Sample Location	Start Depth	End Depth	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium (total)	Cobalt	Copper	CYANIDE	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
			Analyte:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium (total)	Cobalt	Copper	CYANIDE	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
			IndPRG	1.00E+05	4.09E+02	1.59E+00	6.66E+04	1.90E+03	4.51E+02	NE	NE	1.92E+03	4.09E+04	1.23E+04	1.00E+05	8.00E+02	NE	1.95E+04	NE	2.04E+04	NE	5.11E+03	5.11E+03	NE	6.75E+01	1.02E+03	1.00E+05
			ResPRG	7.60E+04	3.13E+01	3.90E-01	5.37E+03	1.50E+02	3.70E+01	NE	3.01E+01	9.03E+02	3.13E+03	1.23E+03	2.35E+04	4.00E+02	NE	1.76E+03	NE	1.56E+03	NE	3.91E+02	3.91E+02	NE	5.16E+00	7.80E+01	2.35E+04
			DAF10	NE	3.00E+00	1.00E+01	8.20E+02	3.00E+01	4.00E+00	NE	2.00E+01	NE	NE	NE	NE	NE	NE	NE	NE	7.00E+01	NE	3.00E+00	2.00E+01	NE	NE	3.00E+03	6.20E+03
			ESL	NE	2.70E-01	1.80E+01	3.30E+02	2.10E+01	3.60E-01	NE	2.60E+01	1.30E+01	2.80E+01	1.33E+00	NE	1.10E+01	NE	5.00E+02	3.00E-01	2.80E+01	NE	1.00E+00	4.20E+00	NE	1.00E+00	7.80E+00	5.00E+01
AOC18SB1	0	1	01/17/2006	--	--	**6.4**	--	--	*1.7*	--	24.3	--	*34.1*	*6.70*	**47700**	*93.5*	--	***3600***	--	--	--	*5.4*	--	--	--	*15.7*	*386*
AOC18SB2	0	1	01/17/2006	--	--	**3.0**	*399*	--	*0.88*	--	***34.1***	--	--	*1.58*	--	--	--	***6070***	--	--	--	*7.7*	--	--	--	*12.2*	--
AOC18SB3	0	0.5	01/17/2006	--	--	--	*343*	--	--	--	***50.6***	--	--	*3.14*	--	--	--	***7570***	--	--	--	*6.4*	--	--	--	*17.1*	--
AOC18SB4	0	1	01/17/2006	--	--	**3.5**	--	--	*1.1*	--	***34.5***	--	--	--	**31500**	--	--	***5830***	--	--	--	*6.6*	--	--	--	*36.0*	--
AOC18SB5	0	1	01/25/2006	--	--	**4.0**	--	--	*0.82*	--	***51.0***	--	--	--	--	--	--	***5310***	--	--	--	*5.6*	--	--	--	*22.5*	--
AOC18SB6	0	1	01/25/2006	--	--	**6.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*12.7*	--
AOC1A1	0	2	01/03/2006	--	--	**5.7 J**	--	--	*3.0*	--	***59.4 J***	--	*35.7 J*	*4.56*	**103000 J**	*144 J*	--	***3360***	--	--	--	--	*4.6*	--	--	*42.2*	*670 J*
AOC1CA10	0	2	01/12/2006	--	--	**12.9 J**	--	--	*2.0*	--	***65.9***	--	*39.7*	*6.46*	**188000**	*316*	--	***4250 J***	--	*29.6*	--	--	--	--	--	*59.9*	*1630 J*
AOC1CA11	0	2	01/25/2006	--	--	**18.0 J**	--	--	*5.1*	--	***50.6***	--	*66.1*	*2.31*	**101000**	*101*	--	***3260***	--	*33.3*	--	--	--	--	--	*28.7*	*525*
AOC1CA12	0	2	01/11/2006	--	--	**14 J**	--	--	*0.61*	--	***66.7***	--	--	--	**129000 J**	*233*	--	***4730 J***	--	--	*6.3*	--	--	--	--	*45.1*	*942 J*
AOC1CA13	0	2	01/11/2006	--	--	**6.6 J**	--	--	--	--	--	--	--	*1.97*	**27300 J**	*27.4*	--	*960 J*	--	--	--	*3.1*	--	--	--	*23.8*	*73.5 J*
AOC1CA2	0	2	01/05/2006	--	--	--	--	--	*1.9*	--	*29.7 J*	--	--	*1.97*	**70900 J**	*72.1 J*	--	***3380***	--	--	--	--	--	--	--	*28.9*	*481 J*
AOC1CA3	0	2	12/21/2005	--	--	**7.4**	--	--	*2.7*	--	*29.9*	--	--	*3.86*	**57100**	*33.1*	--	***3740***	--	--	--	***4.7***	--	--	--	*21.0*	*124*
AOC1CA4	0	2	01/06/2006	--	--	**8.1 J**	--	--	*1.6*	--	***41.5 J***	--	*51.9 J*	*1.76*	**57000 J**	*57.0 J*	--	***2110***	--	*36.3*	--	--	--	--	--	*27.6*	*222 J*
AOC1CA5	0	2	01/16/2006	--	--	**13.4**	--	--	*1.2*	--	***30.2***	--	--	--	**88400**	*108*	--	***2740***	--	--	--	*6.2*	--	--	--	*35.5*	*514*
AOC1CA6	0	2	01/16/2006	--	--	**11.9**	--	--	*0.84*	--	***48.0***	--	--	*2.30*	**142000**	*119*	--	***2980***	--	--	--	*3.4*	--	--	--	*36.8*	*748*
AOC1CA7	0	2	01/10/2006	--	--	**5.4 J**	--	--	--	--	--	--	--	--	**30200 J**	*43.0*	--	***1870 J***	--	--	--	*4.1*	--	--	--	*17.4*	--
AOC1CA8	0	2	01/06/2006	--	--	--	--	--	*5.1*	--	***86.6 J***	--	*93.7 J*	*1.38*	**190000 J**	*47.5 J*	--	***3250***	--	*38.7*	--	--	*4.7*	--	--	*38.1*	*294 J*
AOC1CA9	0	2	01/09/2006	--	--	**9.6 J**	--	--	*6.1*	--	***32.2***	--	*35.6*	*10.8*	**67900 J**	***3430***	--	*1620 J*	--	--	--	*6.9*	--	--	--	*29.8*	*4610 J*
AOC21SB1	0	1.6	01/12/2006	--	*0.557 J-*	***18.4 J***	--	--	--	--	***31.8 J***	*13.5*	*33.4*	--	**40600**	*26*	--	*1020*	--	*36.5*	--	*1.49*	--	--	*1.14*	*63.1*	*117 J*
AOC21SB10	0	0.9	12/21/2005	--	--	**4.9**	--	--	*0.59*	--	--	--	--	--	--	--	--	*1330 J*	--	--	--	*3.2*	--	--	--	*19.0 J*	--
AOC21SB11	0	1.3	12/20/2005	--	--	**8.9**	--	--	*0.85*	--	--	--	--	--	--	*21.4*	--	*1730 J*	--	--	--	*2.8*	--	--	--	*32.0 J*	*60.3 J*
AOC21SB12	0	0.9	12/20/2005	--	--	**11.0**	--	--	*0.87*	--	--	--	--	*18.5*	--	*18.5*	--	*1090 J*	--	--	--	*2.5*	--	--	--	--	*58.8 J*
AOC21SB13	0	1.2	12/21/2005	--	--	**9.2**	--	--	*0.66*	--	--	--	--	--	--	--	--	*769 J*	--	--	--	*2.9*	--	--	--	*28.1 J*	--
AOC21SB2	0	1.6	01/10/2006	--	*0.322 J-*	***11.8 J***	--	--	--	--	--	--	--	--	**26500**	*14.1*	--	--	--	--	--	--	--	--	--	*40.3*	*79.5 J*
AOC21SB3	0	2	01/10/2006	--	--	**6.19 J**	--	--	--	--	--	--	--	--	--	*13.4*	--	*976*	--	--	--	--	--	--	--	*31.8*	*50.5 J*
AOC21SB4	0	1.4	01/10/2006	--	--	**6.82 J**	--	--	--	--	--	--	--	--	--	*11.8*	--	*1030*	--	--	--	--	--	--	--	*27.9*	*51.5 J*
AOC21SB5	0	1.4	01/11/2006	--	--	**7.58 J**	--	--	--	--	--	--	--	--	--	*11.6*	--	*946*	--	--	--	*1.1*	--	--	--	*32.7*	--
AOC21SB6	0	2	01/10/2006	--	--	**12.6 J**	--	--	--	--	*21.8 J*	--	--	--	**37100**	*13.7*	--	*648*	--	--	--	--	--	--	--	*50.6*	*62.9 J*
AOC21SB7	0	2	01/10/2006	--	--	**7.12 J**	--	--	--	--	--	--	--	--	--	*13.6*	--	*1490*	--	--	--	--	--	--	--	*32.6*	*55.1*
AOC21SB8	0	1.6	01/11/2006	--	--	**10.8 J**	--	--	--	--	*23.2 J*	*13.4*	--	--	**28600**	*16.5*	--	*755*	--	--	--	--	--	--	--	*46.6*	*64.7 J*
AOC21SB9	0	1.6	01/11/2006	--	*0.503 J-*	**9.25 J**	--	--	--	--	*21.2 J*	*13.3*	--	--	**27700**	*18.6*	--	*700*	--	--	--	*1.2*	--	--	*1.06*	*44.5*	--
AOC2SB1	0	1.2	01/05/2006	--	--	**4.55**	--	--	*1.72*	--	--	--	--	*2.86*	--	*147 J*	--	*707 J+*	--	--	--	--	--	--	--	*13.3 J-*	*714*
AOC2SB10	0	2	01/04/2006	--	--	**4.97**	--	--	--	--	--	--	--	--	--	*123 J*	--	*1230 J+*	--	--	--	--	--	--	--	*27.6*	*55.5*
AOC2SB2	0	2	01/05/2006	--	*0.685 J-*	***23.7***	--	--	*5.64*	--	***33.2***	--	*49.1*	*9.5*	**213000**	*336 J*	--	***2920 J+***	--	--	--	--	--	--	*2.47*	*29.5*	*1390*
AOC2SB3	0	2	01/03/2006	--	--	**0.515**	--	--	--	--	--	--	--	--	--	--	--	***2270 J+***	--	--	--	*5.04 J+*	--	--	--	*12.6*	--
AOC2SB4	0	1.1	01/03/2006	--	--	**9.69**	--	--	--	--	--	--	--	--	--	*19.3 J*	--	*1390 J+*	--	--	--	*1.19 J+*	--	--	--	*34.9*	*86*
AOC2SB5	0	1.1	01/03/2006	--	*3.61 J-*	--	--	--	--	--	--	--	--	--	--	--	--	***3430 J+***	--	--	--	*4.12 J+*	--	--	--	*10.7 J-*	--
AOC2SB6	0	0.7	01/04/2006	--	*0.461 J-*	**2.64**	--	--	--	--	--	--	--	*1.7*	--	--	--	***2360 J+***	--	--	--	*2.66 J+*	--	--	--	*19.4*	--
AOC2SB7	0	1.4	01/04/2006	--	--	**10.2**	--	--	*0.806*	--	--	--	--	--	--	*13.5 J*	--	*627 J+*	--	--	--	--	--	--	--	*37*	*65.3*
AOC2SB8	0	0.9	01/04/2006	--	*0.333 J-*	**16.6**	--	--	--	--	--	--	--	--	**56400**	*14.2 J*	--	*1360 J+*	--	--	--	--	--	--	--	*46.3*	*65.8*
AOC2SB9	0	0.6	01/04/2006	--	--	**6.12**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*15.8*	--
BACA1	0	2	11/16/2005	--	--	**3.8**	--	--	*2.7*	--	***43.9***	--	--	*2.16*	**50000**	*29.3*	--	***5180***	--	--	--	*8.5*	--	--	--	*28.7*	--
BACA10	0	2	12/14/2005	--	--	**9.4**	--	--	*1.8*	--	***38.7***	*39.8*	--	--	**87200**	--	--	***2880 J***	--	--	--	--	--	--	--	*39.6*	*67.6*
BACA11	0	2	12/13/2005	--	--	**6.2**	--	--	--	--	--	--	--	--	--	*12.8*	--	***1910 J***	--	--	--	*2.8*	--	--	--	*21.8*	--
BACA12	0	2	12/19/2005	--	--	--	--	--	*5.1*	--	***31.4***	--	*45.3*	--	**101000**	*34.3 J*	--	***3830 J***	--	--	--	--	--	--	--	*14.8*	--
BACA13	0	2	12/21/2005	--	--	**1.6**	--	--	*11.3*	--	--	*32.0*	--	--	**218000**	*11.4 J*	--	***10900 J***	--	--	--	--	--	--	--	*37.1*	--
BACA2	0	2	11/17/2005	--	--	**2.7**	--	--	*2.8*	--	***64.8***	--	--	*2.78*	**56100**	*28.4*	--	***7030***	--	--	--	*9.0*	--	--	--	*26.8*	--
BACA3	0	2	11/29/2005	--	--	--	--	--	*0.70*	--	***30.1***	--	--	*2.23*	--	--	--	***3310***	--	--	--	*7.1*	--	--	--	*17.1*	--
BACA4	0	2	11/29/2005	--	--	**2.4**	--	--	*0.63*	--	*25.6*	--	--	--	--	--	--	***5400***	--	--	--	*10.2*	--	--	--	*27.7*	--
BACA5	0	2	11/30/2005	--	--	**4.9**	--	--	*3.2*	--	***170***	--	*35.6*	*1.43*	**80800**	--	--	***5110***	--	--	--	*10.6*	--	--	--	***85.2***	--
BACA6	0	2	12/02/2005	--	--	**1.7**	*338*	--	--	--	--	--	--	*1.89*	--	--	--	***4730***	--	--	--	*8.8*	--	--	--	*16.1*	--
BACA7	0	2	12/08/2005	--	--	--	*362 J*	--	--	--	*25.3*	--	--	*2.36*	--	*18.5*	--	***5270 J***	--	--	--	*8.7*	--	--	--	*21.7*	--
BACA8	0	2	12/09/2005	--	--	**9.1**	--	--	*1.8*	--	***51.1***	--	*28.4*	--	**83200**	*36.8*	--	***2180 J***	--	--	--	--	--	--	--	*40.0*	*140*
BACA9	0	2	12/06/2005	--	--	**1.2**	*389 J*	--	--	--	*23.2*	--	--	*1.47*	--	*15.2*	--	***4400 J***	--	--	--	*7.3*	--	--	--	*16.0*	--
MW-11S	0	2	11/30/2005	--	--	--	--	--	*1.3*	--	--	--	--	--	**42000 J**	--	--	***4400 J***	--	--	--	*3.2*	--	--	--	*21.4*	--
MW-12S	0	2	11/30/2005	--	--	**5.7 J-**	--	--	*0.61*	--	--	--	--	--	--	*19.6 J*	--	*717 J*	--	--	--	--	--	--	--	--	*51.4 J+*
MW-13S	0	2	12/05/2005	--	--	--	*374*	--	--	--	--	--	--	*2.03*	--	*11.7 J+*	--	***5240 J***	--	--	--	*6.1*	--	--	--	*15.0*	--
MW-14S	0	2	12/08/2005	--	--	**8.5 J**	--	--	--	--	--	--	--	--	--	*17.0*	--	*1080 J*	--	--	--	--	--	--	--	*27.0*	--
MW-15S	0	2	12/07/2005	--	--	**6.8 J**	--	--	--	--	--	--	--	--	--	*11.4*	--	*724 J*	--	--	--	--	--	--	--	*25.7*	--
MW-16S	0	2	12/05/2005	--	--	**11.3 J-**	--	--	*10.1*	--	***51.4 J***	*14.5*	*44.0 J*	*1.65*	**186000 J**	*194 J*	--	***5230 J***	--	--	--	--	--	--	--	*47.9*	*1020 J+*
MW-17S	0	2	12/07/2005	--	--	**8.8 J**	--	--	*0.79*	--	*30.7*	--	--	--	--	*22.7*	--	*1360 J*	--	--	--	--	--	--	--	*22.3*	*58.1 J*
MW-18S	0	2	12/06/2005	--	--	**3.0 J-**	*351*	--	*0.64*	--	*28.9 J*	--	--	*4.02*	--	*23.2 J+*	--	***6700 J***	--	--	--	*9.0*	--	--	--	*19.5*	--
AOC1CA6SB5	0	2	06/12/2008	--	--	**5.55**	--	--	--	--	--	--	--	--	--	--	--	***582***	--	*11.7*	--	--	--	--	--	*19.8*	--

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ - The result is an estimated quantity, but the result may be biased high.
J- - The result is an estimated quantity, but the result may be biased low.
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecotxicoal Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in mg/kg
All depths given in feet below ground surface
Additional analytical results available on Northern Parcel summary tables: Table 4.1-3, Table 4.2-3, Table 4.15-3, Table 4.18-3, and Table 4.19-3.

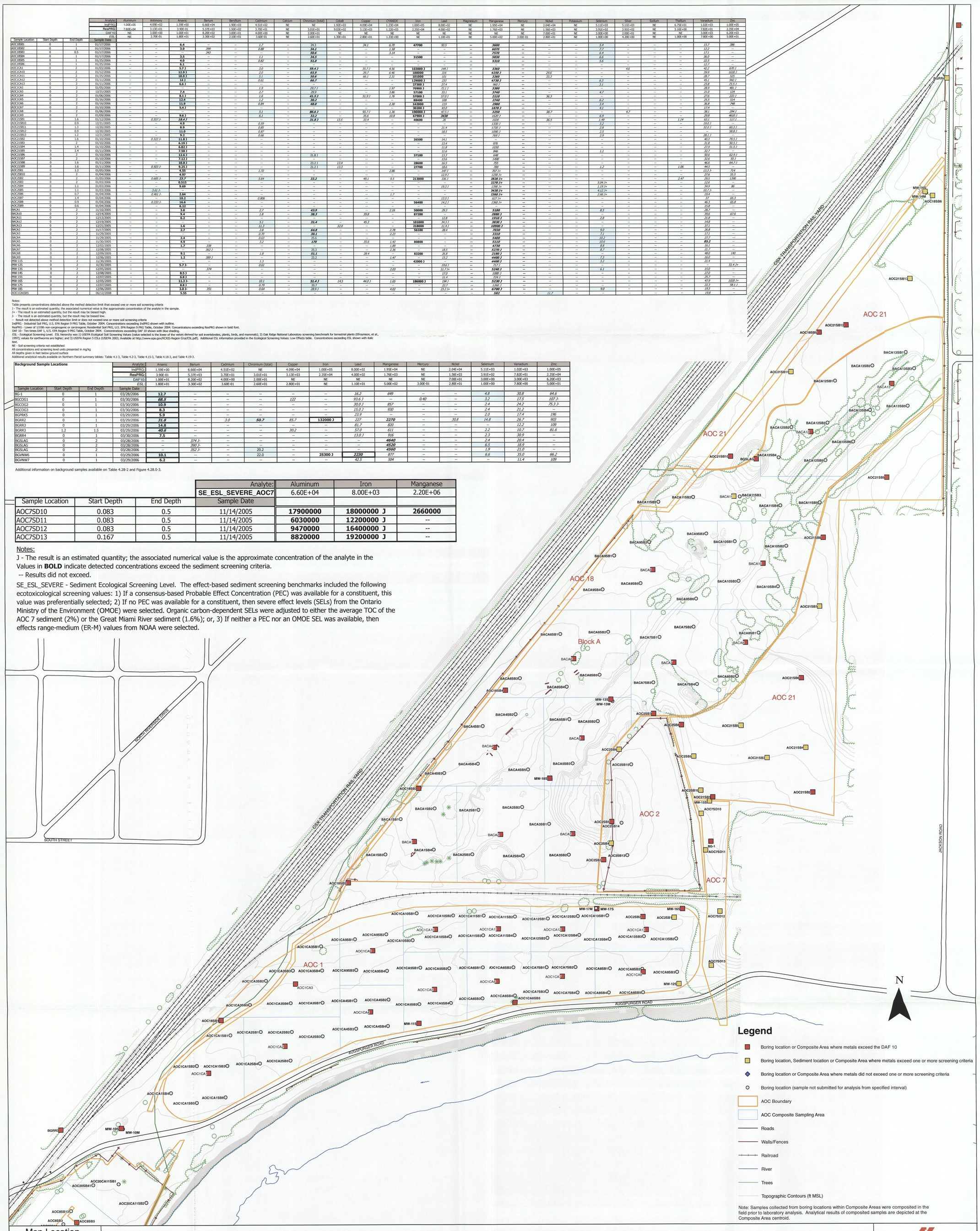
Background Sample Locations

Sample Location	Start Depth	End Depth	Sample Date	Arsenic	Barium	Cadmium	Chromium (total)	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium	Zinc
			Analyte:	Arsenic	Barium	Cadmium	Chromium (total)	Copper	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Vanadium	Zinc
			IndPRG	1.59E+00	6.66E+04	4.51E+02	NE	4.09E+04	1.00E+05	8.00E+02	1.95E+04	NE	2.04E+04	5.11E+03	1.02E+03	1.00E+05
			ResPRG	3.90E-01	5.37E+03	3.70E+01	3.01E+01	3.13E+03	2.35E+04	4.00E+02	1.76E+03	NE	1.56E+03	3.91E+02	7.80E+01	2.35E+04
			DAF10	1.00E+01	8.20E+02	4.00E+00	2.00E+01	NE	NE	NE	NE	NE	7.00E+01	3.00E+00	3.00E+03	6.20E+03
			ESL	1.80E+01	3.30E+02	3.60E-01	2.60E+01	2.80E+01	NE	1.10E+01	5.00E+02	3.00E-01	2.80E+01	1.00E+00	7.80E+00	5.00E+01
BG-1	0	1	03/28/2006	**12.7**	--	--	--	--	--	*16.2*	*649*	--	--	*4.8*	*30.8*	*64.6*
BGCOG1	0	1	03/30/2006	***68.5***	--	--	--	*122*	--	*93.6 J*	--	*0.40*	--	*3.2*	*17.5*	*107 J-*
BGCOG2	0	1	03/30/2006	**10.9**	--	--	--	--	--	*30.0 J*	*857*	--	--	*2.4*	*24.2*	*75.3 J-*
BGCOG3	0	1	03/30/2006	**8.3**	--	--	--	--	--	*15.0 J*	*930*	--	--	*2.4*	*21.2*	--
BGPRK5	0	1	03/29/2006	**5.9**	--	--	--	--	--	*23.9*	--	--	--	*2.0*	*17.4*	*196*
BGRR2	0	1	03/29/2006	***31.8***	--	*3.0*	***50.7***	*85.7*	**132000 J**	*2.27*	***2270***	--	*30.8*	*14.8*	*26.7*	*903*
BGRR3	0	1	03/29/2006	**14.8**	--	--	--	--	--	*81.7*	*820*	--	--	--	*12.2*	*109*
BGRR3	1.2	1.5	03/29/2006	***40.6***	--	--	--	*30.2*	--	*57.0*	*611*	--	--	*2.2*	*10.7*	*81.6*
BGRR4	0	1	03/30/2006	**7.5**	--	--	--	--	--	*13.0 J*	*916*	--	--	*2.3*	*30.9*	--
BGSLAG	0	2	03/28/2006	--	*374 J-*	--	--	--	--	--	***4640***	--	--	*2.4*	*20.4*	--
BGSLAG	0	2	03/28/2006	--	*390 J-*	--	--	--	--	--	***4520***	--	--	*6.5*	*18.9*	--
BGSLAG	0	2	03/28/2006	--	*352 J-*	--	20.2	--	--	--	***4560***	--	--	*1.9*	*21.0*	--
BGVNW6	0	1	03/29/2006	**10.1**	--	--	22.0	--	**25300 J**	***2230***	*877*	--	--	*6.6*	*35.0*	*66.2*
BGVNW7	0	1	03/29/2006	**6.2**	--	--	--	--	--	*42.5*	*504*	--	--	--	*11.4*	*109*

Additional information on background samples available on Table 4.28-2 and Figure 4.28.0-3.

Sample Location	Start Depth	End Depth	Sample Date	Aluminum	Iron	Manganese
			Analyte:	Aluminum	Iron	Manganese
			SE_ESL_SEVERE_AOC7	6.60E+04	8.00E+03	2.20E+06
AOC7SD10	0.083	0.5	11/14/2005	**17900000**	**18000000 J**	**2660000**
AOC7SD11	0.083	0.5	11/14/2005	**6030000**	**12200000 J**	--
AOC7SD12	0.083	0.5	11/14/2005	**9470000**	**16400000 J**	--
AOC7SD13	0.167	0.5	11/14/2005	**8820000**	**19200000 J**	--

Notes:
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the
Values in **BOLD** indicate detected concentrations exceed the sediment screening criteria.
-- Results did not exceed.
SE_ESL_SEVERE - Sediment Ecological Screening Level. The effect-based sediment screening benchmarks included the following ecotoxicological screening values: 1) If a consensus-based Probable Effect Concentration (PEC) was available for a constituent, this value was preferentially selected; 2) If no PEC was available for a constituent, then severe effect levels (SELs) from the Ontario Ministry of the Environment (OMOE) were selected. Organic carbon-dependent SELs were adjusted to either the average TOC of the AOC 7 sediment (2%) or the Great Miami River sediment (1.6%); or, 3) If neither a PEC nor an OMOE SEL was available, then effects range-medium (ER-M) values from NOAA were selected.



