Annex B

Tables

Location	AEC	Location Type	X Coordinate (GDA 94)	Y Coordinate (GDA 94)	Elevation (mAHD)	Survey method
LA_MW01	LA	Monitoring Well	309564.706	6416231.666	137.46	Surveyed
LA_MW02	LA	Monitoring Well	309594.554	6416220.73	136.12	Surveyed
LA_MW03	LA	Monitoring Well	309590.615	6416241.646	137.14	Surveyed
LA_SB01	LA	Soil Bore	309578	6416220	-	GPS
LA_SB02	LA	Soil Bore	309595	6416251	-	GPS
LB_EW_MW01	LB	Existing Well	308010	6417015	-	GPS
LB_MW01	LB	Monitoring Well	306537.819	6418183.352	191.00	Surveyed
LB_MW02	LB	Soil Bore	305818	6417797	-	GPS
LB_MW03	LB	Monitoring Well	305751.574	6417245.508	175.48	Surveyed
LB_MW04	LB	Soil Bore	305859	6416563	-	GPS
LB_MW05	LB	Monitoring Well	305949.487	6416021.024	187.40	Surveyed
LB_MW06	LB	Monitoring Well	306546.986	6415790.912	193.01	Surveyed
LB_MW07	LB	Soil Bore	306709	6416357	-	GPS
LB_MW08	LB	Monitoring Well	306881.800	6416600.190	188.70	Surveyed
LB_MW09	LB	Soil Bore	307448	6416599	-	GPS
LB_MW10	LB	Soil Bore	307687	6416800	-	GPS
LB_MW11	LB	Monitoring Well	308018.181	6417132.536	151.10	Surveyed
LB_MW12	LB	Soil Bore	308018	6417133	-	GPS
LB_MW13	LB	Monitoring Well	308078.759	6417340.951	165.77	Surveyed
LB_MW14	LB	Monitoring Well	307838.416	6417627.106	157.85	Surveyed
LB_MW15	LB	Surface Sample	307073	6418081	-	GPS
LB_SU01	LB	Surface Sample	309636	6416310	-	GPS
LB_SU02	LB	Surface Sample	309532	6416321	-	GPS
LB_SU03	LB	Surface Sample	309436	6416334	-	GPS
LB_SU04	LB	Surface Sample	309326	6416352	-	GPS
LB_SU05	LB	Surface Sample	309257	6416378	-	GPS
LB_SU06	LB	Surface Sample	309179	6416402	-	GPS
LB_SU07	LB	Surface Sample	309103	6416430	-	GPS
LB_SU08	LB	Surface Sample	309025	6416454	-	GPS
LB_SU09	LB	Surface Sample	308956	6416477	-	GPS
LB_SU10	LB	Surface Sample	308875	6416485	-	GPS
LB_SU11	LB	Surface Sample	308790	6416472	-	GPS
LB_SU12	LB	Surface Sample	308712	6416441	-	GPS
LB_SU13	LB	Surface Sample	308645	6416411	-	GPS
LB_SU14	LB	Surface Sample	308583	6416376	-	GPS
LB_SU15	LB	Surface Sample	308512	6416347	-	GPS
LB_SU16	LB	Surface Sample	308447	6416315	-	GPS
LB_SU17	LB	Surface Sample	308371	6416287	-	GPS
LB_SU18	LB	Surface Sample	308284	6416278	-	GPS
LB_SU19	LB	Surface Sample	308180	6416307	-	GPS
LB_SU20	LB	Surface Sample	308096	6416332	-	GPS
LB_SU21	LB	Surface Sample	308010	6416355	-	GPS
LB_SU22	LB	Surface Sample	307925	6416379	-	GPS
LB_SU23	LB	Surface Sample	307842	6416403	-	GPS
LB_SU24	LB	Surface Sample	307754	6416427	-	GPS
LB_SU25	LB	Surface Sample	307669	6416454	-	GPS
LB_SU26	LB	Surface Sample	307586	6416478	-	GPS
LB_SU27	LB	Surface Sample	307512	6416498	-	GPS
LB_SU28	LB	Surface Sample	307433	6416520	-	GPS
LB_SU29	LB	Surface Sample	307359	6416541	-	GPS
LB_SU30	LB	Surface Sample	307283	6416563	-	GPS
LB_SU31	LB	Surface Sample	307212	6416584	-	GPS
LB_SU32	LB	Surface Sample	307143	6416605	-	GPS
LB_SU33	LB	Surface Sample	307073	6416621	-	GPS
LB_SU34	LB	Surface Sample	306981	6416623	-	GPS
LB_SU35	LB	Surface Sample	306860	6416551	-	GPS
LB_SU36	LB	Surface Sample	306807	6416467	-	GPS
LB_SU37	LB	Surface Sample	306766	6416372	-	GPS
LB_SU38	LB	Surface Sample	309095	6416482	-	GPS
LB_SU39	LB	Surface Sample	309161	6416530	-	GPS
LB_SU40	LB	Surface Sample	309211	6416598	-	GPS
LB_SU41	LB	Surface Sample	309251	6416655	-	GPS
LB_SU42	LB	Surface Sample	309294	6416716	-	GPS
LB_SU43	LB	Surface Sample	309345	6416762	-	GPS
LB_SU44	LB	Surface Sample	309434	6416774	-	GPS
LB_SU45	LB	Surface Sample	309501	6416747	-	GPS
LB_SU46	LB	Surface Sample	309598	6416727	-	GPS
LC_EW_L1	LC	Soil Bore	309866	6416687	-	GPS
LC_EW_L2	LC	Soil Bore	309869	6416696	-	GPS
LC_EW_L3	LC	Soil Bore	309870	6416704	-	GPS
LC_EW_L4	LC	Soil Bore	309858	6416701	-	GPS
LD_EW_MW01	LD	Existing Well	308870	6415800	-	GPS
LD_EW_MW02	LD	Existing Well	308858.00	6415818.00	-	GPS
LD_EW_MW03	LD	Existing Well	308847.00	6415832.00	-	GPS
LD_EW_MW04	LD	Existing Well	308887.00	6415873.00	-	GPS
LD_MW01	LD	Monitoring Well	308905.540	6415780.606	135.69	Surveyed
LD_MW02	LD	Monitoring Well	308901.402	6415840.830	136.95	Surveyed
LD_MW04	LD	Monitoring Well	308859.710	6415826.357	135.69	Surveyed
LD_MW05	LD	Monitoring Well	308862.452	6415869.056	136.77	Surveyed
LD_SB01	LD	Soil Bore	308845	6415842	-	GPS

Location	AEC	Location Type	X Coordinate (GDA 94)	Y Coordinate (GDA 94)	Elevation (mAHD)	Survey method
LD_SB02	LD	Soil Bore	308946	6415802	-	GPS
LD_SB03	LD	Soil Bore	308910	6415812	-	GPS
LD_SB04	LD	Soil Bore	308878	6415836	-	GPS
LE_MW01	LE	Monitoring Well	309848.389	6416276.579	133.45	Surveyed
LE_MW02	LE	Monitoring Well	309884.284	6416277.389	132.90	Surveyed
LE_MW03	LE	Monitoring Well	309897.960	6416310.390	132.90	Surveyed
LE_MW04	LE	Monitoring Well	309889.202	6416356.688	132.87	Surveyed
LE_MW05	LE	Monitoring Well	309833.973	6416419.167	133.26	Surveyed
LE_MW06	LE	Monitoring Well	309854.847	6416320.502	133.38	Surveyed
LE_MW07	LE	Monitoring Well	309882.186	6416396.246	133.24	Surveyed
LE_MW08	LE	Monitoring Well	309866.405	6416408.220	133.16	Surveyed
LE_MW09	LE	Monitoring Well	309850.154	6416416.794	133.17	Surveyed
LE_SB01	LE	Soil Bore	309871	6416410	-	GPS
LE_SB02	LE	Soil Bore	309849	6416416	-	GPS
LE_SB03	LE	Soil Bore	309862	6416385	-	GPS
LE_SB04	LE	Soil Bore	309820	6416408	-	GPS
LE_SB05	LE	Soil Bore	309849	6416358	-	GPS
LE_SB06	LE	Soil Bore	309896	6416290	-	GPS
LE_SB07	LE	Soil Bore	309869	6416289	-	GPS
LE_SB08	LE	Soil Bore	309870	6416337	-	GPS
LE_SB09	LE	Soil Bore	309890	6416410	-	GPS
LF_MW01	LF	Soil Bore	309640	6416612	-	GPS
LF_SB01	LF	Soil Bore	309655	6416601	-	GPS
LF_SB02	LF	Soil Bore	309647	6416604	-	GPS
LF_SB03	LF	Soil Bore	309643	6416597	-	GPS
LG_MW01	LG	Monitoring Well	309745.074	6416759.355	133.35	Surveyed
LG_MW02	LG	Monitoring Well	309736.374	6416756.279	133.50	Surveyed
LG_MW03	LG	Monitoring Well	309736.609	6416762.918	133.53	Surveyed
LH_MW01	LH	Monitoring Well	309776.871	6416419.689	133.16	Surveyed
LH_MW02	LH	Monitoring Well	309766.966	6416396.697	133.26	Surveyed
LH_MW03	LH	Monitoring Well	309802.874	6416365.018	133.27	Surveyed
LH_SB01	LH	Soil Bore	309769	6416388	-	GPS
LI_MW01	LI	Monitoring Well	308935.245	6415938.168	139.23	Surveyed
LI_MW02	LI	Monitoring Well	309562.848	6416118.118	133.51	Surveyed
LI_MW03	LI	Monitoring Well	309547.203	6415959.635	133.42	Surveyed
LI_MW04	LI	Monitoring Well	309519.198	6415808.160	132.75	Surveyed
LI_MW05	LI	Monitoring Well	309503.778	6415700.965	131.91	Surveyed
LI_MW06	LI	Monitoring Well	309437.195	6415600.129	132.31	Surveyed
LI_MW07	LI	Monitoring Well	309338.853	6415571.383	133.25	Surveyed
LI_MW08	LI	Monitoring Well	309199.726	6415589.122	133.79	Surveyed
LI_MW09	LI	Monitoring Well	308977.731	6415486.844	130.47	Surveyed
LI_SB01	LI	Soil Bore	309055	6415616	-	GPS
LI_SB02	LI	Soil Bore	308908	6415709	-	GPS
LI_SB03	LI	Soil Bore	309000	6416167	-	GPS
LI_SB04	LI	Soil Bore	308923	6415378	-	GPS
LI_SB05	LI	Soil Bore	308947	6415340	-	GPS
LJ_MW01	LJ	Monitoring Well	309698.001	6416794.198	133.73	Surveyed
LJ_MW02	LJ	Monitoring Well	309809.975	6416767.145	133.14	Surveyed
LJ_MW03	LJ	Soil Bore	309908	6416747	-	GPS
LJ_MW04	LJ	Monitoring Well	309922.852	6416770.490	133.04	Surveyed
LJ_SB02	LJ	Soil Bore	309910	6416765	-	GPS
LJ_SB03	LJ	Soil Bore	309887	6416778	-	GPS
LJ_SB04	LJ	Soil Bore	309900	6416755	-	GPS
LJ_SB06	LJ	Soil Bore	309858	6416750	-	GPS
LJ_SB07	LJ	Soil Bore	309836	6416757	-	GPS
LJ_SB08	LJ	Soil Bore	309800	6416770	-	GPS
LJ_SB09	LJ	Soil Bore	309767	6416780	-	GPS
LJ_SB10	LJ	Soil Bore	309729	6416802	-	GPS
LJ_SB11	LJ	Soil Bore	309713	6416790	-	GPS
LJ_SB12	LJ	Soil Bore	309733	6416788	-	GPS
LK_MW01	LK	Soil Bore	309640	6416976	-	GPS
LK_MW02	LK	Soil Bore	309586	6416893	-	GPS
LK_MW03	LK	Soil Bore	309600	6416967	-	GPS
LK_SB01	LK	Soil Bore	309622	6416948	-	GPS
LK_SB02	LK	Soil Bore	309629	6416921	-	GPS
LL_MW01	LL	Monitoring Well	308782.993	6414580.515	134.32	Surveyed
LL_MW02	LL	Monitoring Well	308755.287	6414598.053	135.13	Surveyed
LL_MW03	LL	Monitoring Well	308736.306	6414609.083	136.29	Surveyed
LL_MW04	LL	Soil Bore	308676	6414579	-	GPS
LL_MW05	LL	Soil Bore	308694	6414550	-	GPS
LL_MW06	LL	Monitoring Well	308750.484	6414560.269	134.79	Surveyed
LL_MW07	LL	Monitoring Well	308763.548	6414583.492	134.62	Surveyed
LL_MW08	LL	Soil Bore	308678	6414628	-	GPS
LL_MW09	LL	Monitoring Well	308718.429	6414617.953	137.42	Surveyed
LL_SB01	LL	Soil Bore	308669	6414629	-	GPS
LL_SB02	LL	Soil Bore	308691	6414632	-	GPS
LL_SB03	LL	Soil Bore	308702	6414619	-	GPS
LL_SB04	LL	Soil Bore	308735	6414606	-	GPS
LL_SB07	LL	Soil Bore	308698	6414604	-	GPS
LL_SB08	LL	Soil Bore	308687	6414592	-	GPS

Location	AEC	Location Type	X Coordinate (GDA 94)	Y Coordinate (GDA 94)	Elevation (mAHD)	Survey method
LL_SB09	LL	Soil Bore	308715	6414593	-	GPS
LL_SB10	LL	Soil Bore	308723	6414584	-	GPS
LL_SB11	LL	Soil Bore	308736	6414595	-	GPS
LL_SB12	LL	Soil Bore	308732	6414595	-	GPS
LL_SB13	LL	Soil Bore	308721	6414605	-	GPS
LL_SB14	LL	Soil Bore	308711	6414589	-	GPS
LL_SB15	LL	Soil Bore	308727	6414585	-	GPS
LL_SB16	LL	Soil Bore	308714	6414575	-	GPS
LL_SB17	LL	Soil Bore	308704	6414581	-	GPS
LL_SB18	LL	Soil Bore	308760	6414569	-	GPS
LL_SB19	LL	Soil Bore	308752	6414560	-	GPS
LM_MW01	LM	Monitoring Well	309336.901	6416303.210	148.03	Surveyed
LM_MW02	LM	Monitoring Well	309427.734	6416233.038	142.58	Surveyed
LM_MW03	LM	Soil Bore	309441	6416284	-	GPS
LM_SB01	LM	Soil Bore	309344	6416270	-	GPS
LN_MW01	LN	Monitoring Well	310050.470	6416591.403	131.77	Surveyed
LN_MW02	LN	Monitoring Well	310105.269	6416610.037	131.80	Surveyed
LN_MW03	LN	Soil Bore	310148	6416609	-	GPS
LN_MW04	LN	Monitoring Well	310181.323	6416584.830	130.37	Surveyed
LN_MW05	LN	Monitoring Well	310169.957	6416559.128	131.35	Surveyed
LN_MW06	LN	Monitoring Well	310139.039	6416548.588	131.47	Surveyed
LN_MW07	LN	Monitoring Well	310102.017	6416553.308	131.81	Surveyed
LO_MW01	LO	Monitoring Well	309672.521	6416772.802	133.66	Surveyed
LO_MW02	LO	Monitoring Well	309780.055	6416760.360	133.46	Surveyed
LO_MW03	LO	Monitoring Well	309830.801	6416731.458	133.40	Surveyed
LO_MW04	LO	Monitoring Well	309840.864	6416704.030	133.37	Surveyed
LO_MW05	LO	Monitoring Well	309841.549	6416677.341	133.14	Surveyed
LO_MW06	LO	Monitoring Well	309829.744	6416633.721	133.50	Surveyed
LO_MW08	LO	Monitoring Well	309903.939	6416595.706	132.95	Surveyed
LO_MW10	LO	Monitoring Well	309837.091	6416531.948	133.22	Surveyed
LO_MW11	LO	Monitoring Well	309809.085	6416483.772	133.12	Surveyed
LO_MW12	LO	Monitoring Well	309915.865	6416503.634	133.32	Surveyed
LO_MW13	LO	Monitoring Well	309805.718	6416463.221	133.17	Surveyed
LO_MW14	LO	Monitoring Well	309728.207	6416402.63	133.31	Surveyed
LO_MW15	LO	Monitoring Well	309800.403	6416328.566	134.35	Surveyed
LO_MW16	LO	Monitoring Well	309736.778	6416285.095	135.58	Surveyed
LO_MW17	LO	Monitoring Well	309943.135	6416669.706	132.90	Surveyed
LO_SB01	LO	Soil Bore	309832	6416429	-	GPS
LO_SB02	LO	Soil Bore	309866	6416425	-	GPS
LO_SB03	LO	Soil Bore	309725	6416347	-	GPS
LO_SB04	LO	Soil Bore	309763.4652	6416305.87	-	GPS
LO_SB05	LO	Soil Bore	309695	6416289	-	GPS
LO_SB06	LO	Soil Bore	309994	6416669	-	GPS
LO_SB06A	LO	Soil Bore	309897	6416287	-	GPS
LO_SB07	LO	Soil Bore	310006	6416639	-	GPS
LO_SB08	LO	Soil Bore	309986	6416625	-	GPS
LO_SB09	LO	Soil Bore	309967	6416628	-	GPS
LP_MW01	LP	Monitoring Well	310024.473	6416819.317	132.15	Surveyed
LP_MW02	LP	Monitoring Well	309989.763	6415996.586	131.30	Surveyed
LP_MW03	LP	Monitoring Well	310017.104	6416377.908	131.22	Surveyed
LP_MW04	LP	Monitoring Well	310209.823	6416468.149	129.93	Surveyed
LP_MW05	LP	Monitoring Well	310205.437	6416665.990	131.84	Surveyed
LP_MW06	LP	Monitoring Well	310021.658	6415736.916	129.34	Surveyed
LP_SB01	LP	Soil Bore	310114	6416763	-	GPS
LP_SB02	LP	Soil Bore	309988	6416702	-	GPS
LP_SB03	LP	Soil Bore	310086	6416675	-	GPS
LP_SB04	LP	Soil Bore	310173	6416641	-	GPS
LP_SB05	LP	Soil Bore	309970	6416587	-	GPS
LP_SB06	LP	Soil Bore	310017	6416540	-	GPS
LP_SB07	LP	Soil Bore	310108	6416486	-	GPS
LP_SB08	LP	Soil Bore	309949	6416475	-	GPS
LP_SB09	LP	Soil Bore	310054	6416449	-	GPS
LP_SB10	LP	Soil Bore	309948	6416400	-	GPS
LP_SB11	LP	Soil Bore	310017	6416182	-	GPS
LP_SB12	LP	Soil Bore	310008	6416073	-	GPS
LP_SB13	LP	Soil Bore	310049	6415839	-	GPS
LP_SB14	LP	Soil Bore	310091	6415787	-	GPS
LQ_MW01	LQ	Monitoring Well	309619.709	6416460.285	133.50	Surveyed
LQ_MW02	LQ	Soil Bore	309626.9711	6416510.262	-	GPS
LQ_MW03	LQ	Monitoring Well	309632.327	6416551.6	133.47	Surveyed
LQ_MW05	LQ	Monitoring Well	309643.323	6416671.593	133.47	Surveyed
LQ_MW06	LQ	Monitoring Well	309651.694	6416684.899	133.47	Surveyed
LQ_MW07	LQ	Monitoring Well	309656.558	6416717.187	133.46	Surveyed
LQ_SB01	LQ	Soil Bore	309680	6416718	-	GPS
LQ_SB02	LQ	Soil Bore	309688	6416701	-	GPS
LQ_SB03	LQ	Soil Bore	309670	6416702	-	GPS
LQ_SB04	LQ	Soil Bore	309664	6416689	-	GPS
LQ_SB05	LQ	Soil Bore	309653	6416674	-	GPS
LQ_SB06	LQ	Soil Bore	309657	6416648	-	GPS
LQ_SB07	LQ	Soil Bore	309652	6416636	-	GPS

