

Appendix 5.C

Water Monitoring Results for the McDermott Sites

Date	Dissolved Al (mg/L)	Total Al (mg/L)	Dissolved As (mg/L)	Total As (mg/L)	Dissolved Ba (mg/L)	Total Ba (mg/L)	Dissolved Cd (mg/L)	Total Cd (mg/L)	Dissolved Ca (mg/L)	Total Ca (mg/L)	Dissolved Cr (mg/L)	Total Cr (mg/L)	Dissolved Cu (mg/L)	Total Cu (mg/L)	Dissolved Pb (mg/L)	Total Pb (mg/L)	Dissolved Mg (mg/L)	Total Mg (mg/L)	Dissolved Hg (mg/L)	Total Hg (mg/L)	Dissolved Ni (mg/L)	Total Ni (mg/L)	Dissolved Se (mg/L)	Total Se (mg/L)	Dissolved Ag (mg/L)	Total Ag (mg/L)	Dissolved Zn (mg/L)	Total Zn (mg/L)	
9/10/93		92.90																											
10/20/93		61.76																											
11/26/93		34.14																											
12/21/93		32.02																											
1/28/94		10.46																											
2/25/94		25.50																											
3/22/94																													
4/28/94		23.02																											
5/25/94		26.32																											
6/22/94		39.77																											
7/27/94		62.10																											
8/10/94		86.80																											
09/23/94		52.76																											
10/21/94		64.90																											
11/15/94		120.80																											
12/20/94		29.71																											
01/20/95		13.55																											
02/17/95		17.36																											
03/13/95		20.57																											
5/22/1995	38.40	40.40	0.0040	0.0040	0.022	0.024	0.0100	0.0100	28.70	30.20	0.050	0.050	0.057	0.057	0.0050	0.0051	28.10	29.30	0.0010	0.0010	0.389	0.403	< 0.007	< 0.007			0.544	0.562	
6/16/1995	50.70	51.30	0.0040	0.0040	0.019	0.020	0.0100	0.0100	41.70	42.20	0.050	0.050	0.064	0.071	0.0060	0.0060	37.20	37.20	0.0010	0.0010	0.585	0.585	< 0.007	< 0.007			0.708	0.708	
6/28/1995		50.73																											
9/22/1995		91.20																											
10/17/1995		104.70																											
10/17/95	107.00	107.00	0.0040	0.0040	0.012	0.012	0.0100	0.0100	68.40	66.30	0.050	0.066	0.137	0.138	0.0064	0.0064	68.20	66.50	0.0010	0.0010	1.050	1.010	< 0.007	< 0.007			1.400	1.360	
11/29/95	27.90	28.60	0.0040	0.0040	0.029	0.033	0.0100	0.0100	31.10	31.70	0.050	0.050	0.044	0.050	0.0035	0.0034	4.66	4.76	0.0010	0.0010	0.311	0.315	< 0.007	< 0.007	0.0100	0.410	0.416		
11/30/95		28.45																											
02/15/96		31.43																											
03/05/96		9.41																											
03/19/96		25.94																											
04/25/96		34.65																											
05/21/96		30.19																											
06/10/96		49.20																											
07/30/96		46.19																											
08/28/96	61.20	62.80	0.0040	0.0040	0.018	0.022	0.0200	0.0300	43.90	45.90	0.050	0.050	0.076	0.077	0.0056	0.0056	50.60	51.90	0.0010	0.0010	0.624	0.648	< 0.007	< 0.007	0.0100	0.848	0.886		
08/30/96		70.50																											
09/27/96		25.18																											
10/03/96		26.60																											
10/15/96		44.39																											
11/20/96		29.25																											
12/12/96	5.40	5.70	0.0040	0.0040	0.026	0.026	0.0100	0.0100	11.40	11.60	0.050	0.050	0.020	0.013	0.0012	0.0010	5.46	5.59	0.0010	0.0010	0.064	0.064	< 0.007	< 0.007	0.0100	0.088	0.088		
12/23/96		26.46																											
01/13/97		29.10																											
01/22/97		49.15																											
02/05/97		6.90																											
02/12/97		17.73																											
03/03/97		12.70																											
03/05/97	10.30	10.30	0.0040	0.0040	0.033	0.033	0.0100	0.0100	15.0	15.00	0.050	0.050	0.036	0.036	0.0021	0.0021	8.56	8.59	0.0010	0.0010	0.117	0.117	< 0.007	< 0.007	0.0100	0.150	0.150		

