (0.002 mg/l)	Purple	MCLx10 (0.002 mg/l)
White	None	White	None
Grey	Non Detect	Grey	Non Detect

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

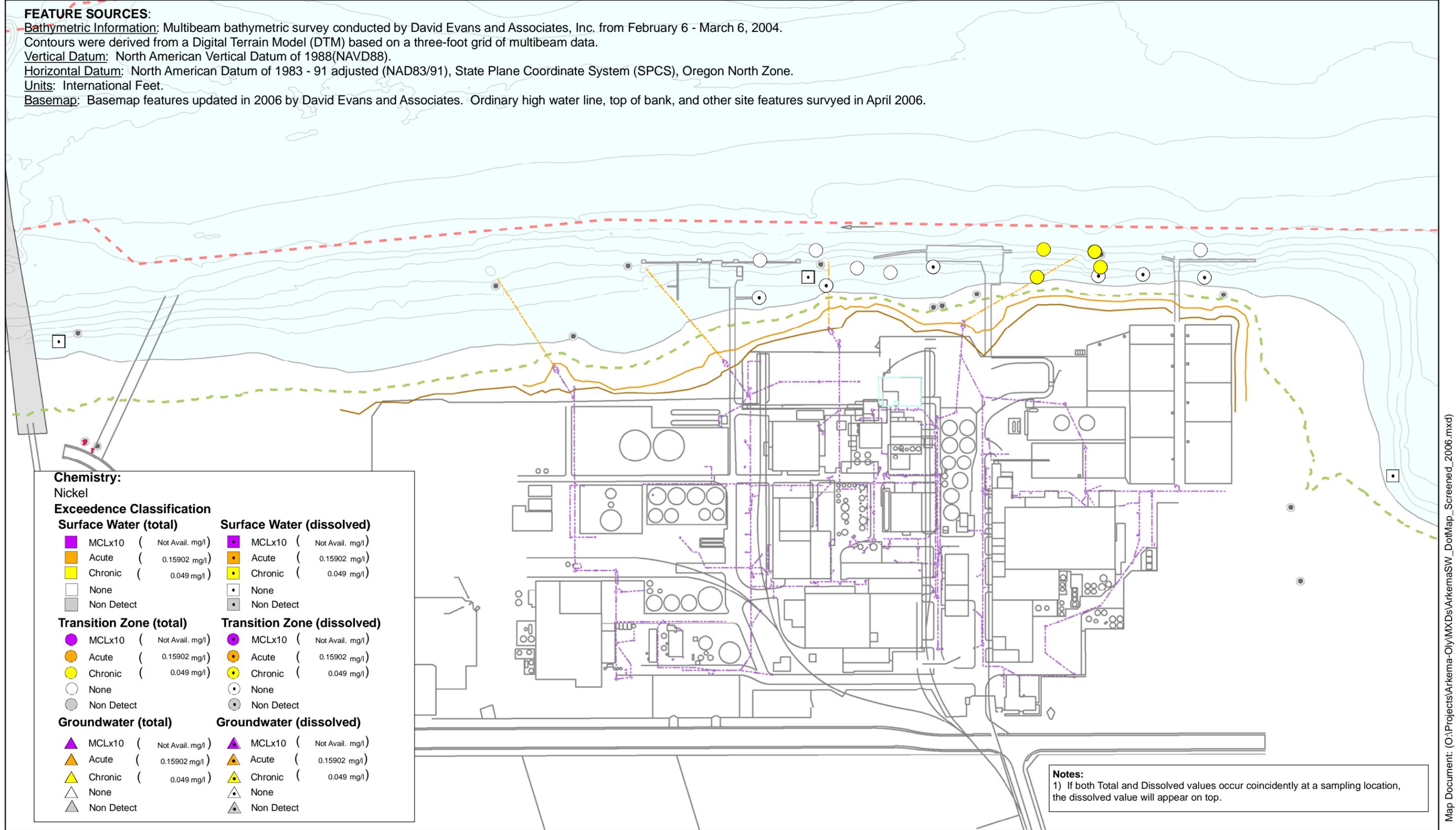


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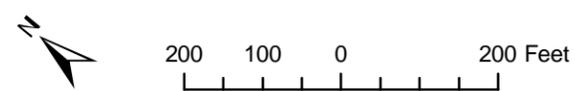
Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Naphthalene

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.
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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.