Location	AEC	Location Type	X Coordinate (GDA 94)	Y Coordinate (GDA 94)	Elevation (mAHD)	Survey method
LQ_SB08	LQ	Soil Bore	309657	6416636	-	GPS
LQ_SB10	LQ	Soil Bore	309657.5623	6416525.26	-	GPS
LQ_SB11	LQ	Soil Bore	309632	6416495	-	GPS
LR_MW01	LR	Monitoring Well	309538.315	6416750.155	151.03	Surveyed
LR_MW03	LR	Monitoring Well	309309.005	6416491.011	159.69	Surveyed
LR_MW04	LR	Monitoring Well	309446.172	6416387.518	151.36	Surveyed
LS_EW_MW01	LS	Existing Well	309964	6415698	-	GPS
LS_EW_MW02	LS	Existing Well	309877	6415649	-	GPS
LS_EW_MW03	LS	Existing Well	309796	6415610	-	GPS
LS_MW01	LS	Monitoring Well	309862.452	6415625.9	129.59	Surveyed
LS_MW02	LS	Monitoring Well	309595.656	6415656.079	129.84	Surveyed
LS_SB01	LS	Soil Bore	309701	6416137	-	GPS
LS_SB02	LS	Soil Bore	309793	6416136	-	GPS
LS_SB03	LS	Soil Bore	309715	6416017	-	GPS
LS_SB04	LS	Soil Bore	309719	6415823	-	GPS
LT_MW01	LT	Monitoring Well	309804.485	6416934.703	132.71	Surveyed
LT_MW02	LT	Monitoring Well	309787.071	6416874.076	133.81	Surveyed
LT_MW03	LT	Monitoring Well	309704.457	6416948.75	133.10	Surveyed
LT_MW04	LT	Monitoring Well	309863.142	6416964.194	130.21	Surveyed
LU_MW01	LU	Soil Bore	309610	6416340	-	GPS
LU_MW02	LU	Monitoring Well	309635.849	6416403.309	133.30	Surveyed
LU_MW03	LU	Monitoring Well	309670.485	6416426.263	133.47	Surveyed
LU_SB01	LU	Soil Bore	309608	6416438	-	GPS
LU_SB02	LU	Soil Bore	309614	6416412	-	GPS
LU_SB03	LU	Soil Bore	309642.1984	6416431.798	-	GPS
LU_SB04	LU	Soil Bore	309681	6416420	-	GPS
LU_SB05	LU	Soil Bore	309618.0867	6416362.905	-	GPS
LV_MW01	LV	Soil Bore	306798	6421039	-	GPS
LV_MW02	LV	Soil Bore	307748	6419605	-	GPS
LV_MW03	LV	Monitoring Well	308245.84	6417856.769	141.10	Surveyed
LV_MW04	LV	Monitoring Well	308816.448	6415027.322	132.99	Surveyed
LV_MW05	LV	Monitoring Well	308371.451	6415027.315	139.32	Surveyed
LV_MW06	LV	Soil Bore	305865	6420241	-	GPS
LV_MW07	LV	Soil Bore	305986	6418827	-	GPS

Well ID	Gauging Date	Event	TOC Elevation (mAHD)	Ground Surface Elevation (mAHD)	Total Measured Depth (mbTOC)	Depth to LNAPL (mbTOC)	Depth to Water (mbTOC)	LNAPL Thickness (m)	Well Screened Interval (m)	Corrected Depth to Water (mbTOC)	Corrected Water Elevation (mAHD)	Comments
LA_MW01	29-Nov-13	Pre	137.35	137.46	10.20	-	4.62	-	7.0 - 10.0	4.62	132.73	Clear with odour.
LA_MW02	29-Nov-13	Pre	136.06	136.12	8.27	-	6.55	-	5.0 - 8.0	6.55	129.51	Clear with odour.
LA_MW03	29-Nov-13	Pre	137.06	137.14	10.17	-	5.79	-	7.0 - 10.0	5.79	131.28	Clear with odour.
LB_EW_MW01	30-Nov-13	Pre	NA	NA	5.98	-	2.36	-	-	2.36	NA	Turbid light brown with no odour.
LB_MW01	18-Dec-13	Pre	191.61	191.00	11.98	-	8.68	-	8.0 - 11.0	8.68	182.93	Turbid grey with no odour.
LB_MW03	19-Dec-13	Pre	176.10	175.48	2.58	-	1.67	-	1.0 - 2.0	1.67	174.43	Turbid grey with no odour.
LB_MW05	18-Dec-13	Pre	188.00	187.40	5.29	-	1.14	-	1.0 - 5.5	1.14	186.86	Cloudy light brown with no odour.
LB_MW06	18-Dec-13	Pre	193.70	193.01	4.40	-	3.77	-	2.0 - 3.5	3.77	189.93	Insufficient water to sample.
LB_MW08	18-Dec-13	Pre	189.28	188.70	10.74	-	5.02	-	7.0 - 10.0	5.02	184.26	Cloudy light grey with no odour.
LB_MW11	18-Dec-13	Pre	151.80	151.10	8.48	-	7.81	-	4.5 - 7.5	7.81	143.99	Cloudy.
LB_MW13	17-Dec-13	Pre	166.43	165.77	7.79	-	6.41	-	3.0 - 7.0	6.41	160.02	Cloudy with no odour.
LB_MW14	17-Dec-13	Pre	158.41	157.85	6.22	-	3.47	-	2.5 - 5.5	3.47	154.95	Clear to cloudy with no odour.
LC_EW_L1	25-Nov-13	Pre	NA	NA	4.97	-	3.25	-	-	3.25	NA	Clear with hydrocarbon odour.
LC_EW_L2	25-Nov-13	Pre	NA	NA	4.61	-	3.45	-	-	3.45	NA	Clear with hydrocarbon odour.
LC_EW_L3	25-Nov-13	Pre	NA	NA	5.10	-	3.50	-	-	3.50	NA	Clear with hydrocarbon odour.
LC_EW_L4	25-Nov-13	Pre	NA	NA	4.97	-	3.25	-	-	3.25	NA	Clear with odour.
LD_EW_MW01	21-Nov-13	Pre	NA	NA	7.63	-	2.91	-	-	2.91	NA	Slightly cloudy with sulfur odour.
LD_EW_MW02	20-Nov-13	Pre	NA	NA	8.16	-	2.89	-	-	2.89	NA	Turbid.
LD_EW_MW03	21-Nov-13	Pre	NA	NA	9.45	-	2.75	-	-	2.75	NA	Clear with no odour.
LD_EW_MW04	21-Nov-13	Pre	NA	NA	9.43	-	5.94	-	-	5.94	NA	Clear with no odour.
LD_MW01	11-Dec-13	Pre	135.61	135.69	9.95	-	3.27	-	6.0 - 9.0	3.27	132.34	Clear with no sheen and no odour.
LD_MW02	30-Nov-13	Pre	136.85	136.95	7.46	-	3.53	-	4.5 - 7.5	3.53	133.32	Slightly cloudy with no odour.
LD_MW04	30-Nov-13	Pre	136.47	135.69	9.58	-	2.73	-	5.7 - 8.7	2.73	133.75	Clear with slight odour.
LD_MW05	11-Dec-13	Pre	137.69	136.77	10.58	-	3.39	-	6.5 - 9.5	3.39	134.30	Clear with no sheen and no odour.
LE_MW01	29-Nov-13	Pre	134.32	133.45	7.10	-	3.73	-	2.3 - 6.3	3.73	130.59	Turbid brown with odour.
LE_MW02	29-Nov-13	Pre	133.87	132.90	8.15	-	4.29	-	3.0 - 7.0	4.29	129.58	Clear with no odour.
LE_MW03	30-Nov-13	Pre	132.83	132.90	5.38	-	2.08	-	2.9 - 5.7	2.08	130.75	Clear with strong odour.
LE_MW04	06-Dec-13	Pre	132.80	132.87	6.02	-	2.50	-	2.6 - 5.6	2.50	130.31	Clear with hydrocarbon odour.
LE_MW05	06-Dec-13	Pre	133.09	133.26	3.90	-	2.24	-	3.0 - 7.0	2.24	130.85	Clear with no odour.
LE_MW06	30-Nov-13	Pre	133.29	133.38	5.65	-	2.55	-	2.5 - 5.5	2.55	130.74	Clear with odour.
LE_MW07	06-Dec-13	Pre	133.13	133.24	6.91	-	3.06	-	3.0 - 7.0	3.06	130.07	Clear with hydrocarbon odour.
LE_MW08	06-Dec-13	Pre	133.04	133.16	6.74	-	2.90	-	3.0 - 7.0	2.90	130.14	Clear with no odour.
LE_MW09	06-Dec-13	Pre	133.04	133.17	7.03	-	2.81	-	3.0 - 7.0	2.81	130.23	Clear with no odour.
LG_MW01	16-Dec-13	Pre	133.23	133.35	6.04	-	2.25	-	3.0 - 6.0	2.25	130.98	Clear with no odour.
LG_MW02	16-Dec-13	Pre	133.39	133.50	7.99	-	2.40	-	2.0 - 8.0	2.40	130.99	Cloudy with sulfur odour.
LG_MW03	16-Dec-13	Pre	133.41	133.53	7.87	-	2.42	-	2.0 - 8.0	2.42	130.99	Clear with sulfur odour.
LH_MW01	12-Dec-13	Pre	133.10	133.16	7.92	-	1.86	-	2.0 - 8.0	1.86	131.24	Clear with no sheen and no odour.
LH_MW02	17-Dec-13	Pre	133.20	133.26	12.00	-	1.54	-	1.8 - 7.8	1.54	131.66	Clear with no sheen and no odour.
LH_MW03	12-Dec-13	Pre	133.19	133.27	7.94	-	1.88	-	2.0 - 8.0	1.88	131.31	Slightly cloudy with no sheen and no odour.
LI_MW01	18-Dec-13	Pre	140.12	139.23	11.00	-	5.82	-	6.0 - 10.0	5.82	134.30	Cloudy with no odour.
LI_MW02	30-Nov-13	Pre	133.41	133.51	6.93	-	2.43	-	3.0 - 7.0	2.43	130.99	Cloudy with no odour.
LI_MW03	30-Nov-13	Pre	133.33	133.42	6.05	-	3.73	-	3.0 - 6.0	3.73	129.60	Clear with no odour.
LI_MW04	30-Nov-13	Pre	132.66	132.75	5.97	-	3.68	-	3.0 - 6.0	3.68	128.99	Cloudy to clear with no odour.
LI_MW05	30-Nov-13	Pre	131.82	131.91	5.98	-	2.91	-	3.0 - 3.0	2.91	128.92	Cloudy to clear with no odour.
LI_MW06	30-Nov-13	Pre	132.25	132.31	8.00	-	2.99	-	5.0 - 8.0	2.99	129.27	Clear with no odour.
LI_MW07	30-Nov-13	Pre	133.16	133.25	8.09	-	3.46	-	5.0 - 8.0	3.46	129.71	Cloudy to clear with sulfur odour.
LI_MW08	18-Dec-13	Pre	133.72	133.79	6.00	-	4.13	-	3.0 - 3.0	4.13	129.59	Cloudy with no odour.

Well ID	Gauging Date	Event	TOC Elevation (mAHD)	Ground Surface Elevation (mAHD)	Total Measured Depth (mbTOC)	Depth to LNAPL (mbTOC)	Depth to Water (mbTOC)	LNAPL Thickness (m)	Well Screened Interval (m)	Corrected Depth to Water (mbTOC)	Corrected Water Elevation (mAHD)	Comments
LI_MW09	17-Dec-13	Pre	131.00	130.47	8.85	-	1.68	-	5.5 - 8.5	1.68	129.32	Cloudy brown with no odour.
LJ_MW01	16-Dec-13	Pre	133.64	133.73	5.00	-	1.21	-	1.0 - 5.0	1.21	132.43	Clear with slight sulfur odour.
LJ_MW02	10-Dec-13	Pre	133.04	133.14	4.32	-	1.93	-	1.3 - 4.3	1.93	131.11	Clear with no sheen and no odour.
LJ_MW04	10-Dec-13	Pre	132.95	133.04	10.06	-	3.44	-	5.0 - 10.0	3.44	129.51	Slightly turbid brown with no sheen and no odour.
LL_MW01	11-Dec-13	Pre	134.23	134.32	11.26	-	3.66	-	5.0 - 11.0	3.66	130.57	Clear with no sheen and no odour.
LL_MW02	18-Dec-13	Pre	135.02	135.13	19.71	-	10.91	-	11.0 - 20.0	10.91	124.12	Turbid grey with no odour.
LL_MW03	18-Dec-13	Pre	136.20	136.29	20.33	-	4.67	-	8.0 - 20.0	4.67	131.53	Turbid light grey with organic odour.
LL_MW06	06-Dec-13	Pre	134.70	134.79	10.80	-	2.85	-	5.0 - 11.0	2.85	131.85	Clear with no odour.
LL_MW07	06-Dec-13	Pre	134.52	134.62	11.22	-	3.85	-	5.5 - 11.5	3.85	130.67	Clear with no odour.
LL_MW09	11-Dec-13	Pre	137.29	137.42	10.87	-	5.82	-	5.0 - 11.0	5.82	131.47	Clear with no sheen and no odour.
LM_MW01	26-Nov-13	Pre	148.01	148.03	9.06	-	4.23	-	6.0 - 9.0	4.23	143.78	Clear with no odour.
LM_MW02	26-Nov-13	Pre	142.53	142.58	10.07	-	6.77	-	7.0 - 10.0	6.77	135.76	Cloudy with no odour.
LN_MW01	27-Nov-13	Pre	132.75	131.77	9.05		3.13		2.0 - 8.0	3.13	129.63	Clear with no odour.
LN_MW02	27-Nov-13	Pre	131.67	131.80	7.55	-	2.09	-	4.5 - 8.5	2.09	129.58	Turbid brown with no odour.
LN_MW04	28-Nov-13	Pre	131.13	130.37	4.80	-	2.30	-	1.0 - 4.0	2.30	128.84	Turbid brown with odour.
LN_MW05	27-Nov-13	Pre	131.31	131.35	10.12	-	1.72	-	6.0 - 10.0	1.72	129.59	Turbid brown with no odour.
LN_MW06	27-Nov-13	Pre	131.41	131.47	9.93	-	1.81	-	1.0 - 10.0	1.81	129.60	Turbid brown with no odour.
LN_MW07	27-Nov-13	Pre	131.72	131.81	7.99	-	2.20	-	4.0 - 8.0	2.20	129.52	Clear with no odour.
LO_MW01	16-Dec-13	Pre	133.54	133.66	10.05	-	9.46	-	4.0 - 10.0	9.46	124.08	Clear with no odour.
LO_MW02	17-Dec-13	Pre	133.34	133.46	6.06	-	2.87	-	3.0 - 6.0	2.87	130.47	Clear with hydrocarbon odour.
LO_MW03	13-Dec-13	Pre	133.27	133.40	5.03	-	3.26	-	1.0 - 5.0	3.26	130.01	Slightly cloudy with no odour.
LO_MW03	16-Dec-13	Pre	133.27	133.40	5.02	-	3.31	-	1.0 - 5.0	3.31	129.96	Clear with slight odour.
LO_MW04	16-Dec-13	Pre	133.27	133.37	5.02	-	3.45	-	2.0 - 6.0	3.45	129.82	Clear with no odour.
LO_MW05	16-Dec-13	Pre	133.04	133.14	5.99	-	2.95	-	2.0 - 7.0	2.95	130.09	Slightly cloudy to clear with sheen and hydrocarbon odour.
LO_MW06	16-Dec-13	Pre	133.45	133.50	7.09	-	2.98	-	4.0 - 10.0	2.98	130.47	Clear with sheen and slight hydrocarbon odour.
LO_MW08	17-Dec-13	Pre	132.87	132.95	10.01	-	3.14	-	2.0 - 6.0	3.14	129.73	Cloudy brown with no odour.
LO_MW10	16-Dec-13	Pre	133.07	133.22	6.03	-	2.50	-	3.0 - 5.0	2.50	130.57	Cloudy brown with no odour.
LO_MW11	17-Dec-13	Pre	133.05	133.12	5.04	-	1.58	-	2.0 - 5.0	1.58	131.47	Clear with no odour.
LO_MW12	17-Dec-13	Pre	133.22	133.32	5.01	-	3.44	-	3.0 - 9.0	3.44	129.78	Clear with no odour.
LO_MW13	17-Dec-13	Pre	133.08	133.17	9.02	-	1.91	-	5.0 - 14.0	1.91	131.17	Clear with no odour.
LO_MW14	17-Dec-13	Pre	133.20	133.31	13.90	-	1.98	-	6.0 - 9.0	1.98	131.22	Clear with sulfur odour.
LO_MW15	13-Dec-13	Pre	134.28	134.35	9.01	-	2.82	-	5.0 - 10.0	2.82	131.46	Clear with no odour.
LO_MW16	13-Dec-13	Pre	135.46	135.58	10.07	-	4.65	-	3.0 - 6.0	4.65	130.81	Clear with no odour.
LO_MW17	17-Dec-13	Pre	132.78	132.90	6.07	-	3.17	-	7.0 - 10.0	3.17	129.61	Slightly cloudy brown with no odour.
LP_MW01	28-Nov-13	Pre	132.07	132.15	9.94	-	3.11	-	4.0 - 7.0	3.11	128.96	Clear with no odour.
LP_MW02	28-Nov-13	Pre	132.17	131.30	7.86	-	3.27	-	2.2 - 5.2	3.27	128.90	Clear with no odour.
LP_MW03	28-Nov-13	Pre	131.92	131.22	5.86	-	2.21	-	1.0 - 4.0	2.21	129.71	Slightly turbid light brown with no odour.
LP_MW04	28-Nov-13	Pre	130.84	129.93	5.15	-	2.12	-	5.5 - 8.5	2.12	128.72	Slightly turbid grey with odour.
LP_MW05	28-Nov-13	Pre	131.78	131.84	8.51	-	2.49	-	1.0 - 4.0	2.49	129.29	Clear with no odour.
LP_MW06	11-Dec-13	Pre	129.99	129.34	4.63	-	1.27	-	2.0 - 50.0	1.27	128.72	Clear with no sheen and no odour.
LQ_MW01	10-Dec-13	Pre	133.41	133.50	5.15	-	1.93	-	2.0 - 5.0	1.93	131.48	Slightly cloudy yellow with no sheen and fish-like odour.
LQ_MW03	10-Dec-13	Pre	133.41	133.47	4.86	-	1.34	-	7.0 - 10.0	1.34	132.07	Clear with no sheen and fish-like odour.
LQ_MW05	12-Dec-13	Pre	133.35	133.47	9.91	-	8.85	-	7.0 - 10.0	8.85	124.50	Slightly cloudy with no sheen and fish-like odour.
LQ_MW06	10-Dec-13	Pre	133.35	133.47	9.92	-	8.81	-	7.0 - 10.0	8.81	124.55	Slightly cloudy with no sheen and no odour.