Bold Italic= less than detection limits

Appendix 5.C
 Laurel Land Development, Inc.
 McDermott Site

MD-2
 Inorganics
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Date	Flow (GPM) or Static Water Elevation (ft)	Field pH (Standard Units)	Lab pH (Standard Units)	Specific Conductivity (umhos/cm)	Alkalinity (mg/L)	Acidity (mg/L)	Iron (mg/L)	Mn (mg/L)	SO4 (mg/L)	Fluoride (mg/L)	Chloride (mg/L)	Sodium (mg/L)	Potassium (mg/L)	TDS (mg/L)	TSS (mg/L)	Ammonia Nitrogen (mg/L)	Nitrate Nitrogen (mg/L)	Bicarbonate (mg/L)	Turbidity (NTU)	Chemical Oxygen Demand (mg/L)
09/10/93	0.0	4.60	2.60	2980		1296	206.80	12.00	1664						2.7					
10/20/93	0.0	4.50	2.50	2260		974	134.90	8.46	1230						1.3					
11/26/93	2.8	2.60	2.50	1430		918	135.90	6.53	1003						0.3					
12/21/93	0.0	4.50	2.60	1900		1064	190.80	7.34	1162						0.3					
01/28/94	0.0	4.70	2.90	1140		400	66.45	3.38	613						0.7					
02/25/94	3.5	4.60	2.70	1780		748	138.50	5.04	919						1.0					
03/22/94	2.0	4.50	3.00	1110		386	73.40	2.62	526						0.7					
01/20/95	2.2	4.70	2.90	1100	0	486	75.81	4.26	520						4.3					
05/22/95			2.70	1965	0	794	118.00	6.91	258	0.30	1.00	0.58		2294	2.0	0.13	0.15			1.0
06/16/95			2.60	2461	0	1170	169.00	9.81	847	0.38	1.00	1.24		2974	12.0	0.17	0.11			1.0
08/14/95			2.50	2938	0	1562	225.00	12.50	1192	0.58	1.00	0.84		4240	2.0	0.42	0.40			1.0
10/17/95			2.50	2770	0	1566	242.00	15.70	1101	0.59	2.00	0.94		4134	2.0	0.35	0.004			1.0
11/29/95			3.40	460	0	94	1.37	2.02	112	0.20	2.00	0.86		342	2.0	0.02	0.37			0.1
11/30/95	23.0	4.70	3.30	478	0	100	1.41	1.93	141						0.3					