Map Location

Soil Metals Sample Locations and Screening Level Exceedances 0 - 2 ft bgs - Northern Parcel

AK Steel

Kemron Environmental Services

Figure 4.0.2-7

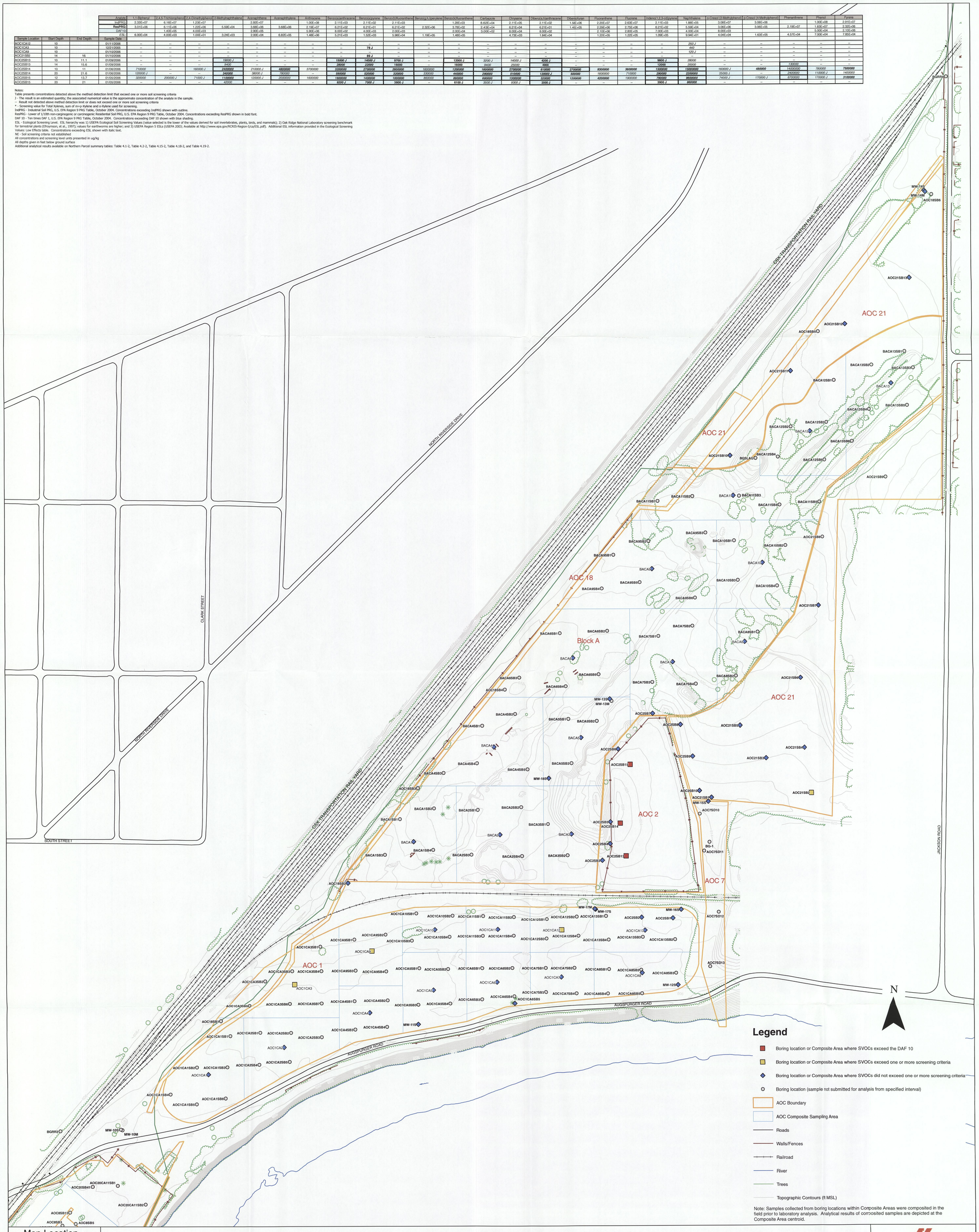
Scale: 1 inch equals 150 feet

0 150 300 600 Feet

Project # MR0507
September 2008

Sample Location	Start Depth	End Depth	Sample Date	1,1-Biphenyl	2,4,5-Trichlorophenol	2,4-Dimethylphenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Carbazole	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	o-Cresol (2-Methylphenol)	p-Cresol (4-Methylphenol)	Phenanthrene	Phenol	Pyrene
			Analyte	1,1-Biphenyl	2,4,5-Trichlorophenol	2,4-Dimethylphenol	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Carbazole	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	o-Cresol (2-Methylphenol)	p-Cresol (4-Methylphenol)	Phenanthrene	Phenol	Pyrene
			IndPRG	2.33E+07	6.16E+07	1.23E+07		2.92E+07		1.00E+08	2.11E+03	2.11E+02	2.11E+03		1.28E+03	8.62E+04	2.11E+05	2.11E+02	1.5E+06	2.20E+07	2.63E+07	2.11E+03	1.88E+05	3.08E+07	3.08E+06		1.00E+08	2.91E+07
			ResPRG	3.01E+06	6.11E+06	1.22E+06	5.59E+04	3.68E+06	3.68E+06	2.19E+07	6.21E+02	6.21E+01	6.21E+02	2.32E+06	3.78E+02	2.43E+04	6.21E+04	6.21E+01	1.45E+05	2.29E+06	2.75E+06	6.21E+02	5.58E+04	3.06E+06	3.06E+05	2.19E+07	1.83E+07	2.32E+06
			DAF10		1.40E+05	4.00E+03		2.90E+05		5.90E+06	8.00E+02	4.00E+03	2.00E+03		2.00E+04	3.00E+02	8.00E+04	8.00E+02		2.10E+06	2.80E+05	7.00E+03	4.00E+04	8.00E+03			5.00E+04	2.10E+06
			ESL	6.00E+04	4.00E+03	1.00E+01	3.24E+03	2.00E+04	6.82E+05	1.48E+06	5.21E+03	1.52E+03	5.98E+04	1.19E+05	1.48E+05		4.73E+03	1.84E+04		1.22E+05	1.22E+05	1.09E+05	9.94E+01	4.04E+04	1.63E+05	4.57E+04	7.00E+04	7.85E+04
AOC1CA12	10		01/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*250 J*	--	--	--	--	--
AOC1CA3	10		12/21/2005	--	--	--	--	--	--	--	--	***78 J***	--	--	--	--	--	--	--	--	--	--	*440*	--	--	--	--	--
AOC1CA9	10		01/10/2006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	*120 J*	--	--	--	--	--
AOC21SB2	14	16	01/10/2006	--	--	--	--	--	--	--	--	***89 J***	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC2SB13	10	11.1	01/09/2006	--	--	--	***19000 J***	--	--	--	***15000 J***	***14000 J***	***9700 J***	--	***12000 J***	*3200 J*	*14000 J*	***4200 J***	--	--	--	***9800 J***	*28000*	--	--	--	--	--
AOC2SB13	14	15.6	01/09/2006	--	--	--	*9400*	--	--	--	***28000***	***22000***	***16000***	--	***16000***	*9400*	*25000*	***4900***	--	--	--	***12000***	*20000*	--	--	*130000*	--	--
AOC2SB14	10	11	01/06/2006	*710000*	--	*160000 J*	***2400000***	*210000 J*	***4800000***	*3700000*	***3200000***	***2700000***	***2600000***	*1600000*	***1200000***	***1600000***	***2700000***	***610000***	***2700000***	***8300000***	***3600000***	***1500000***	***15000000***	*160000 J*	***480000***	*14000000*	*780000*	***7500000***
AOC2SB14	20	21.6	01/06/2006	*120000 J*	--	--	***340000***	*38000 J*	*780000*	--	***590000***	***520000***	***320000***	*330000*	***440000***	***290000***	***510000***	***120000 J***	***500000***	*1600000*	*710000*	***290000***	***2200000***	*25000 J*	--	*2400000*	*110000 J*	*1400000*
AOC2SB15	12	13.7	01/05/2006	*320000*	*200000 J*	*71000 J*	***1100000***	*120000 J*	*2030000*	*1600000*	***1600000***	***1400000***	***1000000***	*860000*	***890000***	***640000***	***1300000***	***320000***	***1200000***	***4200000***	*1900000*	***780000***	***9600000***	*74000 J*	*170000 J*	*6700000*	*170000 J*	***3100000***
AOC2SB15	20	21	01/05/2006	--	--	--	*42000*	--	--	--	***9200 J***	***7000 J***	***3800 J***	--	***6100 J***	*3500 J*	*9300 J*	***2000 J***	--	--	--	***3900 J***	***860000***	--	--	--	--	--

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
* - Screening value for Total Xylenes, sum of m+p-Xylene and o-Xylene used for screening.
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in ug/kg
All depths given in feet below ground surface
Additional analytical results available on Northern Parcel summary tables: Table 4.1-2, Table 4.2-2, Table 4.15-2, Table 4.18-2, and Table 4.19-2.



Map Location

Soil SVOC Sample Locations and Screening Level Exceedances >10 ft bgs - Northern Parcel

AK Steel

KEMRON ENVIRONMENTAL SERVICES

Figure 4.0.2-6

Scale: 1 inch equals 150 feet

0 150 300 600 Feet

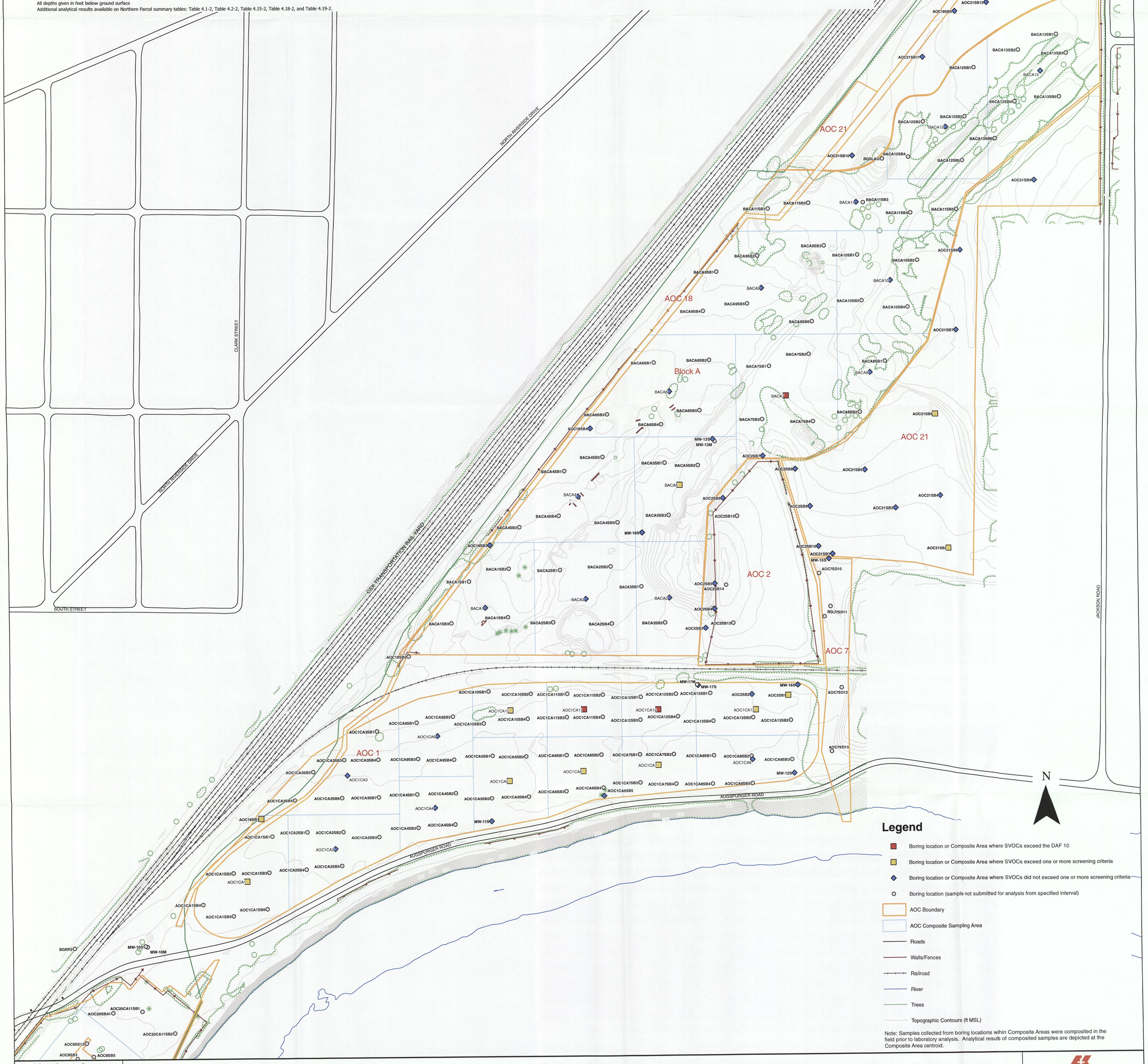
Project # MR0507
September 2008

Background Sample Locations			Analyte:	Acenaphthene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
			IndPRG:	2.92E+07	2.11E+03	2.11E+02	2.11E+03		1.28E+03	2.11E+05	2.11E+02	2.20E+07	2.63E+07	2.11E+03	1.88E+05		2.91E+07
			ResPRG:	3.68E+06	6.21E+01	6.21E+01	6.21E+02	2.32E+06	3.78E+02	6.21E+04	6.21E+01	2.29E+06	2.75E+06	6.21E+02	5.59E+04	2.19E+07	2.32E+06
			DAF10:	2.90E+05	8.00E+02	4.00E+03	2.00E+03		2.00E+04	8.00E+04	8.00E+02	2.10E+06	2.80E+05	7.00E+03	4.00E+04		2.10E+06
			ESL:	2.00E+04	5.21E+03	1.52E+03	5.98E+04	1.19E+05	1.48E+05	4.73E+03	1.84E+04	1.22E+05	1.22E+05	1.09E+05	9.94E+01	4.57E+04	7.85E+04
Sample Location	Start Depth	End Depth	Sample Date														
BGRR2	3	3.5	03/29/2006	*42000 J*	***500000***	***350000***	***240000***	*160000*	***320000***	***390000***	***56000 J***	*1100000*	*320000*	***170000***	***220000***	*1600000*	*910000*
BGVNW7	2.2	2.5	03/29/2006	--	**1100 J**	**1100**	**1200**	--	**1000 J**	--	**250 J**	--	--	**820 J**	*320 J*	--	--

Additional information on background samples available on Table 4.28-1 and Figure 4.28.0-2.

			Analyte:	2,4-Dimethylphenol	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Carbazole	Chrysne	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
			IndPRG:	1.23E+07	NE	2.11E+03	2.11E+02	2.11E+03	1.28E+03	8.62E+04	2.11E-05	2.11E+02	2.20E+07	2.63E+07	2.11E+03	1.88E+05	NE	2.91E+07
			ResPRG:	1.22E+06	5.59E+04	6.21E+02	6.21E+01	6.21E+02	3.78E+02	2.43E+04	6.21E-04	6.21E+01	2.29E+06	2.75E+06	6.21E+02	5.59E+04	2.19E+07	2.32E+06
			DAF10:	4.00E+03	NE	8.00E+02	4.00E+03	2.00E+03	2.00E+04	3.00E+02	8.00E-04	8.00E+02	2.10E+06	2.80E+05	7.00E+03	4.00E+04	NE	2.10E+06
			ESL:	1.00E+01	3.24E+03	5.21E+03	1.52E+03	5.98E+04	1.48E+05	NE	4.73E-03	1.84E+04	1.22E+05	1.22E+05	1.09E+05	9.94E+01	4.57E+04	7.85E+04
Sample Location	Start Depth	End Depth	Sample Date															
AOC18SB1	2	3.6	01/17/2006	--	--	--	**250**	--	--	--	--	--	--	--	--	--	--	--
AOC1CA1	2	10	01/03/2006	--	--	--	**110**	--	--	--	--	--	--	--	--	*150*	--	--
AOC1CA10	2	10	01/12/2006	*97*	--	**780**	**440**	**640**	--	--	--	**110**	--	--	--	*300*	--	--
AOC1CA11	2	10	01/25/2006	--	--	**1600**	**1300**	**1300**	**1200**	420	--	**310**	--	--	**720**	*10000*	--	--
AOC1CA12	2	10	01/11/2006	--	***130000***	***210000***	***180000***	***140000***	***170000***	**69000**	***20000***	***35000***	*550000*	*190000*	**100000**	***1100000***	*620000*	*380000*
AOC1CA13	2	10	01/11/2006	--	--	--	**160**	--	--	--	--	--	--	--	--	*200*	--	--
AOC1CA5	2	10	01/16/2006	--	--	--	--	--	--	--	--	--	--	--	--	*410*	--	--
AOC1CA6	2	10	01/16/2006	--	--	**630**	**530**	--	**450**	--	--	**110**	--	--	--	*580*	--	--
AOC1CA7	2	10	01/10/2006	--	--	--	**450**	--	--	--	--	**110**	--	--	--	--	--	--
AOC21SB2	4	5.2	01/10/2006	--	--	--	**370**	--	--	--	--	**85**	--	--	--	*810*	--	--
AOC21SB6	4	6	01/10/2006	--	--	**660**	**560**	--	**400**	--	--	**120**	--	--	--	*670*	--	--
AOC2SB1	4	5.2	01/05/2006	--	--	--	**120**	--	--	--	--	--	--	--	--	--	--	--
BACA5	2	10	11/30/2005	--	--	**740**	**610**	--	**560**	--	--	**120**	--	--	--	--	--	--
BACA7	2	10	12/08/2005	--	--	**2700**	***6500***	**3600**	**3300**	--	--	**840**	--	--	**3000**	--	--	--

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
- The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
* - Screening value for Total Xylenes, sum of m+p-Xylene and o-Xylene used for screening.
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in ug/kg
All depths given in feet below ground surface
Additional analytical results available on Northern Parcel summary tables: Table 4.1-2, Table 4.2-2, Table 4.15-2, Table 4.18-2, and Table 4.19-2.



Map Location

Soil SVOC Sample Locations and Screening Level Exceedances 2 - 10 ft bgs - Northern Parcel

AK Steel

KEMRON ENVIRONMENTAL SERVICES

Figure 4.0.2-5

Scale: 1 inch equals 150 feet

0 150 300 600 Feet

Project # MR0507
September 2008

Background Sample Locations

Sample Location	Start Depth	End Depth	Sample Date	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Naphthalene
			IndPRG:	2.11E+03	2.11E+02	2.11E+03	1.28E+03	2.11E+05	2.11E+02	2.11E+03	1.88E+05
			ResPRG:	6.21E+02	6.21E+01	6.21E+02	3.78E+02	6.21E+04	6.21E+01	6.21E+02	5.59E+04
			DAF10:	8.00E+02	4.00E+03	2.00E+03	2.00E+04	8.00E+04	8.00E+02	7.00E+03	4.00E+04
			ESL:	5.21E+03	1.52E+03	5.98E+04	1.48E+05	4.73E+03	1.84E+04	1.09E+05	9.94E+01
BGCOG1	0	1	03/30/2006	**800**	**880**	**1100**	**900**	--	**220 J**	**730 J**	*990*
BGCOG2	0	1	03/30/2006	--	**240 J**	--	--	--	--	--	*250 J*
BGPRK5	0	1	03/29/2006		**190 J**			--			--
BGRR2	0	1	03/29/2006	***8600***	***7200***	**6300**	**6500**	*7500*	**1300 J**	**3700**	*1500 J*
BGRR3	0	1	03/29/2006	**2400**	***2500***	**2300**	**2300**	--	**480 J**	**1600**	*110 J*
BGRR4	0	1	03/30/2006	--	**220 J**	--	--	--	--	--	--
BGVNW6	0	1	03/29/2006	**3600**	***2600***	**1700 J**	**2300 J**	--	**410 J**	**1100 J**	--
BGVNW7	0	1	03/29/2006	**770 J**	**780 J**	**730 J**	**680 J**	--	**190 J**	--	--

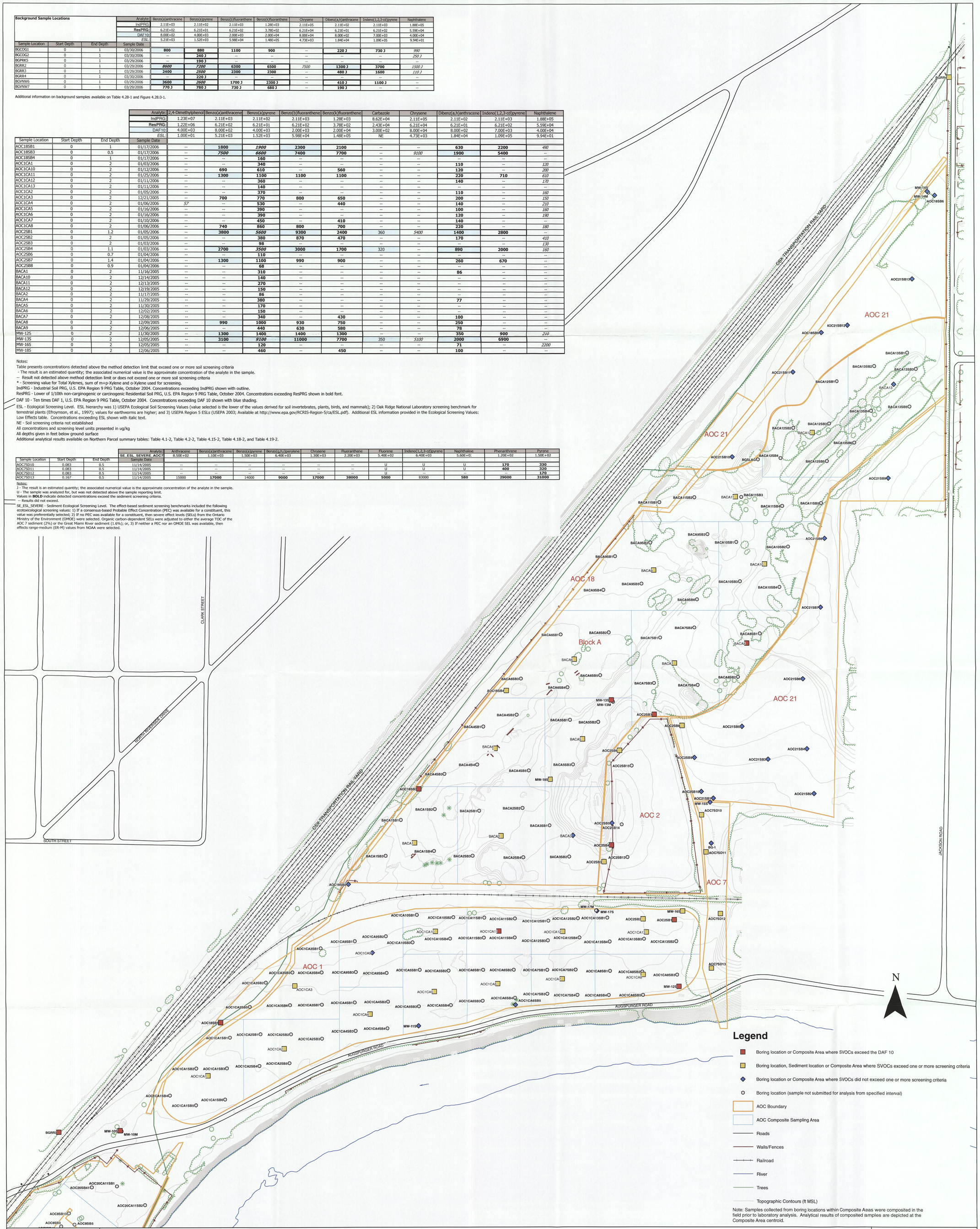
Additional information on background samples available on Table 4.28-1 and Figure 4.28.0-1.