Notes:
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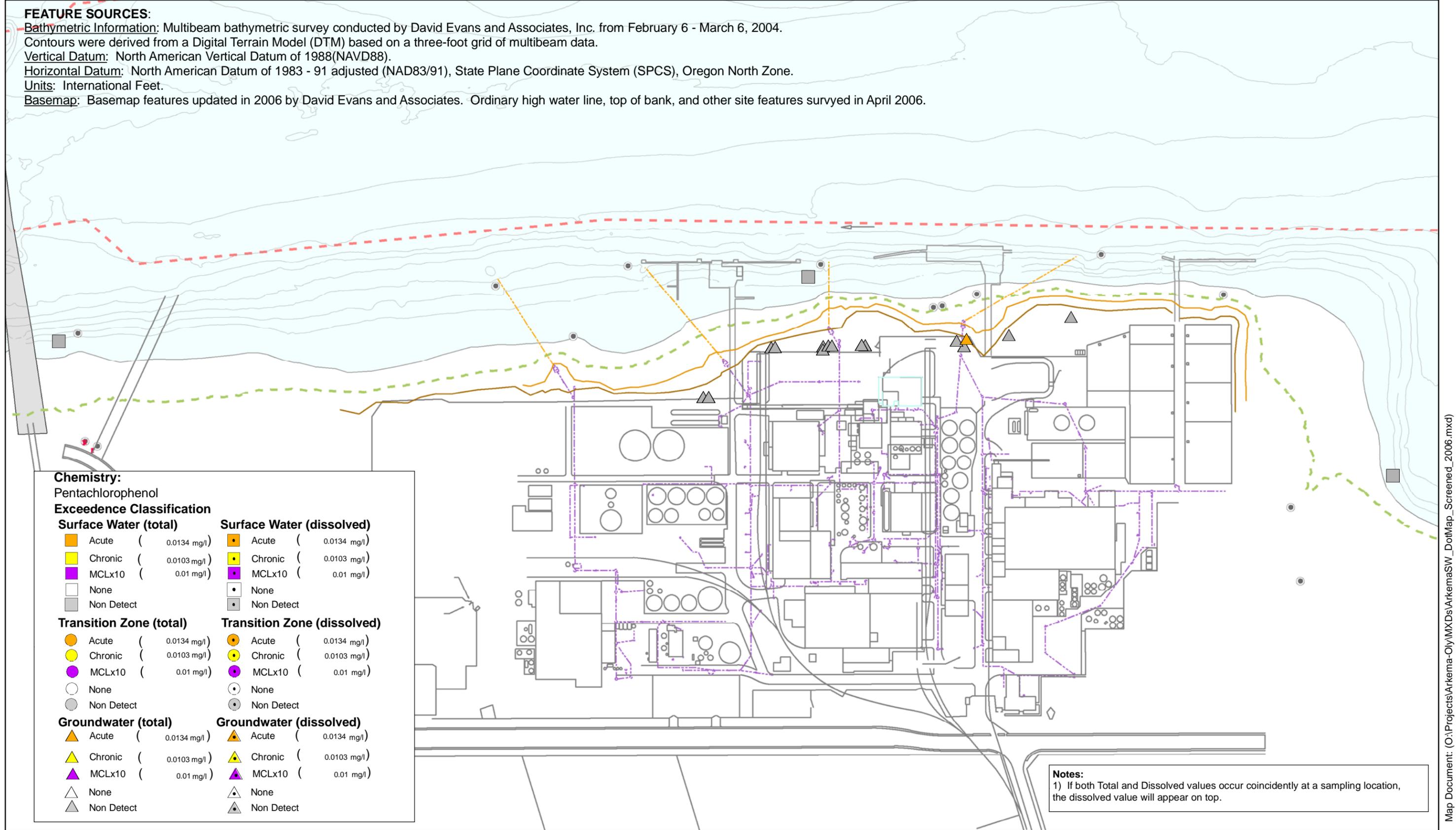
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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Nickel

Map Document: (O:\Projects\Arkema-Oly\MXDs\ArkemaSW_DotMap_Screened_2006.mxd)
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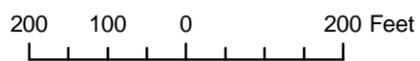
FEATURE SOURCES:

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.



Chemistry:		Chemistry:	
Pentachlorophenol			
Exceedance Classification			
Surface Water (total)		Surface Water (dissolved)	
Orange	Acute (0.0134 mg/l)	Orange	Acute (0.0134 mg/l)
Yellow	Chronic (0.0103 mg/l)	Yellow	Chronic (0.0103 mg/l)
Purple	MCLx10 (0.01 mg/l)	Purple	MCLx10 (0.01 mg/l)
White	None	White	None
Grey	Non Detect	Grey	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
Orange	Acute (0.0134 mg/l)	Orange	Acute (0.0134 mg/l)
Yellow	Chronic (0.0103 mg/l)	Yellow	Chronic (0.0103 mg/l)
Purple	MCLx10 (0.01 mg/l)	Purple	MCLx10 (0.01 mg/l)
White	None	White	None
Grey	Non Detect	Grey	Non Detect
Groundwater (total)		Groundwater (dissolved)	
Orange	Acute (0.0134 mg/l)	Orange	Acute (0.0134 mg/l)
Yellow	Chronic (0.0103 mg/l)	Yellow	Chronic (0.0103 mg/l)
Purple	MCLx10 (0.01 mg/l)	Purple	MCLx10 (0.01 mg/l)
White	None	White	None
Grey	Non Detect	Grey	Non Detect

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Pentachlorophenol

Map Document: (O:\Projects\Arkema-Oly\MXDs\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

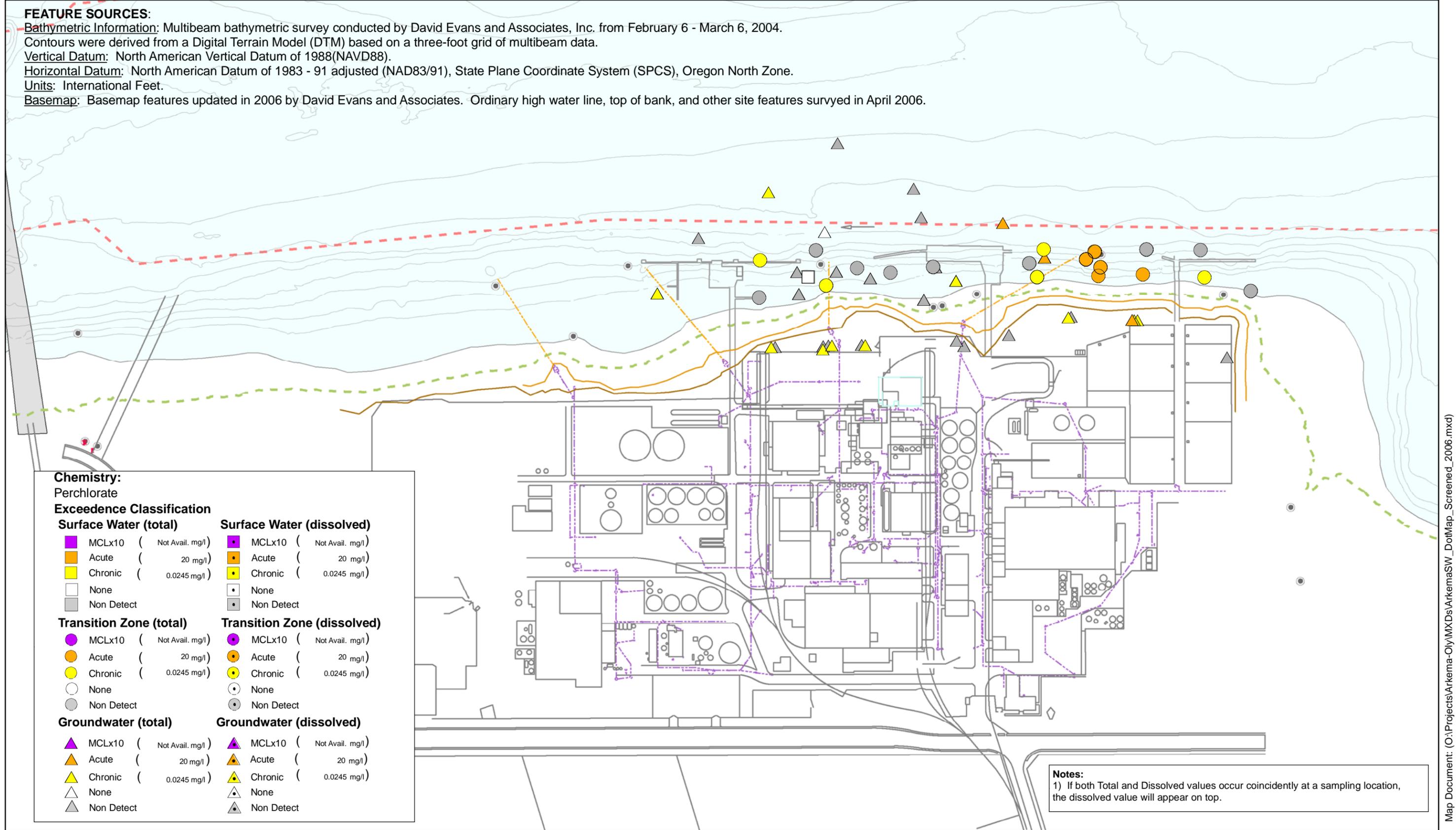
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.