Bold Italic= less than detection limits

Appendix 5.C
 Laurel Land Development
 McDermott Site

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 Inorganics
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Date	Flow (GPM) or Static Water Elevation (ft)	Field pH (Standard Units)	Lab pH (Standard Units)	Specific Conductivity (umhos/cm)	Alkalinity (mg/L)	Acidity (mg/L)	Iron (mg/L)	Mn (mg/L)	SO4 (mg/L)	Fluoride (mg/L)	Chloride (mg/L)	Sodium (mg/L)	Potassium (mg/L)	TDS (mg/L)	TSS (mg/L)	Ammonia Nitrogen (mg/L)	Nitrate Nitrogen (mg/L)	Bicarbonate (mg/L)	Turbidity (NTU)	Chemical Oxygen Demand (mg/L)
05/22/95			3.90	727	0	136	0.23	10.70	254	0.45	1.00	1.06		396	22.0	0.02	0.11		1.0	
06/16/95	1.0		4.00	362	2	90	0.24	2.53	139	0.21	1.00	0.86		378	2.0	0.04	0.24		1.0	
08/14/95			6.50	386	38	0	0.51	0.02	226	0.20	2.00	0.96		374	8.0	0.02	0.11		1.7	
10/17/95			3.50	1215	0	300	20.02	28.30	568	0.60	2.00	1.68		1518	2.0	0.04	0.04		1.0	
11/29/95			4.10	309	5	54	0.19	4.40	85	0.27	1.00	0.69		242	2.0	0.02	0.07		0.2	
08/28/96	0.6	4.30	3.90	735	0	144	0.95	13.90	304	0.46	1.00	1.85		944	2.0	0.02	0.04		1.0	
12/12/96	35.0	4.50	4.20	199	6	42	0.12	2.32	57	0.20	1.00	0.12		192	2.0	0.02	0.20		1.0	
03/05/97	13.0	4.50	4.10	345	3	64	0.14	4.46	114	0.26	1.00	0.98		228	2.0	0.02	0.11		1.0	
06/25/97	1.0	4.70	4.10	576	6	104	0.29	9.30	259	0.43	1.00	1.36		664	14.0	0.02	0.10		1.0	
09/24/97	1.0	4.60	3.90	709	0	112	1.03	13.10	256	0.48	1.00	1.39		636	10.0	0.02	0.05		1.0	
12/17/97	4.0	4.40	4.20	456	7	80	0.20	8.88	126	0.33	8.00	1.45		372	2.0	0.07	0.16		1.0	
03/16/98	6.0	4.60	4.30	410	7	60	0.46	6.41	144	0.20	1.00	1.07		316	4.0	0.02	0.17		1.0	
06/25/98	9.5	4.30	4.00	419	3	66	0.27	5.96	179	0.32	1.00	1.19		434	2.0	0.02	0.04		1.0	
08/21/98	1.0	4.50	3.90	717	0	112	0.85	14.60	233	0.49	2.00	2.19		713	4.0	0.02	0.04		1.0	
03/29/99	30.0	4.60	4.10	270	4	42	0.29	3.00	85	0.22	1.00	0.86		224	2.0	0.02	0.04		1.0	
06/23/99	2.0	4.60	4.00	699	3	110	0.56	10.60	359	0.33	2.00	1.88		732	2.0	0.02	0.04		1.0	
09/30/99	1.0	4.50	3.80	653	0	106	0.80	13.60	316	0.38	2.00	1.92		534	2.0	0.02	0.04		1.0	
12/06/99	6.0	4.20	4.10	520	4	94	0.31	9.05	238	0.41	2.00	1.85		374	2.0	0.02	0.04		1.0	
03/06/00	6.0	4.30	4.20	435	5	66	0.13	6.92	161	0.32	2.00	1.52		414	6.0	0.02	0.04		1.0	
06/13/00	4.0	4.40	4.00	598	2	94	0.36	9.52	244		2.00	1.89		536	16.0					
09/28/00	2.0	4.20	3.90	701	0	112	0.76	13.20	321		3.00	2.45		762	18.0					
12/14/00	15.0	4.50	4.10	377	4	56	0.18	5.54	219					294	2.0					
03/16/01	13.0	4.30	4.20	255	0	38	0.14	3.43	96					180	16.0					
06/14/01	1.0	4.80	3.90	638	0	142	0.44	12.70	318		2.00	2.28		634	8.0					
09/18/01	1.0	4.50	3.70	902	0	165	2.13	19.10	220		3.00	3.17		974	2.0					
12/27/01	5.0	4.50	4.10	486	0	103	196.00	8.40	232		2.00	1.78		336	2.0					
03/23/02	8.0	4.50	4.20	335	0	89	110.00	4.80	129		2.00	1.35		262	6.0					
06/11/02	5.0	4.50	4.00	549	0	124	0.49	9.32	279		2.00	2.20		474	2.0					
09/24/02	0.1	4.00	3.60	907	0	183	1.95	17.80	425		3.30	3.35		1040	8.0					
12/18/02	4.5	4.00	4.10	477	0	112	0.21	7.34	239		2.40	1.97		440	2.0					
03/25/03	35.0	4.50	4.10	446	0	112	0.26	6.25	227		2.60	1.88		386	2.0					
05/28/03	2.4		4.00		1	96	<0.300	4.67	160											
06/09/03	11.1	4.20	4.10	241	0	66	0.12	3.04	88		1.70	1.12	1.00	240	2.0					
09/10/03	2.0	4.06	4.00	531	0	102	0.76	7.54	279		3.00	1.91	1.45	432	2.0					
11/17/03	5.0		3.60		0	174	3.55	14.50	476						10.0					