Sample Location	Start Depth	End Depth	Sample Date	2,4-Dimethylphenol	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Carbazole	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Naphthalene
			IndPRG:	1.23E+07	2.11E+03	2.11E+02	2.11E+03	1.28E+03	8.62E+04	2.11E+05	2.11E+02	2.11E+03	1.88E+05
			ResPRG:	1.22E+06	6.21E+02	6.21E+01	6.21E+02	3.78E+02	2.43E+04	6.21E+04	6.21E+01	6.21E+02	5.59E+04
			DAF10:	4.00E+03	8.00E+02	4.00E+03	2.00E+03	2.00E+04	3.00E+02	8.00E+04	8.00E+02	7.00E+03	4.00E+04
			ESL:	1.00E+01	5.21E+03	1.52E+03	5.98E+04	1.48E+05	NE	4.73E+03	1.84E+04	1.09E+05	9.94E+01
AOC18SB1	0	1	01/17/2006	--	**1800**	***1900***	**2300**	**2100**	--	--	**630**	**2200**	*490*
AOC18SB3	0	0.5	01/17/2006	--	***7500***	***6600***	**7400**	**7700**	--	*9100*	**1900**	**5400**	--
AOC18SB4	0	1	01/17/2006	--	--	**160**	--	--	--	--	--	--	--
AOC1CA1	0	2	01/03/2006	--	--	**340**	--	--	--	--	**110**	--	*120*
AOC1CA10	0	2	01/12/2006	--	**690**	**610**	--	**560**	--	--	**120**	--	*200*
AOC1CA11	0	2	01/25/2006	--	**1300**	**1100**	**1100**	**1100**	--	--	**220**	**710**	*610*
AOC1CA12	0	2	01/11/2006	--	--	**360**	--	--	--	--	**140**	--	*170*
AOC1CA13	0	2	01/11/2006	--	--	**140**	--	--	--	--	--	--	--
AOC1CA2	0	2	01/05/2006	--	--	**370**	--	--	--	--	**110**	--	*160*
AOC1CA3	0	2	12/21/2005	--	**700**	**770**	**800**	**650**	--	--	**200**	--	*150*
AOC1CA4	0	2	01/06/2006	*57*	--	**530**	--	**440**	--	--	**140**	--	*210*
AOC1CA5	0	2	01/16/2006	--	--	**390**	--	--	--	--	**100**	--	*160*
AOC1CA6	0	2	01/16/2006	--	--	**390**	--	--	--	--	**120**	--	*190*
AOC1CA7	0	2	01/10/2006	--		**450**		**410**	--	--	**140**	--	--
AOC1CA8	0	2	01/06/2006	--	**740**	**860**	**800**	**700**	--	--	**220**	--	*180*
AOC2SB1	0	1.2	01/05/2006	--	**3800**	***5600***	**9300**	**2400**	360	*5400*	**1400**	**2800**	--
AOC2SB2	0	2	01/05/2006	--	--	**380**	**870**	**470**	--	--	**170**	--	*410*
AOC2SB3	0	2	01/03/2006	--	--	**98**	--	--	--	--	--	--	*130*
AOC2SB4	0	1.1	01/03/2006	--	**2700**	***3500***	**3000**	**1700**	320	--	**890**	**2000**	*160*
AOC2SB6	0	0.7	01/04/2006	--	--	**110**	--	--	--	--	--	--	--
AOC2SB7	0	1.4	01/04/2006	--	**1300**	**1100**	**990**	**900**	--	--	**260**	**670**	--
AOC2SB8	0	0.9	01/04/2006	--	--	**68**	--	--	--	--	--	--	--
BACA1	0	2	11/16/2005	--	--	**310**	--	--	--	--	**86**	--	--
BACA10	0	2	12/14/2005	--	--	**140**	--	--	--	--	--	--	--
BACA11	0	2	12/13/2005	--	--	**270**	--	--	--	--	--	--	--
BACA12	0	2	12/19/2005	--	--	**150**	--	--	--	--	--	--	--
BACA2	0	2	11/17/2005	--	--	**86**	--	--	--	--	--	--	--
BACA4	0	2	11/29/2005	--	--	**380**	--	--	--	--	**77**	--	--
BACA5	0	2	11/30/2005	--	--	**170**	--	--	--	--	--	--	--
BACA6	0	2	12/02/2005	--	--	**150**	--	--	--	--	--	--	--
BACA7	0	2	12/08/2005	--	--	**340**	--	**430**	--	--	**100**	--	--
BACA8	0	2	12/09/2005	--	**990**	**1000**	**930**	**750**	--	--	**250**	--	--
BACA9	0	2	12/06/2005	--	--	**440**	**630**	**580**	--	--	**78**	--	--
MW-12S	0	2	11/30/2005	--	**1300**	**1400**	**1400**	**1300**	--	--	**350**	**900**	*210*
MW-13S	0	2	12/05/2005	--	**3100**	***9100***	**11000**	**7700**	350	*5100*	**2000**	**6900**	--
MW-16S	0	2	12/05/2005	--	--	**120**	--	--	--	--	**71**	--	*2200*
MW-18S	0	2	12/06/2005	--	--	**460**	--	**450**	--	--	**100**	--	--

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
- The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
* - Screening value for Total Xylenes, sum of m+p-Xylene and o-Xylene used for screening.
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in ug/kg
All depths given in feet below ground surface
Additional analytical results available on Northern Parcel summary tables: Table 4.1-2, Table 4.2-2, Table 4.15-2, Table 4.18-2, and Table 4.19-2.

Sample Location	Start Depth	End Depth	Sample Date	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(g,h,i)perylene	Chrysene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
			SE_ESL_SEVERE_AOC7	8.50E+02	1.10E+03	1.50E+03	6.40E+03	1.30E+03	2.20E+03	5.40E+02	6.40E+03	5.60E+0	1.20E+02	1.50E+02
AOC7SD10	0.083	0.5	11/14/2005	--	--	--	--	--	--	U	U	U	**170**	**330**
AOC7SD11	0.083	0.5	11/14/2005	--	--	--	--	--	--	U	U	U	**400**	**320**
AOC7SD12	0.083	0.5	11/14/2005	--	--	--	--	--	--	U	--	--		**170**
AOC7SD13	0.167	0.5	11/14/2005	15000	**17000**	14000	**9000**	**17000**	**38000**	**5000**	83000	**580**	**29000**	**31000**

Notes:
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
U - The sample was analyzed for, but was not detected above the sample reporting limit.
Values in **BOLD** indicate detected concentrations exceed the sediment screening criteria.
-- Results did not exceed.
SE_ESL_SEVERE - Sediment Ecological Screening Level. The effect-based sediment screening benchmarks included the following ecotoxicological screening values: 1) If a consensus-based Probable Effect Concentration (PEC) was available for a constituent, this value was preferentially selected; 2) If no PEC was available for a constituent, then severe effect levels (SELs) from the Ontario Ministry of the Environment (OMOE) were selected. Organic carbon-dependent SELs were adjusted to either the average TOC of the AOC 7 sediment (2%) or the Great Miami River sediment (1.6%); or, 3) If neither a PEC nor an OMOE SEL was available, then effects range-medium (ER-M) values from NOAA were selected.



Map Location

Soil SVOC Sample Locations and Screening Level Exceedances 0 - 2 ft bgs - Northern Parcel

AKSteel

KEMRON ENVIRONMENTAL SERVICES

Figure 4.0.2-4

Scale: 1 inch equals 150 feet

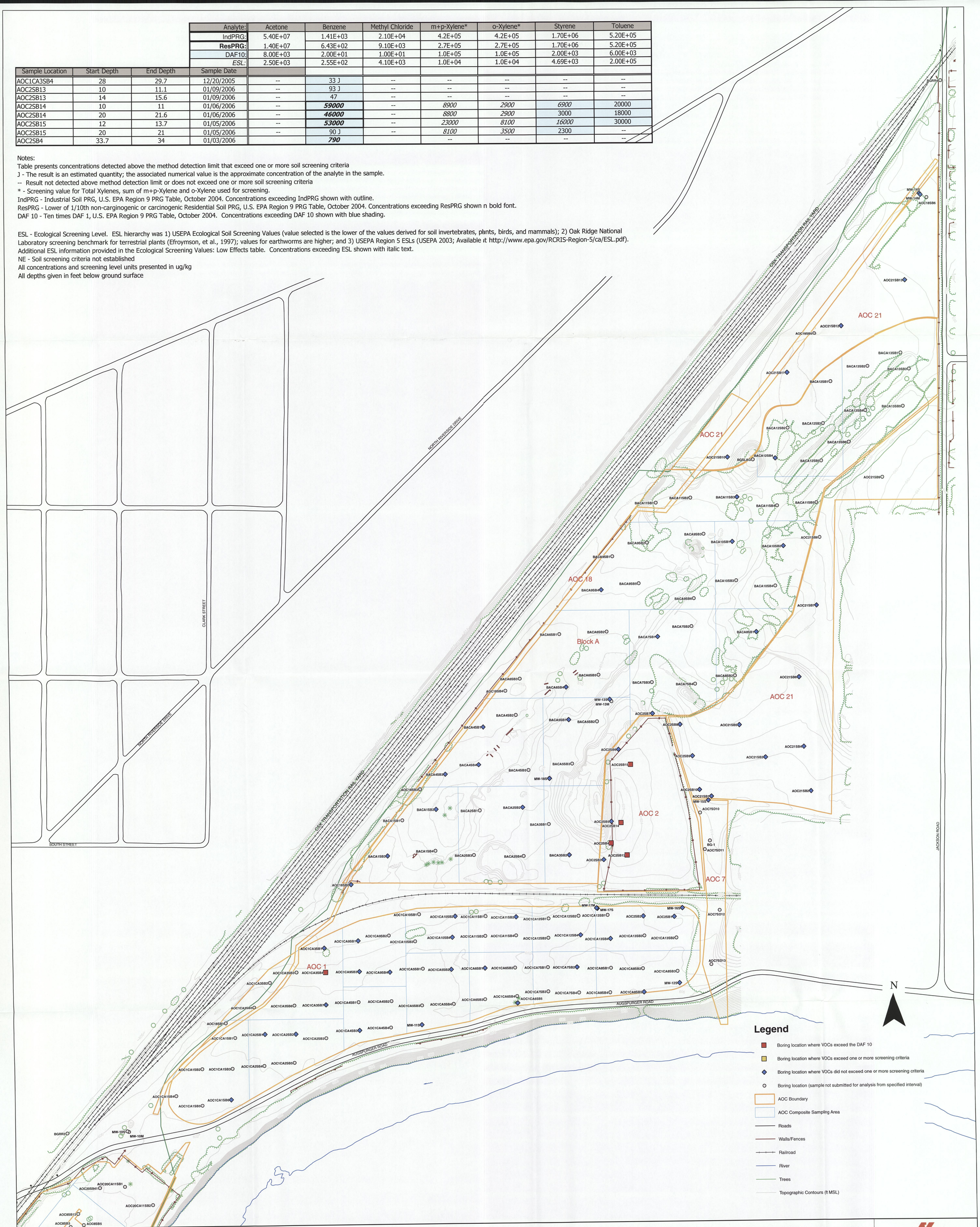
0 150 300 600 Feet

Project # MR0507
September 2008

			Analyte:	Acetone	Benzene	Methyl Chloride	m+p-Xylene*	o-Xylene*	Styrene	Toluene
			IndPRG:	5.40E+07	1.41E+03	2.10E+04	4.2E+05	4.2E+05	1.70E+06	5.20E+05
			ResPRG:	1.40E+07	6.43E+02	9.10E+03	2.7E+05	2.7E+05	1.70E+06	5.20E+05
			DAF10:	8.00E+03	2.00E+01	1.00E+01	1.0E+05	1.0E+05	2.00E+03	6.00E+03
			ESL:	2.50E+03	2.55E+02	4.10E+03	1.0E+04	1.0E+04	4.69E+03	2.00E+05
Sample Location	Start Depth	End Depth	Sample Date							
AOC1CA3SB4	28	29.7	12/20/2005	--	33 J	--	--	--	--	--
AOC2SB13	10	11.1	01/09/2006	--	93 J	--	--	--	--	--
AOC2SB13	14	15.6	01/09/2006	--	47	--	--	--	--	--
AOC2SB14	10	11	01/06/2006	--	***59000***	--	*8900*	*2900*	*6900*	20000
AOC2SB14	20	21.6	01/06/2006	--	***46000***	--	*8800*	*2900*	3000	18000
AOC2SB15	12	13.7	01/05/2006	--	***53000***	--	*23000*	*8100*	*16000*	30000
AOC2SB15	20	21	01/05/2006	--	90 J	--	*8100*	*3500*	2300	--
AOC2SB4	33.7	34	01/03/2006		***790***		--	--	--	--

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
* - Screening value for Total Xylenes, sum of m+p-Xylene and o-Xylene used for screening.
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown n bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.

ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plnts, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available it http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf).
Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in ug/kg
All depths given in feet below ground surface



Map Location

Soil VOC Sample Locations and Screening Level Exceedances >10 ft bgs - Northern Parcel

AK Steel

Kemron ENVIRONMENTAL SERVICES

Figure 4.0.2-3

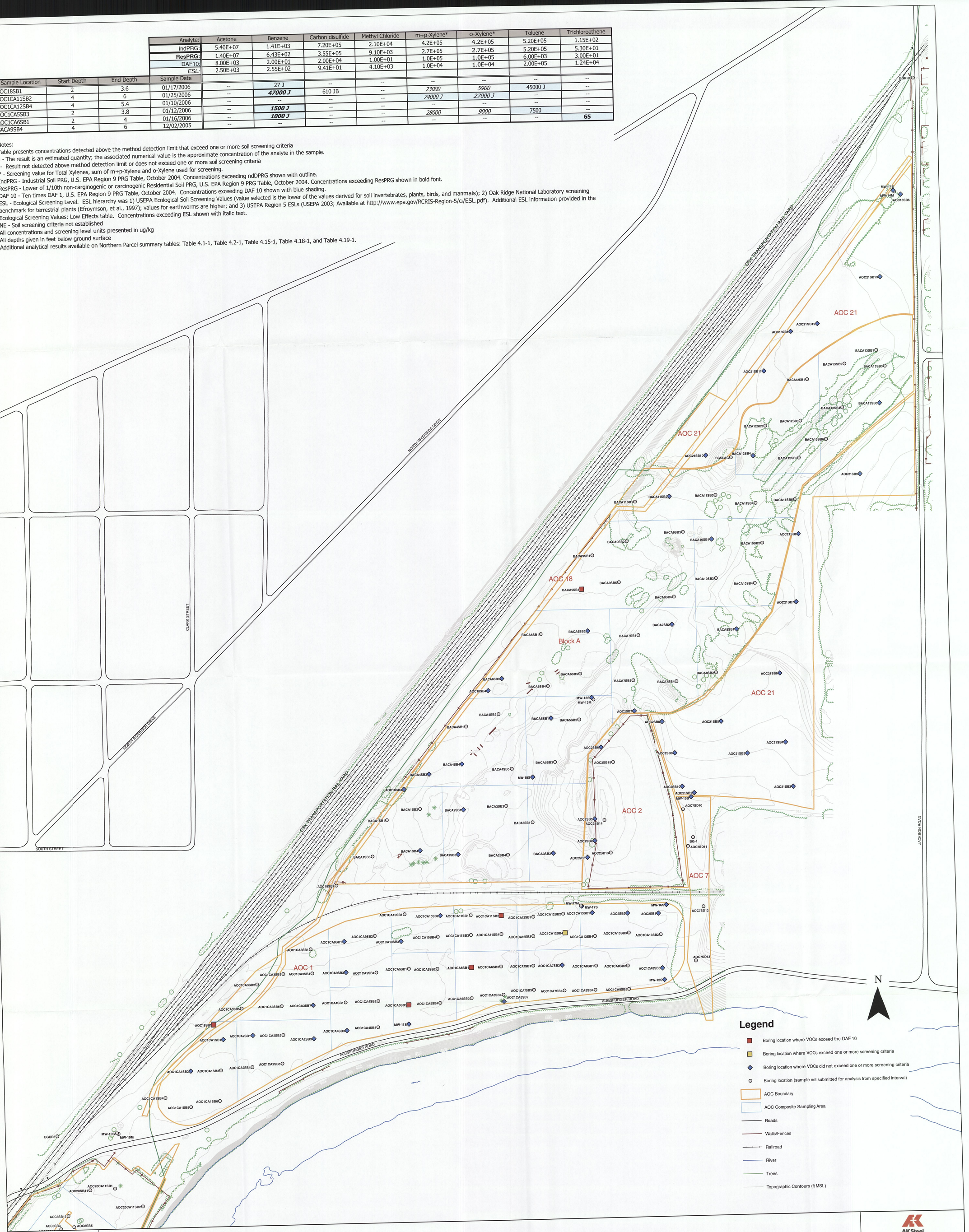
Scale: 1 inch equals 150 feet

0 150 300 600 Feet

Project # MR0507
September 2008

Analyte:	Acetone	Benzene	Carbon disulfide	Methyl Chloride	m+p-Xylene*	o-Xylene*	Toluene	Trichloroethene
IndPRG:	5.40E+07	1.41E+03	7.20E+05	2.10E+04	4.2E+05	4.2E+05	5.20E+05	1.15E+02
ResPRG:	1.40E+07	6.43E+02	3.55E+05	9.10E+03	2.7E+05	2.7E+05	5.20E+05	5.30E+01
DAF10:	8.00E+03	2.00E+01	2.00E+04	1.00E+01	1.0E+05	1.0E+05	6.00E+03	3.00E+01
ESL:	2.50E+03	2.55E+02	9.41E+01	4.10E+03	1.0E+04	1.0E+04	2.00E+05	1.24E+04
Sample Location / **Start Depth** / **End Depth** / **Sample Date**								
AOC18SB1 / 2 / 3.6 / 01/17/2006	--	27 J	--	--	--	--	--	--
AOC1CA11SB2 / 4 / 6 / 01/25/2006	--	***47000 J***	610 JB	--	*23000*	*5900*	45000 J	--
AOC1CA12SB4 / 4 / 5.4 / 01/10/2006	--	--	--	--	*74000 J*	*27000 J*	--	--
AOC1CA5SB3 / 2 / 3.8 / 01/12/2006	--	***1500 J***	--	--	--	--	--	--
AOC1CA6SB1 / 2 / 4 / 01/16/2006	--	***1000 J***	--	--	*28000*	*9000*	7500	--
BACA9SB4 / 4 / 6 / 12/02/2005	--	--	--	--	--	--	--	**65**

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
* - Screening value for Total Xylenes, sum of m+p-Xylene and o-Xylene used for screening.
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ndDPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and manmals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/c/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in ug/kg
All depths given in feet below ground surface
Additional analytical results available on Northern Parcel summary tables: Table 4.1-1, Table 4.2-1, Table 4.15-1, Table 4.18-1, and Table 4.19-1.



Map Location

Soil VOC Sample Locations and Screening Level Exceedances 2 - 10 ft bgs - Northern Parcel

AK Steel
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Figure 4.0.2-2

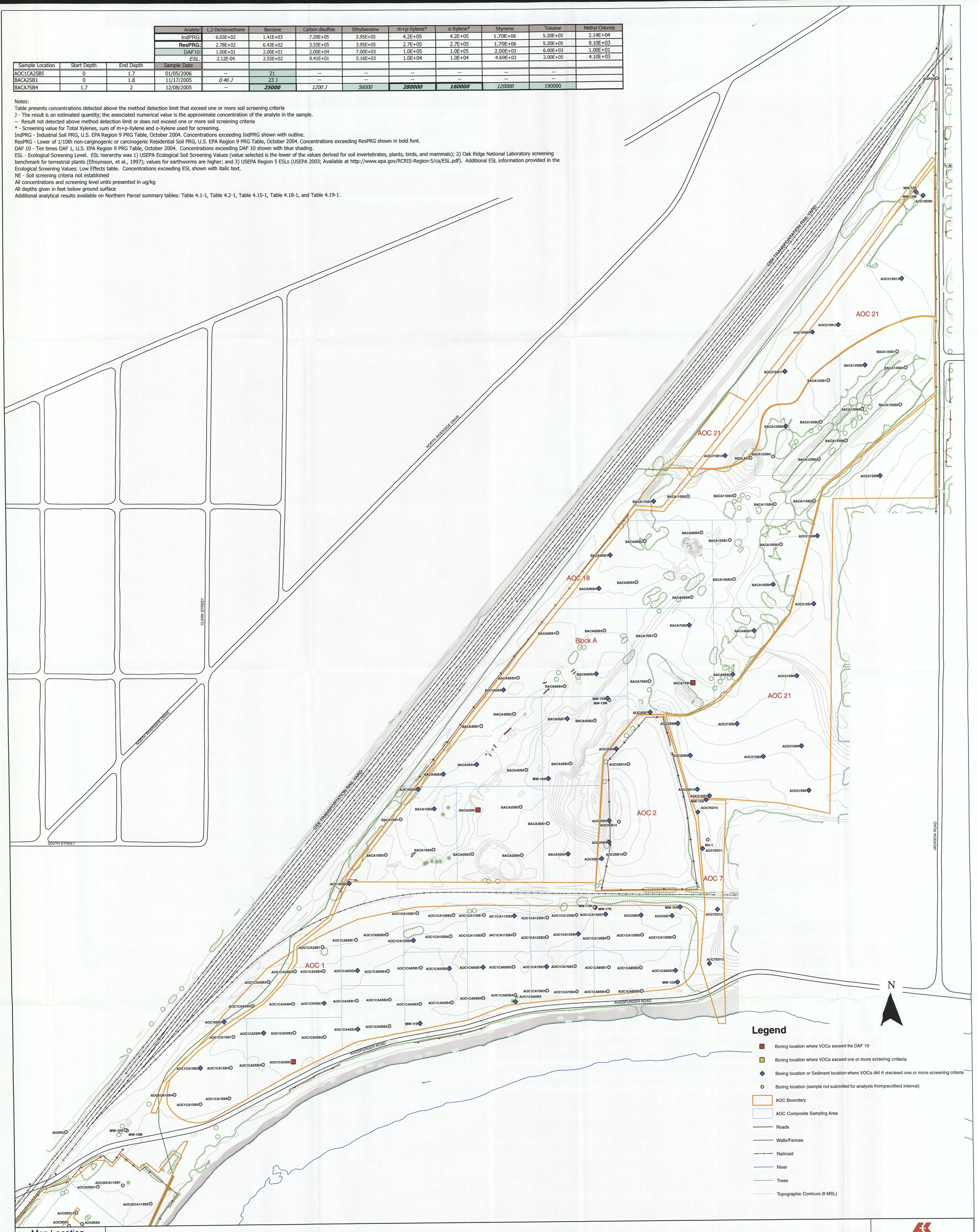
Scale: 1 inch equals 150 feet

0 150 300 600 Feet

Project # MR0507
September 2008

Sample Location	Start Depth	End Depth	Analyte: / Sample Date	1,2-Dichloroethane	Benzene	Carbon disulfide	Ethylbenzene	m+p-Xylene*	o-Xylene*	Styrene	Toluene	Methyl Chloride
			IndPRG:	6.03E+02	1.41E+03	7.20E+05	3.95E+05	4.2E+05	4.2E+05	1.70E+06	5.20E+05	2.14E+04
			ResPRG:	2.78E+02	6.43E+02	3.55E+05	3.95E+05	2.7E+05	2.7E+05	1.70E+06	5.20E+05	9.10E+03
			DAF10:	1.00E+01	2.00E+01	2.00E+04	7.00E+03	1.0E+05	1.0E+05	2.00E+03	6.00E+03	1.00E+01
			ESL:	2.12E-04	2.55E+02	9.41E+01	5.16E+03	1.0E+04	1.0E+04	4.69E+03	2.00E+05	4.10E+03
AOC1CA2SB5	0	1.7	01/05/2006	--	21	--	--	--	--	--	--	
BACA2SB1	0	1.8	11/17/2005	*0.46 J*	23 J	--	--	--	--	--	--	
BACA7SB4	1.7	2	12/08/2005	--	***25000***	*1200 J*	*56000*	***280000***	***160000***	*120000*	190000	

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
* - Screening value for Total Xylenes, sum of m+p-Xylene and o-Xylene used for screening.
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in ug/kg
All depths given in feet below ground surface
Additional analytical results available on Northern Parcel summary tables: Table 4.1-1, Table 4.2-1, Table 4.15-1, Table 4.18-1, and Table 4.19-1.