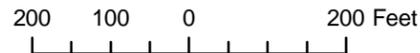
Units: International Feet.

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.



Chemistry:		Chemistry:	
Perchlorate			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■	MCLx10 (Not Avail. mg/l)	●	MCLx10 (Not Avail. mg/l)
■	Acute (20 mg/l)	●	Acute (20 mg/l)
■	Chronic (0.0245 mg/l)	●	Chronic (0.0245 mg/l)
■	None	●	None
■	Non Detect	●	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
●	MCLx10 (Not Avail. mg/l)	●	MCLx10 (Not Avail. mg/l)
●	Acute (20 mg/l)	●	Acute (20 mg/l)
●	Chronic (0.0245 mg/l)	●	Chronic (0.0245 mg/l)
●	None	●	None
●	Non Detect	●	Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲	MCLx10 (Not Avail. mg/l)	▲	MCLx10 (Not Avail. mg/l)
▲	Acute (20 mg/l)	▲	Acute (20 mg/l)
▲	Chronic (0.0245 mg/l)	▲	Chronic (0.0245 mg/l)
▲	None	▲	None
▲	Non Detect	▲	Non Detect

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Perchlorate

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

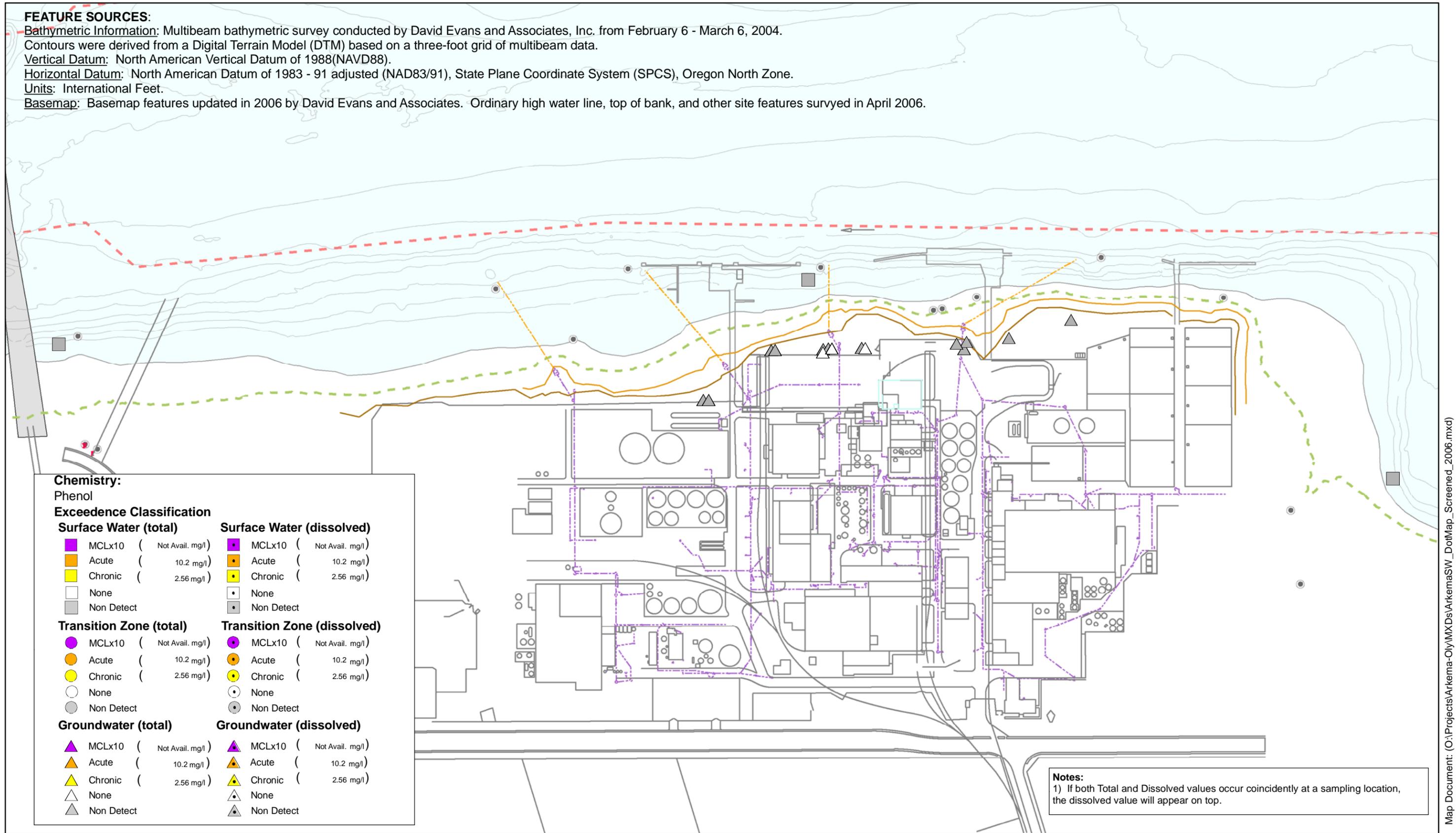
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