Bold Italic= less than detection limits

Date	Dissolved Al (mg/L)	Total Al (mg/L)	Dissolved As (mg/L)	Total As (mg/L)	Dissolved Ba (mg/L)	Total Ba (mg/L)	Dissolved Cd (mg/L)	Total Cd (mg/L)	Dissolved Ca (mg/L)	Total Ca (mg/L)	Dissolved Cr (mg/L)	Total Cr (mg/L)	Dissolved Cu (mg/L)	Total Cu (mg/L)	Dissolved Pb (mg/L)	Total Pb (mg/L)	Dissolved Mg (mg/L)	Total Mg (mg/L)	Dissolved Hg (mg/L)	Total Hg (mg/L)	Dissolved Ni (mg/L)	Total Ni (mg/L)	Dissolved Se (mg/L)	Total Se (mg/L)	Dissolved Ag (mg/L)	Total Ag (mg/L)	Dissolved Zn (mg/L)	Total Zn (mg/L)	
08/21/98	0.20	0.20	0.0040	0.0040	0.028	0.030	0.0100	0.0100	637.00	637.00	0.0500	0.0500	0.010	0.010	0.0010	0.0010	140.00	140.00	0.0010	0.0010	0.663	0.672	0.0070	0.0070		0.010	0.569	0.578	
12/14/98	0.20	0.70	0.0400	0.0400	0.017	0.017	0.0100	0.0100	590.00	630.00	0.0500	0.0500	0.010	0.010	0.0100	0.0100	97.00	103.00	0.0010	0.0010	0.304	0.316	0.0700	0.0700			0.119	0.136	
03/29/99	14.50	15.00	0.0400	0.0400	0.017	0.019	0.0180	0.0180	478.00	485.00	0.0500	0.0500	0.059	0.064	0.0100	0.0100	195.00	198.00	0.0010	0.0010	1.920	1.920	0.0700	0.0700		0.010	2.320	2.340	
06/23/99	0.20	0.20	0.0040	0.0040	0.021	0.021	0.0100	0.0100	464.00	472.00	0.0500	0.0500	0.010	0.010	0.0010	0.0010	106.00	108.00	0.0010	0.0010	0.638	0.648	0.0070	0.0070		0.010	0.615	0.624	
09/30/99	0.20	0.24	0.0040	0.0040	0.029	0.028	0.0100	0.0100	614.00	597.00	0.0500	0.0500	0.010	0.018	0.0010	0.0010	115.00	112.00	0.0010	0.0010	0.449	0.418	0.0080	0.0080	0.010	0.011	0.284	0.256	
12/06/99	0.20	0.20	0.0040	0.0040	0.024	0.025	0.0100	0.0100	568.00	629.00	0.0500	0.0500	0.010	0.010	0.0010	0.0010	109.00	120.00	0.0010	0.0010	0.403	0.412	0.0090	0.0110		0.010	0.250	0.256	
03/06/00	14.50	14.70	0.0040	0.0040	0.015	0.014	0.0100	0.0180	595.00	589.00	0.0500	0.0500	0.038	0.036	0.0040	0.0042	275.00	272.00	0.0010	0.0010	1.710	1.580	0.0080	0.0090	0.010	0.010	2.070	1.930	
06/13/00		4.80		0.0040				0.0100		506.00		0.0500		0.010		0.0012		160.00		0.0010		1.220		0.0070				1.350	
09/28/00		0.20		0.0040				0.0100		630.00		0.0500		0.010		0.0010		142.00		0.0010		0.579		0.0070				0.407	
12/14/00																													
03/16/01																													
06/14/01		3.80		0.0040				0.0100		571.00		0.0500		0.010		0.0010		183.00		0.0010		0.913		0.0070				0.896	
09/18/01		0.20		0.0053				0.0100		676.00		0.0500		0.010		0.0010		161.00		0.0010		0.528		0.0099				0.358	
12/27/01		6.70		0.0040				0.0100		526.00		0.0500		0.010		0.0015		236.00		0.0010		1.450		0.0095				1.580	
03/23/02		10.60		0.0040				0.0100		492.00		0.0500		0.020		0.0015		224.00		0.0010		1.370		0.0070				1.430	
06/11/02		11.50		0.0043				0.0100		570.00		0.0500		0.010		0.0015		247.00		0.0010		1.310		0.0140				1.380	
09/24/02		0.93		0.0040				0.0100		589.00		0.0500		0.010		0.0010		191.00		0.0010		0.639		0.0070				0.469	
12/18/02		11.60		0.0062				0.0100		488.00		0.0500		0.010		0.0030		208.00		0.0010		1.050		0.0234				1.220	
03/25/03		15.80		0.0040				0.0100		493.00		0.0500		0.013		0.0022		259.00		0.0010		1.520		0.0070				2.020	
06/09/03		13.80		0.0040				0.0100		466.00		0.0500		0.011		0.0017		247.00		0.0010		1.443		0.0070				2.185	
09/10/03		16.00		0.0040				0.0050		494.00		0.0500		0.010		0.0017		264.00		0.0010		1.450		0.0070				1.580	