Map Location

Soil VOC Sample Locations and Screening Level Exceedances 0 - 2 ft bgs - Northern Parcel

AK Steel
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Figure 4.0.2-1

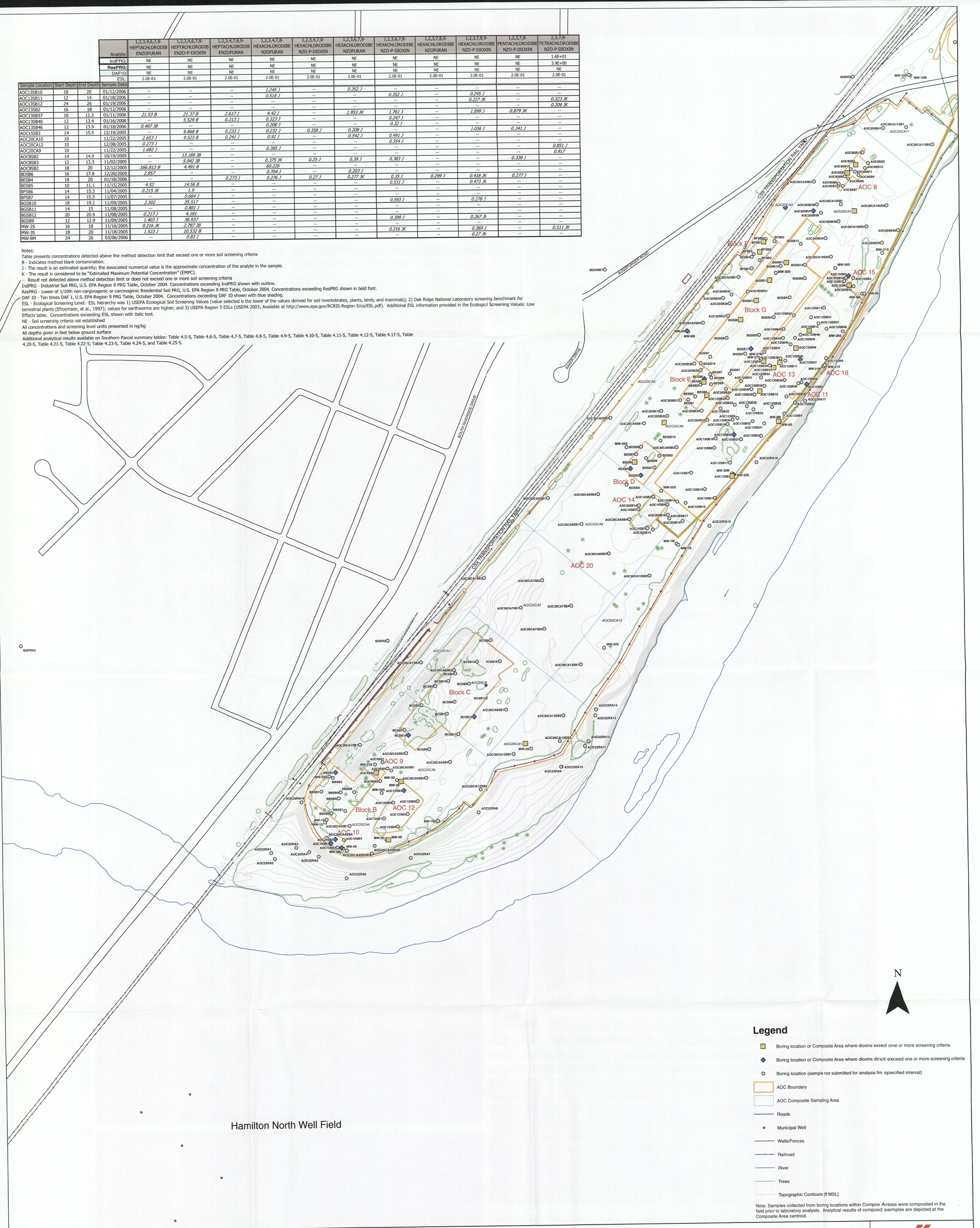
Scale: 1 inch equals 150 feet

0 150 300 600 Feet

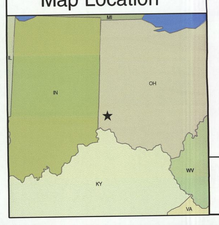
Project # MR0507
September 2008

Analyte:				1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
IndPRG:				NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1.6E+01
ResPRG:				NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	3.9E+00
DAF10:				NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
ESL:				2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01
Sample Location	Start Depth	End Depth	Sample Date											
AOC13SB10	18	20	01/12/2006	--	--	--	*1.245 J*	--	*0.352 J*	--	--	--	--	--
AOC13SB11	12	14	01/18/2006	--	--	--	*0.518 J*	--	--	*0.352 J*	--	*0.245 J*	--	--
AOC13SB12	24	26	01/19/2006	--	--	--	--	--	--	--	--	*0.227 JK*	--	*0.323 JK*
AOC13SB2	16	18	01/12/2006	--	--	--	--	--	--	--	--	--	--	*0.206 JK*
AOC13SB37	10	11.3	01/11/2006	*21.53 B*	*21.37 B*	*2.617 J*	*4.42 J*	--	*1.953 JK*	*1.761 J*	--	*1.099 J*	*0.879 JK*	--
AOC13SB40	12	13.4	01/16/2006	--	*5.529 B*	*0.213 J*	*0.323 J*	--	--	*0.247 J*	--	--	--	--
AOC13SB46	12	13.9	01/18/2006	*0.497 JB*	--	--	*0.208 J*	--	--	*0.32 J*	--	--	--	--
AOC15SB3	14	15.5	12/19/2005	--	*9.868 B*	*0.233 J*	*0.232 J*	*0.358 J*	*0.208 J*	--	--	*1.036 J*	*0.341 J*	--
AOC20CA10	10		11/22/2005	*2.653 J*	*9.523 B*	*0.241 J*	*0.92 J*	--	*0.542 J*	*0.491 J*	--	--	--	--
AOC20CA12	10		12/08/2005	*0.273 J*	--	--	--	--	--	*0.354 J*	--	--	--	--
AOC20CA9	10		11/22/2005	*1.682 J*	--	--	*0.385 J*	--	--	--	--	--	--	*0.851 J*
AOC8SB2	14	14.9	10/19/2005	--	*13.189 JB*	--	--	--	--	--	--	--	*0.338 J*	*0.917*
AOC8SB3	12	13.3	11/02/2005	--	*5.042 JB*	--	*0.375 JK*	*0.25 J*	*0.39 J*	*0.383 J*	--	--	--	--
AOC9SB2	18	20	12/12/2005	*166.813 B*	*4.491 B*	--	*60.226*	--	--	--	--	--	--	--
BDSB6	16	17.8	12/20/2005	*2.857*	--	--	*0.704 J*	--	*0.203 J*	--	--	--	--	--
BESB4	18	20	01/18/2006	--	--	*0.273 J*	*0.276 J*	*0.27 J*	*0.277 JK*	*0.35 J*	*0.299 J*	*0.418 JK*	*0.277 J*	--
BESB5	10	11.1	11/15/2005	*4.52*	*14.56 B*	--	--	--	--	*0.531 J*	--	*0.473 JK*	--	--
BFSB6	14	15.3	11/04/2005	*0.215 JK*	*1.9*	--	--	--	--	--	--	--	--	--
BFSB7	14	15.5	11/07/2005	--	*0.664 J*	--	--	--	--	--	--	--	--	--
BGSB10	18	19.2	11/09/2005	*2.502*	*35.517*	--	--	--	--	*0.593 J*	--	*0.276 J*	--	--
BGSB11	14	15	11/08/2005	--	*0.881 J*	--	--	--	--	--	--	--	--	--
BGSB12	20	20.9	11/08/2005	*0.217 J*	*4.181*	--	--	--	--	--	--	--	--	--
BGSB9	12	12.9	11/09/2005	*1.403 J*	*36.937*	--	--	--	--	*0.399 J*	--	*0.267 JK*	--	--
MW-2S	16	18	11/16/2005	*0.216 JK*	*2.787 JB*	--	--	--	--	--	--	--	--	--
MW-3S	18	20	11/18/2005	*1.523 J*	*10.522 B*	--	--	--	--	*0.216 JK*	--	*0.369 J*	--	*0.511 JK*
MW-8M	24	26	03/06/2006	--	*0.83 J*	--	--	--	--	--	--	*0.27 JK*	--	--

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
B - Indicates method blank contamination.
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
K - The result is considered to be "Estimated Maximum Potential Concentration" (EMPC).
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screering benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecologicl Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in ng/kg
All depths given in feet below ground surface
Additional analytical results available on Southern Parcel summary tables: Table 4.5-5, Table 4.6-5, Table 4.7-5, Table 4.8-5, Table 4.9-5, Table 4.10-5, Table 4.11-5, Table 4.12-5, Table 4.17-5, Table 4.20-5, Table 4.21-5, Table 4.22-5, Table 4.23-5, Table 4.24-5, and Table 4.25-5.



Map Location



Soil Dioxin Sample Locations and Screening Level Exceedances >10 ft bgs - Southern Parcel

Scale: 1 inch equals 160 feet

0 160 320 640 Feet

AKSteel

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Figure 4.0.1-15

Project # MR0507
September 2008

			Analyte:	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
			IndPRG:	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1.6E+01
			ResPRG:	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	3.9E+00
			DAF10:	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
			ESL:	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01
Sample Location	Start Depth	End Depth	Sample Date											
AOC12SB2	4	5.2	12/14/2005	*3.707 B*	*3.918 B*	*0.351 JK*	*1.051 J*	--	*0.401 J*	*0.248 JK*	--	*0.4 J*	--	--
AOC12SB6	4	5.3	12/14/2005	*11.82 B*	*13.816 B*	*0.908 J*	*3.381*	--	*1.476 JK*	*0.845 J*	--	*0.388 J*	*0.366 J*	--
AOC13SB1	4	5.4	01/05/2006	*19.116*	*17.525 B*	*2.212 J*	*7.52*	*0.715 JK*	*6.988*	*0.689 JK*	--	*1.285 J*	*1.56 J*	--
AOC13SB15	8	9.2	01/05/2006	*0.407 J*	--	--	--	--	--	--	--	--	--	--
AOC13SB25	4	5.8	01/09/2006	*3.574*	*19.66 B*	*0.373 J*	*0.92 J*	--	*0.475 J*	*0.22 JK*	--	*0.35 JK*	--	--
AOC13SB28	8	9.6	01/09/2006	*1.663 J*	*3.365 B*	*0.226 JK*	*0.395 JK*	--	--	--	--	--	--	--
AOC13SB34	4	5.2	01/10/2006	--	*3.691 B*	--	*0.365 J*	--	--	--	--	--	--	--
AOC13SB4	4	4.8	01/12/2006	--	*3.13 B*	--	*0.433 J*	*0.302 J*	*0.467 JK*	*0.408 J*	*0.205 J*	*0.322 J*	*0.263 JK*	--
AOC13SB49	2	4	01/19/2006	--	--	--	*1.405 JK*	--	--	*0.648 JK*	--	--	--	--
AOC13SB53	4	5.3	01/12/2006	--	--	--	--	--	--	--	--	*0.285 J*	--	--
AOC13SB6	4	5.3	01/18/2006	--	--	--	--	--	--	--	--	--	*0.233 JK*	--
AOC13SB7	4	5.1	01/05/2006	*14.585 J*	*5.683 JB*	*2.834 J*	*9.859*	*0.339 JK*	*4.741*	*0.765 J*	*0.249 JK*	*0.876 J*	*0.391 JK*	--
AOC20CA11	2	10	11/16/2005	*69.313*	*9.668 B*	*13.056*	*42.124*	*0.874 J*	*20.315*	*1.971 J*	*1.39 J*	*1.528 J*	*0.977 J*	--
AOC20CA2	2	10	11/18/2005	*0.684 J*	*2.896 B*	--	*0.486 J*	--	*0.237 J*	--	--	--	--	--
AOC20CA5	2	10	12/07/2005	*2.746*	*18.517 B*	*0.333 J*	*1.322 J*	--	*0.503 J*	*0.568 J*	--	*0.544 J*	*0.226 J*	--
AOC20CA8	2	10	11/29/2005	*1.291 J*	*2.684 B*	*0.209 J*	*0.756 J*	--	*0.364 J*	--	--	--	--	--
AOC20SB18	6	7.2	12/19/2005	*7.056*	*30.339 JB*	*0.538 J*	*1.185 J*	*0.333 J*	*0.626 J*	*1.072 J*	--	*0.919 J*	--	--
AOC20SB20	6	7.1	12/20/2005	*0.775 J*	--	--	--	--	--	--	--	--	--	--
AOC20SB23	6	7.1	12/20/2005	*0.327 JK*	--	--	--	--	--	--	--	--	--	--
AOC20SB34	6	7	01/03/2006	*3.087*	*6.11 B*	*0.51 J*	--	--	*0.300 JK*	*0.266 J*	--	--	--	--
AOC8SB10	6	7.6	11/01/2005	*3.918 B*	*20.677 B*	--	*0.372 JK*	*0.219 JK*	--	*0.739 J*	--	*0.759 J*	--	--
AOC8SB13	6	7.7	11/03/2005	--	*8.723*	--	*0.346 JK*	--	*0.323 J*	*0.291 J*	--	*0.253 J*	--	--
AOC8SB7	6	7.6	11/01/2005	--	*2.989 B*	--	*0.351 J*	--	*0.328 J*	*0.208 J*	--	--	*0.368 J*	*0.24 JK*
AOC9SB3	8	9.5	12/12/2005	*2707.614*	*21.214 B*	*72.306*	*630.706*	*2.051*	*187.443*	*5.107*	--	*3.307*	*4.527*	*3.171*
BBSB2	4	5.4	12/16/2005	--	--	--	*1.033 J*	--	*0.537 J*	*0.375 J*	--	*0.528 J*	*0.259 JK*	--
BCSB11	4	5.4	12/21/2005	*28.563*	*144.221 B*	*2.84 J*	*9.215*	*1.902 J*	*3.458*	*7.701*	*0.471 J*	*6.448*	*3.112*	*1.069 JK*
BCSB7	4	5	01/04/2006	*3.656*	*21.265 B*	*0.367 JK*	*1.842 J*	*0.453 JK*	*0.823 J*	*1.4 J*	--	*2.28 J*	*0.917 J*	*0.334 JK*
BCSB9	4	5.1	01/03/2006	*1.118 J*	*3.318 JB*	--	*0.235 JK*	--	--	--	--	*0.33 J*	*0.265 J*	--
BDSB4	2	3.9	12/20/2005	*14.298 B*	*4.61 B*	*0.857 J*	*3.592*	--	*1.629 J*	*0.436 JK*	--	*0.605 J*	*0.273 J*	--
BESB2	2	3.6	11/05/2005	*16.361*	*389.159 B*	*0.976 J*	*1.974 J*	*0.525 JK*	*0.71 J*	*4.1*	--	*3.192*	*0.376 JK*	--
BFSB2	4	5.6	11/03/2005	*3.498 B*	*55.392 B*	*0.33 J*	*0.416 J*	--	--	*0.882 J*	--	--	--	--
BGSB14	6	7.4	11/10/2005	--	*0.627 J*	--	--	--	--	--	--	--	--	--
BGSB2	2	4	01/17/2006	*9.557 B*	*19.429 B*	*0.992 J*	*6.379 J*	*0.327 JK*	*6.664 J*	--	*0.714 J*	*0.722 J*	*0.834 J*	--
BGSB7	4	6	11/10/2005	*1.637 J*	*9.685*	--	*0.301 J*	--	--	*0.396 J*	--	*0.233 JK*	--	--

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
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DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screeningpenchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Sreening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
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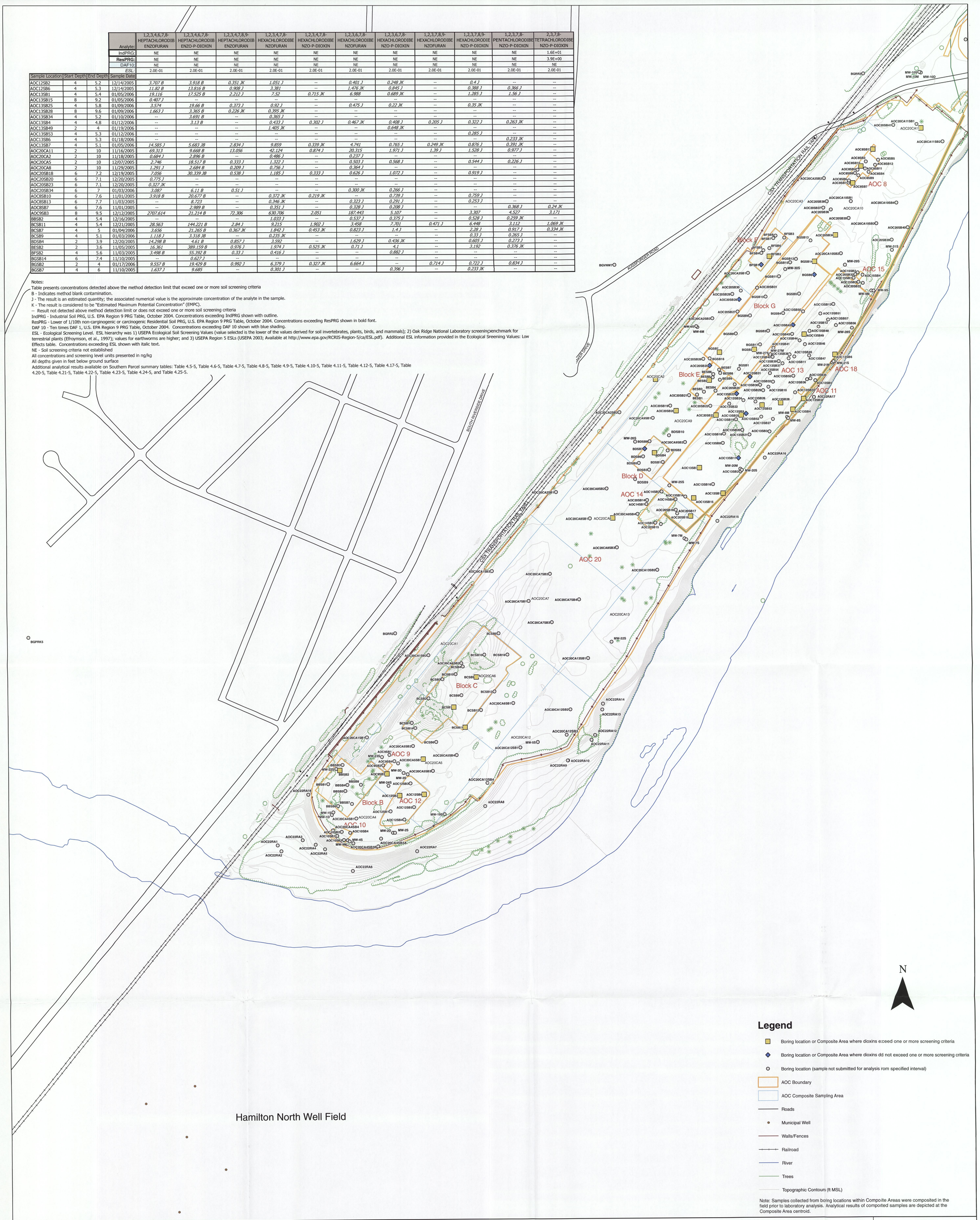
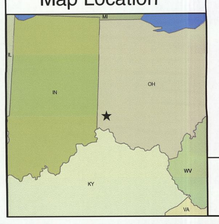


Map Location



Soil Dioxin Sample Locations and Screening Level Exceedances 2 - 10 ft bgs - Southern Parcel

