

Explanation

Monitoring Well Location



AR-05

Groundwater Analytical Results (ug/L)
bold denotes exceedence

AR-5 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

AR-11 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

MW-8 (ug/L)
Not Sampled

MW-7 (ug/L)
Not Sampled

AR-12 (ug/L)
Not Sampled

AR-1 (ug/L)
Not Sampled

AR-4 (ug/L)
B = 380
T = 1,900
E = 270
X = 4,400
TPH-G = 21,000
TPH-D = 5,300

AR-5 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

AR-7 (ug/L)
Not Sampled

MW-5 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

MW-1 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

AR-1 (ug/L)
Not Sampled

AR-3 (ug/L)
Not Sampled

AR-4 (ug/L)
Not Sampled

AR-8 (ug/L)
B = 2.0
T = 15
E = 98
X = 420
TPH-G = 3,300
TPH-D = 2,000

MW-4 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

AR-6 (ug/L)
B = ND
T = ND
E = ND
X = 2.4
TPH-G = ND
TPH-D = ND

AR-10 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

AR-9 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

MW-2 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

MW-6 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

MW-3 (ug/L)
B = ND
T = ND
E = ND
X = ND
TPH-G = ND
TPH-D = ND

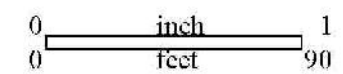
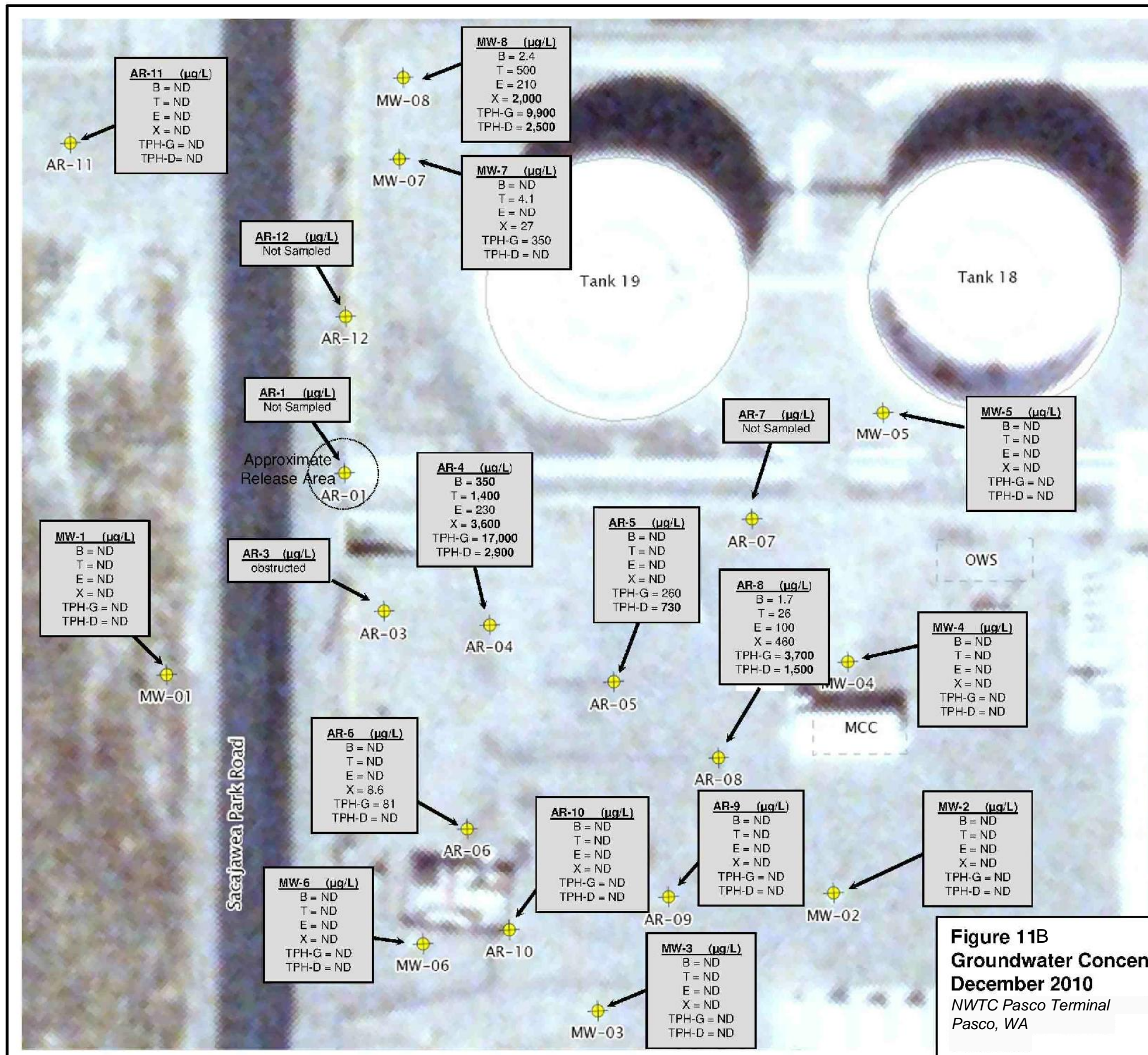