Well ID	Gauging Date	Event	TOC Elevation (mAHD)	Ground Surface Elevation (mAHD)	Total Measured Depth (mbTOC)	Depth to LNAPL (mbTOC)	Depth to Water (mbTOC)	LNAPL Thickness (m)	Well Screened Interval (m)	Corrected Depth to Water (mbTOC)	Corrected Water Elevation (mAHD)	Comments
LQ_MW07	10-Dec-13	Pre	133.33	133.46	9.84	-	1.17	-	11.9 - 14.9	1.17	132.17	Slightly cloudy with no sheen and fish-like odour.
LR_MW01	19-Dec-13	Pre	150.79	151.03	14.67	-	14.21	-	7.0 - 10.0	14.21	136.58	Insufficient water in well to sample.
LR_MW03	11-Dec-13	Pre	160.65	159.69	11.02	-	4.08	-	7.0 - 10.0	4.08	156.57	Slightly cloudy brown with no sheen and organic-like odour.
LS_EW_MW01	22-Nov-13	Pre	NA	NA	5.92	-	2.03	-	-	2.03	NA	Turbid light brown with sulfur odour.
LS_EW_MW02	22-Nov-13	Pre	NA	NA	7.65	-	2.05	-	-	2.05	NA	Cloudy light brown with no odour.
LS_EW_MW03	22-Nov-13	Pre	NA	NA	7.47	-	1.79	-	-	1.79	NA	Turbid brown with no odour.
LS_MW01	12-Dec-13	Pre	130.46	129.59	6.72	-	1.71	-	1.8 - 5.8	1.71	128.75	Clear with no sheen and no odour.
LS_MW02	16-Dec-13	Pre	130.63	129.84	4.82	-	3.36	-	0.7 - 4.0	3.36	127.27	Parameters taken after sample collected due to lack of water.
LT_MW01	25-Nov-13	Pre	132.61	132.71	6.98	-	3.74	-	4.0 - 7.0	3.74	128.87	Turbid light brown with no odour.
LT_MW02	26-Nov-13	Pre	133.66	133.81	7.53	-	3.85	-	4.5 - 7.5	3.85	129.81	Turbid brown with no odour.
LT_MW03	26-Nov-13	Pre	132.97	133.10	7.22	-	3.05	-	4.4 - 7.4	Dry	-	Turbid brown with slight odour.
LT_MW04	25-Nov-13	Pre	130.99	130.21	5.84	-	1.98	-	2.0 - 5.0	1.98	129.01	Clear with slight hydrocarbon odour.
LU_MW02	17-Dec-13	Pre	133.21	133.30	11.95	-	1.54	-	6.0 - 12.0	1.54	131.67	Clear with no odour.
LU_MW03	10-Dec-13	Pre	133.37	133.47	12.97	-	1.69	-	7.0 - 13.0	1.69	131.69	Clear with no sheen and no odour.
LV_MW03	20-Dec-13	Pre	141.58	141.10	8.67	-	4.26	-	4.0 - 8.0	4.26	137.33	Clear with no sheen and no odour.
LV_MW04	17-Dec-13	Pre	133.61	132.99	10.94	-	3.50	-	7.3 - 10.3	3.50	130.11	Clear with no odour.
LV_MW05	18-Dec-13	Pre	140.05	139.32	6.51	-	3.98	-	3.1 - 5.6	3.98	136.08	Cloudy with no odour.

Notes:

mAHD	metres Australian Height Datum	*	No survey data available
mbTOC	metres below top of casing	NA	Groundwater elevation not available
m	metres		
Pre	pre-purging		

Table 3. Groundwater Field Parameters
Liddell Power Station- Stage 2 ESA
Project Symphony - 0224198

				Field				
				Electrical conductivity	Dissolved Oxygen	pH	Redox	Temp
				uS/cm	mg/L	pH_Units	mV	oC
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**					
LA_MW01	LA_MW01	WATER	29-Nov-13	12,840	2.26	6.24	81.4	21.2
LA_MW02	LA_MW02	WATER	29-Nov-13	8476	4.9	5.65	119.2	21.5
LA_MW03	LA_MW03	WATER	29-Nov-13	6997	3.95	6.78	86.5	21.7
LB_EW_MW01	LB_EW_MW01	WATER	30-Nov-13	2302	-	7.19	65.1	8.2
LB_MW01	LB_MW01	WATER	18-Dec-13	121.1	4.34	7.42	20.6	25.1
LB_MW03	LB_MW03	WATER	19-Dec-13	3530	0.5	6.88	147	24
LB_MW05	LB_MW05	WATER	18-Dec-13	5391	1.32	7.45	-78.2	22.7
LB_MW08	LB_MW08	WATER	18-Dec-13	4631	0.42	7.68	-125.4	24.5
LB_MW11	LB_MW11	WATER	18-Dec-13	6900	5.62	8.18	196	17.7
LB_MW13	LB_MW13	WATER	17-Dec-13	3760	2.28	-	106	18.7
LB_MW14	LB_MW14	WATER	17-Dec-13	3480	0.27	6.54	93	19.7
LC_EW_L1	LC_EW_L1	WATER	25-Nov-13	31.8	2.25	6.89	36	21
LC_EW_L2	LC_EW_L2	WATER	25-Nov-13	2.2	0.46	6.89	262.3	24.5
LC_EW_L3	LC_EW_L3	WATER	25-Nov-13	0.1	1.39	6.77	250.2	25
LC_EW_L4	LC_EW_L4	WATER	25-Nov-13	1.1	0.88	6.76	191.2	26.1
LD_EW_MW01	LD_EW_MW01	WATER	21-Nov-13	18.5	1.1	6.73	-72.1	20.6
LD_EW_MW02	LD_EW_MW02	WATER	20-Nov-13	4217	0.86	6.14	55.6	21.3
LD_EW_MW03	LD_EW_MW03	WATER	21-Nov-13	20.1	2.21	6.52	32.6	24.7
LD_EW_MW04	LD_EW_MW04	WATER	21-Nov-13	0.7	0.63	6.22	273.3	28.3
LD_MW01	LD_MW01	WATER	11-Dec-13	27,700	1.92	6.39	158	24.4
LD_MW02	LD_MW02	WATER	30-Nov-13	13,520	1.07	6.23	93.1	22.7
LD_MW04	LD_MW04	WATER	30-Nov-13	16,690	2.05	6.8	72	23
LD_MW05	LD_MW05	WATER	11-Dec-13	11,190	1.01	6.51	139	24
LE_MW01	LE_MW01	WATER	29-Nov-13	13,450	0.75	4.42	166.6	20.8
LE_MW02	LE_MW02	WATER	29-Nov-13	23,390	0.5	3.42	262.5	21.3
LE_MW03	LE_MW03	WATER	30-Nov-13	2726	0.06	6.47	-1.5	23.6
LE_MW04	LE_MW04	WATER	06-Dec-13	7150	3.2	4.82	279	22.4
LE_MW05	LE_MW05	WATER	06-Dec-13	6410	3.69	7.29	109	19.1
LE_MW06	LE_MW06	WATER	30-Nov-13	7408	1.49	5.18	130.4	23.2
LE_MW07	LE_MW07	WATER	06-Dec-13	18,320	1.43	4.34	205.6	20.8
LE_MW08	LE_MW08	WATER	06-Dec-13	19,300	4.3	4.55	274	20.3
LE_MW09	LE_MW09	WATER	06-Dec-13	14,540	4.57	5.12	127	20.5
LG_MW01	LG_MW01	WATER	16-Dec-13	2390	0.26	7.31	-63	25.6
LG_MW02	LG_MW02	WATER	16-Dec-13	2520	0.3	7.33	-208	24.7
LG_MW03	LG_MW03	WATER	16-Dec-13	2280 - 7280	0.27	7.26 - 7.76	-188	24.2
LH_MW01	LH_MW01	WATER	12-Dec-13	1940	1.22	7.8	116	23.9
LH_MW02	LH_MW02	WATER	12-Dec-13	2890	0.9	7.44	128	25
LH_MW02	LH_MW02	WATER	17-Dec-13	7830	0.39	7.11	42	23
LH_MW03	LH_MW03	WATER	12-Dec-13	16,770	2.88	6.93	167	24.9
LI_MW01	LI_MW01	WATER	18-Dec-13	16,100	2.96	8.33	175	21
LI_MW02	LI_MW02	WATER	30-Nov-13	21,290	2.29	5.76	135.1	22.6
LI_MW03	LI_MW03	WATER	30-Nov-13	6140	3.01	4.57	349.5	22.6
LI_MW04	LI_MW04	WATER	30-Nov-13	4029	2.72	4	335.9	21.8
LI_MW05	LI_MW05	WATER	30-Nov-13	4745	6.77	5.3	153.9	21
LI_MW06	LI_MW06	WATER	30-Nov-13	8198	1.12	5.59	66.4	21.4
LI_MW07	LI_MW07	WATER	30-Nov-13	9901	3.3	6.06	21.7	21.7
LI_MW08	LI_MW08	WATER	18-Dec-13	17,950	1.97	5.42	313	23.4
LI_MW09	LI_MW09	WATER	17-Dec-13	14,930	4.17	-	124	19.5
LJ_MW01	LJ_MW01	WATER	16-Dec-13	3120	2.05	4.39	98	22.7
LJ_MW02	LJ_MW02	WATER	10-Dec-13	8290	1.37	6.86	139	24.5
LJ_MW04	LJ_MW04	WATER	10-Dec-13	11,220	2.01	6.6	148	20.9
LL_MW01	LL_MW01	WATER	11-Dec-13	9790	1.45	7.05	91	20.3
LL_MW02	LL_MW02	WATER	18-Dec-13	114,300	2.42	7.42	-102.3	23.5
LL_MW03	LL_MW03	WATER	18-Dec-13	17,630	0.18	7.31	-260.2	22
LL_MW06	LL_MW06	WATER	06-Dec-13	9559	0.93	6.73	64.2	18.9
LL_MW07	LL_MW07	WATER	06-Dec-13	10,280	1.9	6.77	63.6	19.6
LL_MW09	LL_MW09	WATER	11-Dec-13	12,330	0.65	6.82	12	23.9
LM_MW01	LM_MW01	WATER	26-Nov-13	19,120	3.09	6.61	-30	21.5
LM_MW02	LM_MW02	WATER	26-Nov-13	12,820	2.79	6.64	100.7	21.7
LN_MW01	LN_MW01	WATER	27-Nov-13	8548	0.9	6.72	82	21.5
LN_MW02	LN_MW02	WATER	27-Nov-13	2651	0.18	6.59	66.2	20.9
LN_MW04	LN_MW04	WATER	27-Nov-13	11,640	0.54	5.23	87.1	22
LN_MW04	LN_MW04	WATER	28-Nov-13	12,030	1.6	5.21	120.5	21.3
LN_MW05	LN_MW05	WATER	27-Nov-13	6008	0.07	6.66	43.9	21.6
LN_MW06	LN_MW06	WATER	27-Nov-13	5111	0.29	6.6	47.7	22.9
LN_MW07	LN_MW07	WATER	27-Nov-13	17,270	1.6	6.47	40.7	22.1
LO_MW02	LO_MW02	WATER	17-Dec-13	2620	0.27	7.2	-76	23.9
LO_MW03	LO_MW03	WATER	13-Dec-13	3748	1.62	6.74	44.6	21.3
LO_MW03	LO_MW03	WATER	16-Dec-13	4170	0.48	6.78	104	22.1
LO_MW04	LO_MW04	WATER	16-Dec-13	3400	1.67	7.28	20	21.4
LO_MW05	LO_MW05	WATER	16-Dec-13	12,190	0.38	6.2	-78	26.7
LO_MW06	LO_MW06	WATER	16-Dec-13	3120	0.4	6.43	-116	24.2
LO_MW08	LO_MW08	WATER	17-Dec-13	19,100	0.23	8.79	89	22.9
LO_MW10	LO_MW10	WATER	16-Dec-13	4310	0.59	4.2	56	22.1
LO_MW11	LO_MW11	WATER	17-Dec-13	1280	2.71	8.15	-23	21.1
LO_MW12	LO_MW12	WATER	17-Dec-13	2060	0.87	8.92	7	21.1
LO_MW13	LO_MW13	WATER	17-Dec-13	3620	0.49	8.41	79	21.4

				Field				
				Electrical conductivity	Dissolved Oxygen	pH	Redox	Temp
				uS/cm	mg/L	pH_Units	mV	oC
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**					
LO_MW14	LO_MW14	WATER	17-Dec-13	3700	0.21	7.41	-224	22.6
LO_MW15	LO_MW15	WATER	13-Dec-13	5197	8.52	5.58	126.1	21.4
LO_MW16	LO_MW16	WATER	13-Dec-13	11,520	3.33	6.11	69.8	21.2
LO_MW17	LO_MW17	WATER	17-Dec-13	9530	1.57	8.01	100	22.7
LP_MW01	LP_MW01	WATER	28-Nov-13	17,800	0.7	6.79	21.1	21.8
LP_MW02	LP_MW02	WATER	28-Nov-13	20,540	2.21	4.41	235.9	22.7
LP_MW03	LP_MW03	WATER	28-Nov-13	3042	0.08	6.95	-1.9	22.8
LP_MW04	LP_MW04	WATER	28-Nov-13	2625	0.03	6.89	-71.6	21.1
LP_MW05	LP_MW05	WATER	28-Nov-13	8695	0.24	6.73	40.3	20.9
LP_MW06	LP_MW06	WATER	11-Dec-13	19,650	3.46	7.15	415	22.4
LQ_MW01	LQ_MW01	WATER	10-Dec-13	3220	0.46	7.52	-163	24.3
LQ_MW03	LQ_MW03	WATER	10-Dec-13	3980	0.48	7.24	-206	25.6
LQ_MW05	LQ_MW05	WATER	10-Dec-13	13,120	1.68	7.45	144	26.1
LQ_MW06	LQ_MW06	WATER	10-Dec-13	8000	2.04	7.41	49	33
LQ_MW07	LQ_MW07	WATER	10-Dec-13	13,510	0.48	6.75	-205	25.1
LR_MW03	LR_MW03	WATER	11-Dec-13	10,440	0.53	6.98	-169	24.7
LR_MW04	LR_MW04	WATER	11-Dec-13	16,160	0.71	7.25	34	24.4
LS_EW_MW01	LS_EW_MW01	WATER	22-Nov-13	33,000	4.5	7.1	223.7	20.3
LS_EW_MW02	LS_EW_MW02	WATER	22-Nov-13	29,200	4.49	6.92	55.8	20.6
LS_EW_MW03	LS_EW_MW03	WATER	22-Nov-13	35,300	1.25	6.37	107.2	22.5
LS_MW01	LS_MW01	WATER	12-Dec-13	17,750	3.12	4.64	377	22.8
LS_MW02	LS_MW02	WATER	16-Dec-13	27,200	7.17	4.6	251	23.8
LT_MW01	LT_MW01	WATER	25-Nov-13	41,000	0.95	6.88	71.6	22.2
LT_MW02	LT_MW02	WATER	26-Nov-13	5024	4.04	6.64	120	21.6
LT_MW03	LT_MW03	WATER	26-Nov-13	4303	3	5.56	-227.2	21.4
LT_MW04	LT_MW04	WATER	25-Nov-13	3609	-	6.95	37	21.3
LU_MW02	LU_MW02	WATER	17-Dec-13	7830	0.39	7.11	42	23
LU_MW03	LU_MW03	WATER	10-Dec-13	7420	0.48	6.94	33	28.3
LV_MW03	LV_MW03	WATER	20-Dec-13	2303	1.5	6.68	-4.4	21.5
LV_MW04	LV_MW04	WATER	17-Dec-13	26,800	2.84	7.26	145	24.2
LV_MW05	LV_MW05	WATER	18-Dec-13	6050	2.23	4.39	321	18.8
Statistical Summary								
Number of Results				108	106	106	108	108
Number of Detects				108	106	106	108	108
Minimum Concentration				0.1	0.03	3.42	-260.2	8.2
Minimum Detect				0.1	0.03	3.42	ND	8.2
Maximum Concentration				114300	8.52	8.92	415	33
Maximum Detect				114300	8.52	8.92	415	33
Average Concentration				10702	1.8	6.5	75	22
Median Concentration				7625	1.41	6.755	80.2	22.15
Standard Deviation				13028	1.6	1.1	135	2.6
Number of Guideline Exceedances				0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0

Table 4a. AEC LA Soil Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

	TRH												BTEX							Metals							
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND	260[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			230[#9]										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND	370[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND	630[#7]	NL[#7]											3[#7]	NL[#7]	NL[#7]			NL[#7]										
Human Health - HSL-D - Vapour Intrusion + 4m SAND	NL[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			NL[#10]										
Human Health - Direct Contact - HSL-D	NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]										
Human Health - Intrusive - Vapour Intrusion 0-<2m	NL[#5]	NL[#5]											77[#5]	NL[#5]	NL[#5]			NL[#5]										
Human Health - Intrusive - Vapour Intrusion 2-<4m	NL[#4]	NL[#4]											160[#4]	NL[#4]	NL[#4]			NL[#4]										
Human Health - Intrusive - Vapour Intrusion + 4m	NL[#6]	NL[#6]											NL[#6]	NL[#6]	NL[#6]			NL[#6]										
Human Health - Intrusive - Direct Contact	82000[#11]	62000[#11]								85000[#11]	120000[#11]		1100[#11]	120000[#11]	85000[#11]			130000[#11]										
Human Health - Direct Contact - HIL-D																				3000[#13]	900[#13]		240000[#13]	1500[#13]	730[#13]	6000[#13]	400000[#13]
EIL - Commercial / Industrial (Aged)																				160[#3]		550[#1]	270[#1]	1800[#2]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)										2500[#14]	6600[#14]		95[#14]	135[#14]	185[#14]			95[#14]										
NEPM (2013) ESL - Commercial & Industrial (Coarse)										1700[#14]	3300[#14]		75[#14]	135[#14]	165[#14]			180[#14]										
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)	215[#14]								170[#14]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LA_MW01	LA_MW01_2.1	SOIL	25-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	14	14	22	<0.1	8	34
LA_MW02	LA_MW02_1.0	SOIL	22-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	17	6	11	<0.1	5	11
LA_MW02	LA_MW02_3.0	SOIL	25-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	16	<1	15	12	14	<0.1	7	28
LA_MW03	LA_MW03_0.1	SOIL	21-Nov-13	<10	<50	<10	<50	230	<100	230 - 305	300	<50	300	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	20	37	60	<0.1	10	439
LA_MW03	LA_MW03_3.0	SOIL	25-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	8	8	11	<0.1	5	20
LA_MW03	LA_MW03_3.9	SOIL	25-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA_SB01	LA_SB01_3.0	SOIL	25-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	13	11	9	<0.1	4	25
LA_SB02	LA_SB02_0.1	SOIL	19-Nov-13	<10	70	<10	<50	430	220	650 - 675	750	70	560	120	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	1	16	34	38	<0.1	11	432
LA_SB02	LA_SB02_3.0	SOIL	25-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	3	<5	<5	<0.1	<2	<5
Statistical Summary																											
Number of Results			8	3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects			0	1	0	0	2	1	2	2	1	2	1	0	0	0	0	0	0	0	7	1	8	7	7	0	7	7
Minimum Concentration			<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	3	<5	<5	<0.1	<2	<5
Minimum Detect			ND	70	ND	ND	230	220	230	300	70	300	120	ND	ND	ND	ND	ND	ND	ND	ND	8	1	3	6	9	ND	4	11
Maximum Concentration			<10	70	<10	<50	430	220	675	750	70	560	120	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	16	1	20	37	60	<0.1	11	439
Maximum Detect			ND	70	ND	ND	430	220	675	750	70	560	120	ND	ND	ND	ND	ND	ND	ND	ND	16	1	20	37	60	ND	11	439
Average Concentration			5	40	5	25	120	71	135	150	31	145	59	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	8.8	0.56	13	16	21	0.05	6.4	124
Median Concentration			5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	8	0.5	14.5	11.5	12.5	0.05	6	26.5
Standard Deviation			0	26	0	0	140	60	229	261	16	189	25	0	0	0	0	0	0	0	0	3.8	0.18	5.4	13	19	0	3.3	193
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic lead ACL for commercial/industrial
#3 Generic arsenic ACL for commercial/industrial
#4 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#5 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#11 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#12 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#13 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#14 ASC NEPM (2013) Ecological Screening Levels for Soil
#15 Generic napthalene ACL for commercial/industrial