Scale: 1 inch equals 160 feet

0 160 320 640 Feet

AK Steel

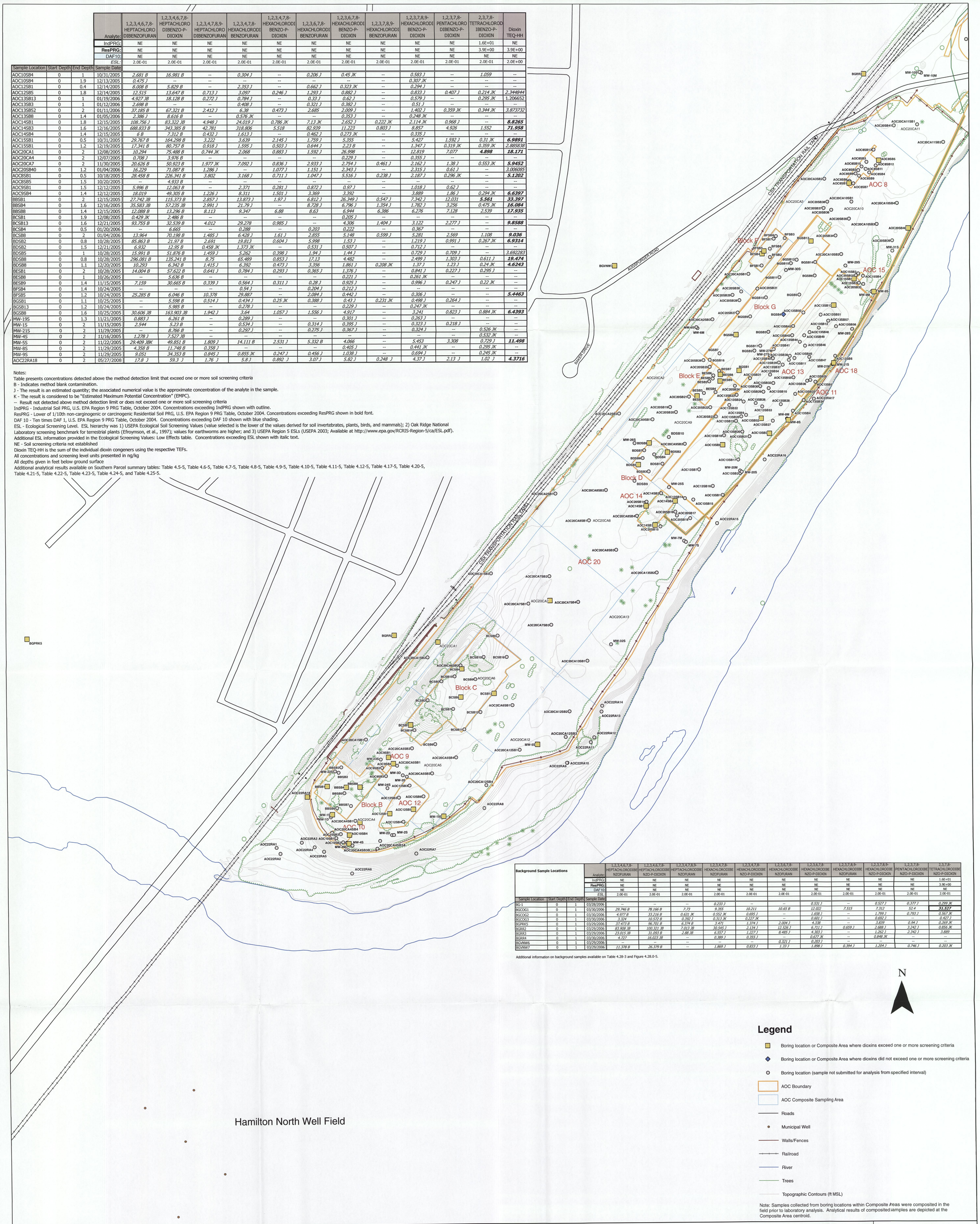
KEMRON ENVIRONMENTAL SERVICES

Figure 4.0.1-14

Project # MR0507
September 2008

Sample Location	Start Depth	End Depth	Sample Date	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	Dioxin TEQ-HH
			IndPRG:	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1.6E+01	NE
			ResPRG:	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	3.9E+00	3.9E+00
			DAF10:	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
			ESL:	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E+00
AOC10SB4	0	1	10/31/2005	*2.681 B*	*16.981 B*	--	*0.304 J*	--	*0.206 J*	*0.45 JK*	--	*0.583 J*	--	*1.059*	--
AOC10SB4	0	1.9	12/13/2005	*0.475 J*	--	--	--	--	--	--	--	*0.307 JK*	--	--	--
AOC12SB1	0	0.4	12/14/2005	*8.008 B*	*5.829 B*	--	*2.353 J*	--	*0.662 J*	*0.323 JK*	--	*0.294 J*	--	--	--
AOC12SB5	0	1.8	12/14/2005	*12.515*	*13.647 B*	*0.713 J*	*3.097*	*0.246 J*	*1.293 J*	*0.882 J*	--	*0.833 J*	*0.407 J*	*0.214 JK*	*2.344844*
AOC13SB13	0	1	01/19/2006	*4.927 JB*	*18.128 B*	*0.272 J*	*0.784 J*	--	*0.33 J*	*0.62 J*	--	*0.579 J*	--	*0.295 JK*	*1.206652*
AOC13SB3	0	1	01/12/2006	*2.698 B*	--	--	*0.408 J*	--	*0.321 J*	*0.382 J*	--	*0.51 J*	--	--	--
AOC13SB52	0	2	01/11/2006	*37.185 B*	*67.321 B*	*2.412 J*	*6.38*	*0.473 J*	*2.685*	*2.009 J*	--	*1.402 J*	*0.359 JK*	*0.344 JK*	*3.873732*
AOC13SB8	0	1.4	01/05/2006	*2.386 J*	*8.616 B*	--	*0.576 JK*	--	--	*0.353 J*	--	*0.248 JK*	--	--	--
AOC14SB1	0	1.8	12/15/2005	*108.756 J*	*83.322 JB*	*4.948 J*	*24.019 J*	*0.786 JK*	*7.13 JK*	*2.652 J*	*0.222 JK*	*2.114 JK*	*0.968 J*	--	***8.8265***
AOC14SB3	0	1.6	12/16/2005	*688.833 B*	*343.385 B*	*42.781*	*318.806*	*5.518*	*82.939*	*11.223*	*0.803 J*	*8.857*	*4.926*	*1.552*	***71.958***
AOC14SB4	0	1.4	12/15/2005	*6 B*	*7.312 B*	*0.432 J*	*1.613 J*	--	*0.462 J*	*0.273 JK*	--	*0.335 J*	--	--	--
AOC15SB1	0	0.5	10/31/2005	*29.767 B*	*164.298 B*	*3.222*	*3.639*	*2.145 J*	*1.759 J*	*5.355*	--	*5.427*	*1.592 J*	*0.31 JK*	***6.9891***
AOC15SB1	0	1.2	12/19/2005	*17.341 B*	*80.757 B*	*0.918 J*	*1.595 J*	*0.503 J*	*0.644 J*	*2.23 B*	--	*1.347 J*	*0.319 JK*	*0.359 JK*	*2.885838*
AOC20CA1	0	2	12/08/2005	*10.294*	*75.488 B*	*0.744 JK*	*2.068*	*0.883 J*	*1.592 J*	*26.998*	--	*12.819*	*7.077*	***4.898***	***18.171***
AOC20CA4	0	2	12/07/2005	*0.708 J*	*3.976 B*	--	--	--	--	*0.229 J*	--	*0.355 J*	--	--	--
AOC20CA7	0	2	11/30/2005	*20.626 B*	*50.923 B*	*1.977 JK*	*7.092 J*	*0.836 J*	*2.933 J*	*2.754 J*	*0.461 J*	*2.162 J*	*1.38 J*	*0.553 JK*	***5.9452***
AOC20SB40	0	1.2	01/04/2006	*16.229*	*71.087 B*	*1.286 J*	--	*1.077 J*	*1.151 J*	*2.343 J*	--	*2.315 J*	*0.61 J*	--	*3.006085*
AOC8SB1	0	0.5	10/18/2005	*28.458 B*	*226.341 B*	*3.802*	*3.168 J*	*0.711 J*	*1.047 J*	*5.516 J*	*0.238 J*	*2.187 J*	*0.296 JK*	--	***5.1202***
AOC8SB5	0	1.5	10/20/2005	--	*4.933 B*	--	--	--	--	--	--	--	--	--	--
AOC9SB1	0	1.5	12/12/2005	*5.996 B*	*12.063 B*	--	*2.371*	*0.281 J*	*0.872 J*	*0.97 J*	--	*1.018 J*	*0.62 J*	--	--
AOC9SB4	0	1.4	12/12/2005	*18.019*	*49.305 B*	*1.226 J*	*8.311*	*1.501 J*	*3.369*	*3.392*	--	*3.889*	*1.86 J*	*0.294 JK*	***6.6397***
BBSB1	0	2	12/15/2005	*27.742 JB*	*115.373 B*	*2.857 J*	*13.873 J*	*1.97 J*	*6.812 J*	*26.349 J*	*0.547 J*	*7.342 J*	*12.031*	***5.561***	***33.397***
BBSB4	0	1.6	12/16/2005	*35.583 JB*	*57.235 JB*	*2.991 J*	*21.79 J*	--	*8.728 J*	*6.796 J*	*1.354 J*	*1.782 J*	*3.256*	*0.475 JK*	***16.084***
BBSB8	0	1.4	12/15/2005	*12.088 B*	*13.296 B*	*8.113*	*9.347*	*6.88*	*8.63*	*6.944*	*6.386*	*6.276*	*7.128*	*2.539*	***17.935***
BCSB1	0	1.9	12/08/2005	*0.429 JK*	*2.486 B*	--	--	--	--	*0.205 J*	--	--	--	--	--
BCSB13	0	1.6	12/21/2005	*93.755 B*	*32.539 B*	*4.012*	*29.278*	*0.985 J*	--	*4.306*	*1.404 J*	*3.122*	*2.277 J*	--	***9.8588***
BCSB4	0	0.5	01/20/2006	--	*6.665*	--	*0.288*	--	*0.203*	*0.222*	--	*0.367*	--	--	--
BCSB8	0	2	01/04/2006	*13.964*	*70.198 B*	*1.485 J*	*6.428 J*	*1.61 J*	*2.855*	*5.148*	*0.599 J*	*5.281*	*2.569*	*1.108*	***9.036***
BDSB2	0	0.8	10/28/2005	*85.863 B*	*21.97 B*	*2.691*	*19.813*	*0.604 J*	*5.998*	*1.53 J*	--	*1.219 J*	*0.991 J*	*0.267 JK*	***6.9314***
BDSB2	0	1.5	12/21/2005	*6.932*	*12.95 B*	*0.458 JK*	*1.373 JK*	--	*0.531 J*	*0.507 J*	--	*0.712 J*	--	--	--
BDSB5	0	1	10/28/2005	*15.991 B*	*51.876 B*	*1.459 J*	*5.262*	*0.398 J*	*1.94 J*	*1.44 J*	--	*0.729 J*	*0.709 J*	--	*3.692283*
BDSB8	0	0.8	10/28/2005	*296.081 B*	*135.241 B*	*8.75*	*65.489*	*0.853 J*	*17.13*	*4.482*	--	*2.499 J*	*1.303 J*	*0.611 J*	***19.474***
BDSB8	0	1.1	12/20/2005	*10.293*	*6.342 B*	*1.415 J*	*6.392*	*0.473 J*	*3.356*	*1.861 J*	*0.208 JK*	*1.37 J*	*1.23 J*	*0.24 JK*	***4.6243***
BESB1	0	2	10/28/2005	*14.004 B*	*57.622 B*	*0.641 J*	*0.784 J*	*0.293 J*	*0.365 J*	*1.376 J*	--	*0.841 J*	*0.227 J*	*0.295 J*	--
BESB8	0	1	10/26/2005	--	*5.636 B*	--	--	--	--	*0.221 J*	--	*0.261 JK*	--	--	--
BESB9	0	1.4	11/15/2005	*7.159*	*30.665 B*	*0.339 J*	*0.564 J*	*0.311 J*	*0.28 J*	*0.925 J*	--	*0.996 J*	*0.247 J*	*0.22 JK*	--
BFSB4	0	1.4	10/24/2005	--	--	--	*0.54 J*	--	*0.204 J*	*0.212 J*	--	--	--	--	--
BFSB5	0	1.2	10/24/2005	*25.285 B*	*6.046 B*	*10.378*	*29.887*	--	*2.084 J*	*0.442 J*	--	*0.306 J*	--	--	***5.4463***
BGSB1	0	1.1	10/25/2005	--	*5.598 B*	*0.514 J*	*0.434 J*	*0.25 JK*	*0.388 J*	*0.43 J*	*0.231 JK*	*0.498 J*	*0.264 J*	--	--
BGSB13	0	1.2	10/24/2005	--	*5.985 B*	--	*0.278 J*	--	--	*0.229 J*	--	*0.247 JK*	--	--	--
BGSB8	0	1.6	10/25/2005	*30.606 JB*	*163.903 JB*	*1.942 J*	*3.64*	*1.057 J*	*1.556 J*	*4.917*	--	*3.241*	*0.823 J*	*0.884 JK*	***6.4393***
MW-19S	0	1.3	11/21/2005	*0.883 J*	*6.261 B*	--	*0.289 J*	--	--	*0.301 J*	--	*0.263 J*	--	--	--
MW-1S	0	2	11/15/2005	*2.544*	*5.23 B*	--	*0.534 J*	--	*0.314 J*	*0.395 J*	--	*0.323 J*	*0.218 J*	--	--
MW-21S	0	2	11/29/2005	--	*8.766 B*	--	*0.297 J*	--	*0.275 J*	*0.367 J*	--	*0.324 J*	--	*0.526 JK*	--
MW-4S	0	2	11/16/2005	*1.278 J*	*7.527 JB*	--	--	--	--	--	--	--	--	*0.532 JK*	--
MW-5S	0	2	11/22/2005	*29.409 JBK*	*49.851 B*	*1.809 J*	*14.111 B*	*2.531 J*	*5.332 B*	*4.066*	--	*5.453*	*3.308*	*0.729 J*	***11.498***
MW-8S	0	2	11/29/2005	*4.358 B*	*11.748 B*	*0.358 J*	--	--	--	*0.405 J*	--	*0.441 JK*	--	*0.295 JK*	--
MW-9S	0	2	11/29/2005	*9.051*	*34.353 B*	*0.845 J*	*0.855 JK*	*0.247 J*	*0.456 J*	*1.038 J*	--	*0.694 J*	--	*0.245 JK*	--
AOC22RA18	0	2	05/27/2008	*17.8 J*	*59.3 J*	*1.76 J*	*5.8 J*	*0.892 J*	*3.07 J*	*5.82 J*	*0.248 J*	*4.37 J*	*2.13 J*	*1.02 J*	***4.3716***

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
B - Indicates method blank contamination.
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
K - The result is considered to be "Estimated Maximum Potential Concentration" (EMPC).
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf).
Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
Dioxin TEQ-HH is the sum of the individual dioxin congeners using the respective TEFs.
All concentrations and screening level units presented in ng/kg
All depths given in feet below ground surface
Additional analytical results available on Southern Parcel summary tables: Table 4.5-5, Table 4.6-5, Table 4.7-5, Table 4.8-5, Table 4.9-5, Table 4.10-5, Table 4.11-5, Table 4.12-5, Table 4.17-5, Table 4.20-5, Table 4.21-5, Table 4.22-5, Table 4.23-5, Table 4.24-5, and Table 4.25-5.



Background Sample Locations			Analyte:	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
			IndPRG:	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1.6E+01
			ResPRG:	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	3.9E+00
			DAF10:	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
			ESL:	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01
Sample Location	Start Depth	End Depth	Sample Date											
BG-1	0	1	03/28/2006	--	--	--	*0.233 J*	--	--	*0.531 J*	--	*0.527 J*	*0.377 J*	*0.299 JK*
BGCOG1	0	1	03/30/2006	*29.746 B*	*78.166 B*	*7.73*	*9.355*	*10.211*	*10.65 B*	*12.022*	*7.515*	*7.312*	*52.4*	***31.527***
BGCOG2	0	1	03/30/2006	*4.977 B*	*33.216 B*	*0.631 JK*	*0.552 JK*	*0.695 J*	--	*1.658 J*	--	*1.799 J*	*0.793 J*	*0.567 JK*
BGCOG3	0	1	03/30/2006	*3.324*	*10.572 B*	*0.392 J*	*0.313 JK*	*0.227 JK*	--	*0.601 J*	--	*0.692 J*		*0.427 J*
BGPRK5	0	1	03/29/2006	*37.473 B*	*96.701 B*	*6.374 B*	*3.471*	*1.374 J*	*2.004 J*	*4.338*	--	*3.839*	*0.94 J*	*0.269 JK*
BGRR2	0	1	03/29/2006	*83.908 JB*	*100.321 JB*	*7.013 JB*	*30.545 J*	*2.134 J*	*12.526 J*	*6.711 J*	*0.659 J*	*2.688 J*	*3.242 J*	*0.856 JK*
BGRR3	0	1	03/29/2006	*23.015 JB*	*31.093 B*	*2.88 JB*	*6.557 J*	*1.227 J*	*8.485 J*	*4.303 J*	--	*1.262 J*	*2.342 J*	*3.889*
BGRR4	0	1	03/30/2006	*4.727*	*16.023 JB*	--	*0.389 J*	*0.355 J*	--	*0.677 JK*	--	*0.848 JK*	--	--
BGVNW6	0	1	03/29/2006	--	--	--	--	--	*0.321 J*	*0.203 J*	--	--	--	--
BGVNW7	0	1	03/29/2006	*11.378 B*	*26.379 B*	--	*1.869 J*	*0.833 J*	*1.33 J*	*1.898 J*	*0.394 J*	*1.204 J*	*0.746 J*	*0.203 JK*

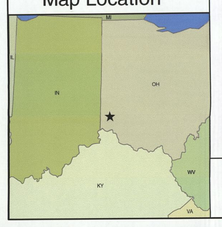
Additional information on background samples available on Table 4.28-3 and Figure 4.28.0-5.

Legend

- Boring location or Composite Area where dioxins exceed one or more screening criteria
- Boring location or Composite Area where dioxins did not exceed one or more screening criteria
- Boring location (sample not submitted for analysis from specified interval)
- AOC Boundary
- AOC Composite Sampling Area
- Roads
- Municipal Well
- Walls/Fences
- Railroad
- River
- Trees
- Topographic Contours (ft MSL)

Note: Samples collected from boring locations within Composite Areas were composited in the field prior to laboratory analysis. Analytical results of composited samples are depicted at the Composite Area centroid.

Map Location



Soil Dioxin Sample Locations and Screening Level Exceedances 0 - 2 ft bgs - Southern Parcel

AKSteel

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Figure 4.0.1-13

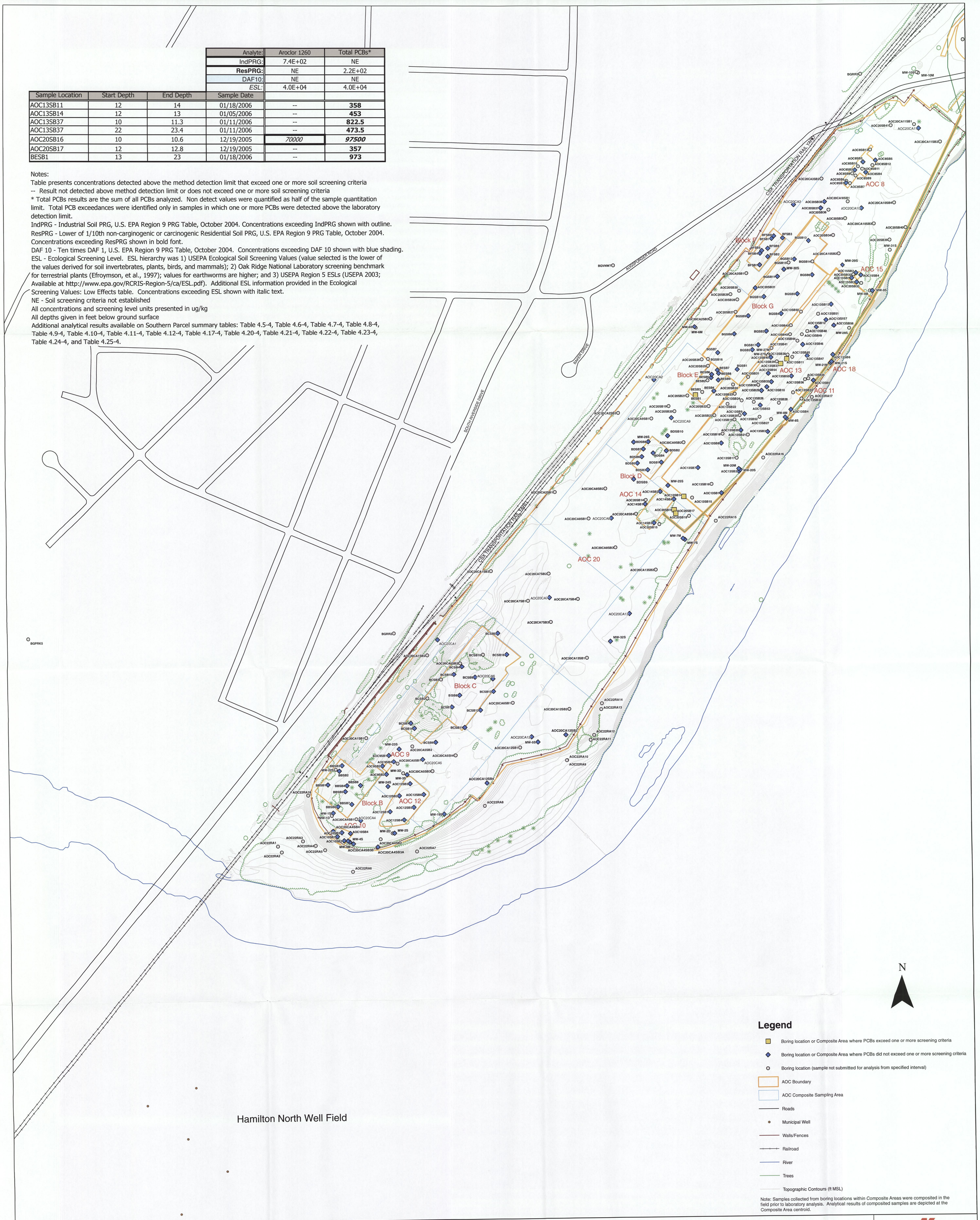
Scale: 1 inch equals 160 feet

0 160 320 640 Feet

Project # MR0507
September 2008

Sample Location	Start Depth	End Depth	Sample Date	Aroclor 1260	Total PCBs*
			IndPRG:	7.4E+02	NE
			ResPRG:	NE	2.2E+02
			DAF10:	NE	NE
			ESL:	4.0E+04	4.0E+04
AOC13SB11	12	14	01/18/2006	--	**358**
AOC13SB14	12	13	01/05/2006	--	**453**
AOC13SB37	10	11.3	01/11/2006	--	**822.5**
AOC13SB37	22	23.4	01/11/2006	--	**473.5**
AOC20SB16	10	10.6	12/19/2005	*70000*	***97500***
AOC20SB17	12	12.8	12/19/2005	--	**357**
BESB1	13	23	01/18/2006	--	**973**

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
* Total PCBs results are the sum of all PCBs analyzed. Non detect values were quantified as half of the sample quantitation limit. Total PCB exceedances were identified only in samples in which one or more PCBs were detected above the laboratory detection limit.
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in ug/kg
All depths given in feet below ground surface
Additional analytical results available on Southern Parcel summary tables: Table 4.5-4, Table 4.6-4, Table 4.7-4, Table 4.8-4, Table 4.9-4, Table 4.10-4, Table 4.11-4, Table 4.12-4, Table 4.17-4, Table 4.20-4, Table 4.21-4, Table 4.22-4, Table 4.23-4, Table 4.24-4, and Table 4.25-4.



Map Location

Soil PCB Sample Locations and Screening Level Exceedances >10 ft bgs - Southern Parcel

AK Steel

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Figure 4.0.1-12

Scale: 1 inch equals 160 feet

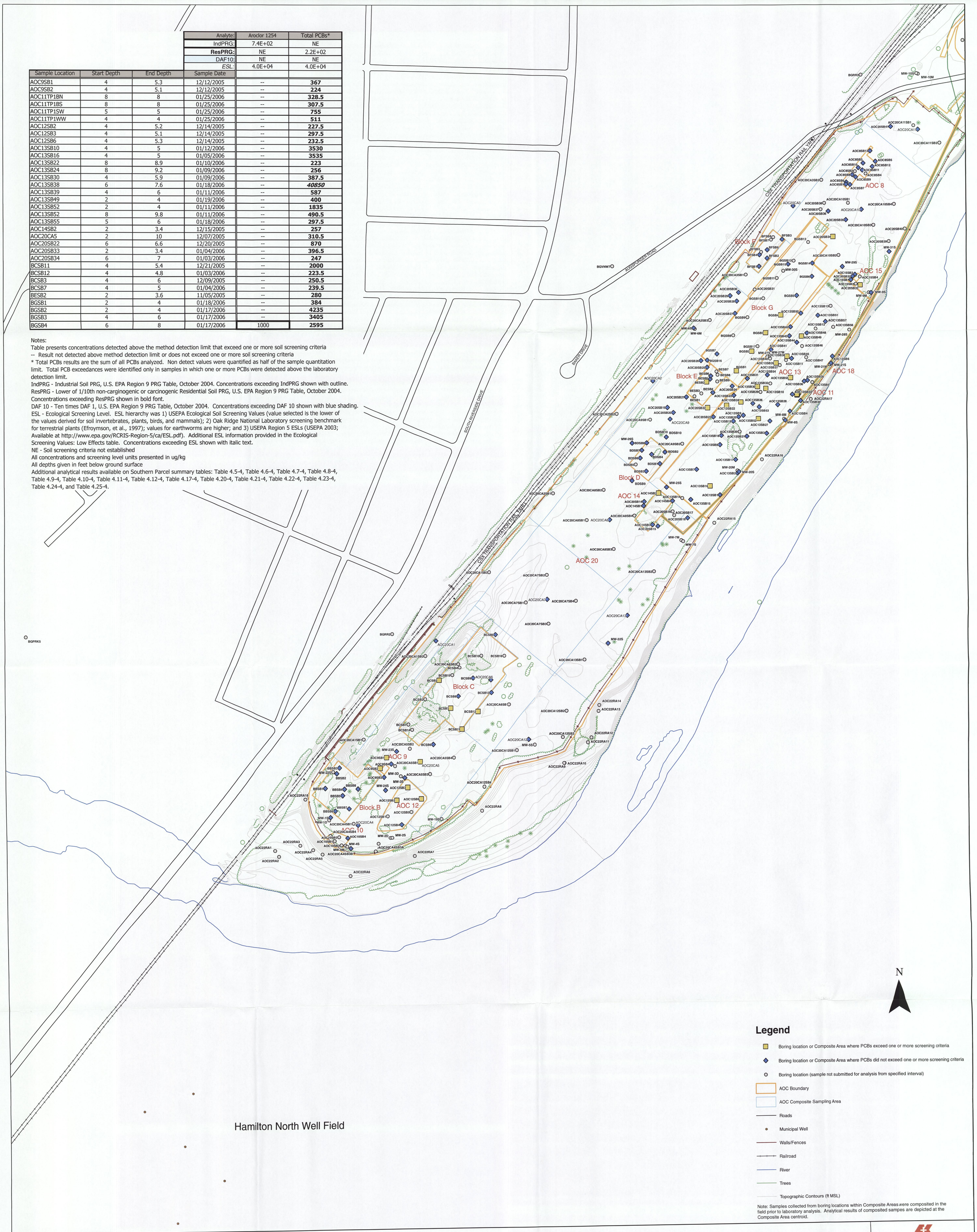
0 160 320 640 Feet

Project # MR0507
September 2008

Analyte:	Aroclor 1254	Total PCBs*
IndPRG:	7.4E+02	NE
ResPRG:	NE	2.2E+02
DAF10:	NE	NE
ESL:	4.0E+04	4.0E+04

Sample Location	Start Depth	End Depth	Sample Date		
AOC9SB1	4	5.3	12/12/2005	--	**367**
AOC9SB2	4	5.1	12/12/2005	--	**224**
AOC11TP1BN	8	8	01/25/2006	--	**328.5**
AOC11TP1BS	8	8	01/25/2006	--	**307.5**
AOC11TP1SW	5	5	01/25/2006	--	**755**
AOC11TP1WW	4	4	01/25/2006	--	**511**
AOC12SB2	4	5.2	12/14/2005	--	**227.5**
AOC12SB3	4	5.1	12/14/2005	--	**297.5**
AOC12SB6	4	5.3	12/14/2005	--	**232.5**
AOC13SB10	4	5	01/12/2006	--	**3530**
AOC13SB16	4	5	01/05/2006	--	**3535**
AOC13SB22	8	8.9	01/10/2006	--	**223**
AOC13SB24	8	9.2	01/09/2006	--	**256**
AOC13SB30	4	5.9	01/09/2006	--	**387.5**
AOC13SB38	6	7.6	01/18/2006	--	***40850***
AOC13SB39	4	6	01/11/2006	--	**587**
AOC13SB49	2	4	01/19/2006	--	**400**
AOC13SB52	2	4	01/11/2006	--	**1835**
AOC13SB52	8	9.8	01/11/2006	--	**490.5**
AOC13SB55	5	6	01/18/2006	--	**297.5**
AOC14SB2	2	3.4	12/15/2005	--	**257**
AOC20CA5	2	10	12/07/2005	--	**310.5**
AOC20SB22	6	6.6	12/20/2005	--	**870**
AOC20SB33	2	3.4	01/04/2006	--	**396.5**
AOC20SB34	6	7	01/03/2006	--	**247**
BCSB11	4	5.4	12/21/2005	--	**2000**
BCSB12	4	4.8	01/03/2006	--	**223.5**
BCSB3	4	6	12/09/2005	--	**250.5**
BCSB7	4	5	01/04/2006	--	**239.5**
BESB2	2	3.6	11/05/2005	--	**280**
BGSB1	2	4	01/18/2006	--	**384**
BGSB2	2	4	01/17/2006	--	**4235**
BGSB3	4	6	01/17/2006	--	**3405**
BGSB4	6	8	01/17/2006	1000	**2595**

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
* Total PCBs results are the sum of all PCBs analyzed. Non detect values were quantified as half of the sample quantitation limit. Total PCB exceedances were identified only in samples in which one or more PCBs were detected above the laboratory detection limit.
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in ug/kg
All depths given in feet below ground surface
Additional analytical results available on Southern Parcel summary tables: Table 4.5-4, Table 4.6-4, Table 4.7-4, Table 4.8-4, Table 4.9-4, Table 4.10-4, Table 4.11-4, Table 4.12-4, Table 4.17-4, Table 4.20-4, Table 4.21-4, Table 4.22-4, Table 4.23-4, Table 4.24-4, and Table 4.25-4.