Figure 11A
Groundwater Concentrations in Tidewater Wells
June 2010
NWTC Pasco Terminal
Pasco, WA





Explanation

Monitoring Well Location



AR-05

µg/L – micrograms per liter
bold denotes MCL exceedence
 ND = Analyte not detected

B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Total xylenes
 TPH-G = Gasoline
 TPH-D = Diesel

AR-11 (µg/L)
 B = ND
 T = ND
 E = ND
 X = ND
 TPH-G = ND
 TPH-D = ND

MW-8 (µg/L)
 B = 2.4
 T = 500
 E = 210
 X = **2,000**
 TPH-G = **9,900**
 TPH-D = **2,500**

MW-7 (µg/L)
 B = ND
 T = 4.1
 E = ND
 X = 27
 TPH-G = 350
 TPH-D = ND

AR-12 (µg/L)
 Not Sampled

AR-1 (µg/L)
 Not Sampled

AR-7 (µg/L)
 Not Sampled

MW-5 (µg/L)
 B = ND
 T = ND
 E = ND
 X = ND
 TPH-G = ND
 TPH-D = ND

MW-1 (µg/L)
 B = ND
 T = ND
 E = ND
 X = ND
 TPH-G = ND
 TPH-D = ND

AR-3 (µg/L)
 obstructed

AR-4 (µg/L)
 B = 350
 T = 1,400
 E = 230
 X = 3,600