Vertical Datum: North American Vertical Datum of 1988 (NAVD88).

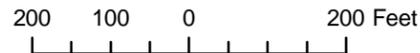
Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Phenol

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

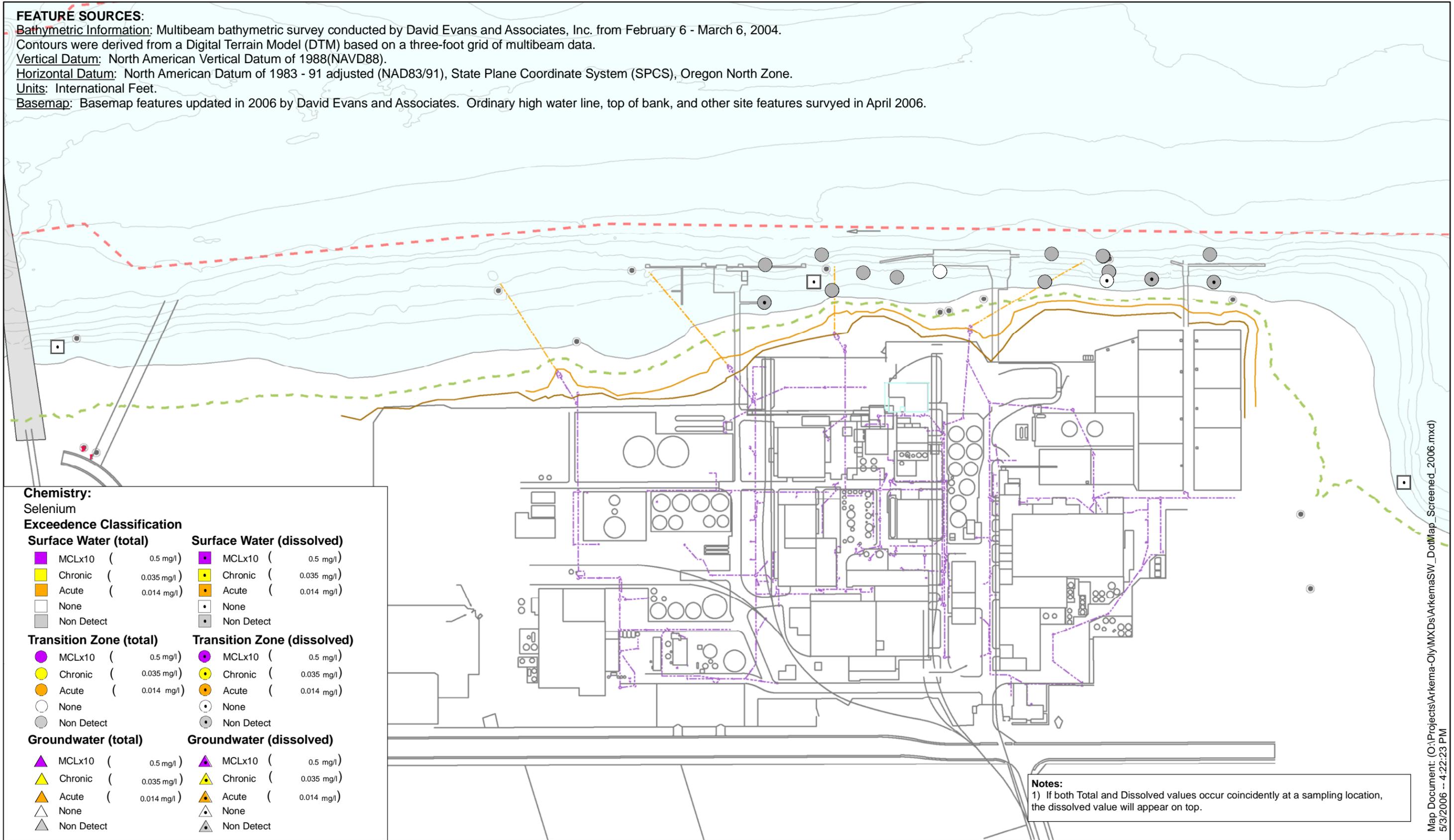
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.

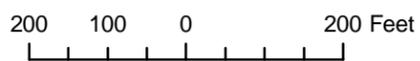
Units: International Feet.

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.