Map Location

Soil PCB Sample Locations and Screening Level Exceedances 2 - 10 ft bgs - Southern Parcel

AK Steel

KEMRON ENVIRONMENTAL SERVICES

Figure 4.0.1-11

Scale: 1 inch equals 160 feet

0 160 320 640 Feet

Project # MR0507
September 2008

			Analyte:	Aroclor 1254	Total PCBs*
			IndPRG:	7.4E+02	NE
			ResPRG:	NE	2.2E+02
			DAF10:	NE	NE
			ESL:	4.0E+04	4.0E+04
Sample Location	Start Depth	End Depth	Sample Date		
AOC9SB1	0	1.5	12/12/2005	--	**250**
AOC9SB2	0	1.8	12/12/2005	--	**260**
AOC9SB3	0	1.8	12/12/2005	--	**283.5**
AOC12SB1	0	0.4	12/14/2005	--	**464.5**
AOC12SB2	0	1.3	12/14/2005	--	**353.5**
AOC12SB4	0	1.9	12/13/2005	--	**489.5**
AOC13SB1	0	2	01/05/2006	--	**3535**
AOC13SB10	0	1.9	01/12/2006	--	**15250**
AOC13SB2	0	0.6	01/12/2006	--	**287**
AOC13SB52	0	2	01/11/2006	--	**281**
AOC13SB53	0	1.7	01/12/2006	--	**2330**
AOC13SB54	0	1.6	01/17/2006	--	**272.5**
AOC13SB56	0	2	01/18/2006	--	**230**
AOC13SB6	0	1.1	01/18/2006	--	**240**
AOC13SB8	0	1.4	01/05/2006	--	**487.5**
MW-20S	0	1.6	11/28/2005	--	**336.5**
AOC14SB2	0	1.5	12/15/2005	--	**487**
AOC14SB3	0	1.6	12/16/2005	--	**257**
AOC15SB1	0	0.5	10/31/2005	--	**1900**
AOC15SB2	0	0.8	10/31/2005	--	**1770**
AOC15SB3	0	0.5	10/31/2005	--	**1255**
AOC15SB4	0	1	10/31/2005	--	**277**
AOC20CA1	0	2	12/08/2005	1100	**1740**
AOC20CA10	0	2	11/22/2005	--	**450.5**
AOC20CA5	0	2	12/07/2005	--	**503.5**
AOC20CA7	0	2	11/30/2005	--	**490.5**
AOC20CA8	0	2	11/29/2005	--	**552**
AOC20SB40	0	1.2	01/04/2006	--	**387**
MW-5S	0	2	11/22/2005	--	**367**
BBSB1	0	2	12/15/2005	3300	**8050**
BBSB3	0	1.7	12/16/2005	--	**312**
BBSB4	0	1.6	12/16/2005	--	**344**
BBSB5	0	2	12/15/2005	--	**260**
BBSB6	0	1.4	12/15/2005	--	**235**
BBSB8	0	1.4	12/15/2005	--	**406.5**
MW-22S	0	1	01/26/2006	--	**239.5**
BCSB10	0	2	01/03/2006	--	**330.5**
BCSB11	0	1.2	12/21/2005	--	**283**
BCSB13	0	1.6	12/21/2005	--	**330.5**
BCSB3	0	2	12/09/2005	--	**232.5**
BCSB6	0	1.5	01/04/2006	--	**2800**
BCSB8	0	2	01/04/2006	--	**1575**
BCSB9	0	2	01/03/2006	--	**250.5**
BDSB1	0	0.4	10/31/2005	--	**1935**
BDSB2	0	0.8	10/28/2005	--	**433.5**
BDSB5	0	1	10/28/2005	--	**454**
BDSB6	0	0.6	10/28/2005	--	**231.5**
BDSB7	0	0.8	10/28/2005	--	**229**
BDSB8	0	0.8	10/28/2005	--	**3440**
BFSB1	0	0.8	10/21/2005	--	**3210**
BFSB2	0	0.9	10/21/2005	--	**1395**
BFSB3	0	1	10/21/2005	--	**513.5**
BFSB5	0	1.2	10/24/2005	--	**1700**
BFSB6	0	0.9	10/24/2005	--	**300**
BFSB7	0	0.6	10/24/2005	--	**4940**
BGSB12	0	1	10/24/2005	--	**374**
BGSB7	0	1.2	10/25/2005	--	**376**
BGSB8	0	1.6	10/25/2005	--	**456**
AOC22RA1	0	0.5	05/29/2008	--	**327.9**
AOC22RA2	0	0.5	05/29/2008	--	**234.7**
AOC22RA3	0	0.5	05/29/2008	--	**845**
AOC22RA4	0	0.5	05/29/2008	1340	**1494.5**
AOC22RA5	0	0.5	05/29/2008	1580	**1740.5**
AOC22RA6	0	0.5	05/29/2008	--	**419.5**
AOC22RA7	0	0.5	05/29/2008	--	**1131.8**
AOC22RA8	0	0.5	05/29/2008	2150	**2311.7**
AOC22RA14	0	0.5	05/29/2008	--	**322.9**
AOC22RA15	0	0.5	05/29/2008	--	**370.6**
AOC22RA16	0	0.5	05/29/2008	--	**829.7**

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
* Total PCBs results are the sum of all PCBs analyzed. Non detect values were quantified as half of the sample quantitation limit. Total PCB exceedances were identified only in samples in which one or more PCBs were detected above the laboratory detection limit.
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in ug/kg
All depths given in feet below ground surface
Additional analytical results available on Southern Parcel summary tables: Table 4.5-4, Table 4.6-4, Table 4.7-4, Table 4.8-4, Table 4.9-4, Table 4.10-4, Table 4.11-4, Table 4.12-4, Table 4.17-4, Table 4.20-4, Table 4.21-4, Table 4.22-4, Table 4.23-4, Table 4.24-4, and Table 4.25-4.

N

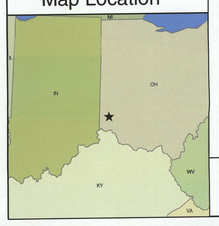
Legend

- Boring location or Composite Area where PCBs exceed one or more screening criteria
- Boring location or Composite Area where PCBs did not exceed one or more screening criteria
- Boring location (sample not submitted for analysis from specified interval)
- AOC Boundary
- AOC Composite Sampling Area
- Roads
- Municipal Well
- Walls/Fences
- Railroad
- River
- Trees
- Topographic Contours (ft MSL)

Note: Samples collected from boring locations within Composite Areas were composited in the field prior to laboratory analysis. Analytical results of composited sanples are depicted at the Composite Area centroid.

Hamilton North Well Field

Map Location



Soil PCB Sample Locations and Screening Level Exceedances 0 - 2 ft bgs - Southern Parcel

AK Steel

KEMRON ENVIRONMENTAL SERVICES

Figure 4.0.1-10

Scale: 1 inch equals 160 feet

0 160 320 640 Feet

Project # MR0507
September 2008

Sample Location	Start Depth	End Depth	Sample Date	Antimony	Arsenic	Barium	Cadmium	Chromium (total)	Cobalt	Copper	CYANIDE	Iron	Lead	Manganese	Mercury	Nickel	Potassium	Selenium	Thallium	Vanadium	Zinc
			IndPRG:	4.09E+02	1.59E+00	6.66E+04	4.51E+02	NE	1.92E+03	4.09E+04	1.23E+04	1.00E+05	8.00E+02	1.95E+04	NE	2.04E+04	2.00E+04	5.11E+03	6.75E+01	1.02E+03	1.00E+05
			ResPRG:	3.13E+01	3.90E-01	5.37E+03	3.70E+01	3.01E+01	9.03E+02	3.13E+03	1.22E+03	2.35E+04	4.00E+02	1.76E+03	NE	1.56E+03	1.60E+03	3.91E+02	5.16E+00	7.82E+01	2.35E+04
			DAF10:	3.00E+00	1.00E+01	8.20E+02	4.00E+00	2.00E+01	NE	NE	NE	NE	NE	NE	NE	7.00E+01	7.00E+01	3.00E+00	NE	3.00E+03	6.20E+03
			ESL:	2.70E-01	1.80E+01	3.30E+02	3.60E-01	2.60E+01	1.30E+01	2.80E+01	1.33E+00	NE	1.10E+01	5.00E+02	3.00E-01	2.80E+01	2.80E+01	1.00E+00	1.00E+00	7.80E+00	5.00E+01
AOC10SB1	16	17.6	12/13/2005	--	7.7	--	1.1	--	--	--	--	28100 J	40.3 J+	941	--	--	--	--	--	18.7	123 J+
AOC10SB1	24	25.2	12/13/2005	--	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.4	--
AOC10SB2	12	12.9	12/13/2005	--	11.6	--	--	--	--	45.2	--	--	87.2 J+	1280	3.8 J	--	--	8.8	--	23.2	63.0 J+
AOC10SB2	24	25.2	12/13/2005	--	--	--	--	--	--	--	--	--	--	--	--	--		1.6	--	--	--
AOC10SB3	16	18	12/13/2005	--	16.9	--	7.0	215	--	214	--	273000 J	--	6570	--	66.7		--	--	82.2	--
AOC10SB3	24	25	12/13/2005	--	--	--	--	--	--	--	--	--	--	--	--	--		1.8	--	--	--
AOC10SB4	24	25.3	12/13/2005	--	3.8	--	--	--	--	--	--	--	--	--	--	--		--	--	8.7	--
AOC12SB1	18	19.3	12/14/2005	--	1.1	--	--	24.6	--	--	2.81	--	12.0	4570	--	--		7.0 J	--	26.3	--
AOC12SB1	22	23.2	12/14/2005	--	3.0	395	--	21.4	--	--	--	--	42.0	5300	--	--		6.4 J	--	18.8	66.8 J
AOC12SB2	20	21.3	12/14/2005	--	4.9	--	--	--	--	--	4.34	--	20.7	686	--	--		5.7 J	--	--	616 J
AOC12SB3	22	23.3	12/14/2005	--	5.9	--	--	--	--	--	--	--	--	--	--	--		2.1 J	--	13.9	--
AOC12SB4	24	26	12/13/2005	--	5.7	--	--	--	--	--	--	--	--	--	--	--		1.5 J	--	13.4	--
AOC12SB5	16	17.6	12/14/2005	--	9.1	--	--	20.8	--	--	3.10	--	31.8	3610	--	--		--	--	17.9	133 J
AOC12SB5	20	21.6	12/14/2005	--	15.4	--	--	47.7	--	--	1.73	73700	290	2370	--	--		6.3 J	--	38.6	1190 J
AOC12SB6	10	11	12/14/2005	--	13.7	--	--	27.9	--	32.9	--	24800	40.4	1370	--	--		--	--	26.2	96.2 J
AOC13SB1	18	19.5	01/05/2006	--	7.2 J	--	--	--	--	--	--	--	--	--	--	--		--	--	25.9 J	--
AOC13SB10	18	20	01/12/2006	--	3.2	--	--	--	--	--	--	--	--	--	--	--		--	--	11.4	--
AOC13SB11	12	14	01/18/2006	--	7.4 J-	--	--	23.4	13.7	--	--	26800 J	16.1	--	--	--		2.8	--	34.7	109
AOC13SB11	18	19.8	01/18/2006	--	7.0 J-	--	--	--	--	--	3.50 J	--	11.6	529 J	--	--		--	--	24.2	60.0
AOC13SB12	19	20	01/19/2006	--	2.6	--	--	--	--	--	14.0	--	--	--	0.31	--		--	--	9.0	--
AOC13SB12	24	26	01/19/2006	--	6.7	--	--	--	--	--	--	--	--	--	--	--		--	--	18.0	--
AOC13SB13	16	17	01/19/2006	--	2.5	--	--	--	--	--	10.2	--	--	--	--	--		--	--	9.8	--
AOC13SB13	17	19	01/19/2006	--	6.3	--	--	--	--	--	--	--	--	--	--	--		--	--	17.7	--
AOC13SB14	12	13	01/05/2006	--	8.8 J	--	0.65	--	--	--	--	--	67.7	766 J	--	--		--	--	28.7 J	85.5 J
AOC13SB2	16	18	01/12/2006	--	8.0	--	--	--	--	--	--	--	--	538	--	--		--	--	26.4	59.9 J
AOC13SB20	10	11.4	01/06/2006	--	4.2 J	--	--	--	--	--	--	--	--	--	--	--		--	1.2	10.1 J	--
AOC13SB29	14	15.2	01/09/2006	--	6.5 J	--	--	--	--	--	--	--	--	671 J	--	--		2.4	1.5	8.3 J	--
AOC13SB3	14	16	01/12/2006	--	4.9	--	--	--	--	--	--	--	--	--	--	--		--	--	19.1	--
AOC13SB32	13	14	01/09/2006	--	3.6	--	--	--	--	--	--	--	--	--	--	--		--	1.1	9.9	--
AOC13SB37	10	11.3	01/11/2006	--	9.4 J	--	1.7	36.4 J	--	31.7 J+	29.7	25700 J	191 J	1560 J	0.58	--		2.3	--	22.2	209 J
AOC13SB37	22	23.4	01/11/2006	6.6 J	7.2 J	--	--	20.1 J	--	--	8.71	--	50.6 J	715 J	0.44	--		1.4	--	24.6	--
AOC13SB4	14	16	01/12/2006	--	5.0	--	0.69	--	--	--	--	--	18.1	--	--	--		17.1	--	30.5	50.9 J
AOC13SB40	12	13.4	01/16/2006	--	2.0 J-	--	--	--	--	--	235 J	--	--	--	--	--		--	--	--	--
AOC13SB46	12	13.9	01/18/2006	--	1.3 J-	--	--	--	--	--	25.4 J	--	--	--	--	--		--	--	8.0	--
AOC13SB47	18	19.4	01/17/2006	--	1.2 J-	--	--	--	--	--	18.3 J	--	--	--	0.55	--		--	--	--	--
AOC13SB5	14	15.5	01/10/2006	--	8.7 J	--	--	--	--	--	--	--	--	--	--	--		2.3	--	32.4	--
AOC13SB5	20	21.7	01/10/2006	--	5.9 J	--	--	--	--	--	--	--	--	--	--	--		--	--	21.8	--
AOC13SB53	16	17.2	01/12/2006	--	2.0	--	--	--	--	--	2.36 J-	--	--	--	--	--		--	--	9.6	--
AOC13SB54	18	19.1	01/17/2006	--	4.0 J-	--	--	29.7	--	298	15.1 J	--	79.1	--	--	37.9		--	--	18.7	--
AOC13SB55	14	16	01/18/2006	--	5.4 J-	--	--	--	--	--	--	--	--	--	--	--		--	--	13.3	--
AOC13SB56	16	18	01/18/2006	--	3.5 J-	--	--	--	--	--	2.63 J	--	--	--	--	--		1.4	--	12.0	--
AOC13SB56	24	26	01/18/2006	--	4.5 J-	--	--	--	--	--	--	--	--	--	--	--		--	--	17.0	--
AOC13SB6	20	21.6	01/18/2006	--	4.1	--	--	--	--	--	10.8 J	--	--	681 J	--	--		2.0	--	11.1	--
AOC13SB6	22	23.2	01/18/2006	--	5.2	--	--	--	--	--	1.56 J	--	--	--	--	--		--	--	13.3	--
AOC13SB7	14	15.1	01/05/2006	--	1.6 J	--	--	23.1 J	--	--	--	--	--	--	--	--		--	--	22.9 J	--
AOC13SB8	14	15.1	01/05/2006	--	3.4 J	--	--	--	--	--	9.63 J	--	--	--	--	--		--	--	13.0 J	--
AOC13SB9	14	16	01/12/2006	--	2.4	--	--	--	--	--	--	--	--	--	--	--		--	--	11.1	--
AOC14SB1	20	21.4	12/15/2005	--	4.4	--	--	--	--	--	--	--	--	--	--	--		3.0	--	13.7	--
AOC14SB2	16	17.4	12/15/2005	--	9.6	--	0.85	--	--	--	--	--	17.1	672 J	--	--		--	--	26.6	67.5
AOC14SB3	18	20	12/16/2005	--	6.7	--	0.69	--	--	--	--	--	--	--	--	--		3.0	--	14.6	--
AOC14SB4	20	22	12/15/2005	--	4.3	--	0.60	--	--	--	--	--	--	--	--	--		1.5	--	14.0	--
AOC15SB1	16	17.3	12/19/2005	--	--	--	--	--	--	--	20.0	--	--	--	--	--		2.5	--	7.9	--
AOC15SB2	16	18	12/19/2005	--	6.4	--	--	--	--	--	--	--	--	--	--	--		1.2	--	13.6	--
AOC15SB3	14	15.5	12/19/2005	--	2.0	--	--	--	--	--	--	--	--	--	--	--		1.4	--	--	--
AOC15SB3	18	20	12/19/2005	--	3.4	--	--	--	--	--	--	--	--	--	--	--		4.3	--	8.0	--
AOC15SB4	16	18	12/19/2005	--	5.7	--	--	--	--	--	8.33	--	--	--	--	--		--	--	15.7	--
AOC15SB4	18	19.3	12/19/2005	--	6.4	--	--	--	--	--	--	--	--	--	--	--		--	--	15.2	--
AOC20CA1	10		12/08/2005	--	13.2	--	--	--	--	--	--	--	--	725 J	--	--		--	--	9.3	--
AOC20CA10	10		11/22/2005	--	4.3	--	0.52	--	--	--	--	--	--	--	--	--		--	--	16.5	--
AOC20CA11	10		11/16/2005	--	4.5	--	--	--	--	--	--	--	--	--	--	--		--	--	11.1	--
AOC20CA12	10		12/08/2005	--	5.6	--	--	--	--	--	--	--	--	--	--	--		--	--	9.1	--
AOC20CA13	10		12/02/2005	--	3.3	--	--	--	--	--	--	--	--	--	--	--		5.3 J	--	17.5	--
AOC20CA2	10		11/18/2005	--	4.8 J	--	--	--	--	--	--	--	--	624	--	--		--	--	9.3	--
AOC20CA3	10		11/17/2005	--	3.8 J	--	--	--	--	--	--	--	--	--	--	--		--	--	17.0	--
AOC20CA4	10		12/07/2005	--	3.1	--	--	--	--	--	--	--	--	707 J	--	--		--	--	--	--
AOC20CA5	10		12/07/2005	--	3.6	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--
AOC20CA6	10		12/01/2005	--	4.0	--	--	--	--	--	--	--	--	--	--	--		2.7 J	--	8.5	--
AOC20CA7	10		11/30/2005	--	8.2	--	0.64	--	--	--	--	--	--	--	--	--		1.8 J	--	18.0	--
AOC20CA8	10		11/29/2005	--	5.1	--	--	--	--	--	--	--	--	518 J	--	--		2.2 J	--	17.1	--
AOC20CA9	10		11/22/2005	--	4.1	--	--	--	--	--	--	--	--	--	--	--		--	--	15.5	--
AOC20SB16	10	10.6	12/19/2005	--	23.6 J	--	6.6	115	--	610 J	9.61	--	3900 J-	--	6.0	--		3.0	--	13.4	4500 J-
AOC20SB17	12	12.8	12/19/2005	--	7.0 J	--	1.1	--	--	--	--	--	113 J-	670 J	0.38	--		2.0	--	22.9	209 J-
AOC20SB31	10	10.7	12/21/2005	--	5.0 J	--	--	--	--	--	--	--	--	--	--	--		3.0	--	--	--
AOC20SB37	12	13.4	01/03/2006	--	10.1 J	--	1.2	--	--	--	--	26300 J	14.4	866 J	--	--		--	--	23.5	58.1 J
AOC20SB38	10	11.4	01/03/2006	--	3.7 J	--	0.79	22.6 J	--	--	--	--	15.9	1810 J	--	--		2.2	--	22.6	50.8 J
AOC8SB1	16	16.5	10/18/2005	--	7.5	--	--	--	--	--	--	--	--	--	--	--		--	--	13.0	--
AOC8SB2	16	14.9	10/19/2005	--	9.6	--	0.61 J+	--	--	--	--	--	--	--	--	--		1.2	--	17.3	--
AOC8SB2	18	20	10/19/2005	--	5.4	--	0.57 J+	--	--	--	--	--	--	--	--	--		1.3	--	16.7	--
AOC8SB3	12	13.3	11/02/2005	--	3.4 J	--	--	--	--	--	--	--	20.3	--	--	--		--	--	9.3	--
AOC8SB4	10	11.5	11/02/2005	--	4.6 J	--	--	--	--	--	--	--	--	--	--	--		--	--	16.4	--
AOC8SB4	18	19.9	11/02/2005	--	6.1 J	--	--	--	--	--	--	--	20.6	--	--	--		--	--	17.9	--
AOC8SB5	12	13.2	11/02/2005	--	3.8 J	--	--	--	--	--	--	--	23.6	--	--	--		--	--	15.5	--
AOC9SB1	22	24	12/12/2005	--	4.2	--	--	--	--	--	--	--	--	--	--	--		2.9	--	9.2	--
AOC9SB2	18	20	12/12/2005	--	8.7	--	0.87	--	--	--	--	--	--	750	--	--		1.8	--	23.6	60.7 J
AOC9SB3	16	18	12/12/2005	--	2.8	--	--	--	--	--	--	--	--	--	--	--		--	--	9.1	--
AOC9SB4	22	23	12/12/2005	--	3.7	--	--	--	--	--	--	--	--	--	--	--		3.4	--	13.5	--
BBSB1	20	21.8	12/15/2005	7.2 J	7.6	--	--	--	--	--	--	--	--	546	--	--		--	--	20.5	--
BBSB2	18	20	12/16/2005	7.0 J	6.5	--	--	--	--	--	--	--	--	523	--	--		--	--	17.6	--
BBSB3	18	20	12/16/2005	6.9 J	4.6	--	--	--	--	--	--	--	--	503	--	--		1.5	--	14.4	--
BBSB4	12	13.1	12/16/2005	6.5 J	2.4	--	--	--	--	--	--	--	--	--	--	--		4.6	--	10.4	--
BBSB5	16	17.4	12/15/2005	--	11.2	--	--	--	--	30.2	--	25400	20.9	958	--	--		--	--	31.4	87.0
BBSB6	14	15.9	12/15/2005	6.8 J	8.2	--	--	--	--	--	2.67	--	11.6	--	--	--		--	--	25.8	59.5
BBSB7	14	14.9	12/15/2005	6.6 J	--	383 J	--	--	--	--	--	--	--	1830	--	--		5.3	--	8.2	--
BBSB8	16	17.1	12/15/2005	7.8 J	11.7	--	--	--	--	--	--	24700	16.6	726	--	--		--	--	32.1	75.9
BCSB1	14	15.9	12/08/2005	--	19.2	--	0.83	--	--	--	--	--	--	--	--	--		9.7	--	31.8	67.3
BCSB1	28	28.7	12/08/2005	--	6.7	--	--	--	--	--	--	--	--	--	--	--		4.4	--	13.9	--
BCSB11	22	23.6	12/21/2005	--	3.3	--	--	--	--	--	--	--	15.3	--	--	--		--	--	8.1	--
BCSB12	22	23.4	01/03/2006	--	5.5	--	--	--	--	--	--	--	--	--	--	--		--	--	9.9 J	--
BCSB13	22	23	12/21/2005	--	5.0	--	--	--	--	--	--	--	18.3	--	--	--		--	--	8.1	--
BCSB14	12	14	01/04/2006	--	7.9 J	--	--	--	--	--	--	--	--	834	--	--		--	--	34.0 J	67.0
BCSB15	20	26	01/20/2006	--	3.6 J	--	--	--	--	--	--	--	--	--	--	--		2.5	--	--	--
BCSB16	18	19.3	01/04/2006	--	1.7	--	--	--	--	--	--	--	--	--	--	--		--	--	10.7 J	81.0
BCSB4	30	32	01/20/2006	--	3.7 J	--	--	--	--	--	--	--	--	--	--	--		1.4	--	12.2	--
BCSB4	38	40	01/20/2006	--	5.6 J	--	0.56	--	--	--	--	--	--	--	--	--		1.7	--	16.2	--
BCSB5	44	46	01/24/2006	--	5.9 J+	--	--	--	--	--	--	--	--	--	--	--		1.5	--	18.8	--
BCSB6	22	23.2	01/04/2006	--	3.6	--	--	--	--	--	--	--	--	--	--	--		--	--	9.0 J	--
BCSB7	24	25.8	01/04/2006	--	4.3	--	--	--	--	--	--	--	--	--	--	--		--	--	9.5 J	--
BCSB8	22	23.4	01/04/2006	--	5.9	--	--	--	--	--	--	--	--	--	--	--		--	--	9.1 J	--
BCSB9	22	23	01/03/2006	--	5.9	--	--	--	--	--	--	--	--	--	--	--		--	--	8.5 J	--
BDSB1	16	17	12/21/2005	--	5.3	--	--	--	--	--	--	--	--	--	--	--		3.3	--	11.6	--
BDSB2	16	17.4	12/21/2005	--	2.3	--	--	--	--	--	--	--	--	--	--	--		2.2	--	11.7	--
BDSB3	16	17.4	12/21/2005	--	4.1	--	--	--	--	--	--	--	--	--	--	--		5.2	--	9.7	--
BDSB4	16	17.3	12/20/2005	--	2.4	--	--	--	--	--	--	--	--	--	--	--		6.6	--	--	--
BDSB5	12	14	12/20/2005	--	3.6	--	0.54	--	--	--	--	--	--	--	--	--		3.8	--	15.6	138
BDSB5	16	18	12/20/2005	--	2.9	--	--	--	--	--	--	--	--	--	--	--		3.5	--	9.2	--
BDSB6	16	17.8	12/20/2005	--	3.9	--	--	--	--	--	--	--	--	--	--	--		5.3	--	9.7	--
BDSB7	16	17	12/20/2005	--	3.5	--	--	--	--	--	--	--	--	--	--	--		4.2	--	--	--
BDSB8	18	20	12/20/2005	--	4.0	--	--	--	--	--	--	--	--	--	--	--		2.8	--	8.6	--
BESB4	18	20	01/18/2006	--	6.0	--	--	--	--	--	--	--	--	--	--	--		--	--	17.6	--
BESB5	10	11.1	11/15/2005	--	3.2	--	--	--	--	--	--	--	--	634 J	--	--		--	--	9.2	--
BESB6	10	11.1	11/14/2005	--	3.9	--	--	--	--	--	--	--	--	600 J	--	--		--	--	10.7	--
BESB7	14	15.3	11/14/2005	--	3.4	--	--	--	--	--	--	--	--	563 J	--	--		--	--	10.5	--
BESB7	20	21.8	11/14/2005	--	5.9	--	--	--	--	--	--	--	--	--	--	--		--	--	16.6	--
BESB8	12	13.5	11/14/2005	--	3.7	--	--	--	--	--	--	--	--	--	--	--		--	--	10.9	--
BESB8	20	22	11/14/2005	--	4.5	--	--	--	--	--	--	--	--	--	--	--		--	--	18.4	--
BESB9	20	21.8	11/15/2005	--	5.1	--	--	--	--	--	--	--	--	--	--	--		--	--	14.7	--
BFSB1	14	15.4	11/03/2005	--	4.1 J	--	--	--	--	--	--	--	22.0	--	--	--		--	--	10.1	--
BFSB2	12	12.4	11/03/2005	--	7.1 J	--	--	--	--	--	--	--	12.4	586 J	--	--		--	--	19.5	--
BFSB3	14	15	11/03/2005	--	3.6 J	--	--	--	--	--	--	--	17.8	--	--	--		--	--	10.9	--
BFSB4	16	17	11/04/2005	--	4.9	--	--	--	--	--	--	--	--	--	--	--		--	--	17.1	--
BFSB5	12	13.3	11/04/2005	--	3.4	--	--	--	--	--	--	--	--	--	--	--		--	--	8.5	--
BFSB5	14	15.3	11/04/2005	--	4.3	--	--	--	--	--	--	--	--	--	--	--		--	--	9.8	--
BFSB6	14	15.3	11/04/2005	--	3.7	--	--	--	--	--	--	--	--	--	--	--		--	--	9.4	--
BFSB7	14	15.5	11/07/2005	--	3.7	--	--	--	--	--	--	--	--	--	--	--		--	--	11.6	--
BFSB7	18	18.9	11/07/2005	--	4.8	--	--	--	--	--	--	--	--	--	--	--		--	--	18.2	--
BFSB8	16	17.2	11/07/2005	--	5.7	--	--	--	--	--	--	--	--	--	--	--		--	--	10.8	--
BFSB8	18	19.6	11/07/2005	--	7.3	--	--	--	--	--	--	--	--	--	--	--		--	--	20.1	--
BGSB1	14	16	01/18/2006	--	7.3	--	--	20.8	--	--	--	--	15.7 J	--	--	--		2.6	--	16.3	--
BGSB10	12	13.4	11/09/2005	6.9 J	6.5	--	--	--	--	--	1.38	--	16.9	501	--	--		--	--	21.4	56.7
BGSB10	18	19.2	11/09/2005	6.3 J	4.3	--	--	--	--	--	--	--	--	--	--	--		--	--	13.3	--
BGSB11	14	15	11/08/2005	--	3.3	--	--	--	--	--	--	--	--	--	--	--		--	--	9.1	--
BGSB11	18	19.2	11/08/2005	--	6.1	--	--	--	--	--	--	--	--	--	--	--		--	--	17.3	--
BGSB12	12	13.4	11/08/2005	--	3.0	--	--	--	--	--	--	--	--	--	--	--		--	--	11.2	--
BGSB12	20	20.9	11/08/2005	--	5.1	--	--	--	--	--	--	--	--	--	--	--		--	--	16.1	--
BGSB13	16	17	11/07/2005	--	4.3	--	--	--	--	--	--	--	--	--	--	--		--	--	10.2	--
BGSB13	18	19.3	11/07/2005	--	4.6	--	--	--	--	--	--	--	--	--	--	--		--	--	17.2	--
BGSB17	10	20	01/18/2006	--	2.5	--	--	--	--	--	--	--	--	--	--	--		--	--	--	--
BGSB2	18	20	01/17/2006	--	6.7	--	--	--	--	--	--	--	--	--	--	--		--	--	20.9	50.7 J
BGSB3	18	20	01/17/2006	--	4.8	--	--	--	--	--	2.25	--	--	--	--	--		--	--	13.9	--
BGSB4	16	18	01/17/2006	--	7.8	--	--	--	--	--	--	--	--	--	--	--		1.7	--	19.3	--
BGSB5	24	26	01/17/2006	--	8.8	--	--	68.6	--	--	--	26100 J	81.6 J	--	--	--		2.4	--	18.1	53.5 J
BGSB6	12	14	01/17/2006	--	6.4	--	--	--	--	--	--	--	--	--	--	--		1.9	--	19.2	--
BGSB7	18	20	11/10/2005	6.5 J	4.7	--	--	--	--	--	--	--	--	--	--	--		--	--	15.6	--
BGSB8	14	15.3	11/09/2005	6.1 J	2.6	--	--	--	--	--	5.33	--	--	--	--	--		--	--	9.0	--
BGSB8	16	17	11/09/2005	6.5 J	7.2	534	--	--	--	--	--	--	--	--	--	--		--	--	14.9	--
BGSB9	12	12.9	11/09/2005	7.0 J	6.4	--	--	--	--	--	--	--	--	531	--	--		--	--	16.2	--
BGSB9	16	17.3	11/09/2005	6.4 J	4.6	--	--	--	--	--	2.18	--	--	--	--	--		--	--	14.2	--
MW-19S	16	17.4	11/21/2005	--	4.6	--	--	--	--	--	--	--	--	--	--	--		--	--	14.7	--
MW-19S	22	23.1	11/21/2005	--	2.3	--	--	--	--	--	--	--	--	573	--	--		2.5	--	8.7	--
MW-1S	26	28	11/15/2005	--	4.6 J+	--	--	--	--	--	--	--	--	--	--	--		--	--	9.7	--
MW-20M	24	26	03/01/2006	--	7.5	--	--	--	--	--	--	--	--	--	--	--		--	--	17.2	--
MW-20S	14	15.5	11/28/2005	--	4.3 J	--	--	--	--	--	--	--	--	--	--	--		--	--	18.5	--
MW-20S	18	19.1	11/28/2005	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	17.4	--
MW-21M	22	24	03/07/2006	--	7.2	--	--	--	--	--	--	--	--	--	--	--		--	--	18.4	--
MW-21S	22	24	11/29/2005	--	4.4 J	--	1.9	--	--	--	5.62	--	--	--	--	--		--	--	15.9	484 J
MW-2S	16	18	11/16/2005	--	4.8 J+	--	--	--	--	--	--	--	--	--	--	--		--	--	14.7	--
MW-2S	22	24	11/16/2005	--	2.8 J+	--	--	--	--	--	--	--	11.1 J	--	--	--		--	--	14.1	68.3
MW-3S	18	20	11/18/2005	--	2.6 J+	--	--	--	--	--	--	--	--	--	--	--		--	--	8.1	--
MW-4M	42	43.2	02/28/2006	--	6.3	--	--	--	--	--	--	--	--	--	--	--		--	--	15.2	--
MW-4S	14	16	11/17/2005	--	6.7 J+	--	--	--	--	--	--	--	76.0 J	--	--	--		--	--	21.7	140
MW-4S	22	23.4	11/18/2005	--	8.0 J+	--	--	--	--	--	2.60	--	30.0 J	555 J	--	--		--	--	18.9	199
MW-5S	12	14	11/22/2005	--	3.0 J	--	--	--	--	--	--	--	--	--	--	--		--	--	10.2	--
MW-5S	20	22	11/22/2005	--	5.6 J	--	--	--	--	38.6 J	--	--	45.1 J	706 J	--	--		--	--	11.0	117 J
MW-6S	22	24	11/22/2005	--	7.9 J	--	--	--	--	--	--	--	--	742 J	--	--		--	--	11.6	--
MW-7M	32	33.4	02/28/2006	--	5.2	--	--	--	--	--	--	--	--	--	--	--		--	--	11.3	--
MW-7S	14	16	11/22/2005	--	11.1 J	--	--	--	--	--	2.03	--	18.9 J	--	0.32	--		--	--	28.6	73.0 J
MW-7S	24	26	11/22/2005	--	3.6 J	--	--	--	--	--	--	--	--	534 J	--	--		--	--	8.2	--
MW-8M	24	26	03/06/2006	--	7.3	--	--	--	--	--	--	--	--	--	--	--		--	--	17.5	--
MW-8S	20	22	11/29/2005	--	6.1 J	--	--	--	--	--	--	--	--	--	--	--		31.3	--	--	--
MW-9S	32	34	11/29/2005	--	3.7 J	--	--	--	--	--	--	--	--	--	--	--		--	--	14	--
AOC1CA6SB5	20	22	6/12/2008	--	2.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC13SB57	14	16	5/30/2008	--	2.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC20CA12SB3	12	14	6/10/2008	--	--	--	--	--	--	--	--	--	--	4910	--	--	--	--	--	--	--
AOC20CA12SB3	21		6/10/2008	--	2.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC20CA12SB4	12	14	6/10/2008	--	--	--	--	--	--	--	--	--	--	2570	--	--	--	--	--	--	--
AOC20CA12SB4	18	20	6/10/2008	--	7.57	--	--	--	--	--	--	--	--	--	--	--	--	5.81	--	--	--
AOC20CA4SB3A	18		6/10/2008	--	6.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC20CA4SB3A	20		6/10/2008	--	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC20CA4SB3B	21		6/9/2008	--	9.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC20CA4SB4	16	18	6/6/2008	--	0.484	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC20CA4SB4	22		6/6/2008	--	5.68	--	--	--	--	--	--	170000	--	2080	--	--	--	--	--	--	--
BDSB9	10	12	6/11/2008	--	2.32	--	--	--	--	--	--	--	--	--	--	--	321	--	--	13.9	--
BDSB9	14	16	6/11/2008	--	4.01	--	--	--	--	--	--	--	--	--	--	--	433	--	--	--	--
BDSB10	14	16	6/11/2008	--	3.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-23S-A	10	13	6/5/2008	--	20.8	--	--	--	--	--	--	--	--	--	--	--	2040	--	--	8.92	--
MW-23S-A	20	22	6/5/2008	--	2.75	--	--	--	--	--	--	--	--	--	--	--	415	--	--	--	--
MW-23S-B	10	12	6/5/2008	--	5.07	--	--	--	--	--	--	--	--	--	--	--	2480	--	--	--	--
MW-23S-B	19	20	6/5/2008	--	3.14	--	--	--	--	--	--	--	--	--	--	--	306	--	--	--	--
MW-24S	20	22	6/4/2008	--	4.49	--	--	--	--	--	--	--	--	--	--	--	221	--	--	--	68.1 J+
MW-25S	14	16	6/2/2008	--	9.63	--	--	--	--	--	--	49700	11.6	681	--	--	--	--	--	31.1	59
MW-25S	15	16	6/2/2008	--	3.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.3	--
MW-26S	14	16	6/2/2008	--	2.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-27M	20	22	6/13/2008	--	4.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.9	--
MW-27M	34	36	6/13/2008	--	1.73	--	--	--	--	--	--	--	--	--	--	--	--	11.2	--	--	--
MW-29S	14	16	5/28/2008	--	2.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW30S	10	12	5/29/2008	--	2.61	--	--	21.5	--	--	--	23600	16.8	--	--	--	--	--	--	26.1	102
MW30S	12	14	5/29/2008	--	4.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.7	52.9
MW32S	12	14	6/3/2008	--	2.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW32S	18	20	6/3/2008	--	3.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