Table 4a. AEC LA Soil Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

	PAH/Phenols																														
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																											NL [#9]					
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																											NL [#8]					
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																											NL [#7]					
Human Health - HSL-D - Vapour Intrusion + 4m SAND																											NL [#10]					
Human Health - Direct Contact - HSL-D																											11000 [#12]					
Human Health - Intrusive - Vapour Intrusion 0-<2m																											NL [#5]					
Human Health - Intrusive - Vapour Intrusion 2-<4m																											NL [#4]					
Human Health - Intrusive - Vapour Intrusion + 4m																											NL [#6]					
Human Health - Intrusive - Direct Contact																											29000 [#11]					
Human Health - Direct Contact - HIL-D																												4000 [#13]	660 [#13]		240000 [#13]	
EIL - Commercial / Industrial (Aged)																											370 [#15]					
NEPM (2013) ESL - Commercial & Industrial (Fine)															1.4 [#14]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse)															1.4 [#14]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																
Location Code **Field ID** **Matrix Type** **Sampled Date**																																
LA_MW01 LA_MW01_2.1 SOIL 25-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LA_MW02 LA_MW02_1.0 SOIL 22-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LA_MW02 LA_MW02_3.0 SOIL 25-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LA_MW03 LA_MW03_0.1 SOIL 21-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	1.5	0.5	0.8	1.1	1.4	1.5	<0.5	<0.5	1.8	<0.5	3.7	<0.5	<0.5	<0.5	14.1	<2	2.5	<0.5	2.6
LA_MW03 LA_MW03_3.0 SOIL 25-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LA_MW03 LA_MW03_3.9 SOIL 25-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA_SB01 LA_SB01_3.0 SOIL 25-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LA_SB02 LA_SB02_0.1 SOIL 19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	0.7	1.3	0.8	<0.5	<0.5	0.8	<0.5	1.9	<0.5	<0.5	<0.5	6.8	<2	1.3	<0.5	1.3
LA_SB02 LA_SB02_3.0 SOIL 25-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Statistical Summary																																
Number of Results	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	3	3	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	3	3	2	0	0	2	0	2	0	0	0	2	0	2	0	2
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	0.5	0.8	0.6	1.2	0.8	ND	ND	0.8	ND	1.9	ND	ND	ND	6.8	ND	1.3	ND	1.3
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	1.5	0.5	0.8	1.1	1.4	1.5	<0.5	<0.5	1.8	<0.5	3.7	<0.5	<0.5	<0.5	14.1	<2	2.5	<0.5	2.6
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	0.5	0.8	1.1	1.4	1.5	ND	ND	1.8	ND	3.7	ND	ND	ND	14.1	ND	2.5	ND	2.6
Average Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.46	0.28	0.32	0.8	1.3	0.48	0.25	0.25	0.51	0.25	0.89	0.25	0.25	0.25	2.8	1	0.66	0.25	0.68
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.7	1.3	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0.45	0.088	0.19	0.26	0.1	0.46	0	0	0.55	0	1.3	0	0	0	5.1	0	0.83	0	0.86
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean s
#2 Generic lead ACL for commercial/industrial
#3 Generic arsenic ACL for commercial/industrial
#4 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Va
#5 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Va
#6 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapou
#7 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Va
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Va
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Va
#10 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vap
#11 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#12 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#13 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indus
#14 ASC NEPM (2013) Ecological Screening Levels for Soil
#15 Generic napthalene ACL for commercial/industrial

Table 4a. AEC LA Soil Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

	Inorganics										Particle Size																
	CEC	Electrical conductivity *(lab)	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
	meq/100g	uS/cm	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL	0.1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																											
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																											
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																											
Human Health - HSL-D - Vapour Intrusion + 4m SAND																											
Human Health - Direct Contact - HSL-D																											
Human Health - Intrusive - Vapour Intrusion 0-<2m																											
Human Health - Intrusive - Vapour Intrusion 2-<4m																											
Human Health - Intrusive - Vapour Intrusion + 4m																											
Human Health - Intrusive - Direct Contact																											
Human Health - Direct Contact - HIL-D																											
EIL - Commercial / Industrial (Aged)																											
NEPM (2013) ESL - Commercial & Industrial (Fine)																											
NEPM (2013) ESL - Commercial & Industrial (Coarse)																											
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																											
Location Code **Field ID** **Matrix Type** **Sampled Date**																											
LA_MW01 LA_MW01_2.1 SOIL 25-Nov-13	-	-	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA_MW02 LA_MW02_1.0 SOIL 22-Nov-13	10.2	-	16.5	<0.1	1.7	7.3	0.2	1	5.8	<0.5	9	24	<1	7	16	<1	3	13	11	<1	30	2	70	24	7	<1	0.5
LA_MW02 LA_MW02_3.0 SOIL 25-Nov-13	-	-	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA_MW03 LA_MW03_0.1 SOIL 21-Nov-13	-	-	29.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA_MW03 LA_MW03_3.0 SOIL 25-Nov-13	-	-	11.8	-	-	-	-	-	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA_MW03 LA_MW03_3.9 SOIL 25-Nov-13	-	215	-	-	-	-	-	-	-	-	31	38	<1	28	34	<1	22	33	33	<1	46	18	54	18	28	<1	-
LA_SB01 LA_SB01_3.0 SOIL 25-Nov-13	-	-	19.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA_SB02 LA_SB02_0.1 SOIL 19-Nov-13	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA_SB02 LA_SB02_3.0 SOIL 25-Nov-13	-	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																											
Number of Results	1	1	8	1	1	1	1	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
Number of Detects	1	1	8	0	1	1	1	1	2	0	2	2	0	2	2	0	2	2	2	0	2	2	2	2	2	0	1
Minimum Concentration	10.2	215	11.8	<0.1	1.7	7.3	0.2	1	4.6	<0.5	9	24	<1	7	16	<1	3	13	11	<1	30	2	54	18	7	<1	0.5
Minimum Detect	10.2	215	11.8	ND	1.7	7.3	0.2	1	4.6	ND	9	24	ND	7	16	ND	3	13	11	ND	30	2	54	18	7	ND	0.5
Maximum Concentration	10.2	215	29.6	<0.1	1.7	7.3	0.2	1	5.8	<0.5	31	38	<1	28	34	<1	22	33	33	<1	46	18	70	24	28	<1	0.5
Maximum Detect	10.2	215	29.6	ND	1.7	7.3	0.2	1	5.8	ND	31	38	ND	28	34	ND	22	33	33	ND	46	18	70	24	28	ND	0.5
Average Concentration			18																								
Median Concentration	10.2	215	16.25	0.05	1.7	7.3	0.2	1	5.2	0.25	20	31	0.5	17.5	25	0.5	12.5	23	22	0.5	38	10	62	21	17.5	0.5	0.5
Standard Deviation			5.3																								
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean s
#2 Generic lead ACL for commercial/industrial
#3 Generic arsenic ACL for commercial/industrial
#4 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Va
#5 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Va
#6 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapou
#7 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for V
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for V
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for V
#10 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vap
#11 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#12 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#13 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indus
#14 ASC NEPM (2013) Ecological Screening Levels for Soil
#15 Generic napthalene ACL for commercial/industrial

Table 4b. AEC LB Soil Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

				TRH											BTEX							
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			230[#9]	
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]	
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#7]	NL[#7]											3[#7]	NL[#7]	NL[#7]			NL[#7]	
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			NL[#10]	
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#10]	
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#5]	NL[#5]											77[#5]	NL[#5]	NL[#5]			NL[#5]	
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#4]	NL[#4]											160[#4]	NL[#4]	NL[#4]			NL[#4]	
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#6]	NL[#6]											NL[#6]	NL[#6]	NL[#6]			NL[#6]	
Human Health - Intrusive - Direct Contact				82000[#11]	62000[#11]								85000[#11]	120000[#11]		1100[#11]	120000[#11]	85000[#11]			130000[#11]	
Human Health - Direct Contact - HIL-D																						
EIL - Commercial / Industrial (Aged)																						
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#14]	6600[#14]		95[#14]	135[#14]	185[#14]			95[#14]	
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#14]	3300[#14]		75[#14]	135[#14]	165[#14]			180[#14]	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#14]								170[#14]										
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																			
LB_MW01	LB_MW01_1.0	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW01	LB_MW01_1.4	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW02	LB_MW02_0.1	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW04	LB_MW04_1.8	SOIL	10-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW05	LB_MW05_0.5	SOIL	13-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW05	LB_MW05_2.4	SOIL	13-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW06	LB_MW06_0.5	SOIL	10-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW06	LB_MW06_2.3	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW07	LB_MW07_0.1	SOIL	10-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW07	LB_MW07_1.6	SOIL	13-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW08	LB_MW08_0.1	SOIL	10-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW09	LB_MW09_0.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW10	LB_MW10_0.5	SOIL	10-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW10	LB_MW10_1.6	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW11	LB_MW11_0.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW11	LB_MW11_3.0	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW12	LB_MW12_0.5	SOIL	10-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW12	LB_MW12_3.0	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW13	LB_MW13_0.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW13	LB_MW13_1.7	SOIL	13-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW14	LB_MW14_0.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW14	LB_MW14_2.0	SOIL	13-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW15	LB_MW15_0.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LB_MW15	LB_MW15_1.6	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
Statistical Summary																						
Number of Results				23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic lead ACL for commercial/industrial
#3 Generic arsenic ACL for commercial/industrial
#4 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#5 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#11 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#12 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#13 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#14 ASC NEPM (2013) Ecological Screening Levels for Soil

	Metals																	
	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium (III+VI)	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Thallium	Titanium	Vanadium	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	5	10	1	50	1	2	2	5	5	5	0.1	2	2	5	5	10	5	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																		
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																		
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																		
Human Health - HSL-D - Vapour Intrusion + 4m SAND																		
Human Health - Direct Contact - HSL-D																		
Human Health - Intrusive - Vapour Intrusion 0-<2m																		
Human Health - Intrusive - Vapour Intrusion 2-<4m																		
Human Health - Intrusive - Vapour Intrusion + 4m																		
Human Health - Intrusive - Direct Contact																		
Human Health - Direct Contact - HIL-D	3000[#13]				900[#13]		4000[#13]	240000[#13]	1500[#13]		730[#13]		6000[#13]	10000[#13]				400000[#13]
EIL - Commercial / Industrial (Aged)	160[#3]					550[#1]		270[#1]	1800[#2]				410[#1]					960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)																		
NEPM (2013) ESL - Commercial & Industrial (Coarse)																		
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**															
LB_MW01	LB_MW01_1.0	SOIL	09-Dec-13	10	140	2	<50	<1	14	20	20	22	214	<0.1	<2	31	<5	<5	-	35	78
LB_MW01	LB_MW01_1.4	SOIL	12-Dec-13	12	120	<1	<50	<1	13	6	11	14	116	<0.1	<2	20	<5	<5	-	24	89
LB_MW02	LB_MW02_0.1	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW04	LB_MW04_1.8	SOIL	10-Dec-13	12	170	<1	<50	<1	14	5	8	14	87	<0.1	<2	11	<5	<5	-	22	59
LB_MW05	LB_MW05_0.5	SOIL	13-Dec-13	11	140	1	<50	<1	24	9	10	16	161	<0.1	<2	22	<5	-	110	45	41
LB_MW05	LB_MW05_2.4	SOIL	13-Dec-13	14	50	1	<50	<1	20	4	9	13	87	<0.1	<2	16	<5	-	60	32	45
LB_MW06	LB_MW06_0.5	SOIL	10-Dec-13	21	80	-	<50	<1	24	12	<5	18	67	<0.1	<2	13	<5	<5	-	56	44
LB_MW06	LB_MW06_2.3	SOIL	12-Dec-13	10	50	<1	<50	<1	10	6	<5	11	13	<0.1	<2	7	<5	<5	-	22	56
LB_MW07	LB_MW07_0.1	SOIL	10-Dec-13	<5	40	-	<50	<1	10	12	27	9	244	<0.1	<2	45	<5	<5	-	22	61
LB_MW07	LB_MW07_1.6	SOIL	13-Dec-13	10	90	<1	<50	<1	15	8	9	11	162	<0.1	<2	12	<5	-	20	31	49
LB_MW08	LB_MW08_0.1	SOIL	10-Dec-13	10	60	-	<50	<1	9	6	11	12	282	<0.1	<2	15	<5	<5	-	20	46
LB_MW09	LB_MW09_0.5	SOIL	09-Dec-13	12	40	<1	<50	<1	17	6	14	14	64	<0.1	<2	17	<5	<5	-	28	68
LB_MW10	LB_MW10_0.5	SOIL	10-Dec-13	10	100	-	<50	<1	15	5	10	14	138	<0.1	<2	17	<5	<5	-	34	40
LB_MW10	LB_MW10_1.6	SOIL	12-Dec-13	12	110	<1	<50	<1	15	<2	5	11	7	<0.1	<2	2	<5	<5	-	41	18
LB_MW11	LB_MW11_0.5	SOIL	09-Dec-13	11	100	1	<50	<1	17	22	22	114	401	<0.1	<2	26	<5	<5	-	25	719
LB_MW11	LB_MW11_3.0	SOIL	12-Dec-13	7	90	<1	<50	<1	16	7	8	12	240	<0.1	<2	12	<5	<5	-	27	40
LB_MW12	LB_MW12_0.5	SOIL	10-Dec-13	8	130	-	<50	<1	19	9	11	13	262	<0.1	<2	19	<5	<5	-	33	45
LB_MW12	LB_MW12_3.0	SOIL	12-Dec-13	7	50	<1	<50	<1	17	10	9	12	320	<0.1	<2	26	<5	<5	-	27	40
LB_MW13	LB_MW13_0.5	SOIL	09-Dec-13	19	170	<1	<50	<1	20	4	<5	11	18	<0.1	<2	6	<5	<5	-	59	17
LB_MW13	LB_MW13_1.7	SOIL	13-Dec-13	24	60	<1	<50	<1	10	<2	<5	9	<5	<0.1	<2	<2	<5	-	20	43	10
LB_MW14	LB_MW14_0.5	SOIL	09-Dec-13	11	80	<1	<50	<1	12	5	6	11	187	<0.1	<2	10	<5	<5	-	32	32
LB_MW14	LB_MW14_2.0	SOIL	13-Dec-13	12	140	1	<50	<1	14	5	16	9	<5	<0.1	<2	10	<5	-	20	28	69
LB_MW15	LB_MW15_0.5	SOIL	09-Dec-13	7	50	<1	<50	<1	10	5	7	10	150	<0.1	<2	13	<5	<5	-	24	30
LB_MW15	LB_MW15_1.6	SOIL	12-Dec-13	12	80	<1	<50	<1	13	11	16	17	233	<0.1	<2	47	<5	<5	-	27	112
Statistical Summary																					
Number of Results				23	23	18	23	23	23	23	23	23	23	23	23	18	5	23	23		
Number of Detects				22	23	5	0	0	23	21	19	23	21	0	0	22	0	0	5	23	23
Minimum Concentration				<5	40	<1	<50	<1	9	<2	<5	9	<5	<0.1	<2	<2	<5	<5	20	20	10
Minimum Detect				7	40	1	ND	ND	9	4	5	9	7	ND	ND	2	ND	ND	20	20	10
Maximum Concentration				24	170	2	<50	<1	24	22	27	114	401	<0.1	<2	47	<5	<5	110	59	719
Maximum Detect				24	170	2	ND	ND	24	22	27	114	401	ND	ND	47	ND	ND	110	59	719
Average Concentration				12	93	0.69	25	0.5	15	7.8	10	17	150	0.05	1	17	2.5	2.5	46	32	79
Median Concentration				11	90	0.5	25	0.5	15	6	9	12	150	0.05	1	15	2.5	2.5	20	28	45
Standard Deviation				4.7	41	0.39	0	0	4.2	5.1	6.4	21	112	0	0	12	0	0	40	10	142
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean s
#2 Generic lead ACL for commercial/industrial
#3 Generic arsenic ACL for commercial/industrial
#4 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for V
#5 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for V
#6 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapo
#7 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for V
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for V
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for V
#10 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vap
#11 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#12 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#13 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indu
#14 ASC NEPM (2013) Ecological Screening Levels for Soil

				PAH/Phenols																						
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																										
Human Health - HSL-D - Vapour Intrusion + 4m SAND																										
Human Health - Direct Contact - HSL-D																										
Human Health - Intrusive - Vapour Intrusion 0-<2m																										
Human Health - Intrusive - Vapour Intrusion 2-<4m																										
Human Health - Intrusive - Vapour Intrusion + 4m																										
Human Health - Intrusive - Direct Contact																										
Human Health - Direct Contact - HIL-D																										
EIL - Commercial / Industrial (Aged)																										
NEPM (2013) ESL - Commercial & Industrial (Fine)																		1.4[#14]								
NEPM (2013) ESL - Commercial & Industrial (Coarse)																		1.4[#14]								
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																										
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																							
LB_MW01	LB_MW01_1.0	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW01	LB_MW01_1.4	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW02	LB_MW02_0.1	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW04	LB_MW04_1.8	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW05	LB_MW05_0.5	SOIL	13-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW05	LB_MW05_2.4	SOIL	13-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW06	LB_MW06_0.5	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW06	LB_MW06_2.3	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW07	LB_MW07_0.1	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW07	LB_MW07_1.6	SOIL	13-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW08	LB_MW08_0.1	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW09	LB_MW09_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW10	LB_MW10_0.5	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW10	LB_MW10_1.6	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW11	LB_MW11_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW11	LB_MW11_3.0	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW12	LB_MW12_0.5	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW12	LB_MW12_3.0	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW13	LB_MW13_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW13	LB_MW13_1.7	SOIL	13-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW14	LB_MW14_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW14	LB_MW14_2.0	SOIL	13-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW15	LB_MW15_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
LB_MW15	LB_MW15_1.6	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																										
Number of Results				23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean s
#2 Generic lead ACL for commercial/industrial
#3 Generic arsenic ACL for commercial/industrial
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#5 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for V
#6 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapo
#7 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for V
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for V
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for V
#10 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vap
#11 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#12 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#13 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indu
#14 ASC NEPM (2013) Ecological Screening Levels for Soil

											Inorganics											
	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	TOC	+1180µm	+150µm	+19.0mm
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	%	%	%	%
EQL	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				NL [#9]																
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				NL [#8]																
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				NL [#7]																
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL [#10]																
Human Health - Direct Contact - HSL-D				11000 [#12]																
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL [#5]																
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL [#4]																
Human Health - Intrusive - Vapour Intrusion + 4m				NL [#6]																
Human Health - Intrusive - Direct Contact				29000 [#11]																
Human Health - Direct Contact - HIL-D					4000 [#13]	660 [#13]		240000 [#13]												
EIL - Commercial / Industrial (Aged)				370 [#15]																
NEPM (2013) ESL - Commercial & Industrial (Fine)																				
NEPM (2013) ESL - Commercial & Industrial (Coarse)																				
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																				