Chemistry:		Chemistry:	
Selenium			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■ MCLx10 (0.5 mg/l)	■ MCLx10 (0.5 mg/l)	● MCLx10 (0.5 mg/l)	● MCLx10 (0.5 mg/l)
■ Chronic (0.035 mg/l)	■ Chronic (0.035 mg/l)	● Chronic (0.035 mg/l)	● Chronic (0.035 mg/l)
■ Acute (0.014 mg/l)	■ Acute (0.014 mg/l)	● Acute (0.014 mg/l)	● Acute (0.014 mg/l)
□ None	□ None	○ None	○ None
■ Non Detect	■ Non Detect	● Non Detect	● Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
● MCLx10 (0.5 mg/l)	● MCLx10 (0.5 mg/l)	● MCLx10 (0.5 mg/l)	● MCLx10 (0.5 mg/l)
● Chronic (0.035 mg/l)	● Chronic (0.035 mg/l)	● Chronic (0.035 mg/l)	● Chronic (0.035 mg/l)
● Acute (0.014 mg/l)	● Acute (0.014 mg/l)	● Acute (0.014 mg/l)	● Acute (0.014 mg/l)
○ None	○ None	○ None	○ None
● Non Detect	● Non Detect	● Non Detect	● Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲ MCLx10 (0.5 mg/l)	▲ MCLx10 (0.5 mg/l)	▲ MCLx10 (0.5 mg/l)	▲ MCLx10 (0.5 mg/l)
▲ Chronic (0.035 mg/l)	▲ Chronic (0.035 mg/l)	▲ Chronic (0.035 mg/l)	▲ Chronic (0.035 mg/l)
▲ Acute (0.014 mg/l)	▲ Acute (0.014 mg/l)	▲ Acute (0.014 mg/l)	▲ Acute (0.014 mg/l)
△ None	△ None	△ None	△ None
▲ Non Detect	▲ Non Detect	▲ Non Detect	▲ Non Detect

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



Storm Drain	Outfalls	Navigation Channel	Ordinary High Water (+20.46 ft)
12ft. Contour	Bridges	River	Top of Bank

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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Selenium

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

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).

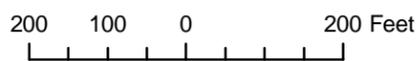
Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.

Chemistry:		Chemistry:	
Silver			
Exceedence Classification			
Surface Water (total)		Surface Water (dissolved)	
■	MCLx10 (1 mg/l)	●	MCLx10 (1 mg/l)
■	Acute (0.00019 mg/l)	●	Acute (0.00019 mg/l)
■	Chronic (0.0001 mg/l)	●	Chronic (0.0001 mg/l)
■	None	●	None
■	Non Detect	●	Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
●	MCLx10 (1 mg/l)	●	MCLx10 (1 mg/l)
●	Acute (0.00019 mg/l)	●	Acute (0.00019 mg/l)
●	Chronic (0.0001 mg/l)	●	Chronic (0.0001 mg/l)
●	None	●	None
●	Non Detect	●	Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲	MCLx10 (1 mg/l)	▲	MCLx10 (1 mg/l)
▲	Acute (0.00019 mg/l)	▲	Acute (0.00019 mg/l)
▲	Chronic (0.0001 mg/l)	▲	Chronic (0.0001 mg/l)
▲	None	▲	None
▲	Non Detect	▲	Non Detect

Notes:
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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Silver

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

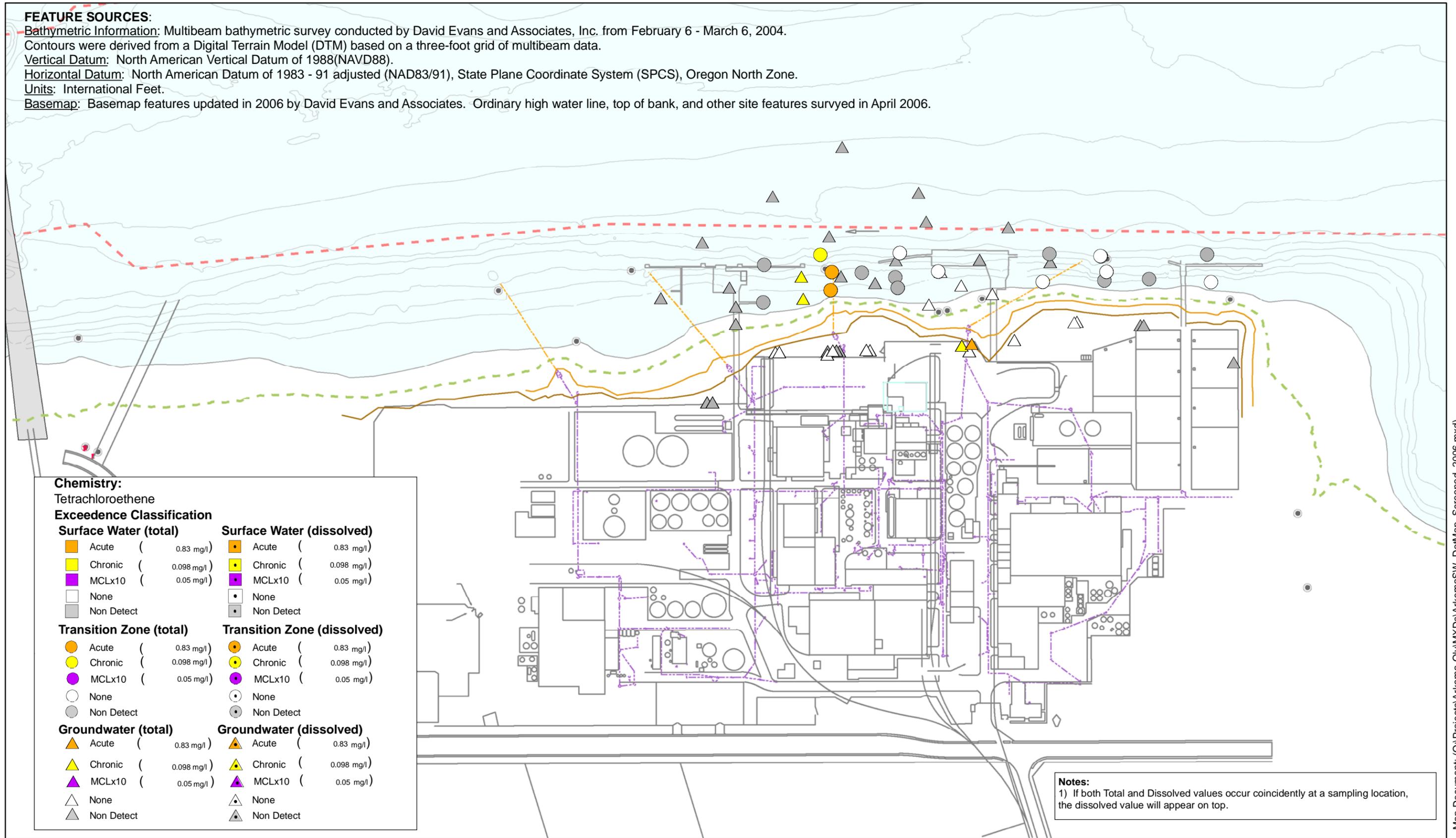
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

Vertical Datum: North American Vertical Datum of 1988 (NAVD88).