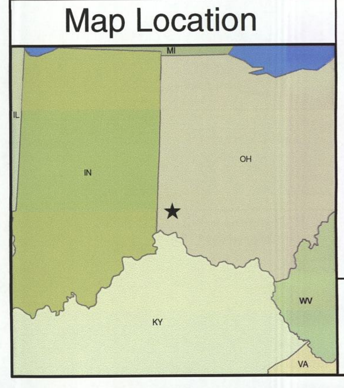
Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ - The result is an estimated quantity, but the result may be biased high.
J- - The result is an estimated quantity, but the result may be biased low.
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carcinogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in mg/kg
All depths given in feet below ground surface
Additional analytical results available on Southern Parcel summary tables: Table 4.5-3, Table 4.6-3, Table 4.7-3, Table 4.8-3, Table 4.9-3, Table 4.10-3, Table 4.11-3, Table 4.12-3, Table 4.17-3, Table 4.20-3, Table 4.21-3, Table 4.22-3, Table 4.23-3, Table 4.24-3, and Table 4.25-3.

Legend

- Boring location or Composite Area where metals exceed the DAF 10
- Boring location or Composite Area where metals exceed one or more screening criteria
- Boring location or Composite Area where metals did not exceed one or more screening criteria
- Boring location (sample not submitted for analysis from specified interval)
- AOC Boundary
- AOC Composite Sampling Area
- Roads
- Municipal Well
- Walls/Fences
- Railroad
- River
- Trees
- Topographic Contours (ft MSL)

Note: Samples collected from boring locations within Composite Areas were composited in the field prior to laboratory analysis. Analytical results of composited samples are depicted at the Composite Area centroid.

Map Location



Soil Metals Sample Locations and Screening Level Exceedances >10 ft bgs - Southern Parcel