Location Code	Field ID	Matrix Type	Sampled Date																			
LB_MW01	LB_MW01_1.0	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	19.3	-	-	-	-	-	-	-	-
LB_MW01	LB_MW01_1.4	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	11	-	-	-	-	-	-	-	-
LB_MW02	LB_MW02_0.1	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW04	LB_MW04_1.8	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	12.8	-	-	-	-	-	-	-	-
LB_MW05	LB_MW05_0.5	SOIL	13-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	17.8	-	-	-	-	-	-	-	-
LB_MW05	LB_MW05_2.4	SOIL	13-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	17.5	-	-	-	-	-	-	-	-
LB_MW06	LB_MW06_0.5	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	16.6	-	-	-	-	-	-	-	-
LB_MW06	LB_MW06_2.3	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	9.3	-	-	-	-	-	-	-	-
LB_MW07	LB_MW07_0.1	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	13.2	-	-	-	-	-	-	-	-
LB_MW07	LB_MW07_1.6	SOIL	13-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	12.7	-	-	-	-	-	-	-	-
LB_MW08	LB_MW08_0.1	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	12.7	-	-	-	-	-	-	-	-
LB_MW09	LB_MW09_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	16.3	-	-	-	-	-	-	-	-
LB_MW10	LB_MW10_0.5	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	12.6	-	-	-	-	-	-	-	-
LB_MW10	LB_MW10_1.6	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	12.4	-	-	-	-	-	-	-	-
LB_MW11	LB_MW11_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	16.4	-	-	-	-	-	-	-	-
LB_MW11	LB_MW11_3.0	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	15.8	18.8	<0.1	15	0.7	<0.1	0.1	<0.5	7	22	<1
LB_MW12	LB_MW12_0.5	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	12.5	-	-	-	-	-	-	-	-
LB_MW12	LB_MW12_3.0	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	14	-	-	-	-	-	-	-	-
LB_MW13	LB_MW13_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	18.5	-	-	-	-	-	-	-	-
LB_MW13	LB_MW13_1.7	SOIL	13-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	11.8	-	-	-	-	-	-	-	-
LB_MW14	LB_MW14_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	12	-	-	-	-	-	-	-	-
LB_MW14	LB_MW14_2.0	SOIL	13-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	18.6	-	-	-	-	-	-	-	-
LB_MW15	LB_MW15_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	16.6	-	-	-	-	-	-	-	-
LB_MW15	LB_MW15_1.6	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	7.1	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	23	23	23	23	23	23	23	23	23	1	23	1	1	1	1	1	1	1	1	1
Number of Detects	0	0	0	0	0	0	0	0	0	1	23	0	1	1	0	1	0	1	1	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	15.8	7.1	<0.1	15	0.7	<0.1	0.1	<0.5	7	22	<1
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.8	7.1	ND	15	0.7	ND	0.1	ND	7	22	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	15.8	19.3	<0.1	15	0.7	<0.1	0.1	<0.5	7	22	<1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.8	19.3	ND	15	0.7	ND	0.1	ND	7	22	ND
Average Concentration	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25		14									
Median Concentration	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25	15.8	13.2	0.05	15	0.7	0.05	0.1	0.25	7	22	0.5
Standard Deviation	0	0	0	0	0	0	0	0	0		3.3									
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean s
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#13 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indu
#14 ASC NEPM (2013) Ecological Screening Levels for Soil

	Particle Size													
	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND														
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND														
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND														
Human Health - HSL-D - Vapour Intrusion + 4m SAND														
Human Health - Direct Contact - HSL-D														
Human Health - Intrusive - Vapour Intrusion 0-<2m														
Human Health - Intrusive - Vapour Intrusion 2-<4m														
Human Health - Intrusive - Vapour Intrusion + 4m														
Human Health - Intrusive - Direct Contact														
Human Health - Direct Contact - HIL-D														
EIL - Commercial / Industrial (Aged)														
NEPM (2013) ESL - Commercial & Industrial (Fine)														
NEPM (2013) ESL - Commercial & Industrial (Coarse)														
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)														
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**														
LB_MW01	LB_MW01_1.0	SOIL	09-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW01	LB_MW01_1.4	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW02	LB_MW02_0.1	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW04	LB_MW04_1.8	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW05	LB_MW05_0.5	SOIL	13-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW05	LB_MW05_2.4	SOIL	13-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW06	LB_MW06_0.5	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW06	LB_MW06_2.3	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW07	LB_MW07_0.1	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW07	LB_MW07_1.6	SOIL	13-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW08	LB_MW08_0.1	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW09	LB_MW09_0.5	SOIL	09-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW10	LB_MW10_0.5	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW10	LB_MW10_1.6	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW11	LB_MW11_0.5	SOIL	09-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW11	LB_MW11_3.0	SOIL	12-Dec-13	5	15	<1	2	12	10	<1	34	<1	66	30	5	<1	<0.5
LB_MW12	LB_MW12_0.5	SOIL	10-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW12	LB_MW12_3.0	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW13	LB_MW13_0.5	SOIL	09-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW13	LB_MW13_1.7	SOIL	13-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW14	LB_MW14_0.5	SOIL	09-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW14	LB_MW14_2.0	SOIL	13-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW15	LB_MW15_0.5	SOIL	09-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LB_MW15	LB_MW15_1.6	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																	
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				1	1	0	1	1	1	0	1	0	1	1	1	0	0
Minimum Concentration				5	15	<1	2	12	10	<1	34	<1	66	30	5	<1	<0.5
Minimum Detect				5	15	ND	2	12	10	ND	34	ND	66	30	5	ND	ND
Maximum Concentration				5	15	<1	2	12	10	<1	34	<1	66	30	5	<1	<0.5
Maximum Detect				5	15	ND	2	12	10	ND	34	ND	66	30	5	ND	ND
Average Concentration																	
Median Concentration				5	15	0.5	2	12	10	0.5	34	0.5	66	30	5	0.5	0.25
Standard Deviation																	
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

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	TRH												BTEX							Metals							
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND	260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND	370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND	630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]										
Human Health - HSL-D - Vapour Intrusion + 4m SAND	NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]										
Human Health - Direct Contact - HSL-D	NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			NL[#13]										
Human Health - Intrusive - Vapour Intrusion 0-<2m	NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]										
Human Health - Intrusive - Vapour Intrusion 2-<4m	NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]										
Human Health - Intrusive - Vapour Intrusion + 4m	NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]										
Human Health - Intrusive - Direct Contact	82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]										
Human Health - Direct Contact - HIL-D																				3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																				160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)										2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]										
NEPM (2013) ESL - Commercial & Industrial (Coarse)										1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]										
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)	215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																									
LD_MW01	LD_MW01_0.1	SOIL	13-Nov-13	13	140	15	60	840	400	1300	1450	140	1090	220	17	<0.2	<0.5	0.5	0.8	2.7	3.5	4	<5	<1	5	14	9	<0.1	6	79
LD_MW01	LD_MW01_3.0	SOIL	25-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	26	11	14	<0.1	16	18
LD_MW02	LDMW02_0.1	SOIL	13-Nov-13	<10	100	<10	<50	880	690	1570 - 1595	1850	100	1310	440	<10	<0.2	<0.5	<0.5	<0.5	0.6	0.6 - 0.85	0.6	<5	<1	6	9	9	<0.1	6	39
LD_MW04	LDMW04_0.1	SOIL	13-Nov-13	10	240	<10	120	1350	570	2040	2170	240	1650	280	10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	4	14	9	<0.1	5	71
LD_MW05	LD_MW05_0.1	SOIL	13-Nov-13	23	200	26	100	1250	580	1930	2090	200	1580	310	30	<0.2	<0.5	0.9	1.5	4.7	6.2	7.1	5	<1	6	15	9	<0.1	8	80
LD_MW05	LD_MW05_2.0	SOIL	25-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	17	17	10	<0.1	9	37
LD_SB01	LD_SB01_1.3	SOIL	30-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	6	5	9	<0.1	<2	9
LD_SB01	LDSB01_0.1	SOIL	13-Nov-13	<10	200	<10	100	1160	500	1760	1930	200	1470	260	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	6	10	9	<0.1	6	60
LD_SB02	LD_SB02_0.1	SOIL	13-Nov-13	<10	<50	<10	<50	260	160	420 - 445	460	<50	350	110	<10	<0.2	<0.5	<0.5	<0.5	0.6	0.6 - 0.85	0.6	5	<1	13	13	12	<0.1	10	74
LD_SB03	LDSBO3_0.1	SOIL	13-Nov-13	<10	150	<10	70	1060	700	1830	2180	150	1510	520	<10	<0.2	<0.5	<0.5	<0.5	1.2	1.2 - 1.45	1.2	<5	<1	10	10	10	<0.1	8	90
LD_SB04	LD_SB04_0.1	SOIL	13-Nov-13	14	490	10	220	2590	1020	3830	4220	490	3130	600	15	<0.2	<0.5	<0.5	<0.5	1.2	1.2 - 1.45	1.2	<5	<1	6	12	9	<0.1	6	69
LD_SB04	LD_SB04_3.0	SOIL	25-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	17	1	32	14	24	<0.1	24	38
Statistical Summary																													
Number of Results	12	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	4	7	3	6	8	8	8	8	7	8	8	4	0	0	2	2	6	6	6	6	1	12	12	12	0	11	12
Minimum Concentration	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	4	5	9	<0.1	<2	9
Minimum Detect	10	100	10	60	260	160	420	460	100	350	110	10	ND	ND	0.5	0.8	0.6	0.6	0.6	5	1	4	5	9	ND	5	9
Maximum Concentration	23	490	26	220	2590	1020	3830	4220	490	3130	600	30	<0.2	<0.5	0.9	1.5	4.7	6.2	7.1	17	1	32	17	24	<0.1	24	90
Maximum Detect	23	490	26	220	2590	1020	3830	4220	490	3130	600	30	ND	ND	0.9	1.5	4.7	6.2	7.1	17	1	32	17	24	ND	24	90
Average Concentration	8.3	193	8	68	799	402	1234	1371	137	1024	245	9.3	0.1	0.25	0.33	0.4	1	1.3	1.3	5.8	0.54	11	12	11	0.05	8.8	55
Median Concentration	5	175	5	42.5	860	450	1441.25	1650	120	1200	240	5	0.1	0.25	0.25	0.25	0.425	0.4875	0.35	3.75	0.5	6	12.5	9	0.05	7	64.5
Standard Deviation	5.7	137	6.5	60	766	327	1172	1299	137	949	195	7.8	0	0	0.19	0.38	1.4	1.8	2.1	4.5	0.14	9.1	3.2	4.4	0	6	26
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	PAH/Phenols																														MAH									
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																											NL[#10]													
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																											NL[#9]													
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																											NL[#8]													
Human Health - HSL-D - Vapour Intrusion + 4m SAND																											NL[#11]													
Human Health - Direct Contact - HSL-D																											11000[#13]													
Human Health - Intrusive - Vapour Intrusion 0-<2m																											NL[#6]													
Human Health - Intrusive - Vapour Intrusion 2-<4m																											NL[#5]													
Human Health - Intrusive - Vapour Intrusion + 4m																											NL[#7]													
Human Health - Intrusive - Direct Contact																											29000[#12]													
Human Health - Direct Contact - HIL-D																												4000[#14]	660[#14]		240000[#14]									
EIL - Commercial / Industrial (Aged)																											370[#2]													
NEPM (2013) ESL - Commercial & Industrial (Fine)															1.4[#15]																									
NEPM (2013) ESL - Commercial & Industrial (Coarse)															1.4[#15]																									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																								
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																						
LD_MW01	LD_MW01_0.1	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	0.8	1.4	1.2	<0.5	<0.5	1.4	<0.5	3	<0.5	<0.5	<0.5	12.2	<2	3.2	<0.5	2.1	-	-	-	-	-	-	-	-	-
LD_MW01	LD_MW01_3.0	SOIL	25-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LD_MW02	LDMW02_0.1	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	0.6	1.2	0.5	<0.5	<0.5	<0.5	0.6	<0.5	1.2	<0.5	<0.5	<0.5	4.9	<2	1.2	<0.5	0.9	-	-	-	-	-	-	-	-	-
LD_MW04	LDMW04_0.1	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	1.9	0.6	1	1.3	1.6	1.6	<0.5	<0.5	2.1	<0.5	4.9	0.5	<0.5	<0.5	18.9	<2	4.1	<0.5	3.2	-	-	-	-	-	-	-	-	-
LD_MW05	LD_MW05_0.1	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	0.8	1.4	1.2	<0.5	<0.5	1.6	<0.5	4	<0.5	<0.5	<0.5	12.6	<2	2.2	<0.5	2.3	-	-	-	-	-	-	-	-	-
LD_MW05	LD_MW05_2.0	SOIL	25-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LD_SB01	LD_SB01_1.3	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LD_SB01	LDSB01_0.1	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	1.5	<0.5	<0.5	0.8	1.4	1.3	<0.5	<0.5	1.8	<0.5	4.2	<0.5	<0.5	<1 - 0.8	16	<2	3.8	<0.5	2.6	-	-	-	-	-	-	-	-	-
LD_SB02	LD_SB02_0.1	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	2.2	<2	0.7	<0.5	0.6	-	-	-	-	-	-	-	-	-
LD_SB03	LDSBO3_0.1	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	1.4	1.2	<0.5	<0.5	1.4	<0.5	3	<0.5	<0.5	<0.5	12.2	<2	3.1	<0.5	2.2	-	-	-	-	-	-	-	-	-
LD_SB04	LD_SB04_0.1	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	0.5	2.1	0.7	1.1	1.4	1.7	1.8	<0.5	<0.5	2.2	<0.5	4.9	0.7	<0.5	<1 - 0.6	21.7	<2	4.6	<0.5	3.6	-	-	-	-	-	-	-	-	-
LD_SB04	LD_SB04_3.0	SOIL	25-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	8	8	12	12	12	12	12	12	12	12	12	12	12	12	12	1	1	1	1	1	1	1	1	1
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	1	7	2	2	8	8	7	0	0	7	0	8	2	0	2	8	0	8	0	8	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	0.5	0.6	1	0.6	1.2	0.5	ND	ND	0.6	ND	0.9	0.5	ND	ND	2.2	ND	0.7	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	0.5	2.1	0.7	1.1	1.4	1.7	1.8	<0.5	<0.5	2.2	<0.5	4.9	0.7	<0.5	0.8	21.7	<2	4.6	<0.5	3.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	2.1	0.7	1.1	1.4	1.7	1.8	ND	ND	2.2	ND	4.9	0.7	ND	0.8	21.7	ND	4.6	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.27	0.93	0.32	0.38	0.89	1.4	0.84	0.25	0.25	1	0.25	2.3	0.31	0.25	0.31	8.5	1	2	0.25	1.5								
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.9	0.25	0.25	0.8	1.4	0.85	0.25	0.25	1	0.25	2.1	0.25	0.25	0.25	8.55	1	1.7	0.25	1.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0.072	0.71	0.16	0.31	0.3	0.17	0.6	0	0	0.79	0	1.9	0.14	0	0.14	8	0	1.7	0	1.3								
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean s
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for V
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for V
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapc
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for V
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for V
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vap
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indu
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Chlorinated Hydrocarbons																										Halogenated Benzenes								
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																								
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																								
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																								
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																								
Human Health - Direct Contact - HSL-D																																								
Human Health - Intrusive - Vapour Intrusion 0-<2m																																								
Human Health - Intrusive - Vapour Intrusion 2-<4m																																								
Human Health - Intrusive - Vapour Intrusion + 4m																																								
Human Health - Intrusive - Direct Contact																																								
Human Health - Direct Contact - HIL-D																																								
EIL - Commercial / Industrial (Aged)																																								
NEPM (2013) ESL - Commercial & Industrial (Fine)																																								
NEPM (2013) ESL - Commercial & Industrial (Coarse)																																								
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																								
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																					
LD_MW01	LD_MW01_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LD_MW01	LD_MW01_3.0	SOIL	25-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LD_MW02	LDMW02_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LD_MW04	LDMW04_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LD_MW05	LD_MW05_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LD_MW05	LD_MW05_2.0	SOIL	25-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LD_SB01	LD_SB01_1.3	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LD_SB01	LDSB01_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LD_SB02	LD_SB02_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LD_SB03	LDSBO3_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LD_SB04	LD_SB04_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LD_SB04	LD_SB04_3.0	SOIL	25-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																								
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation																																								
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean s
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for V
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for V
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapc
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for V
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for V
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vap
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indu
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