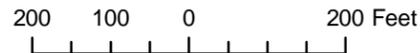
Horizontal Datum: North American Datum of 1983 - 91 adjusted (NAD83/91), State Plane Coordinate System (SPCS), Oregon North Zone.

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.



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

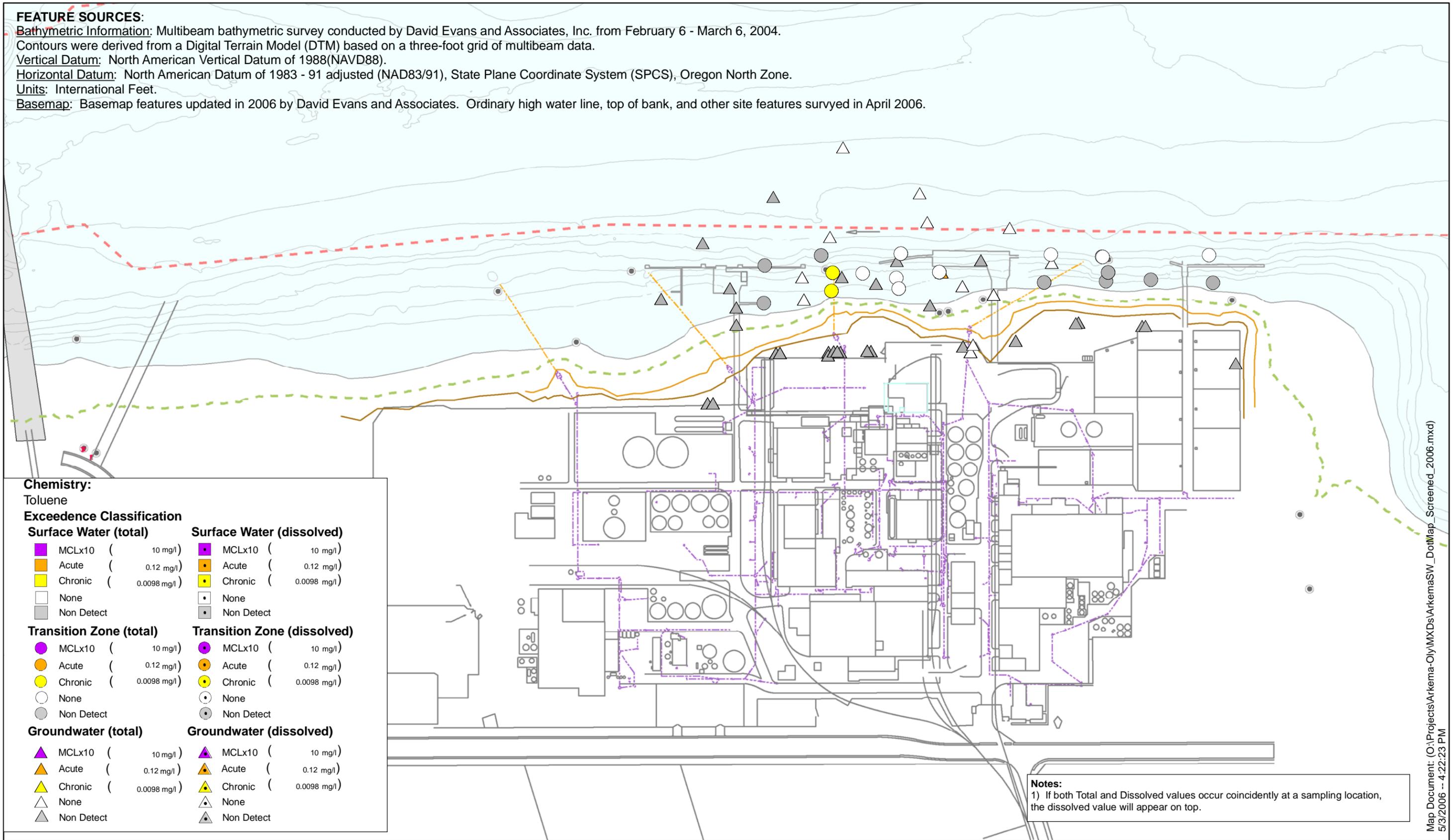


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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Tetrachloroethene

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.



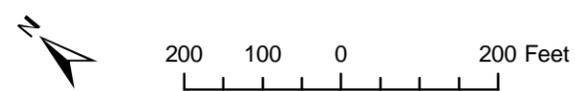
Chemistry:
Toluene

Surface Water (total)		Surface Water (dissolved)	
█	MCLx10 (10 mg/l)	█	MCLx10 (10 mg/l)
█	Acute (0.12 mg/l)	█	Acute (0.12 mg/l)
█	Chronic (0.0098 mg/l)	█	Chronic (0.0098 mg/l)
□	None	□	None
■	Non Detect	■	Non Detect

Transition Zone (total)		Transition Zone (dissolved)	
●	MCLx10 (10 mg/l)	●	MCLx10 (10 mg/l)
●	Acute (0.12 mg/l)	●	Acute (0.12 mg/l)
●	Chronic (0.0098 mg/l)	●	Chronic (0.0098 mg/l)
○	None	○	None
●	Non Detect	●	Non Detect

Groundwater (total)		Groundwater (dissolved)	
▲	MCLx10 (10 mg/l)	▲	MCLx10 (10 mg/l)
▲	Acute (0.12 mg/l)	▲	Acute (0.12 mg/l)
▲	Chronic (0.0098 mg/l)	▲	Chronic (0.0098 mg/l)
△	None	△	None
△	Non Detect	△	Non Detect