Appendix 5.C
 Laurel Land Development
 McDermott Site

MW-2
 Inorganics
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Date	Flow (GPM) or Static Water Elevation (ft)	Field pH (Standard Units)	Lab pH (Standard Units)	Specific Conductivity (umhos/cm)	Alkalinity (mg/L)	Acidity (mg/L)	Iron (mg/L)	Mn (mg/L)	SO4 (mg/L)	Fluoride (mg/L)	Chloride (mg/L)	Sodium (mg/L)	Potassium (mg/L)	TDS (mg/L)	TSS (mg/L)	Ammonia Nitrogen (mg/L)	Nitrate Nitrogen (mg/L)	Bicarbonate (mg/L)	Turbidity (NTU)	Chemical Oxygen Demand (mg/L)
07/18/95			5.60	96	12.2	120.0	2.12	0.22	28	0.20	2.00	0.55		74	96.0	0.05	0.96	0	59.5	
08/08/95			5.30	76	11.0	6.6	2.01	0.26	65	0.20	1.00	0.36		40	40.0	0.02	0.28	0	14.6	
10/17/95			5.30	94	10.8	32.0	3.75	0.53	32	0.20	1.00	0.47		94	2.0	0.06	0.11	0	1.0	
11/29/95			5.00	95	10.8	10.4	0.19	0.25	68	0.20	3.00	0.68		72	6.0	0.02	1.00	0	0.6	
05/17/96	2263.1	5.00	4.90	184	9.0	10.4	0.36	0.60	105	0.20	2.00	0.68		130	22.0	0.02	0.68		6.7	
08/28/96	2263.2	4.70	4.50	564	7.8	40.0	2.27	7.28	252	0.20	2.00	1.11		582	12.0	0.02	0.35		6.2	
12/12/96	2269.4	4.60	3.50	1212	0.0	150.0	16.80	14.40	427	0.23	4.00	2.61		1100	220.0	0.21	1.17		160.0	
03/05/97	2270.4	4.60	3.30	1316	0.0	210.0	40.80	29.70	538	0.27	5.00	3.56		1178	2.0	0.16	0.35		15.7	
06/26/97	2268.1	4.50	3.40	208	0.0	458.0	119.00	44.60	1080	0.44	8.00	6.28		2460	36.0	0.31	0.04		8.4	
09/29/97	2270.5	4.70	3.40	2140	0.0	344.0	81.80	34.80	656	0.31	10.00	9.23		2202	76.0	0.34	0.47		13.9	
12/17/97	2271.3	4.00	3.50	2480	0.0	392.0	99.20	42.80	1420	0.33	11.00	9.77		2802	6.0	0.47	0.17		3.0	
03/16/98	2271.8	4.40	3.30	2440	0.0	310.0	120.00	43.00	1440	0.44	10.00	7.57		2606	24.0	0.31	0.35		6.1	
06/25/98	2271.3	4.20	3.30	2580	0.0	402.0	164.00	50.50	1500	0.45	15.00	9.12		3042	20.0	0.28	0.14		3.4	
08/21/98	2269.2	4.70	3.60	2660	0.0	384.0			1300	0.45	20.00			3163	16.0	0.35	0.04		4.2	