| | | |

				TRH											BTEX						
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]	
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]	
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]	
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]	
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#11]	
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]	
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]	
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]	
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]	
Human Health - Direct Contact - HIL-D																						
EIL - Commercial / Industrial (Aged)																						
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]	
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]										
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																			
LE_MW01	LE_MW01_0.1	SOIL	12-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW01	LE_MW01_2.8	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW01	LE_MW01_3.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW02	LE_MW02_0.5	SOIL	12-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW02	LE_MW02_4.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW03	LE_MW03_0.5	SOIL	12-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW03	LE_MW03_2.0	SOIL	21-Nov-13	31	1590	16	830	1960	<100	2790 - 2840	2800	1590	1210	<100	31	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW03	LE_MW03_2.8	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW04	LE_MW04_0.5	SOIL	12-Nov-13	114	1770	75	960	4500	1000	6460	6500	1770	4460	270	116	0.5	<0.5	1.8	<0.5	<0.5	<0.5	2.3
LE_MW04	LE_MW04_1.0	SOIL	12-Nov-13	55	1310	34	710	3130	610	4450	4440	1310	2970	160	56	<0.2	<0.5	0.9	<0.5	<0.5	<0.5	0.9
LE_MW04	LE_MW04_2.0	SOIL	21-Nov-13	14	100	<10	50	240	<100	290 - 340	320	100	220	<100	14	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW04	LE_MW04_4.0	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW05	LE_M05_0.1	SOIL	12-Nov-13	<10	<50	<10	<50	180	130	310 - 335	370	<50	250	120	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW05	LE_MW05_3.0	SOIL	30-Nov-13	52	-	37	880	3470	880	5230	5350	1650	3460	240	61	<0.2	2.1	0.9	1.7	3.8	5.5	8.5
LE_MW06	LE_MW06_0.1	SOIL	12-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_MW06	LE_MW06_2.5	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB01	LE_SB01_1.0	SOIL	22-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB02	LE_SB02_0.5	SOIL	12-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB02	LE_SB02_1.5	SOIL	21-Nov-13	<10	140	<10	60	230	<100	290 - 340	280	140	140	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB02	LE_SB02_1.9	SOIL	21-Nov-13	<10	510	<10	250	700	<100	950 - 1000	930	510	420	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB03	LE_SB03_2.3	SOIL	30-Nov-13	19	-	<10	810	1990	<100	2800 - 2850	2810	1560	1250	<100	19	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB04	LE_SB04_0.5	SOIL	12-Nov-13	<10	<50	<10	<50	180	<100	180 - 255	160	<50	160	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB04	LE_SB04_2.0	SOIL	21-Nov-13	<10	190	<10	90	280	<100	370 - 420	370	190	180	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB04	LE_SB04_3.0	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB05	LE_SB05_0.5	SOIL	12-Nov-13	<10	<50	<10	<50	<100	<100	<50	120	<50	120	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB05	LE_SB05_3.0	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB06	LE_SB06_0.5	SOIL	12-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB06	LE_SB06_1.0	SOIL	21-Nov-13	<10	800	<10	450	900	<100	1350 - 1400	1350	800	550	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB06	LE_SB06_3.0	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LF_SB07	LF_SB07_0.5	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB07	LE_SB07_1.6	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB07	LE_SB07_2.3	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB08	LE_SB08_0.5	SOIL	12-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB08	LE_SB08_3.0	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LE_SB09	LE_SB09_3.0	SOIL	26-Nov-13	110	-	69	760	2850	690	4300	4350	1380	2800	170	126	0.3	2	1.7	3.5	8.4	11.9	15.9
Statistical Summary																						
Number of Results				34	31	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Number of Detects				7	8	5	11	13	5	13	14	11	14	5	7	2	2	4	2	2	2	4
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
Minimum Detect				14	100	16	50	180	130	180	120	100	120	120	14	0.3	2	0.9	1.7	3.8	5.5	0.9
Maximum Concentration				114	1770	75	960	4500	1000	6460	6500	1770	4460	270	126	0.5	2.1	1.8	3.5	8.4	11.9	15.9
Maximum Detect				114	1770	75	960	4500	1000	6460	6500	1770	4460	270	126	0.5	2.1	1.8	3.5	8.4	11.9	15.9
Average Concentration				16	225	11	189	637	140	898	901	340	564	71	16	0.12	0.36	0.38	0.39	0.59	0.75	0.9
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1
Standard Deviation				27	476	17	312	1178	249	1734	1748	590	1121	55	30	0.076	0.43	0.38	0.6	1.5	2.2	3
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	9	4	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	9	4	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Metals								P.																		
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				5	1	2	5	5	0.1	2	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																											
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																											
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																											
Human Health - HSL-D - Vapour Intrusion + 4m SAND																											
Human Health - Direct Contact - HSL-D																											
Human Health - Intrusive - Vapour Intrusion 0-<2m																											
Human Health - Intrusive - Vapour Intrusion 2-<4m																											
Human Health - Intrusive - Vapour Intrusion + 4m																											
Human Health - Intrusive - Direct Contact																											
Human Health - Direct Contact - HIL-D				3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]																
EIL - Commercial / Industrial (Aged)				160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]																
NEPM (2013) ESL - Commercial & Industrial (Fine)																										1.4[#15]	
NEPM (2013) ESL - Commercial & Industrial (Coarse)																										1.4[#15]	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																											
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LE_MW01	LE_MW01_0.1	SOIL	12-Nov-13	7	<1	17	19	23	<0.1	19	78	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW01	LE_MW01_2.8	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW01	LE_MW01_3.0	SOIL	20-Nov-13	<5	<1	13	6	11	<0.1	4	15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW02	LE_MW02_0.5	SOIL	12-Nov-13	20	<1	22	8	13	<0.1	10	27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW02	LE_MW02_4.0	SOIL	20-Nov-13	5	<1	8	<5	9	<0.1	3	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW03	LE_MW03_0.5	SOIL	12-Nov-13	12	<1	12	13	13	<0.1	11	41	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW03	LE_MW03_2.0	SOIL	21-Nov-13	14	<1	18	12	11	<0.1	16	28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW03	LE_MW03_2.8	SOIL	21-Nov-13	10	<1	12	6	15	<0.1	4	18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW04	LE_MW04_0.5	SOIL	12-Nov-13	14	<1	9	12	12	<0.1	14	52	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW04	LE_MW04_1.0	SOIL	12-Nov-13	8	<1	10	15	10	<0.1	6	35	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW04	LE_MW04_2.0	SOIL	21-Nov-13	<5	<1	5	<5	8	<0.1	<2	10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW04	LE_MW04_4.0	SOIL	21-Nov-13	<5	<1	6	<5	11	<0.1	<2	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW05	LE_M05_0.1	SOIL	12-Nov-13	5	<1	21	35	17	<0.1	22	133	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW05	LE_MW05_3.0	SOIL	30-Nov-13	<5	<1	5	<5	7	<0.1	<2	6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW06	LE_MW06_0.1	SOIL	12-Nov-13	<5	<1	17	21	<5	<0.1	31	47	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_MW06	LE_MW06_2.5	SOIL	21-Nov-13	7	<1	9	<5	11	<0.1	4	23	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB01	LE_SB01_1.0	SOIL	22-Nov-13	9	<1	14	<5	11	<0.1	5	9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB02	LE_SB02_0.5	SOIL	12-Nov-13	10	<1	13	<5	10	<0.1	4	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB02	LE_SB02_1.5	SOIL	21-Nov-13	<5	<1	8	<5	11	<0.1	<2	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB02	LE_SB02_1.9	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB03	LE_SB03_2.3	SOIL	30-Nov-13	<5	<1	4	<5	14	<0.1	<2	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB04	LE_SB04_0.5	SOIL	12-Nov-13	11	<1	15	24	16	<0.1	21	218	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB04	LE_SB04_2.0	SOIL	21-Nov-13	22	<1	20	17	11	<0.1	6	46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB04	LE_SB04_3.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB05	LE_SB05_0.5	SOIL	12-Nov-13	10	<1	11	11	14	<0.1	14	58	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB05	LE_SB05_3.0	SOIL	21-Nov-13	<5	<1	6	<5	8	<0.1	<2	6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB06	LE_SB06_0.5	SOIL	12-Nov-13	14	<1	13	29	16	<0.1	21	84	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB06	LE_SB06_1.0	SOIL	21-Nov-13	6	<1	9	16	11	<0.1	9	33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB06	LE_SB06_3.0	SOIL	21-Nov-13	11	<1	12	8	14	<0.1	8	44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LF_SB07	LE_SB07_0.5	SOIL	21-Nov-13	16	<1	13	29	13	<0.1	10	58	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB07	LE_SB07_1.6	SOIL	21-Nov-13	17	<1	11	26	21	<0.1	12	57	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB07	LE_SB07_2.3	SOIL	21-Nov-13	8	<1	12	14	17	<0.1	8	34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB08	LE_SB08_0.5	SOIL	12-Nov-13	12	<1	9	11	13	<0.1	10	36	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB08	LE_SB08_3.0	SOIL	21-Nov-13	10	<1	24	5	12	<0.1	12	28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LE_SB09	LE_SB09_3.0	SOIL	26-Nov-13	14	<1	11	5	16	<0.1	3	56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																											
Number of Results				32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Number of Detects				24	0	32	22	31	0	26	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<5	<1	4	<5	<5	<0.1	<2	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect				5	ND	4	5	7	ND	3	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				22	<1	24	35	23	<0.1	31	218	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect				22	ND	24	35	23	ND	31	218	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				9.1	0.5	12	11	13	0.05	9.2	41	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration				9.5	0.5	12	9.5	12	0.05	8	33.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation				5.5	0	5.1	9.4	4	0	7.5	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vap
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vap
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vap
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vap
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Va
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapou
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industr
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				AH/Phenols																	Inorganics							
				Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	CEC	Electrical conductivity *(lab)	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	meq/100g	uS/cm	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5	0.1	1	1	0.1	0.1	0.1	0.1	0.1
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND														NL[#10]													
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND														NL[#9]													
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND														NL[#8]													
Human Health - HSL-D - Vapour Intrusion + 4m SAND														NL[#11]													
Human Health - Direct Contact - HSL-D														11000[#13]													
Human Health - Intrusive - Vapour Intrusion 0-<2m														NL[#6]													
Human Health - Intrusive - Vapour Intrusion 2-<4m														NL[#5]													
Human Health - Intrusive - Vapour Intrusion + 4m														NL[#7]													
Human Health - Intrusive - Direct Contact														29000[#12]													
Human Health - Direct Contact - HIL-D															4000[#14]	660[#14]		240000[#14]									
EIL - Commercial / Industrial (Aged)														370[#2]													
NEPM (2013) ESL - Commercial & Industrial (Fine)																											
NEPM (2013) ESL - Commercial & Industrial (Coarse)																											
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																											
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																									
LE_MW01	LE_MW01_0.1	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	19.8	-	-	-	-	-
LE_MW01	LE_MW01_2.8	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW01	LE_MW01_3.0	SOIL	20-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	382	22.4	-	-	-	-	-
LE_MW02	LE_MW02_0.5	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	20.8	-	-	-	-	-
LE_MW02	LE_MW02_4.0	SOIL	20-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	18.6	-	-	-	-	-
LE_MW03	LE_MW03_0.5	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	22.1	-	-	-	-	-
LE_MW03	LE_MW03_2.0	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	<0.5	4.1	<2	2.3	<0.5	<0.5	-	-	24.6	-	-	-	-	-
LE_MW03	LE_MW03_2.8	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	18.9	-	-	-	-	-
LE_MW04	LE_MW04_0.5	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1 - 4	5.3	<2	2.2	<0.5	<0.5	-	-	24	-	-	-	-	-
LE_MW04	LE_MW04_1.0	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.8 - 2	3.4	<2	1.6	<0.5	<0.5	-	-	14.4	-	-	-	-	-
LE_MW04	LE_MW04_2.0	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	16.5	-	-	-	-	-
LE_MW04	LE_MW04_4.0	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	17.4	-	-	-	-	-
LE_MW05	LE_M05_0.1	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	45.6	-	-	-	-	-
LE_MW05	LE_MW05_3.0	SOIL	30-Nov-13	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2 - 2.3	4.7	<2	2.4	<0.5	<0.5	-	-	14	-	-	-	-	-
LE_MW06	LE_MW06_0.1	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	8	-	-	-	-	-
LE_MW06	LE_MW06_2.5	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	15.9	-	-	-	-	-
LE_SB01	LE_SB01_1.0	SOIL	22-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	8	-	18.4	<0.1	1.7	5	<0.1	1.2
LE_SB02	LE_SB02_0.5	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	21.4	-	-	-	-	-
LE_SB02	LE_SB02_1.5	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	17.9	-	-	-	-	-
LE_SB02	LE_SB02_1.9	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	21.7	-	-	-	-	-
LE_SB03	LE_SB03_2.3	SOIL	30-Nov-13	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 - 1.3	3.7	<2	2.4	<0.5	<0.5	-	-	23.7	-	-	-	-	-
LE_SB04	LE_SB04_0.5	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	18.3	-	-	-	-	-
LE_SB04	LE_SB04_2.0	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	16.2	-	-	-	-	-
LE_SB04	LE_SB04_3.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	14.3	-	-	-	-	-
LE_SB05	LE_SB05_0.5	SOIL	12-Nov-13	0.6	1.2	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<2	<0.5	<0.5	<0.5	-	-	19.6	-	-	-	-	-
LE_SB05	LE_SB05_3.0	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	18.3	-	-	-	-	-
LE_SB06	LE_SB06_0.5	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	19.3	-	-	-	-	-
LE_SB06	LE_SB06_1.0	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1 - 0.8	2.4	<2	1.6	<0.5	<0.5	-	-	22.6	-	-	-	-	-
LE_SB06	LE_SB06_3.0	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	17.5	-	-	-	-	-
LF_SB07	LE_SB07_0.5	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	18.6	-	-	-	-	-
LE_SB07	LE_SB07_1.6	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	19.5	-	-	-	-	-
LE_SB07	LE_SB07_2.3	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	19.2	-	-	-	-	-
LE_SB08	LE_SB08_0.5	SOIL	12-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	19.6	-	-	-	-	-
LE_SB08	LE_SB08_3.0	SOIL	21-Nov-13	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	19.8	-	-	-	-	-
LE_SB09	LE_SB09_3.0	SOIL	26-Nov-13	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.7 - 3	4.6	<2	1.9	<0.5	<0.5	-	-	17.2	-	-	-	-	-
Statistical Summary																											
Number of Results				29	29	32	32	32	32	32	32	32	32	34	32	32	32	32	32	1	1	34	1	1	1	1	1
Number of Detects				29	29	0	1	0	0	0	0	1	0	6	8	0	7	0	0	1	1	34	0	1	1	0	1
Minimum Concentration				0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	8	382	8	<0.1	1.7	5	<0.1	1.2
Minimum Detect				0.6	1.2	ND	0.6	ND	ND	ND	ND	1.8	ND	1.8	0.6	ND	1.6	ND	ND	8	382	8	ND	1.7	5	ND	1.2
Maximum Concentration				0.6	1.2	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	4	5.3	<2	2.4	<0.5	<0.5	8	382	45.6	<0.1	1.7	5	<0.1	1.2
Maximum Detect				0.6	1.2	ND	0.6	ND	ND	ND	ND	1.8	ND	4	5.3	ND	2.4	ND	ND	8	382	45.6	ND	1.7	5	ND	1.2
Average Concentration				0.6	1.2	0.25	0.26	0.25	0.25	0.25	0.25	0.3	0.25	0.57	1.1	1	0.65	0.25	0.25			20					
Median Concentration				0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25	8	382	19.05	0.05	1.7	5	0.05	1.2
Standard Deviation				0	0	0	0.062	0	0	0	0	0.27	0	0.8	1.6	0	0.77	0	0			5.6					
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vap
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vap
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vap
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vap
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Va
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapou
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industr
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Particle Size																	
				pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
				pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL				0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																						
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																						
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																						
Human Health - HSL-D - Vapour Intrusion + 4m SAND																						
Human Health - Direct Contact - HSL-D																						
Human Health - Intrusive - Vapour Intrusion 0-<2m																						
Human Health - Intrusive - Vapour Intrusion 2-<4m																						
Human Health - Intrusive - Vapour Intrusion + 4m																						
Human Health - Intrusive - Direct Contact																						
Human Health - Direct Contact - HIL-D																						
EIL - Commercial / Industrial (Aged)																						
NEPM (2013) ESL - Commercial & Industrial (Fine)																						
NEPM (2013) ESL - Commercial & Industrial (Coarse)																						
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																						
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																			
LE_MW01	LE_MW01_0.1	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW01	LE_MW01_2.8	SOIL	20-Nov-13	-	<0.5	3	13	<1	1	8	<1	<1	6	5	<1	18	<1	82	16	1	<1	0.7
LE_MW01	LE_MW01_3.0	SOIL	20-Nov-13	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW02	LE_MW02_0.5	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW02	LE_MW02_4.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW03	LE_MW03_0.5	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW03	LE_MW03_2.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW03	LE_MW03_2.8	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW04	LE_MW04_0.5	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW04	LE_MW04_1.0	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW04	LE_MW04_2.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW04	LE_MW04_4.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW05	LE_M05_0.1	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW05	LE_MW05_3.0	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW06	LE_MW06_0.1	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_MW06	LE_MW06_2.5	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB01	LE_SB01_1.0	SOIL	22-Nov-13	6.2	<0.5	6	22	<1	3	14	<1	<1	10	8	<1	29	<1	71	25	3	<1	0.7
LE_SB02	LE_SB02_0.5	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB02	LE_SB02_1.5	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB02	LE_SB02_1.9	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB03	LE_SB03_2.3	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB04	LE_SB04_0.5	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB04	LE_SB04_2.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB04	LE_SB04_3.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB05	LE_SB05_0.5	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB05	LE_SB05_3.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB06	LE_SB06_0.5	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB06	LE_SB06_1.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB06	LE_SB06_3.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LF_SB07	LF_SB07_0.5	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB07	LE_SB07_1.6	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB07	LE_SB07_2.3	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB08	LE_SB08_0.5	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB08	LE_SB08_3.0	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LE_SB09	LE_SB09_3.0	SOIL	26-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																						
Number of Results				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects				2	0	2	2	0	2	2	0	0	2	2	0	2	0	2	2	2	0	2
Minimum Concentration				6.2	<0.5	3	13	<1	1	8	<1	<1	6	5	<1	18	<1	71	16	1	<1	0.7
Minimum Detect				6.2	ND	3	13	ND	1	8	ND	ND	6	5	ND	18	ND	71	16	1	ND	0.7
Maximum Concentration				6.2	<0.5	6	22	<1	3	14	<1	<1	10	8	<1	29	<1	82	25	3	<1	0.7
Maximum Detect				6.2	ND	6	22	ND	3	14	ND	ND	10	8	ND	29	ND	82	25	3	ND	0.7
Average Concentration																						
Median Concentration				6.2	0.25	4.5	17.5	0.5	2	11	0.5	0.5	8	6.5	0.5	23.5	0.5	76.5	20.5	2	0.5	0.7
Standard Deviation																						
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vap
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vap
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vap
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vap
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Va
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapou
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industr
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				TRH											BTEX							Metals							
				C6-C10 less BTEX (F1)	>C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D																							3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																							160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LF_MW01	LF_MW01_0.1	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	14	11	<5	<0.1	20	40
LF_SB01	LF_SB01_0.1	SOIL	21-Nov-13	<10	80	<10	<50	1970	150	2120 - 2145	2150	80	2070	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	18	18	5	<0.1	26	52
LF_SB02	LF_SB02_0.1	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	16	13	9	<0.1	28	43
LF_SB02	LF_SB02_0.5	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	9	10	14	<0.1	15	88
LF_SB03	LF_SB03_0.1	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	12	9	12	<0.1	17	50
LF_SB03	LF_SB03_0.3	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	10	7	13	<0.1	12	88
LF_SB04	LF_SB04_0.1	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	14	11	13	<0.1	21	58
LF_SB04	LF_SB04_0.6	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	16	<1	13	10	13	<0.1	13	90
Statistical Summary																														
Number of Results				8	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects				0	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	6	0	8	8	7	0	8	8
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	9	7	<5	<0.1	12	40
Minimum Detect				ND	80	ND	ND	1970	150	2120	2150	80	2070	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	ND	9	7	5	ND	12	40
Maximum Concentration				<10	80	<10	<50	1970	150	2145	2150	80	2070	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	16	<1	18	18	14	<0.1	28	90
Maximum Detect				ND	80	ND	ND	1970	150	2145	2150	80	2070	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	ND	18	18	14	ND	28	90
Average Concentration				5	36	5	25	290	63	288	291	32	303	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	10	0.5	13	11	10	0.05	19	64
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	12.5	0.5	13.5	10.5	12.5	0.05	18.5	55
Standard Deviation				0	25	0	0	679	35	745	751	19	714	0	0	0	0	0	0	0	0	0	5.3	0	3	3.3	4.3	0	5.9	21
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				PAH/Phenols																																
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																														NL[#10]					
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																														NL[#9]					
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																														NL[#8]					
Human Health - HSL-D - Vapour Intrusion + 4m SAND																														NL[#11]					
Human Health - Direct Contact - HSL-D																														11000[#13]					
Human Health - Intrusive - Vapour Intrusion 0-<2m																														NL[#6]					
Human Health - Intrusive - Vapour Intrusion 2-<4m																														NL[#5]					
Human Health - Intrusive - Vapour Intrusion + 4m																														NL[#7]					
Human Health - Intrusive - Direct Contact																														29000[#12]					
Human Health - Direct Contact - HIL-D																															4000[#14]	660[#14]		240000[#14]	
EIL - Commercial / Industrial (Aged)																														370[#2]					
NEPM (2013) ESL - Commercial & Industrial (Fine)																		1.4[#15]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse)																		1.4[#15]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																	
LF_MW01	LF_MW01_0.1	SOIL	21-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LF_SB01	LF_SB01_0.1	SOIL	21-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LF_SB02	LF_SB02_0.1	SOIL	21-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LF_SB02	LF_SB02_0.5	SOIL	26-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LF_SB03	LF_SB03_0.1	SOIL	21-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LF_SB03	LF_SB03_0.3	SOIL	26-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LF_SB04	LF_SB04_0.1	SOIL	21-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LF_SB04	LF_SB04_0.6	SOIL	26-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Statistical Summary																																				
Number of Results				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	5	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vap
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils fo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Va
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Ind
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Inorganics									Particle Size															
				CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
				meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL				0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																												
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																												
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																												
Human Health - HSL-D - Vapour Intrusion + 4m SAND																												
Human Health - Direct Contact - HSL-D																												
Human Health - Intrusive - Vapour Intrusion 0-<2m																												
Human Health - Intrusive - Vapour Intrusion 2-<4m																												
Human Health - Intrusive - Vapour Intrusion + 4m																												
Human Health - Intrusive - Direct Contact																												
Human Health - Direct Contact - HIL-D																												
EIL - Commercial / Industrial (Aged)																												
NEPM (2013) ESL - Commercial & Industrial (Fine)																												
NEPM (2013) ESL - Commercial & Industrial (Coarse)																												
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																												
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																									
LF_MW01	LF_MW01_0.1	SOIL	21-Nov-13	-	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LF_SB01	LF_SB01_0.1	SOIL	21-Nov-13	-	17.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LF_SB02	LF_SB02_0.1	SOIL	21-Nov-13	27.4	16.9	<0.1	25	1.9	0.3	0.2	8.2	<0.5	22	63	<1	15	51	<1	9	42	33	<1	69	2	31	54	15	<1	<0.5
LF_SB02	LF_SB02_0.5	SOIL	26-Nov-13	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LF_SB03	LF_SB03_0.1	SOIL	21-Nov-13	-	9.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LF_SB03	LF_SB03_0.3	SOIL	26-Nov-13	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LF_SB04	LF_SB04_0.1	SOIL	21-Nov-13	-	13.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LF_SB04	LF_SB04_0.6	SOIL	26-Nov-13	-	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	1	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects	1	8	0	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	1	0	1	1	1	1	1	0	0
Minimum Concentration	27.4	6.4	<0.1	25	1.9	0.3	0.2	8.2	<0.5	22	63	<1	15	51	<1	9	42	33	<1	69	2	31	54	15	<1	<0.5
Minimum Detect	27.4	6.4	ND	25	1.9	0.3	0.2	8.2	ND	22	63	ND	15	51	ND	9	42	33	ND	69	2	31	54	15	ND	ND
Maximum Concentration	27.4	17.4	<0.1	25	1.9	0.3	0.2	8.2	<0.5	22	63	<1	15	51	<1	9	42	33	<1	69	2	31	54	15	<1	<0.5
Maximum Detect	27.4	17.4	ND	25	1.9	0.3	0.2	8.2	ND	22	63	ND	15	51	ND	9	42	33	ND	69	2	31	54	15	ND	ND
Average Concentration		12																									
Median Concentration	27.4	12.55	0.05	25	1.9	0.3	0.2	8.2	0.25	22	63	0.5	15	51	0.5	9	42	33	0.5	69	2	31	54	15	0.5	0.25
Standard Deviation		4.1																									
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vap
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils fo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Va
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Ind
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				TRH												BTEX							Metals							
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D																							3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																							160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LG_MW01	LG_MW01_0.5	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	15	<1	10	17	20	<0.1	28	88
LG_MW01	LG_MW01_1.5	SOIL	06-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	10	15	17	<0.1	34	64
LG_MW02	LG_MW02_0.1	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	14	12	10	<0.1	16	38
LG_MW02	LG_MW02_1.0	SOIL	06-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	10	15	14	<0.1	22	70
LG_MW03	LG_MW03_0.5	SOIL	02-Dec-13	<10	<50	<10	<50	140	<100	140 - 215	190	<50	190	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	2	32	49	40	<0.1	39	386
LG_MW03	LG_MW03_1.0	SOIL	06-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	9	15	16	<0.1	25	69
Statistical Summary																														
Number of Results				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detects				0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	6	1	6	6	6	0	6	6
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	9	12	10	<0.1	16	38
Minimum Detect				ND	ND	ND	ND	140	ND	140	190	ND	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	2	9	12	10	ND	16	38
Maximum Concentration				<10	<50	<10	<50	140	<100	215	190	<50	190	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	15	2	32	49	40	<0.1	39	386
Maximum Detect				ND	ND	ND	ND	140	ND	215	190	ND	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	2	32	49	40	ND	39	386
Average Concentration				5	25	5	25	65	50	50	53	25	73	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	13	0.75	14	21	20	0.05	27	119
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	13	0.5	10	15	16.5	0.05	26.5	69.5
Standard Deviation				0	0	0	0	37	0	62	67	0	57	0	0	0	0	0	0	0	0	0	1.2	0.61	8.9	14	11	0	8.3	132
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				PAH/Phenols																																	
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																														NL[#10]					
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																														NL[#9]					
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																														NL[#8]					
Human Health - HSL-D - Vapour Intrusion + 4m SAND																														NL[#11]					
Human Health - Direct Contact - HSL-D																														11000[#13]					
Human Health - Intrusive - Vapour Intrusion 0-<2m																														NL[#6]					
Human Health - Intrusive - Vapour Intrusion 2-<4m																														NL[#5]					
Human Health - Intrusive - Vapour Intrusion + 4m																														NL[#7]					
Human Health - Intrusive - Direct Contact																														29000[#12]					
Human Health - Direct Contact - HIL-D																															4000[#14]	660[#14]		240000[#14]	
EIL - Commercial / Industrial (Aged)																														370[#2]					
NEPM (2013) ESL - Commercial & Industrial (Fine)																		1.4[#15]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse)																		1.4[#15]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																		
LG_MW01	LG_MW01_0.5	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LG_MW01	LG_MW01_1.5	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LG_MW02	LG_MW02_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LG_MW02	LG_MW02_1.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LG_MW03	LG_MW03_0.5	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LG_MW03	LG_MW03_1.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Statistical Summary																																					
Number of Results				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean s
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for V
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for V
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapo
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for V
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for V
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vap
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indu
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Inorganics									Particle Size																	
				CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
				meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL				0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																														
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																														
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																														
Human Health - HSL-D - Vapour Intrusion + 4m SAND																														
Human Health - Direct Contact - HSL-D																														
Human Health - Intrusive - Vapour Intrusion 0-<2m																														
Human Health - Intrusive - Vapour Intrusion 2-<4m																														
Human Health - Intrusive - Vapour Intrusion + 4m																														
Human Health - Intrusive - Direct Contact																														
Human Health - Direct Contact - HIL-D																														
EIL - Commercial / Industrial (Aged)																														
NEPM (2013) ESL - Commercial & Industrial (Fine)																														
NEPM (2013) ESL - Commercial & Industrial (Coarse)																														
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																														
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LG_MW01	LG_MW01_0.5	SOIL	02-Dec-13	-	17.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LG_MW01	LG_MW01_1.5	SOIL	06-Dec-13	-	19.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LG_MW02	LG_MW02_0.1	SOIL	05-Dec-13	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LG_MW02	LG_MW02_1.0	SOIL	06-Dec-13	-	20.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LG_MW03	LG_MW03_0.5	SOIL	02-Dec-13	14.4	12	<0.1	13	1	0.3	<0.1	7.6	1.9	26	72	8	14	59	<1	9	44	36	<1	76	8	24	62	14	<1	3.4
LG_MW03	LG_MW03_1.0	SOIL	06-Dec-13	-	17.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																														
Number of Results				1	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				1	6	0	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	0	1
Minimum Concentration				14.4	12	<0.1	13	1	0.3	<0.1	7.6	1.9	26	72	8	14	59	<1	9	44	36	<1	76	8	24	62	14	<1	3.4
Minimum Detect				14.4	12	ND	13	1	0.3	ND	7.6	1.9	26	72	8	14	59	ND	9	44	36	ND	76	8	24	62	14	ND	3.4
Maximum Concentration				14.4	21	<0.1	13	1	0.3	<0.1	7.6	1.9	26	72	8	14	59	<1	9	44	36	<1	76	8	24	62	14	<1	3.4
Maximum Detect				14.4	21	ND	13	1	0.3	ND	7.6	1.9	26	72	8	14	59	ND	9	44	36	ND	76	8	24	62	14	ND	3.4
Average Concentration					18																									
Median Concentration				14.4	18.65	0.05	13	1	0.3	0.05	7.6	1.9	26	72	8	14	59	0.5	9	44	36	0.5	76	8	24	62	14	0.5	3.4
Standard Deviation					3.2																									
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean s
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for V
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for V
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapo
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for V
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for V
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for `
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vap
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indu
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