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



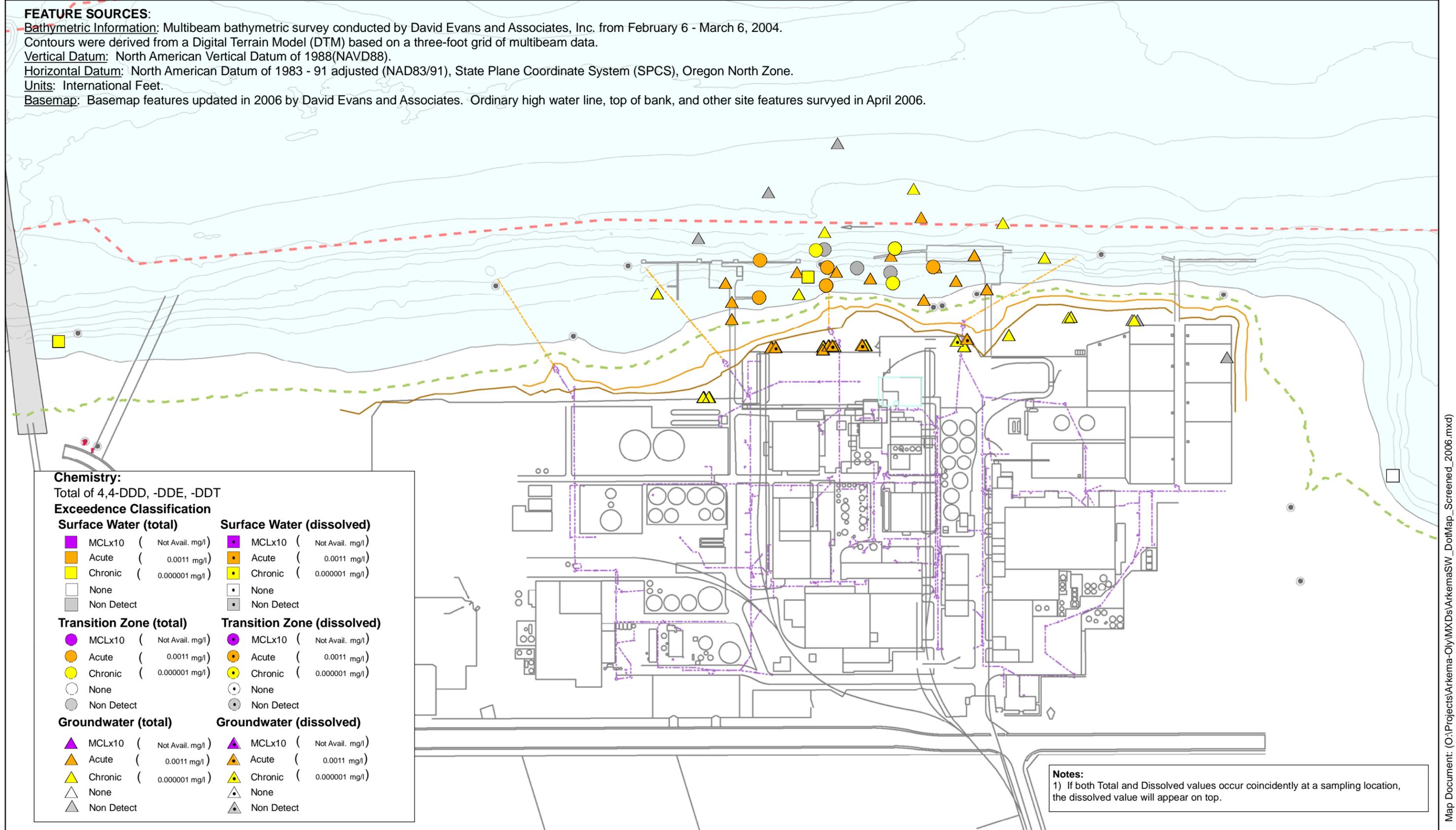
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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Toluene

Map Document: (O:\Projects\Arkema-Oly\MXD\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

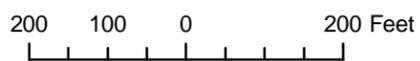
FEATURE SOURCES:

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.



Chemistry:		Chemistry:	
Total of 4,4-DDD, -DDE, -DDT			
Exceedance Classification			
Surface Water (total)		Surface Water (dissolved)	
■ MCLx10 (Not Avail. mg/l)	■ MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)
■ Acute (0.0011 mg/l)	■ Acute (0.0011 mg/l)	● Acute (0.0011 mg/l)	● Acute (0.0011 mg/l)
■ Chronic (0.000001 mg/l)	■ Chronic (0.000001 mg/l)	● Chronic (0.000001 mg/l)	● Chronic (0.000001 mg/l)
□ None	□ None	○ None	○ None
■ Non Detect	■ Non Detect	● Non Detect	● Non Detect
Transition Zone (total)		Transition Zone (dissolved)	
● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)	● MCLx10 (Not Avail. mg/l)
● Acute (0.0011 mg/l)	● Acute (0.0011 mg/l)	● Acute (0.0011 mg/l)	● Acute (0.0011 mg/l)
● Chronic (0.000001 mg/l)	● Chronic (0.000001 mg/l)	● Chronic (0.000001 mg/l)	● Chronic (0.000001 mg/l)
○ None	○ None	○ None	○ None
● Non Detect	● Non Detect	● Non Detect	● Non Detect
Groundwater (total)		Groundwater (dissolved)	
▲ MCLx10 (Not Avail. mg/l)	▲ MCLx10 (Not Avail. mg/l)	▲ MCLx10 (Not Avail. mg/l)	▲ MCLx10 (Not Avail. mg/l)
▲ Acute (0.0011 mg/l)	▲ Acute (0.0011 mg/l)	▲ Acute (0.0011 mg/l)	▲ Acute (0.0011 mg/l)
▲ Chronic (0.000001 mg/l)	▲ Chronic (0.000001 mg/l)	▲ Chronic (0.000001 mg/l)	▲ Chronic (0.000001 mg/l)
△ None	△ None	△ None	△ None
▲ Non Detect	▲ Non Detect	▲ Non Detect	▲ Non Detect

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



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Figure X-x
Arkema Site
Surface Water, Transition Zone Water,
and Groundwater Samples
Total of 4,4-DDD, -DDE, -DDT

Map Document: (O:\Projects\Arkema-Oly\MXDs\ArkemaSW_DotMap_Screened_2006.mxd) 5/3/2006 -- 4:22:23 PM

FEATURE SOURCES:

Bathymetric Information: Multibeam bathymetric survey conducted by David Evans and Associates, Inc. from February 6 - March 6, 2004.