 TPH-G = 17,000
 TPH-D = 2,900

AR-5 (µg/L)
 B = ND
 T = ND
 E = ND
 X = ND
 TPH-G = 260
 TPH-D = 730

AR-8 (µg/L)
 B = 1.7
 T = 26
 E = 100
 X = 460
 TPH-G = 3,700
 TPH-D = 1,500

MW-4 (µg/L)
 B = ND
 T = ND
 E = ND
 X = ND
 TPH-G = ND
 TPH-D = ND

AR-6 (µg/L)
 B = ND
 T = ND
 E = ND
 X = 8.6
 TPH-G = 81
 TPH-D = ND

AR-10 (µg/L)
 B = ND
 T = ND
 E = ND
 X = ND
 TPH-G = ND
 TPH-D = ND

AR-9 (µg/L)
 B = ND
 T = ND
 E = ND
 X = ND
 TPH-G = ND
 TPH-D = ND

MW-2 (µg/L)
 B = ND
 T = ND
 E = ND
 X = ND
 TPH-G = ND
 TPH-D = ND

MW-6 (µg/L)
 B = ND
 T = ND
 E = ND
 X = ND
 TPH-G = ND
 TPH-D = ND

MW-3 (µg/L)
 B = ND
 T = ND
 E = ND
 X = ND
 TPH-G = ND
 TPH-D = ND

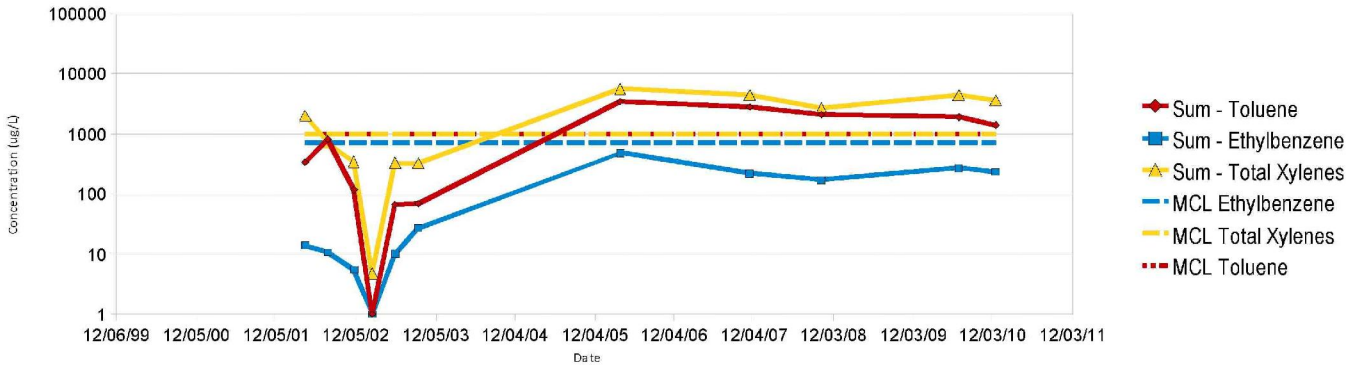
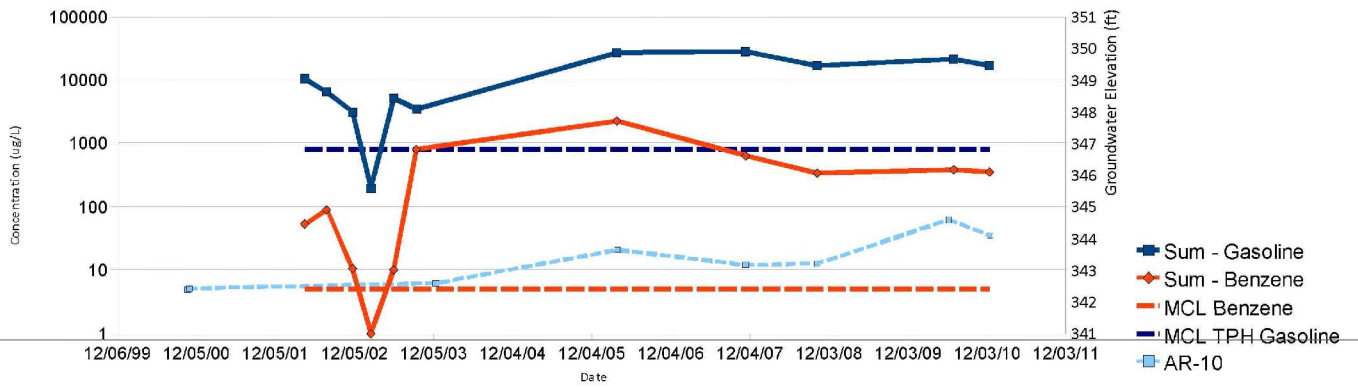


0 1
 0 90
 inch
 feet

Figure 11B
Groundwater Concentrations in Tidewater Wells
December 2010
 NWTC Pasco Terminal
 Pasco, WA