12/14/98	2266.6	4.00	3.50	2310	0.0	310.0	121.00	38.90	1506	0.32	20.00	9.48		2280	4.0	0.55	0.04		4.9	
03/29/99	2271.8	4.20	3.20	2010	0.0	196.0	51.10	22.30	1150	0.23	10.00	6.08		1808	20.0	0.19	0.49		4.2	
06/23/99	2268.6	4.20	3.50	2720	0.0	350.0	158.00	42.60	1815	0.31	23.00	12.70		3090	2.0	0.33	0.04		1.8	
09/30/99	2268.5	4.20	3.40	2290	0.0	290.0	130.00	33.70	1280	0.23	20.00	11.70		2502	2.0	0.22	0.09		18.9	
12/06/99	2269.3	4.00	3.40	2360	0.0	326.0	117.00	30.10	1380	0.32	21.00	12.90		2114	10.0	0.43	0.04		2.4	
03/06/00	2267.1	4.00	3.40	2740	0.0	306.0	113.00	38.30	1370	0.38	22.00	15.30		2628	30.0	0.27	0.04		5.9	
06/13/00	2267.0	4.60	3.40	2840	0.0	384.0	147.00	40.30	1930		24.00	14.40		2982	36.0					
09/28/00	2266.9	4.00	3.70	2510	0.0	338.0	177.00	36.90	1520		23.00	13.10		2836	28.0					
12/14/00	2267.3	4.00	3.60	2470	0.0	336.0	143.00	33.40	1360					2344	10.0					
03/16/01	2269.5	4.30	3.40	2200	0.0	280.0	112.00	31.20	970					2224	46.0					
06/14/01	2267.2	4.70	3.50	2470	0.0	344.0	164.00	37.40	1548		25.00	12.30		2796	32.0					
09/18/01	2266.0	4.00	3.70	2700	0.0	419.2	164.00	37.80	1590		39.00	17.80		3188	2.0					
12/27/01	2269.0	4.50	3.70	2320	0.0	294.0	116.00	24.60	1610		20.00	11.00		2484	6.0					
03/23/02	2269.4	4.50	3.50	2050	0.0	325.4	112.00	25.70	1192		11.00	8.16		2034	48.0					
06/11/02	2268.6	4.70	3.70	2370	0.0	364.0	151.00	31.80	1548		15.00	10.60		2696	2.0					
09/24/02	2267.1	4.50	3.60	2890	0.0	380.0	143.00	37.40	1951		59.70	26.60		3478	18.0					
12/18/02	2268.4	4.00	3.70	2430	0.0	330.4	147.00	32.30	1689		19.60	13.50		3066	22.0					
03/25/03	2269.9	4.00	3.40	1869	0.0	262.4	78.00	21.20	1130		7.70	6.63		1824	4.0					
06/09/03	2269.8	3.50	3.50	2060	0.0	275.8	92.00	23.63	1244		10.20	24.10	11.00	2432	28.0					
09/10/03	2269.6	3.73	3.50	2280	0.0	264.0	102.00	29.00	1332		11.40	9.58	13.30	2714	38.0					

Bold Italic= less than detection limits