Scale: 1 inch equals 160 feet

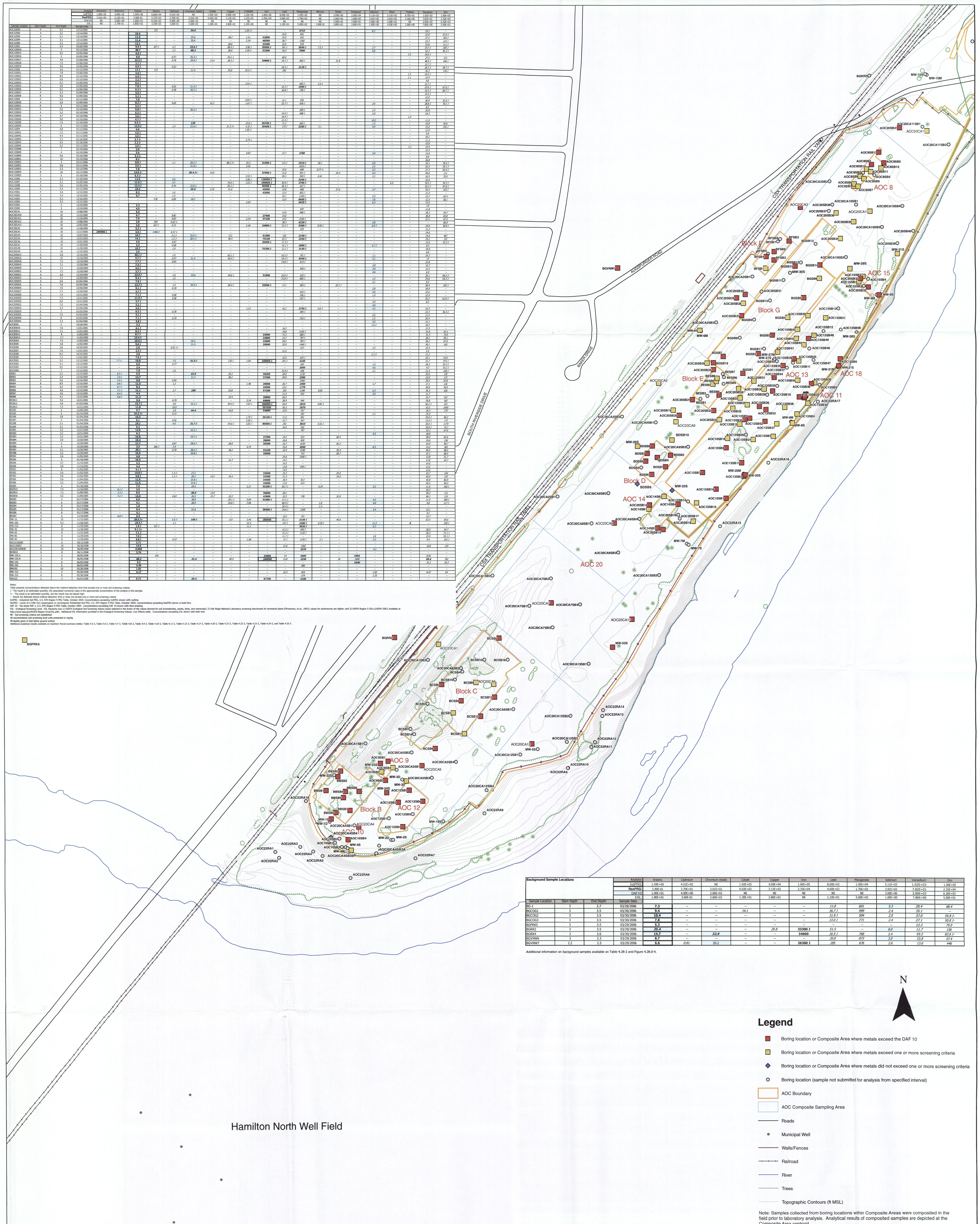
0 160 320 640 Feet

AK Steel

KEMRON ENVIRONMENTAL SERVICES

Figure 4.0.1-9

Project # MR0507
September 2008



Sample Location	Start Depth	End Depth	Sample Date	Aluminum	Antimony	Arsenic	Barium	Cadmium	Chromium (total)	Cobalt	Copper	CYANIDE	Iron	Lead	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Thallium	Vanadium	Zinc
			IndPRG:	1.00E+05	4.09E+02	1.59E+00	6.66E+04	4.51E+02	NE	1.92E+03	4.09E+04	1.23E+04	1.00E+05	8.00E+02	1.95E+04	NE	2.04E+04	2.00E+04	5.11E+03	5.11E+03	6.75E+01	1.02E+03	1.00E+05
			ResPRG:	7.61E+04	3.13E+01	3.90E-01	5.37E+03	3.70E+01	3.01E+01	9.03E+02	3.13E+03	1.22E+03	2.35E+04	4.00E+02	1.76E+03	NE	1.56E+03	1.60E+03	3.91E+02	3.91E+02	5.16E+00	7.82E+01	2.35E+04
			DAF10:	NE	3.00E+00	1.00E+01	8.20E+02	4.00E+00	2.00E+01	NE	NE	NE	NE	NE	NE	NE	7.00E+01	7.00E+01	3.00E+00	2.00E+01	NE	3.00E+03	6.20E+03
			ESL:	NE	2.70E-01	1.80E+01	3.30E+02	3.60E-01	2.60E+01	1.30E+01	2.80E+01	1.33E+00	NE	1.10E+01	5.00E+02	3.00E-01	2.80E+01	2.80E+01	1.00E+00	4.20E+00	1.00E+00	7.80E+00	5.00E+01
AOC10SB4	4	5.2	12/13/2005	--	--	--	331	--	34.0	--	--	1.69 J+	--	--	4710	--	--	--	8.3	--	--	19.2	--
AOC12SB2	4	5.2	12/14/2005	--	--	10.4	--	--	--	--	--	--	--	25.0	841	--	--	--	--	--	--	22.8	53.9 J
AOC12SB3	4	5.1	12/14/2005	--	--	11.0	--	--	25.6	--	28.2	1.41	32000	25.9	932	--	--	--	--	--	--	27.2	166 J
AOC12SB4	4	5.1	12/13/2005	--	--	11.4	--	--	20.4	--	--	2.34	48300	28.7	1360	--	--	--	--	--	--	23.3	123 J
AOC12SB6	4	5.3	12/14/2005	--	--	12.1	--	--	--	--	28.6	--	33300	25.9	979	--	--	--	--	--	--	23.8	111 J
AOC13SB1	4	5.4	01/05/2006	--	--	9.9 J	357 J	2.3	33.0 J	--	88.4 J	3.96 J	39900 J	341 J	3540 J	7.5 J	--	--	2.7	--	--	14.7 J	205 J
AOC13SB10	4	5	01/12/2006	--	--	38.7	--	1.3	68.2	--	28.9	1.49 J-	52300	43.4	7950	--	--	--	4.9	--	--	52.3	95.3 J
AOC13SB15	8	9.2	01/05/2006	--	--	4.6 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5	16.6 J	--
AOC13SB16	4	5	01/05/2006	--	--	6.8	--	0.57	25.3 J	--	44.1 J	--	--	69.0	--	--	--	--	--	--	--	27.5	111
AOC13SB17	4	4.9	01/06/2006	--	--	13.3 J	--	0.76	29.0 J	13.4	28.3 J	--	34800 J	19.1 J	803 J	--	31.8	--	--	--	--	48.9 J	106 J
AOC13SB18	6	7.4	01/06/2006	--	--	2.1 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.7 J	--
AOC13SB19	8	9.6	01/06/2006	--	--	9.0 J	--	0.63	--	--	--	--	--	18.4 J	2120 J	--	--	--	--	--	--	26.3 J	99.7 J
AOC13SB2	4	4.6	01/12/2006	--	--	17.1	372	--	21.4	--	95.8	55.9 J-	--	296	--	--	--	--	--	--	--	36.3	136 J
AOC13SB21	6	7.8	01/06/2006	--	--	3.5 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.5	10.2 J	--
AOC13SB22	8	8.9	01/10/2006	--	--	6.6 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.1	15.9	--
AOC13SB23	6	6.8	01/10/2006	--	--	3.2 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.8	--
AOC13SB24	8	9.2	01/09/2006	--	--	8.4 J	--	--	--	--	--	2.61 J	--	--	865 J	2.6 J	--	--	--	--	--	12.7 J	--
AOC13SB25	4	5.8	01/09/2006	--	--	7.8 J	--	0.65	21.4 J	--	--	--	--	16.3 J	1990 J	--	--	--	--	--	--	25.6 J	67.6 J
AOC13SB26	8	9.2	01/09/2006	--	--	9.2 J	--	0.58	20.2 J	--	--	--	--	18.8 J	758 J	--	--	--	--	--	--	32.5 J	60.7 J
AOC13SB27	4	5.2	01/09/2006	--	--	3.9 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.5 J	--
AOC13SB28	8	9.6	01/09/2006	--	--	3.2 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.0	--
AOC13SB3	4	5.2	01/12/2006	--	--	7.8	--	--	--	--	--	3.04 J-	--	11.1	545	--	--	--	--	--	--	30.9	52.6 J
AOC13SB30	4	5.9	01/09/2006	--	--	8.3 J	--	0.65	--	15.3	--	1.67 J	--	23.7 J	636 J	--	--	--	2.6	--	--	28.8 J	70.1 J
AOC13SB31	8	9	01/11/2006	--	--	3.3 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.3	--
AOC13SB33	4	5.5	01/10/2006	--	--	5.8 J	--	--	20.3 J	--	--	--	--	--	509 J	--	--	--	2.3	--	--	32.8	--
AOC13SB34	4	5.2	01/10/2006	--	--	6.3 J	--	--	--	--	--	--	--	14.9 J	698 J	--	--	--	2.0	--	--	24.3	--
AOC13SB35	4	4.7	01/10/2006	--	--	3.5 J	--	--	--	--	--	--	--	16.9 J	--	--	--	--	--	--	1.4	--	--
AOC13SB36	4	9.8	01/10/2006	--	--	4.7 J	--	--	--	--	--	--	--	12.4 J	--	--	--	--	10.3	--	--	11.9	--
AOC13SB38	6	7.6	01/18/2006	--	--	6.0 J-	--	--	126	--	--	23.8 J	96700 J	71.3	669 J	--	--	--	1.9	--	--	19.8	50.6
AOC13SB39	4	6	01/11/2006	--	--	12.9 J	--	1.4	23.0 J	--	31.3 J+	4.32 J	30400 J	170 J	3250 J	3.1	--	--	4.9	--	--	15.6	256 J
AOC13SB4	4	4.8	01/12/2006	--	--	4.6	--	--	--	--	--	1.95 J-	--	--	--	--	--	--	--	--	--	12.9	--
AOC13SB41	6	7.2	01/11/2006	--	--	3.6 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.8	--
AOC13SB42	8	9.4	01/11/2006	--	--	4.5 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.2	--
AOC13SB43	6	7.3	01/16/2006	--	--	3.7 J-	--	--	--	--	--	3.74 J	--	--	--	--	--	--	--	--	--	11.3	--
AOC13SB44	8	9.4	01/18/2006	--	--	2.2 J-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.8	--
AOC13SB45	4	5.2	01/11/2006	--	--	2.9 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.2	10.4	--
AOC13SB48	5	7	01/19/2006	--	--	2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.5	--
AOC13SB49	2	4	01/19/2006	--	--	3.6	--	--	--	--	--	4.83	--	27.7	2780	--	--	--	3.9	--	--	13.6	--
AOC13SB50	8	9.6	01/16/2006	--	--	3.2 J-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.6	--
AOC13SB51	9	10	01/19/2006	--	--	8.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	26.8	--
AOC13SB52	2	4	01/11/2006	--	--	8.8 J	--	1.1	26.2 J	--	68.3 J+	19.3	31500 J	115 J	1910 J	18.1	--	--	4.0	--	--	19.1	70.5 J
AOC13SB52	8	9.8	01/11/2006	--	--	3.5 J	--	--	21.0 J	--	--	4.45	--	--	1010 J	--	--	--	2.5	--	--	32.5	55.1 J
AOC13SB53	4	5.3	01/12/2006	--	--	7.8	--	--	--	--	--	--	--	15.6	600	0.77 J-	--	--	3.2	--	--	27.3	64.4 J
AOC13SB54	8	10	01/17/2006	--	--	13.5 J-	--	--	30.4 J+	14.0	--	--	37500 J	21.6	941 J	--	33.4	--	4.4	--	--	49.6	111
AOC13SB55	5	6	01/18/2006	--	--	6.4 J-	--	--	--	--	--	3.52 J	--	59.3	949 J	0.41	--	--	2.2	--	--	16.5	75.0
AOC13SB6	4	5.3	01/18/2006	--	--	12.0	--	5.6	--	--	--	2.86 J	125000 J	--	3240 J	--	--	--	--	--	--	16.6	--
AOC13SB7	4	5.1	01/05/2006	--	--	11.9 J	--	4.7	--	--	76.6 J	1.63 J	190000 J	30.8 J	2700 J	--	--	--	--	6.0	--	39.5 J	59.3 J
AOC13SB8	4	5.6	01/05/2006	--	--	12.4 J	--	0.94	22.8 J	--	85.3 J	--	40400 J	38.4 J	647 J	--	--	--	--	--	--	39.3 J	87.8 J
AOC13SB9	4	5.4	01/12/2006	--	--	18.4	--	--	35.6	13.8	31.6	--	45000	19.8	868	--	37.6	--	3.7	--	--	59.5	105 J
AOC14SB1	4	5.6	12/15/2005	--	--	8.2	--	1.6	--	--	--	--	43500	13.4	803 J	--	--	--	--	--	--	21.0	--
AOC14SB2	2	3.4	12/15/2005	--	--	6.7	--	1.0	--	--	--	--	--	43.1	1100 J	--	--	--	2.0	--	--	15.7	65.4
AOC14SB3	4	5.3	12/16/2005	--	--	--	539	0.89	29.2	--	--	--	--	22.0	8490 J	--	--	--	7.8	--	--	12.5	58.1
AOC14SB4	4	5.5	12/15/2005	--	--	--	--	--	--	--	--	2.69	--	--	4020 J	--	--	--	6.4	--	--	14.5	--
AOC15SB1	4	5	12/19/2005	--	--	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.9	--
AOC15SB2	4	5	12/19/2005	--	--	4.5	--	--	--	--	--	--	--	--	647	--	--	--	--	--	--	11.8	--
AOC20CA1	2	10	12/08/2005	--	--	6.6	--	--	--	--	--	--	--	12.6	668 J	--	--	--	--	--	--	18.3	54.7
AOC20CA10	2	10	11/22/2005	--	--	9.7	--	0.82	--	--	--	--	27400	15.6	--	--	--	--	--	--	--	30.0	83.8
AOC20CA11	2	10	11/16/2005	--	--	7.9	--	0.83	--	--	--	2.34	37100	14.5	1530 J	--	--	--	--	--	--	27.1	67.3
AOC20CA12	2	10	12/08/2005	--	--	2.8	395	0.63 J-	--	--	--	--	--	28.3	4220 J	--	--	--	5.8	--	--	--	66.0
AOC20CA13	2	10	12/02/2005	--	--	2.0	427 J	0.71	--	--	--	2.46	24800 J	23.2 J	5380 J	0.50 J	--	--	6.0 J	--	--	10.0	58.8 J
AOC20CA2	2	10	11/18/2005	--	--	3.3 J	--	--	--	--	--	--	--	--	523	--	--	--	--	--	--	11.2	--
AOC20CA3	2	10	11/17/2005	249000 J	--	4.8 J	1440 J	0.57 J-	--	--	--	--	--	--	--	--	--	--	--	--	--	19.6	--
AOC20CA4	2	10	12/07/2005	--	--	10.7	--	3.2 J-	22.9 J-	--	112	--	91000	150	2160 J	--	--	--	--	--	--	14.0	467
AOC20CA5	2	10	12/07/2005	--	--	14.1	--	1.5 J-	28.4 J-	--	48.4	--	70100	87.3	2340 J	--	--	--	--	--	--	29.2	152
AOC20CA6	2	10	12/01/2005	--	--	4.6	--	0.87	--	--	--	--	29600 J	17.3 J	--	--	--	--	--	--	--	13.6	55.3 J
AOC20CA7	2	10	11/30/2005	--	--	2.3	--	0.68	--	--	--	--	--	14.1 J	2980 J	--	--	--	4.7 J	--	--	8.5	--
AOC20CA8	2	10	11/29/2005	--	--	10.7	--	2.9	--	--	--	--	75300 J	13.1 J	3150 J	--	--	--	--	--	--	18.8	--
AOC20CA9	2	10	11/22/2005	--	--	2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.8	--
AOC20SB14	6	6.8	12/16/2005	--	--	30.1 J	--	1.0	--	--	65.1 J	--	--	16.5 J-	791 J	--	--	--	1.1	--	--	24.7	--
AOC20SB15	8	10	12/16/2005	--	--	9.7 J	--	0.97	21.4	--	40.4 J	--	--	18.4 J-	4540 J	--	--	--	5.1	--	--	14	--
AOC20SB18	6	7.2	12/19/2005	--	--	7.7 J	--	0.83	--	--	--	--	--	14.8 J-	614 J	--	--	--	--	--	--	22.8	--
AOC20SB19	6	7.1	12/20/2005	--	--	7.4 J	--	--	--	--	--	--	--	--	--	--	--	--	2.8	--	--	12.7	--
AOC20SB20	6	7.1	12/20/2005	--	--	4.6 J	--	--	--	--	--	--	--	--	550 J	--	--	--	3.9	--	--	12.2	--
AOC20SB21	6	7.2	12/20/2005	--	--	3.7 J	--	--	--	--	--	--	--	--	--	--	--	--	4.6	--	--	8.9	--
AOC20SB22	6	6.6	12/20/2005	--	--	22.0 J	--	1.6	25.6	--	34.6 J	--	31900	33.0 J-	533 J	--	--	--	--	--	--	35.1	99.2 J-
AOC20SB23	6	7.1	12/20/2005	--	--	9.4 J	--	1.2	--	--	--	--	--	21.8 J-	865 J	--	--	--	1.5	--	--	24.6	56.3 J-
AOC20SB24	6	6.9	01/04/2006	--	--	7.0 J	--	--	--	--	--	--	--	--	--	--	--	--	2.1	--	--	9.3	--
AOC20SB25	6	7.8	01/05/2006	--	--	12.7 J	--	1.5	25.9 J	--	28.4 J	--	33500 J	17.1	583 J	--	33.1 J	--	--	--	--	38.4	102 J
AOC20SB26	6	7.6	12/20/2005	--	--	9.1 J	--	0.70	--	--	--	--	--	--	--	--	--	--	2.8	--	--	18.0	--
AOC20SB27	6	7.2	12/20/2005	--	--	4.7 J	--	--	--	--	--	--	--	--	626 J	--	--	--	4.6	--	--	10.6	--
AOC20SB28	6	7.4	12/21/2005	--	--	7.1 J	--	0.68	--	--	--	--	--	--	546 J	--	--	--	1.9	--	--	15.9	--
AOC20SB29	6	7.3	12/21/2005	--	--	11.5 J	--	0.98	--	--	--	--	--	--	507 J	--	--	--	--	--	--	26.2	62.8 J-
AOC20SB30	6	6.9	12/21/2005	--	--	3.7 J	--	--	--	--	--	--	--	--	--	--	--	--	3.0	--	--	8.5	--
AOC20SB32	6	7.5	01/04/2006	--	--	3.2 J	--	--	--	--	--	--	--	--	--	--	--	--	4.8	--	--	--	--
AOC20SB33	2	3.4	01/04/2006	--	--	3.0 J	--	--	--	--	--	1.53	--	42.2	2730 J	5.8 J-	--	--	4.3	--	--	10.3	--
AOC20SB34	6	7	01/03/2006	--	--	9.3 J	--	0.78	--	--	--	--	--	--	584 J	--	--	--	--	--	--	23.3	56.4 J
AOC20SB35	6	7.5	01/03/2006	--	--	3.1 J	--	--	--	--	--	--	--	--	--	--	--	--	2.6	--	--	11.4	--
AOC20SB36	6	8	01/03/2006	--	--	7.1 J	--	0.70	--	--	--	--	--	--	543 J	--	--	--	1.5	--	--	20.4	--
AOC20SB41	6	7.3	01/04/2006	--	--	3.8 J	--	--	--	--	--	--	--	--	--	--	--	--	3.3	--	--	12.1	--
AOC8SB1	4	5	10/18/2005	--	--	3.2	--	--	--	--	--	--	--	--	--	--	--	--	1.6 J-	--	--	10.7	--
AOC8SB10	6	7.6	11/01/2005	--	--	4.1 J	--	--	--	--	--	--	--	16.3	--	--	--	--	--	--	--	17.2	--
AOC8SB11	6	7.1	11/01/2005	--	--	8.2 J	--	--	--	--	--	--	--	19.8	1530 J	--	--	--	--	--	--	31.6	67.1
AOC8SB12	6	8	11/02/2005	--	--	8.7 J	--	--	--	--	--	--	23900	13.3	680 J	--	--	--	--	--	--	31.3	73.5
AOC8SB13	6	7.7	11/03/2005	--	--	13.4 J	--	--	--	--	--	--	24800	14.7	797 J	--	--	--	--	--	--	28.1	59.1
AOC8SB3	6	7.5	11/02/2005	--	--	10.6 J	--	--	20.3	--	--	--	23600	20.2	783 J	--	--	--	--	--	--	36.2	67.0
AOC8SB5	4	5.8	11/02/2005	--	--	9.6 J	--	--	21.3	--	--	--	25000	33.9	1440 J	--	--	--	--	--	--	30.1	103
AOC8SB6	3	3.8	10/18/2005	--	--	2.8	--	0.92 J+	--	--	--	--	--	--	637	--	--	--	2.5	--	--	10.4	--
AOC8SB7	6	7.6	11/01/2005	--	--	2.3 J	--	--	--	--	--	--	--	21.0	--	--	--	--	--	--	--	9.4	--
AOC8SB8	7	8.2	10/19/2005	--	--	2.8	--	--	--	--	--	--	--	--	--	--	--	--	2.2 J-	--	--	11.2	--
AOC8SB9	6	7.3	11/01/2005	--	--	7.0 J	--	--	--	--	--	--	--	15.5	625 J	--	--	--	--	--	--	29.1	54.0
AOC9SB1	4	5.3	12/12/2005	--	7.7 J-	10.8	--	7.0	61.9 J	--	130 J	1.80	169000 J	201 J	4160	--	--	--	--	--	--	31.7	973 J
AOC9SB2	4	5.1	12/12/2005	--	--	6.9	--	0.77	--	--	--	--	--	--	695	--	--	--	1.6	--	--	18.3	55.3 J
AOC9SB3	8	9.5	12/12/2005	--	--	2.4	--	--	--	--	--	--	--	--	2000	--	--	--	4.6	--	--	9.5	53.2 J
AOC9SB4	6	7	12/12/2005	--	--	7.8	--	1.6	--	--	--	--	--	33.9 J	838	--	--	--	2.1	--	--	21.4	108 J
BBSB1	4	5.2	12/15/2005	--	6.9 J	9.9	--	--	43.9	--	29.3	--	38200	28.0	1230	--	--	--	--	--	--	20.0	130
BBSB2	4	5.4	12/16/2005	--	7.0 J	12.7	--	--	21.7	--	38.2	--	37300	59.9	2390	--	--	--	--	--	--	23.0	172
BBSB3	4	5.6	12/16/2005	--	7.0 J	6.8	--	0.95	--	--	--	--	--	--	1060	--	--	--	--	--	--	20.5	52.8
BBSB4	8	8.9	12/16/2005	--	6.8 J	11.5	--	1.2	--	--	--	1.48	29800	26.7	1900	--	--	--	1.7	--	--	17.1	126
BBSB5	6	6.5	12/15/2005	--	6.7 J	8.4	--	--	--	--	--	--	24500	23.2	1770	--	--	--	--	--	--	20.0	76.0
BBSB6	4	4.6	12/15/2005	--	7.1 J	11.1	--	2.7	105	--	53.8	--	57200	193	1290	0.92	--	--	5.3	--	--	76.3	526
BBSB7	4	4.6	12/15/2005	--	6.4 J	4.4	--	--	--	--	--	--	--	11.5	915	--	--	--	3.5	--	--	11.7	--
BBSB8	8	9.1	12/15/2005	--	6.8 J	11.2	--	--	--	--	37.4	--	29800	64.5	--	--	--	--	--	--	--	23.7	312
BCSB11	4	5.4	12/21/2005	--	--	9.6	--	0.79	--	--	--	3.34	69800	28.9	940	--	--	--	--	--	--	20.6	162
BCSB12	4	4.8	01/03/2006	--	--	72.7 J	--	4.0	25.2 J	--	84.4 J	7.07 J	184000 J	64.0	2010	0.82 J	--	--	--	--	--	56.2 J	521
BCSB13	6	7.4	12/21/2005	--	--	11.8	--	10.9	--	--	--	--	397000	56.3	2070	--	--	--	--	--	--	63.5	1040
BCSB3	4	6	12/09/2005	--	--	5.7	--	2.8	44.4	--	43.8	--	64800	32.8	767	--	--	--	--	--	--	18.3	275
BCSB5	4	6	01/24/2006	--	--	10.2 J+	--	0.72	--	--	--	--	--	--	592	--	--	--	2.1	--	--	25.0	--
BCSB6	4	4.8	01/04/2006	--	--	10.3	--	--	--	--	--	1.79 J	26100 J	11.5	891	--	--	--	--	--	--	29.6 J	68.2
BCSB7	4	5	01/04/2006	--	--	6.1	--	0.56	--	--	--	2.06 J	--	22.7	907	--	--	--	--	--	--	15.9 J	173
BCSB8	4	5.1	01/04/2006	--	--	19.1	--	4.6	31.7 J	--	64.6 J	3.83 J	80600 J	292	3810	0.52 J	--	--	--	--	--	30.5 J	1170
BCSB9	4	5.1	01/03/2006	--	--	9.2	--	--	--	--	--	--	--	16.5	502	--	--	--	--	--	--	29.9 J	74.7
BDSB1	4	5.5	12/21/2005	--	--	12.0	--	--	20.3 J	--	--	--	--	--	707	--	--	--	--	--	--	32.2	67.6
BDSB2	4	5.2	12/21/2005	--	--	6.2	--	--	--	--	--	--	--	--	--	--	--	--	4.3	--	--	18.8	--
BDSB3	4	5.2	12/21/2005	--	--	14.6	--	--	24.7 J	--	--	--	27300	14.2	523	--	28.4	--	--	--	--	40.0	81.6
BDSB4	2	3.9	12/20/2005	--	--	10.4	--	--	--	--	--	--	28600	16.6	830	--	--	--	--	--	--	24.6	156
BDSB4	4	5	12/20/2005	--	--	17.7	--	0.87	28.6 J	--	28.6	--	30300	15.7	1630	--	36.3	--	--	--	--	43.9	90.7
BDSB6	2	4	12/20/2005	--	--	3.5	366 J	7.4	--	--	--	4.74	--	15.0	4940	--	--	--	8.3	--	--	14.5	403
BDSB7	4	5.1	12/20/2005	--	--	20.1	--	0.70	28.5 J	--	28.2	--	33100	15.4	1590	--	39.4	--	--	--	--	49.5	98.5
BDSB8	4	5.3	12/20/2005	--	--	15.5	--	--	20.8 J	--	--	--	25000	--	715	--	28.7	--	--	--	--	37.1	68.5
BESB2	2	3.6	11/05/2005	--	--	4.8	--	--	--	--	--	--	--	25.6	1040 J	--	--	--	--	--	--	13.8	51.7
BESB4	5	6	01/18/2006	--	--	10.4	--	--	--	--	31.7	--	--	13.2	--	--	--	--	--	--	--	17.8	52.7
BESB5	4	5.7	11/14/2005	--	--	4.3	--	--	--	--	--	--	--	14.5	--	--	--	--	--	--	--	14.0	--
BESB6	4	5.8	11/14/2005	--	--	4.4	--	--	--	--	--	--	--	13.8	840 J	--	--	--	--	--	--	13.5	--
BFSB1	6	8	11/03/2005	--	--	4.1 J	--	--	--	--	--	--	--	14.5	--	--	--	--	--	--	--	12.6	--
BFSB2	4	5.6	11/03/2005	--	--	10.8 J	--	1.4 J-	27.2	--	--	--	33600	19.3	--	--	29.0	--	--	--	--	43.7	104
BFSB3	8	9.6	11/03/2005	--	--	9.8 J	--	1.5 J-	28.2	14.5	34.4	--	33300	21.3	--	--	34.0	--	--	--	--	50.0	125
BFSB4	4	5.6	11/04/2005	--	--	11.9	--	--	25.8 J	--	--	--	34400	18.4	813	--	--	--	--	--	--	40.8	86.9
BFSB6	4	5.2	11/04/2005	--	--	11.4	--	--	24.8 J	--	--	--	34900	17.6	673	--	--	--	--	--	--	40.3	90.4
BGSB1	2	4	01/18/2006	--	--	7.0	--	--	29.4	--	--	2.31	33200 J	83.7 J	--	0.34	--	--	5.2	--	--	11.6	160 J
BGSB14	6	7.4	11/10/2005	--	6.1 J	2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.3	--
BGSB15	6	7.3	11/09/2005	--	7.3 J	8.5	--	--	30.5	13.9	--	--	36600	20.1	--	--	--	--	--	--	--	39.2	111
BGSB16	4	5.5	11/09/2005	--	7.2 J	14.0	--	0.63	26.5	15.7	32.2	--	42600	22.5	778	--	32.9	--	--	--	--	40.1	115
BGSB2	2	4	01/17/2006	--	--	6.9	--	--	30.0	--	29.1 J	3.04	31600 J	17.1 J	--	--	--	--	4.3	--	--	11.4	180 J
BGSB3	4	6	01/17/2006	--	--	4.1	--	--	28.9	--	29.8 J	7.98	--	89.9 J	--	1.8	--	--	4.0	--	--	9.8	117 J
BGSB4	6	8	01/17/2006	--	--	1.6	--	--	--	--	--	--	--	32.4 J	--	1.3	--	--	--	--	--	--	--
BGSB5	4	6	01/17/2006	--	--	6.4	--	--	22.4	--	--	--	39500 J	24.6 J	1200	--	--	--	5.4	--	--	13.1	--
BGSB6	4	6	01/17/2006	--	--	4.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.1	--
BGSB7	4	6	11/10/2005	--	6.8 J	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.7	--
MW-1S	8	10	11/15/2005	--	--	28.5 J+	--	5.6 J-	169 J	--	153	3.46	185000	55.2 J	3150 J	--	40.6	--	--	--	--	63.5	69.6
MW-20S	8	9.2	11/28/2005	--	--	24.5 J	--	2.1	--	--	--	33.4	--	147 J	2280 J	0.39 J	--	--	11.3	--	6	--	258 J
MW-21S	6	8	11/29/2005	--	--	1.9 J	437 J	--	--	--	--	11.2	--	--	3830 J	--	--	--	6.3	--	--	--	--
MW-3S	8	10	11/18/2005	--	--	9.1 J+	--	--	--	--	--	--	--	12.5 J	850 J	--	--	--	--	--	--	28.0	64.7
MW-6S	6	8	11/22/2005	--	--	7.1 J	--	--	--	--	--	--	--	15.3 J	1120 J	--	--	--	--	--	--	28.3	71.1 J
MW-8S	6	8	11/29/2005	--	--	7.0 J	--	--	--	--	--	--	--	11.7 J	--	--	--	--	1.8	--	--	23.9	55.1 J
MW-9S	6	8	11/29/2005	--	--	6.8 J	--	0.57	--	--	--	1.98	--	27 J	1370 J	2 J	--	--	3.3	--	--	9.4	102 J
AOC1CA6SB5	4	6	06/12/2008	--	--	2.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC13SB57	8	10	05/30/2008	--	--	14.5	--	--	--	--	--	--	--	21.8	1560	--	--	--	--	--	--	10.8	125
AOC20CA4SB3B	8	10	06/09/2008	--	--	0.508	--	--	--	--	--	--	--	--	3370	--	--	--	4.1	--	--	--	--
BDSB10	6	8	06/11/2008	--	--	2.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-23S-A	3	5	06/05/2008	--	--	--	341	--	--	--	--	--	24600	14	4460	--	--	1990	--	--	--	8.92	--
MW-23S-B	4	6	06/05/2008	--	--	48.2	--	--	31.4	--	49.9	--	249000	15.8	2330	--	34	1400	--	--	--	99.6	391
MW-24S	6	8	06/04/2008	--	--	5.3	--	--	--	--	--	--	--	--	--	--	--	1940	--	--	--	21.1	55.7
MW-26S	4	6	06/02/2008	--	--	3.49	--	--	--	--	--	--	--	--	686	--	--	--	--	--	--	--	--
MW29S	8	10	05/28/2008	--	--	1.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-31S	2	4	05/28/2008	--	--	4.17	--	--	--	--	--	--	--	22.3	824	--	--	--	1.05	--	--	8.47	64
MW-31S	6	8	05/28/2008	--	--	--	--	--	--	--	--	--	--	--	679	--	--	--	2.35	--	--	--	--
MW32S	2	4	06/03/2008	--	--	9.71	--	--	55.4	--	--	--	87700	--	4180	--	--	--	--	--	--	--	--

Notes:
Table presents concentrations detected above the method detection limit that exceed one or more soil screening criteria
J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ - The result is an estimated quantity, but the result may be biased high.
-- Result not detected above method detection limit or does not exceed one or more soil screening criteria
IndPRG - Industrial Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding IndPRG shown with outline.
ResPRG - Lower of 1/10th non-carginogenic or carcinogenic Residential Soil PRG, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding ResPRG shown in bold font.
DAF 10 - Ten times DAF 1, U.S. EPA Region 9 PRG Table, October 2004. Concentrations exceeding DAF 10 shown with blue shading.
ESL - Ecological Screening Level. ESL hierarchy was 1) USEPA Ecological Soil Screening Values (value selected is the lower of the values derived for soil invertebrates, plants, birds, and mammals); 2) Oak Ridge National Laboratory screening benchmark for terrestrial plants (Efroymson, et al., 1997); values for earthworms are higher; and 3) USEPA Region 5 ESLs (USEPA 2003; Available at http://www.epa.gov/RCRIS-Region-5/ca/ESL.pdf). Additional ESL information provided in the Ecological Screening Values: Low Effects table. Concentrations exceeding ESL shown with italic text.
NE - Soil screening criteria not established
All concentrations and screening level units presented in mg/kg
All depths given in feet below ground surface
Additional analytical results available on Southern Parcel summary tables: Table 4.5-3, Table 4.6-3, Table 4.7-3, Table 4.8-3, Table 4.9-3, Table 4.10-3, Table 4.11-3, Table 4.12-3, Table 4.17-3, Table 4.20-3, Table 4.21-3, Table 4.22-3, Table 4.23-3, Table 4.24-3, and Table 4.25-3.

Background Sample Locations

Sample Location	Start Depth	End Depth	Sample Date	Arsenic	Cadmium	Chromium (total)	Cobalt	Copper	Iron	Lead	Manganese	Selenium	Vanadium	Zinc
			IndPRG:	1.59E+00	4.51E+02	NE	1.92E+03	4.09E+04	1.00E+05	8.00E+02	1.95E+04	5.11E+03	1.02E+03	1.00E+05
			ResPRG:	3.90E-01	3.70E+01	3.01E+01	9.03E+02	3.13E+03	2.35E+04	4.00E+02	1.76E+03	3.91E+02	7.82E+01	2.35E+04
			DAF10:	1.00E+01	4.00E+00	2.00E+01	NE	NE	NE	NE	NE	3.00E+00	3.00E+03	6.20E+03
			ESL:	1.80E+01	3.60E-01	2.60E+01	1.30E+01	2.80E+01	NE	1.10E+01	5.00E+02	1.00E+00	7.80E+00	5.00E+01
BG-1	3	3.7	03/28/2006	7.3	--	--	--	--	--	11.8	601	5.3	28.4	66.4
BGCOG1	3	3.5	03/30/2006	9.4	--	--	14.1	--	--	16.7 J	999	2.4	35.1	--
BGCOG2	3	3.5	03/30/2006	10.4	--	--	--	--	--	11.9 J	504	2.0	37.0	55.8 J-
BGCOG3	3	3.5	03/30/2006	7.8	--	--	--	--	--	13.0 J	771	2.4	27.1	50.8 J-
BGPRK5	3	3.5	03/29/2006	5.3	--	--	--	--	--	--	--	--	12.2	75.0
BGRR2	3	3.5	03/29/2006	35.4	--	--	--	29.8	33300 J	51.5	--	8.0	11.7	156
BGRR4	3	3.6	03/30/2006	14.7	--	32.9	--	--	34600	16.9 J	768	2.4	59.3	82.6 J-
BGVNW6	3	3.3	03/29/2006	8.7	--	--	--	--	--	20.8	873	3.0	33.8	57.4
BGVNW7	2.2	2.5	03/29/2006	6.6	0.81	20.2	--	--	26300 J	285	676	2.6	13.6	446

Additional information on background samples available on Table 4.28-2 and Figure 4.28.0-4.

Legend

- Boring location or Composite Area where metals exceed the DAF 10
- Boring location or Composite Area where metals exceed one or more screening criteria
- Boring location or Composite Area where metals did not exceed one or more screening criteria
- Boring location (sample not submitted for analysis from specified interval)
- AOC Boundary
- AOC Composite Sampling Area
- Roads
- Municipal Well
- Walls/Fences
- Railroad
- River
- Trees
- Topographic Contours (ft MSL)

Note: Samples collected from boring locations within Composite Areas were composited in the field prior to laboratory analysis. Analytical results of composited samples are depicted at the Composite Area centroid.

Map Location

Soil Metals Sample Locations and Screening Level Exceedances 2 - 10 ft bgs - Southern Parcel

Scale: 1 inch equals 160 feet

0 160 320 640 Feet

AK Steel

KEMRON ENVIRONMENTAL SERVICES

Figure 4.0.1-8

Project # MR0507
September 2008

US EPA RECORDS CENTER REGION 5
490501

DRAFT FINAL
REMEDIAL INVESTIGATION REPORT
FOR THE
FORMER ARMCO HAMILTON PLANT SITE
401 Augspurger Road, New Miami, Ohio

FIGURES
Figures 4.0.1-8 – 4.0.2-7

Volume 5 of 10

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ENVIRONMENTAL SERVICES

November 2008