Table 4h. AEC LH Soil Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

				TRH											BTEX							Metals							
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]										3[#10]	NL[#10]	NL[#10]			230[#10]										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]										3[#9]	NL[#9]	NL[#9]			NL[#9]										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]										3[#8]	NL[#8]	NL[#8]			NL[#8]										
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]										3[#11]	NL[#11]	NL[#11]			NL[#11]										
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]										430[#13]	NL[#13]	NL[#13]			81000[#13]										
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]										77[#6]	NL[#6]	NL[#6]			NL[#6]										
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]										160[#5]	NL[#5]	NL[#5]			NL[#5]										
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]										NL[#7]	NL[#7]	NL[#7]			NL[#7]										
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]										
Human Health - Direct Contact - HIL-D																							3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																							160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]										
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]										
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LH_MW01	LH_MW01_0.5	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	13	12	15	<0.1	46	128
LH_MW01	LH_MW01_1.0	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	23	1	18	18	22	<0.1	39	187
LH_MW02	LH_MW02_0.5	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	12	11	15	<0.1	12	55
LH_MW02	LH_MW02_1.6	SOIL	05-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LH_MW02	LH_MW02_1.87	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	12	6	17	<0.1	5	27
LH_MW03	LH_MW03_0.1	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	24	22	19	<0.1	30	64
LH_MW03	LH_MW03_3.0	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	2	<5	8	<0.1	<2	<5
LH_SB01	LH_SB01_0.5	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	23	30	22	<0.1	22	90
LH_SB01	LH_SB01_2.0	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	10	7	8	<0.1	4	20
Statistical Summary																														
Number of Results				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	8	7	8	0	7	7
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	2	<5	8	<0.1	<2	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	1	2	6	8	ND	4	20
Maximum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	23	1	24	30	22	<0.1	46	187
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	1	24	30	22	ND	46	187
Average Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	9.7	0.56	14	14	16	0.05	20	72
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	11	0.5	12.5	11.5	16	0.05	17	59.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.1	0.18	7.2	9.2	5.5	0	17	62
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				PAH/Phenols																														
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																														NL[#10]					
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																														NL[#9]					
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																														NL[#8]					
Human Health - HSL-D - Vapour Intrusion + 4m SAND																														NL[#11]					
Human Health - Direct Contact - HSL-D																														11000[#13]					
Human Health - Intrusive - Vapour Intrusion 0-<2m																														NL[#6]					
Human Health - Intrusive - Vapour Intrusion 2-<4m																														NL[#5]					
Human Health - Intrusive - Vapour Intrusion + 4m																														NL[#7]					
Human Health - Intrusive - Direct Contact																														29000[#12]					
Human Health - Direct Contact - HIL-D																															4000[#14]	660[#14]		240000[#14]	
EIL - Commercial / Industrial (Aged)																														370[#2]					
NEPM (2013) ESL - Commercial & Industrial (Fine)																		1.4[#15]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse)																		1.4[#15]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																
LH_MW01	LH_MW01_0.5	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LH_MW01	LH_MW01_1.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LH_MW02	LH_MW02_0.5	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LH_MW02	LH_MW02_1.6	SOIL	05-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LH_MW02	LH_MW02_1.87	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LH_MW03	LH_MW03_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LH_MW03	LH_MW03_3.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LH_SB01	LH_SB01_0.5	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LH_SB01	LH_SB01_2.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Statistical Summary																																			
Number of Results				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean s
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for V
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#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for V
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vap
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indus
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Inorganics									Particle Size																
				CEC	Electrical conductivity *(lab)	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
				meq/100g	uS/cm	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL				0.1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																													
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																													
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																													
Human Health - HSL-D - Vapour Intrusion + 4m SAND																													
Human Health - Direct Contact - HSL-D																													
Human Health - Intrusive - Vapour Intrusion 0-<2m																													
Human Health - Intrusive - Vapour Intrusion 2-<4m																													
Human Health - Intrusive - Vapour Intrusion + 4m																													
Human Health - Intrusive - Direct Contact																													
Human Health - Direct Contact - HIL-D																													
EIL - Commercial / Industrial (Aged)																													
NEPM (2013) ESL - Commercial & Industrial (Fine)																													
NEPM (2013) ESL - Commercial & Industrial (Coarse)																													
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																													
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																										
LH_MW01	LH_MW01_0.5	SOIL	30-Nov-13	-	-	15.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LH_MW01	LH_MW01_1.0	SOIL	05-Dec-13	-	-	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LH_MW02	LH_MW02_0.5	SOIL	30-Nov-13	-	-	17.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LH_MW02	LH_MW02_1.6	SOIL	05-Dec-13	-	-	-	-	-	-	-	-	-	-	16	25	10	14	20	<1	12	18	17	<1	37	10	63	23	14	<1	-
LH_MW02	LH_MW02_1.87	SOIL	05-Dec-13	-	-	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LH_MW03	LH_MW03_0.1	SOIL	05-Dec-13	-	-	18.4	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5
LH_MW03	LH_MW03_3.0	SOIL	05-Dec-13	3.4	82	14.2	<0.1	0.2	2.9	0.2	<0.1	5.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LH_SB01	LH_SB01_0.5	SOIL	30-Nov-13	-	-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LH_SB01	LH_SB01_2.0	SOIL	05-Dec-13	-	-	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																													
Number of Results				1	1	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				1	1	8	0	1	1	1	0	1	0	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	0	0
Minimum Concentration				3.4	82	8.4	<0.1	0.2	2.9	0.2	<0.1	5.2	<0.5	16	25	10	14	20	<1	12	18	17	<1	37	10	63	23	14	<1	<0.5
Minimum Detect				3.4	82	8.4	ND	0.2	2.9	0.2	ND	5.2	ND	16	25	10	14	20	ND	12	18	17	ND	37	10	63	23	14	ND	ND
Maximum Concentration				3.4	82	22	<0.1	0.2	2.9	0.2	<0.1	5.2	<0.5	16	25	10	14	20	<1	12	18	17	<1	37	10	63	23	14	<1	<0.5
Maximum Detect				3.4	82	22	ND	0.2	2.9	0.2	ND	5.2	ND	16	25	10	14	20	ND	12	18	17	ND	37	10	63	23	14	ND	ND
Average Concentration						15																								
Median Concentration				3.4	82	15.55	0.05	0.2	2.9	0.2	0.05	5.2	0.25	16	25	10	14	20	0.5	12	18	17	0.5	37	10	63	23	14	0.5	0.25
Standard Deviation						4.3																								
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

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#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Indus
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

			TRH											BTEX							Metals							
			C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND			260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND			370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND			630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND			NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D			NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			NL[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m			NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m			NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m			NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact			82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D																						3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																						160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)												2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)												1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)			215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																										
LI_MW01	LI_MW01_0.1	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	15	18	15	<0.1	12	57
LI_MW01	LI_MW01_3.2	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	18	18	12	<0.1	25	65
LI_MW02	LI_MW02_0.1	SOIL	15-Nov-13	18	100	14	60	620	480	1160	1330	100	910	320	20	<0.2	<0.5	<0.5	0.5	1.8	2.3	2.3	5	<1	18	28	30	<0.1	8	649
LI_MW02	LI_MW02_3.0	SOIL	22-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	13	<5	8	<0.1	2	12
LI_MW02	LI_MW02_4.8	SOIL	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW03	LI_MW03_0.1	SOIL	15-Nov-13	<10	<50	<10	<50	180	<100	180 - 255	230	<50	230	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	12	24	15	<0.1	12	128
LI_MW03	LI_MW03_3.0	SOIL	22-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	<1	16	28	21	0.1	3	19
LI_MW04	LI_MW04_0.5	SOIL	15-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	23	9	17	<0.1	8	31
LI_MW04	LI_MW04_3.0	SOIL	22-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	20	32	25	<0.1	8	44
LI_MW05	LI_MW05_0.5	SOIL	15-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	20	<1	23	29	26	<0.1	16	67
LI_MW05	LI_MW5_3.0	SOIL	25-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	1	24	34	29	<0.1	32	143
LI_MW06	LI_MW06_0.5	SOIL	15-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	13	10	13	<0.1	6	26
LI_MW06	LI_MW06_4.0	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	15	<1	16	25	23	<0.1	16	108
LI_MW07	LI_MW07_0.5	SOIL	15-Nov-13	<10	<50	<10	<50	280	130	410 - 435	360	<50	360	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	3	10	8	<0.1	4	21
LI_MW07	LI_MW07_2.9-3.0	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	19	20	15	<0.1	17	94
LI_MW08	LI_MW08_0.5	SOIL	15-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	16	12	13	<0.1	6	32
LI_MW08	LI_MW08_3.6	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	5	<1	16	13	13	<0.1	8	65
LI_MW09	LI_MW09_0.2	SOIL	16-Dec-13	<10	50	<10	<50	300	120	420 - 445	410	50	360	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	2	10	10	<0.1	3	28
LI_MW09	LI_MW09_2.8	SOIL	16-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	31	<1	15	13	10	<0.1	<2	18
LI_SB01	LI_SB01_0.4	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	<2	<5	<5	<0.1	<2	<5
LI_SB01	LI_SB01_2.7	SOIL	16-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	27	32	25	<0.1	21	74
LI_SB02	LI_SB02_0.2	SOIL	12-Dec-13	<10	80	<10	<50	510	230	740 - 765	840	80	630	130	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	12	20	16	<0.1	18	87
LI_SB02	LI_SB02_1.6	SOIL	16-Dec-13	<10	<50	<10	<50	120	<100	120 - 195	140	<50	140	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	2	7	8	<0.1	2	34
LI_SB03	LI_SB03_2.8	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	19	18	13	<0.1	7	48
LI_SB04	LI_SB04_1.0	SOIL	16-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	13	14	8	<0.1	8	40
LI_SB04	LI_SN04_0.1	SOIL	16-Dec-13	<10	60	<10	<50	300	110	410 - 435	410	60	350	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	2	10	8	<0.1	4	25
LI_SB05	LI_SB05_0.5	SOIL	03-Dec-13	<10	<50	<10	<50	160	<100	160 - 235	180	<50	180	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	2	6	<5	<0.1	2	23
LI_SB05	LI_SB05_2.5	SOIL	16-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	22	<1	61	25	53	<0.1	39	80
Statistical Summary																													
Number of Results				27	24	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Number of Detects				1	4	1	1	8	5	8	8	4	8	2	1	0	0	0	1	1	1	1	19	1	26	25	25	1	25	26
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	<2	<5	<5	<0.1	<2	<5
Minimum Detect				18	50	14	60	120	110	120	140	50	140	130	20	ND	ND	ND	0.5	1.8	2.3	2.3	5	1	2	6	8	0.1	2	12
Maximum Concentration				18	100	14	60	620	480	1160	1330	100	910	320	20	<0.2	<0.5	<0.5	0.5	1.8	2.3	2.3	31	1	61	34	53	0.1	39	649
Maximum Detect				18	100	14	60	620	480	1160	1330	100	910	320	20	ND	ND	ND	0.5	1.8	2.3	2.3	31	1	61	34	53	0.1	39	649
Average Concentration				5.5	33	5.3	26	127	80	157	162	32	152	63	5.6	0.1	0.25	0.25	0.26	0.31	0.33	0.18	8.6	0.52	16	17	16	0.052	11	75
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	7	0.5	16	18	13	0.05	8	44
Standard Deviation				2.5	20	1.7	6.7	151	89	271	301	19	209	54	2.9	0	0	0	0.048	0.3	0.39	0.42	6.9	0.096	12	9.4	11	0.0096	9.7	120
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				PAH/Phenols																																
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																														99999[#10]					
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																														99999[#9]					
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																														99999[#8]					
Human Health - HSL-D - Vapour Intrusion + 4m SAND																														99999[#11]					
Human Health - Direct Contact - HSL-D																														11000[#13]					
Human Health - Intrusive - Vapour Intrusion 0-<2m																														99999[#6]					
Human Health - Intrusive - Vapour Intrusion 2-<4m																														99999[#5]					
Human Health - Intrusive - Vapour Intrusion + 4m																														99999[#7]					
Human Health - Intrusive - Direct Contact																														29000[#12]					
Human Health - Direct Contact - HIL-D																															4000[#14]	660[#14]		240000[#14]	
EIL - Commercial / Industrial (Aged)																														370[#2]					
NEPM (2013) ESL - Commercial & Industrial (Fine)																	1.4[#15]																		
NEPM (2013) ESL - Commercial & Industrial (Coarse)																	1.4[#15]																		
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																	
LI_MW01	LI_MW01_0.1	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW01	LI_MW01_3.2	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW02	LI_MW02_0.1	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.7	1.2	0.6	<0.5	<0.5	<0.5	0.8	<0.5	1.8	<0.5	<0.5	<1 - 0.5	7.1	<2	1.6	<0.5	1.2
LI_MW02	LI_MW02_3.0	SOIL	22-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW02	LI_MW02_4.8	SOIL	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW03	LI_MW03_0.1	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	1.4	<2	<0.5	<0.5	0.6
LI_MW03	LI_MW03_3.0	SOIL	22-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW04	LI_MW04_0.5	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW04	LI_MW04_3.0	SOIL	22-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW05	LI_MW05_0.5	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW05	LI_MW5_3.0	SOIL	25-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW06	LI_MW06_0.5	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW06	LI_MW06_4.0	SOIL	26-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW07	LI_MW07_0.5	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	0.7	1.2	0.6	<0.5	<0.5	0.7	<0.5	1.6	<0.5	<0.5	<0.5	5.4	<2	1	<0.5	1
LI_MW07	LI_MW07_2.9-3.0	SOIL	26-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW08	LI_MW08_0.5	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	0.6	<2	<0.5	<0.5	<0.5
LI_MW08	LI_MW08_3.6	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_MW09	LI_MW09_0.2	SOIL	16-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	0.7	1.3	1	<0.5	<0.5	0.9	<0.5	2.9	<0.5	<0.5	<0.5	8.4	<2	1.4	<0.5	1.4
LI_MW09	LI_MW09_2.8	SOIL	16-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_SB01	LI_SB01_0.4	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	0.6	<2	<0.5	<0.5	<0.5
LI_SB01	LI_SB01_2.7	SOIL	16-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_SB02	LI_SB02_0.2	SOIL	12-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	0.7	1.2	0.6	<0.5	<0.5	0.8	<0.5	1.7	<0.5	<0.5	<0.5	5.7	<2	0.8	<0.5	1.1
LI_SB02	LI_SB02_1.6	SOIL	16-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	2.3	<2	0.7	<0.5	0.6
LI_SB03	LI_SB03_2.8	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_SB04	LI_SB04_1.0	SOIL	16-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LI_SB04	LI_SN04_0.1	SOIL	16-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	0.7	1.3	0.8	<0.5	<0.5	0.8	<0.5	2.4	<0.5	<0.5	<0.5	7	<2	1.1	<0.5	1.2
LI_SB05	LI_SB05_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	0.6	<0.5	<0.5	0.7	<0.5	1.8	<0.5	<0.5	<0.5	5	<2	1	<0.5	0.9
LI_SB05	LI_SB05_2.5	SOIL	16-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5