Time Series Plot Well AR-4



Time Series Plot Well AR-5

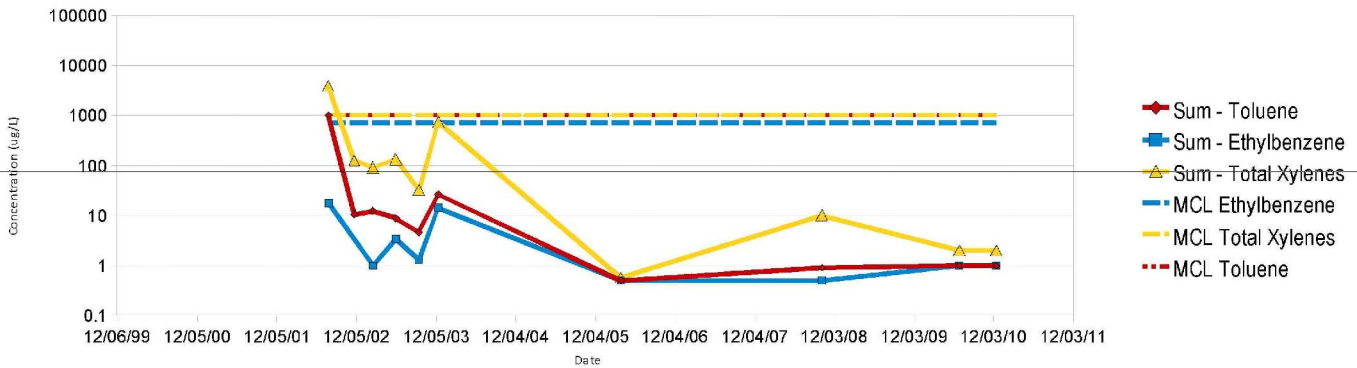
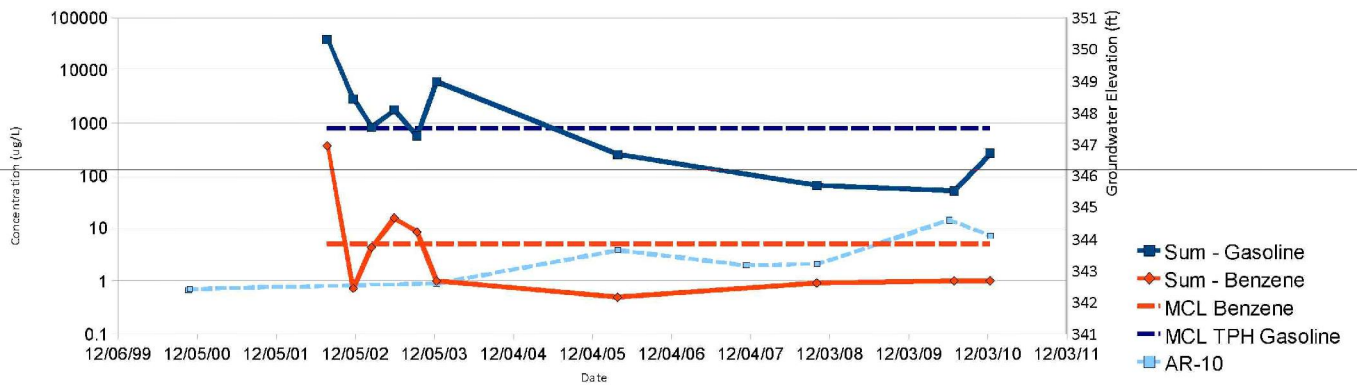