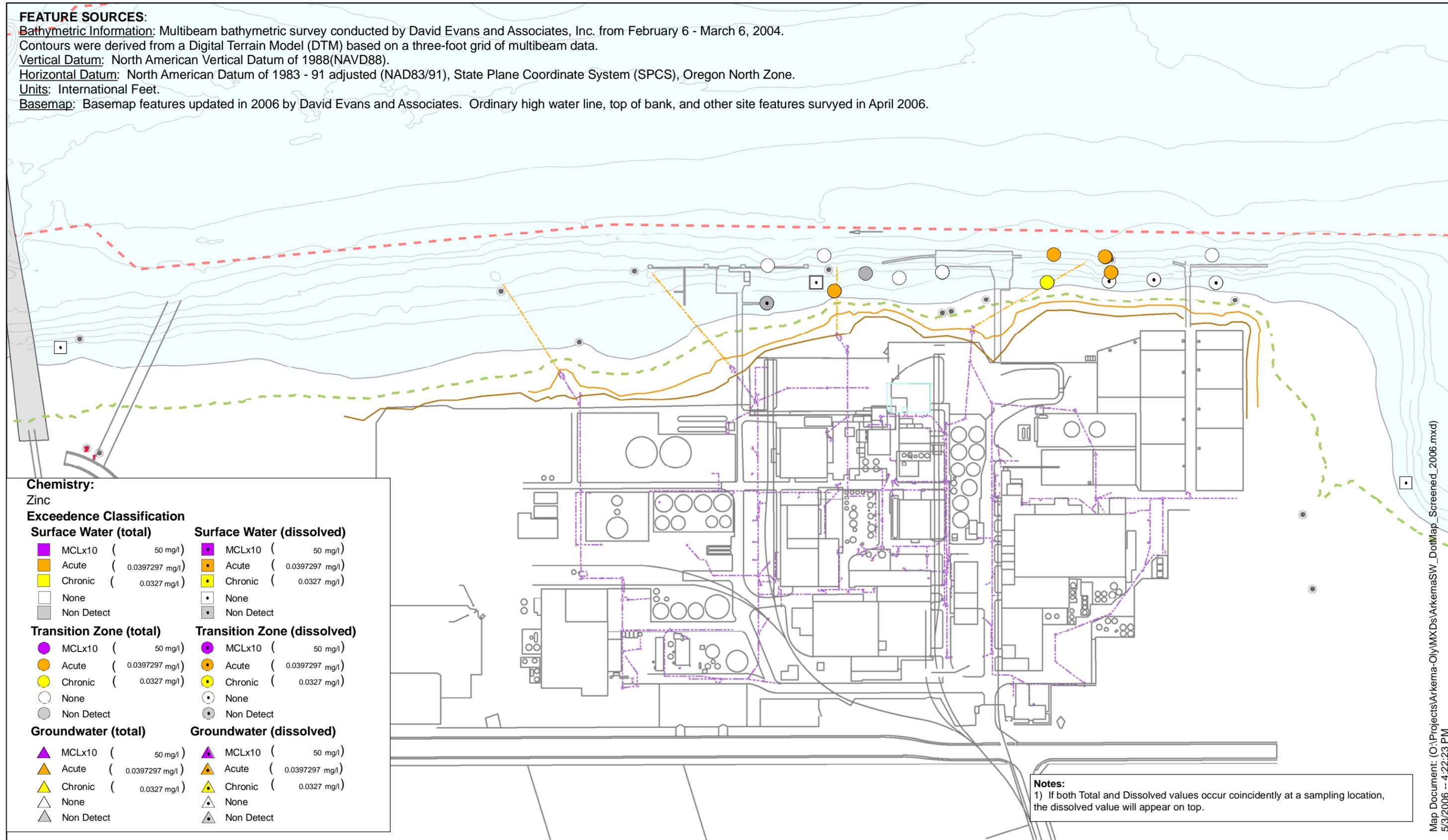
Contours were derived from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data.

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.



Chemistry:	
Zinc	
Exceedence Classification	
Surface Water (total)	
■	MCLx10 (50 mg/l)
■	Acute (0.0397297 mg/l)
■	Chronic (0.0327 mg/l)
■	None
■	Non Detect
Surface Water (dissolved)	
●	MCLx10 (50 mg/l)
●	Acute (0.0397297 mg/l)
●	Chronic (0.0327 mg/l)
●	None
●	Non Detect
Transition Zone (total)	
●	MCLx10 (50 mg/l)
●	Acute (0.0397297 mg/l)
●	Chronic (0.0327 mg/l)
●	None
●	Non Detect
Transition Zone (dissolved)	
●	MCLx10 (50 mg/l)
●	Acute (0.0397297 mg/l)
●	Chronic (0.0327 mg/l)
●	None
●	Non Detect
Groundwater (total)	
▲	MCLx10 (50 mg/l)
▲	Acute (0.0397297 mg/l)
▲	Chronic (0.0327 mg/l)
▲	None
▲	Non Detect
Groundwater (dissolved)	
▲	MCLx10 (50 mg/l)
▲	Acute (0.0397297 mg/l)
▲	Chronic (0.0327 mg/l)
▲	None
▲	Non Detect

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