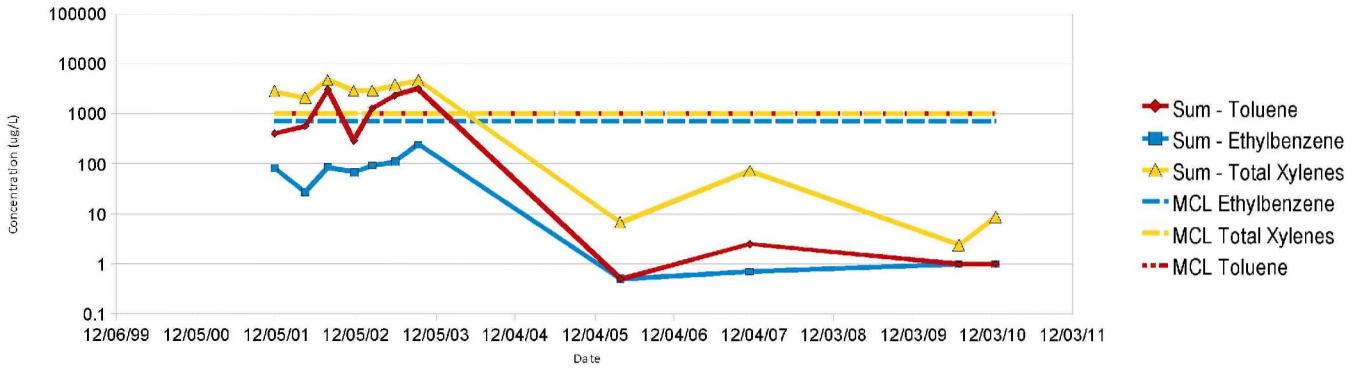
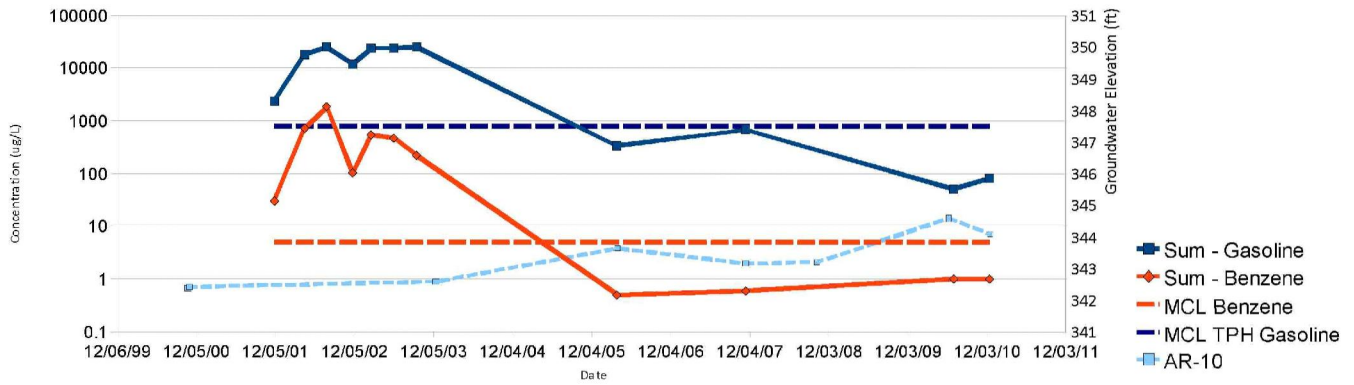


Figure 12
Time Series Plots: Tidewater Interior
Wells AR-4 and AR-5
NWTC Pasco Terminal
Pasco, WA



**Time Series Plot Well
AR-6**



**Time Series Plot Well
AR-8**

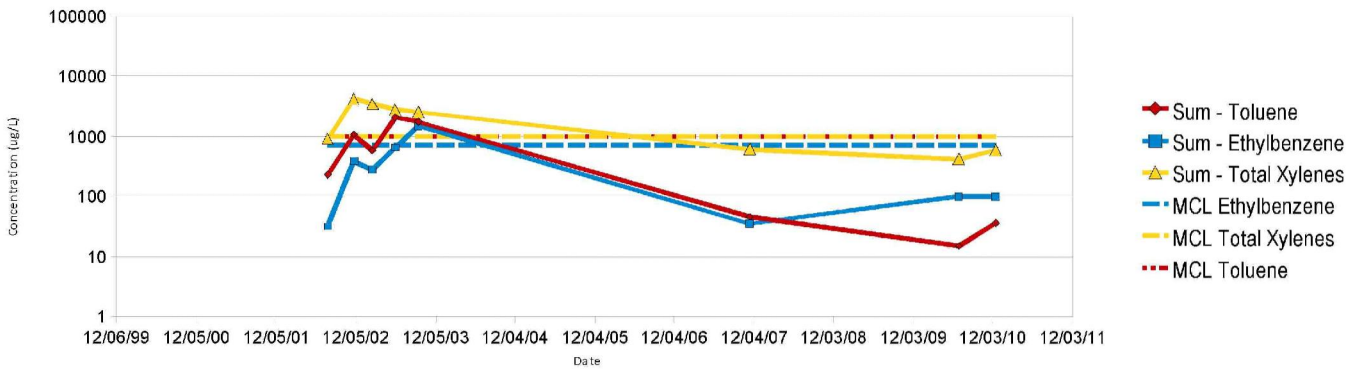
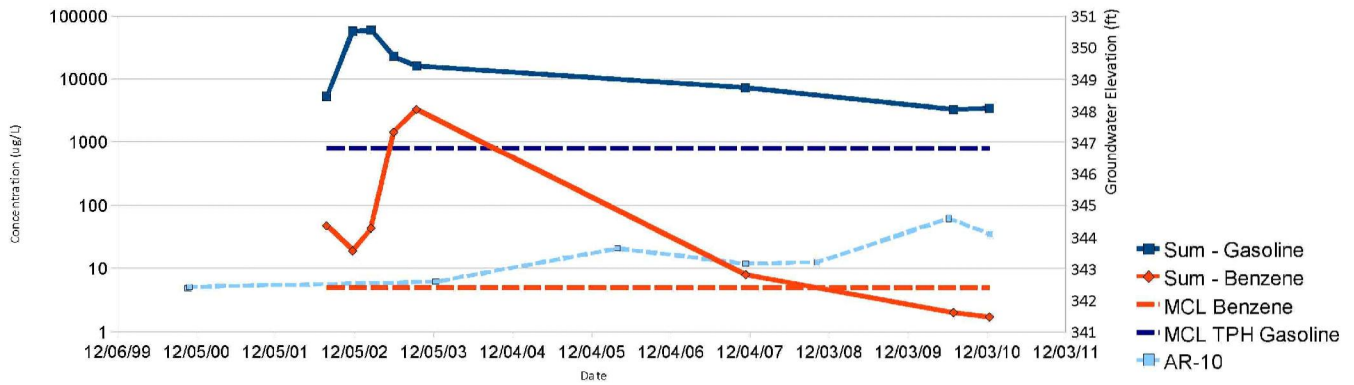


Figure 13
Time Series Plots: Tidewater Plume Edge
Wells AR-6 and AR-8
NWTC Pasco Terminal
Pasco, WA

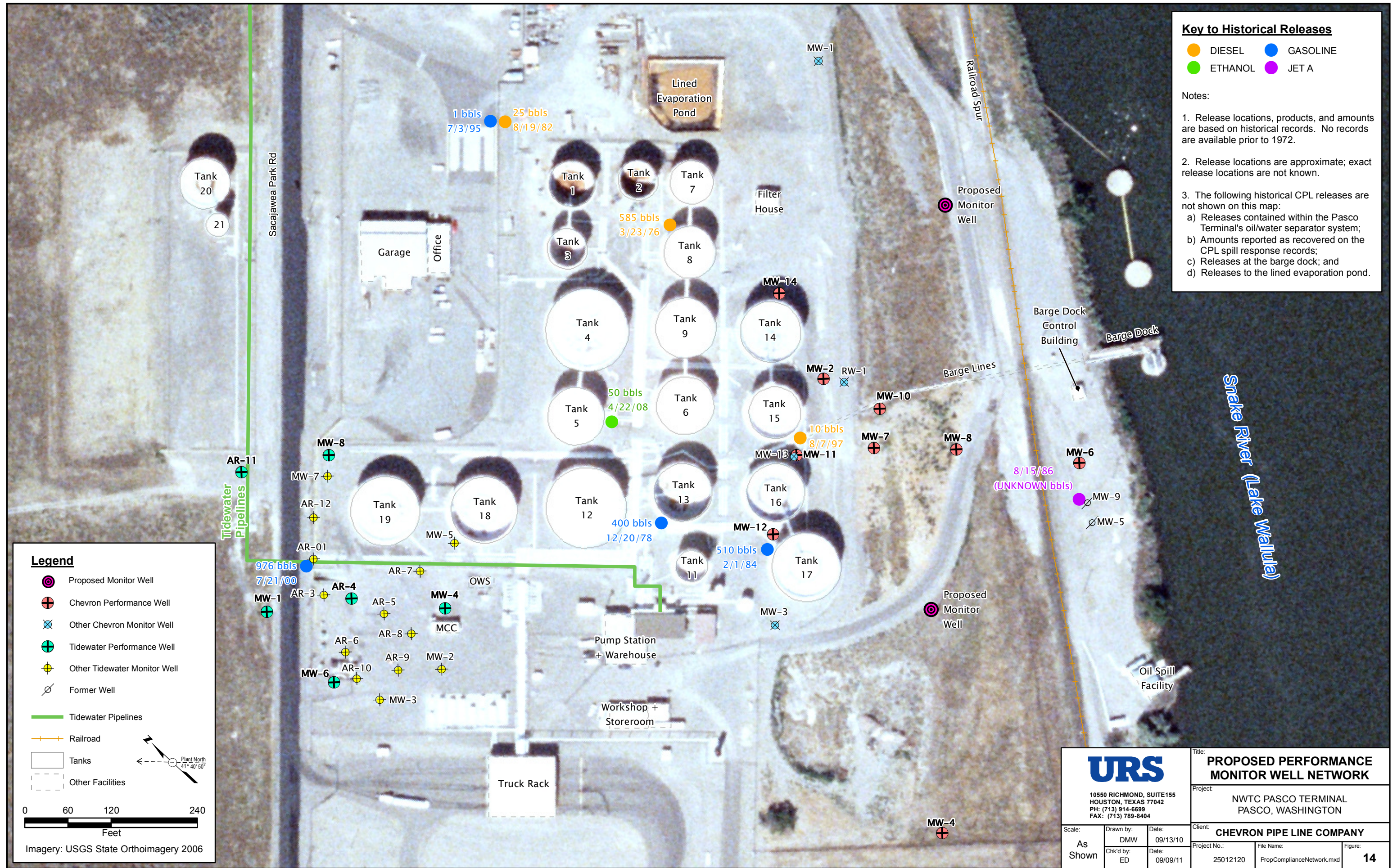


Key to Historical Releases

- DIESEL
- GASOLINE
- ETHANOL
- JET A

Notes:

1. Release locations, products, and amounts are based on historical records. No records are available prior to 1972.
2. Release locations are approximate; exact release locations are not known.
3. The following historical CPL releases are not shown on this map:
 - a) Releases contained within the Pasco Terminal's oil/water separator system;
 - b) Amounts reported as recovered on the CPL spill response records;
 - c) Releases at the barge dock; and
 - d) Releases to the lined evaporation pond.



Legend

- ⊕ Proposed Monitor Well
- ⊕ Chevron Performance Well
- ⊗ Other Chevron Monitor Well
- ⊕ Tidewater Performance Well
- ⊕ Other Tidewater Monitor Well
- ⊕ Former Well
- Tidewater Pipelines
- Railroad
- Tanks
- Other Facilities

Scale: 0 60 120 240 Feet

Imagery: USGS State Orthoimagery 2006

<p>10550 RICHMOND, SUITE 155 HOUSTON, TEXAS 77042 PH: (713) 914-6699 FAX: (713) 789-8404</p>		<p>PROPOSED PERFORMANCE MONITOR WELL NETWORK</p>	
		<p>NWTC PASCO TERMINAL PASCO, WASHINGTON</p>	
Scale:	Drawn by:	Date:	Client:
As Shown	DMW	09/13/10	CHEVRON PIPE LINE COMPANY
	Chk'd by:	Date:	Project No.:
	ED	09/09/11	25012120
			File Name:
			PropComplianceNetwork.mxd
			Figure:
			14