Statistical Summary

Number of Results				27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	24	24	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	24	24	6	0	0	6	0	10	0	0	1	10	0	7	0	8
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	0.6	1.2	0.6	ND	ND	0.7	ND	0.6	ND	ND	ND	0.6	ND	0.7	ND	0.6
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	0.7	1.3	1	<0.5	<0.5	0.9	<0.5	2.9	<0.5	<0.5	0.5	8.4	<2	1.6	<0.5	1.4
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	0.7	1.3	1	ND	ND	0.9	ND	2.9	ND	ND	0.5	8.4	ND	1.6	ND	1.4
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.33	0.25	0.25	0.62	1.2	0.35	0.25	0.25	0.37	0.25	0.72	0.25	0.25	0.26	1.8	1	0.47	0.25	0.47
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0.17	0	0	0.041	0.028	0.2	0	0	0.23	0	0.77	0	0	0.048	2.6	0	0.4	0	0.38
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapo
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapo
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour I
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapo
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapo
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vap
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Inorganics									Particle Size															
				CEC	Electrical conductivity *(lab)	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
				meq/100g	uS/cm	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL				0.1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																												
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																												
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																												
Human Health - HSL-D - Vapour Intrusion + 4m SAND																												
Human Health - Direct Contact - HSL-D																												
Human Health - Intrusive - Vapour Intrusion 0-<2m																												
Human Health - Intrusive - Vapour Intrusion 2-<4m																												
Human Health - Intrusive - Vapour Intrusion + 4m																												
Human Health - Intrusive - Direct Contact																												
Human Health - Direct Contact - HIL-D																												
EIL - Commercial / Industrial (Aged)																												
NEPM (2013) ESL - Commercial & Industrial (Fine)																												
NEPM (2013) ESL - Commercial & Industrial (Coarse)																												
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																												
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																									
LI_MW01	LI_MW01_0.1	SOIL	02-Dec-13	-	-	14.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW01	LI_MW01_3.2	SOIL	04-Dec-13	-	-	20.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW02	LI_MW02_0.1	SOIL	15-Nov-13	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW02	LI_MW02_3.0	SOIL	22-Nov-13	-	-	16.8	-	-	-	-	-	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW02	LI_MW02_4.8	SOIL	22-Nov-13	-	906	-	-	-	-	-	-	-	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100	<1	<1	<1	<0.5
LI_MW03	LI_MW03_0.1	SOIL	15-Nov-13	-	-	7.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW03	LI_MW03_3.0	SOIL	22-Nov-13	-	-	17.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW04	LI_MW04_0.5	SOIL	15-Nov-13	-	-	18.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW04	LI_MW04_3.0	SOIL	22-Nov-13	-	-	22.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW05	LI_MW05_0.5	SOIL	15-Nov-13	-	-	17.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW05	LI_MW5_3.0	SOIL	25-Nov-13	-	-	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW06	LI_MW06_0.5	SOIL	15-Nov-13	-	-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW06	LI_MW06_4.0	SOIL	26-Nov-13	-	-	18.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW07	LI_MW07_0.5	SOIL	15-Nov-13	-	-	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW07	LI_MW07_2.9-3.0	SOIL	26-Nov-13	-	-	17.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW08	LI_MW08_0.5	SOIL	15-Nov-13	14	-	18	<0.1	9.6	3.8	0.2	0.4	5.1	2	47	59	<1	39	56	<1	27	54	52	<1	63	7	37	23	39	<1	3.4
LI_MW08	LI_MW08_3.6	SOIL	04-Dec-13	-	-	19.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW09	LI_MW09_0.2	SOIL	16-Dec-13	-	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_MW09	LI_MW09_2.8	SOIL	16-Dec-13	-	-	18.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_SB01	LI_SB01_0.4	SOIL	12-Dec-13	-	-	15.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_SB01	LI_SB01_2.7	SOIL	16-Dec-13	-	-	20.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_SB02	LI_SB02_0.2	SOIL	12-Dec-13	16.2	-	29	<0.1	8.3	7.3	0.3	0.3	7.1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4
LI_SB02	LI_SB02_1.6	SOIL	16-Dec-13	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_SB03	LI_SB03_2.8	SOIL	04-Dec-13	-	-	22.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_SB04	LI_SB04_1.0	SOIL	16-Dec-13	22.9	-	21.8	-	7	14.3	0.1	1.5	-	<0.5	2	5	<1	1	4	<1	<1	4	3	<1	6	<1	94	5	1	<1	<0.5
LI_SB04	LI_SN04_0.1	SOIL	16-Dec-13	-	-	11.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_SB05	LI_SB05_0.5	SOIL	03-Dec-13	-	-	19.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LI_SB05	LI_SB05_2.5	SOIL	16-Dec-13	12.7	-	19.9	-	2.7	6.7	0.2	3	7.8	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5
Statistical Summary																												
Number of Results				4	1	27	2	4	4	4	4	4	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5
Number of Detects				4	1	27	0	4	4	4	4	4	2	2	2	0	2	2	0	1	2	2	0	2	1	3	2	2	0	2
Minimum Concentration				12.7	906	5	<0.1	2.7	3.8	0.1	0.3	5.1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	37	<1	<1	<1	<0.5
Minimum Detect				12.7	906	5	ND	2.7	3.8	0.1	0.3	5.1	2	2	5	ND	1	4	ND	27	4	3	ND	6	7	37	5	1	ND	3.4
Maximum Concentration				22.9	906	29	<0.1	9.6	14.3	0.3	3	7.8	2	47	59	<1	39	56	<1	27	54	52	<1	63	7	100	23	39	<1	3.4
Maximum Detect				22.9	906	29	ND	9.6	14.3	0.3	3	7.8	2	47	59	ND	39	56	ND	27	54	52	ND	63	7	100	23	39	ND	3.4
Average Concentration				16		17		6.9	8	0.2	1.3	6.3	0.95	17	22	0.5	14	20	0.5	9.3	20	19	0.5	23	2.7	77	9.5	14	0.5	1.5
Median Concentration				15.1	906	18	0.05	7.65	7	0.2	0.95	6.1	0.25	2	5	0.5	1	4	0.5	0.5	4	3	0.5	6	0.5	94	5	1	0.5	0.25
Standard Deviation				4.5		5.1		3	4.5	0.082	1.3	1.4	0.96	26	33	0	22	31	0	15	30	29	0	35	3.8	35	12	22	0	1.7
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

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#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vap
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	TRH											BTEX							Metals							
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND	260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND	370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND	630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND	NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D	NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m	NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m	NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m	NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact	82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D																				3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																				160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)										2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)										1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)	215[#15]								170[#15]																		

Location Code	Field ID	Matrix Type	Sampled Date																									
LJ_MW01	LJ_MW01_0.1	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	<1	15	16	8	<0.1	34	50
LJ_MW01	LJ_MW01_0.8	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	9	8	13	<0.1	12	59
LJ_MW02	LJ_MW02_0.5	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	15	<1	18	27	18	<0.1	31	80
LJ_MW02	LJ_MW02_3.0	SOIL	04-Dec-13	<10	60	<10	<50	100	<100	100 - 175	60	60	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	15	23	14	<0.1	27	115
LJ_MW03	LJ_MW03_0.2	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	15	<1	23	27	17	<0.1	24	70
LJ_MW03	LJ_MW03_0.5	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	18	25	21	<0.1	15	60
LJ_MW04	LJ_MW04_0.5	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	35	17	15	<0.1	36	48
LJ_MW04	LJ_MW04_3.5	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	15	27	11	<0.1	13	47
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	18	5610	<10	2660	6900	<100	9560 - 9610	9600	5610	3990	<100	18	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	15	17	12	<0.1	11	41
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<10	2420	<10	1130	2640	<100	3770 - 3820	3810	2420	1390	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	19	25	15	<0.1	14	58
LJ_SB02	LJ_SB02_2.0	SOIL	04-Dec-13	<10	2190	<10	1010	2600	<100	3610 - 3660	3630	2190	1440	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	<1	15	20	15	<0.1	8	42
LJ_SB03	LJ_SB03_0.5	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	28	18	16	<0.1	18	51
LJ_SB03	LJ_SB03_3.0	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	19	30	10	<0.1	16	75
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	20	26	18	<0.1	21	62
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	<1	22	30	17	<0.1	24	186
LJ_SB04	LJ_SB04_2.0	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	14	22	11	<0.1	13	63
LJ_SB06	LJ_SB06_0.5	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	16	21	15	<0.1	16	60
LJ_SB06	LJ_SB06_1.5	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	16	32	16	<0.1	30	119
LJ_SB07	LJ_SB07_0.5	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	22	29	22	<0.1	21	70
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	20	1	16	29	18	<0.1	34	86
LJ_SB08	LJ_SB08_1.0	SOIL	11-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	16	24	15	<0.1	28	62
LJ_SB09	LJ_SB09_0.5	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	15	14	<5	<0.1	27	39
LJ_SB09	LJ_SB09_1.0	SOIL	06-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	15	14	8	<0.1	29	58
LJ_SB10	LJ_SB10_0.1	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	19	20	12	<0.1	28	62
LJ_SB10	LJ_SB10_1.0	SOIL	06-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	8	17	13	<0.1	16	78
LJ_SB11	LJ_SB11_0.5	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	17	18	12	<0.1	20	54
LJ_SB11	LJ_SB11_3.0	SOIL	06-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	28	18	14	<0.1	30	44
LJ_SB12	LJ_SB12_0.5	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	13	22	12	<0.1	18	70
LJ_SB12	LJ_SB12_1.2	SOIL	06-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	12	17	15	<0.1	44	87

Statistical Summary

Number of Results	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Number of Detects	1	4	0	3	4	0	4	4	4	3	0	1	0	0	0	0	0	0	0	26	1	29	29	28	0	29	29
Minimum Concentration	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	8	8	<5	<0.1	8	39
Minimum Detect	18	60	ND	1010	100	ND	100	60	60	1390	ND	18	ND	ND	ND	ND	ND	ND	ND	6	1	8	8	8	ND	8	39
Maximum Concentration	18	5610	<10	2660	6900	<100	9610	9600	5610	3990	<100	18	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	20	1	35	32	22	<0.1	44	186
Maximum Detect	18	5610	ND	2660	6900	ND	9610	9600	5610	3990	ND	18	ND	ND	ND	ND	ND	ND	ND	20	1	35	32	22	ND	44	186
Average Concentration	5.4	376	5	188	465	50	613	611	376	280	50	5.4	0.1	0.25	0.25	0.25	0.25	0.25	0.1	9.8	0.52	18	22	14	0.05	23	69
Median Concentration	5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	10	0.5	16	22	15	0.05	21	62
Standard Deviation	2.4	1166	0	547	1403	0	1970	1973	1166	795	0	2.4	0	0	0	0	0	0	0	4.1	0.093	5.6	5.8	4	0	8.8	30
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	PAH/Phenols																																							
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																												NL [#10]												
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																												NL [#9]												
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																												NL [#8]												
Human Health - HSL-D - Vapour Intrusion + 4m SAND																												NL [#11]												
Human Health - Direct Contact - HSL-D																												11000 [#13]												
Human Health - Intrusive - Vapour Intrusion 0-<2m																												NL [#6]												
Human Health - Intrusive - Vapour Intrusion 2-<4m																												NL [#5]												
Human Health - Intrusive - Vapour Intrusion + 4m																												NL [#7]												
Human Health - Intrusive - Direct Contact																												29000 [#12]												
Human Health - Direct Contact - HIL-D																													4000 [#14]	660 [#14]		240000 [#14]								
EIL - Commercial / Industrial (Aged)																												370 [#2]												
NEPM (2013) ESL - Commercial & Industrial (Fine)															1.4 [#15]																									
NEPM (2013) ESL - Commercial & Industrial (Coarse)															1.4 [#15]																									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																								
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																							
LJ_MW01	LJ_MW01_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW01	LJ_MW01_0.8	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW02	LJ_MW02_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW02	LJ_MW02_3.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW03	LJ_MW03_0.2	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW03	LJ_MW03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW04	LJ_MW04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW04	LJ_MW04_3.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5 - 4	9.8	<2	6.4	<0.5	<0.5	1.2	0.6			
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	4.8	<2	2.7	<0.5	<0.5	<0.5	<0.5			
LJ_SB02	LJ_SB02_2.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	<2	2.4	<0.5	<0.5	<0.5	<0.5			
LJ_SB03	LJ_SB03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB03	LJ_SB03_3.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_2.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB06	LJ_SB06_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<2	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB06	LJ_SB06_1.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB07	LJ_SB07_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB08	LJ_SB08_1.0	SOIL	11-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB09	LJ_SB09_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB09	LJ_SB09_1.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB10	LJ_SB10_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB10	LJ_SB10_1.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB11	LJ_SB11_0.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB11	LJ_SB11_3.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB12	LJ_SB12_0.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB12	LJ_SB12_1.2	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Statistical Summary

Number of Results	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	29	0	0	0	0	0	0	1	0	1	4	0	3	0	1	1	1						
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5						
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	2.1	ND	ND	0.5	ND	2.4	ND	0.5	1.2	0.6						
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	4	9.8	<2	6.4	<0.5	0.5	1.2	0.6				
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	2.1	ND	4	9.8	ND	6.4	ND	0.5	1.2	0.6						
Average Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.31	0.25	0.35	0.82	1	0.62	0.25	0.26	0.28	0.26						
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25	0.25	0.25						
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.34	0	0.56	2	0	1.3	0	0.046	0.18	0.065						
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pro
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intr
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapou
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				MAH						
				Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND										
Human Health - HSL-D - Vapour Intrusion + 4m SAND										
Human Health - Direct Contact - HSL-D										
Human Health - Intrusive - Vapour Intrusion 0-<2m										
Human Health - Intrusive - Vapour Intrusion 2-<4m										
Human Health - Intrusive - Vapour Intrusion + 4m										
Human Health - Intrusive - Direct Contact										
Human Health - Direct Contact - HIL-D										
EIL - Commercial / Industrial (Aged)										
NEPM (2013) ESL - Commercial & Industrial (Fine)										
NEPM (2013) ESL - Commercial & Industrial (Coarse)										
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)										
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**							
LJ_MW01	LJ_MW01_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW01	LJ_MW01_0.8	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW02	LJ_MW02_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW02	LJ_MW02_3.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW03	LJ_MW03_0.2	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW03	LJ_MW03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW04	LJ_MW04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW04	LJ_MW04_3.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB02	LJ_SB02_2.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB03	LJ_SB03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB03	LJ_SB03_3.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_2.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB06	LJ_SB06_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB06	LJ_SB06_1.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB07	LJ_SB07_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	-	-	-	-	-	-	-
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB08	LJ_SB08_1.0	SOIL	11-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB09	LJ_SB09_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB09	LJ_SB09_1.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB10	LJ_SB10_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB10	LJ_SB10_1.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB11	LJ_SB11_0.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB11	LJ_SB11_3.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB12	LJ_SB12_0.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB12	LJ_SB12_1.2	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Statistical Summary

Number of Results	29	29	29	29	29	29	29
Number of Detects	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pro
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
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#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapou
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Chlorinated Hydrocarbons																														Halogenated Benzenes					
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																							
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																							
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																							
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																							
Human Health - Direct Contact - HSL-D																																							
Human Health - Intrusive - Vapour Intrusion 0-<2m																																							
Human Health - Intrusive - Vapour Intrusion 2-<4m																																							
Human Health - Intrusive - Vapour Intrusion + 4m																																							
Human Health - Intrusive - Direct Contact																																							
Human Health - Direct Contact - HIL-D																																							
EIL - Commercial / Industrial (Aged)																																							
NEPM (2013) ESL - Commercial & Industrial (Fine)																																							
NEPM (2013) ESL - Commercial & Industrial (Coarse)																																							
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																							
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																				
LJ_MW01	LJ_MW01_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW01	LJ_MW01_0.8	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW02	LJ_MW02_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW02	LJ_MW02_3.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW03	LJ_MW03_0.2	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW03	LJ_MW03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW04	LJ_MW04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_MW04	LJ_MW04_3.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB02	LJ_SB02_2.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB03	LJ_SB03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB03	LJ_SB03_3.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_2.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB06	LJ_SB06_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB06	LJ_SB06_1.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB07	LJ_SB07_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB08	LJ_SB08_1.0	SOIL	11-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB09	LJ_SB09_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB09	LJ_SB09_1.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB10	LJ_SB10_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB10	LJ_SB10_1.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB11	LJ_SB11_0.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB11	LJ_SB11_3.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB12	LJ_SB12_0.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LJ_SB12	LJ_SB12_1.2	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																																							
Number of Results				29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.27	0.25	0.25	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pro
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intr
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapou
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	4-chlorotoluene	Bromobenzene	Chlorobenzene
	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND			
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND			
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND			
Human Health - HSL-D - Vapour Intrusion + 4m SAND			
Human Health - Direct Contact - HSL-D			
Human Health - Intrusive - Vapour Intrusion 0-<2m			
Human Health - Intrusive - Vapour Intrusion 2-<4m			
Human Health - Intrusive - Vapour Intrusion + 4m			
Human Health - Intrusive - Direct Contact			
Human Health - Direct Contact - HIL-D			
EIL - Commercial / Industrial (Aged)			
NEPM (2013) ESL - Commercial & Industrial (Fine)			
NEPM (2013) ESL - Commercial & Industrial (Coarse)			
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)			

Location Code	Field ID	Matrix Type	Sampled Date			
LJ_MW01	LJ_MW01_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5
LJ_MW01	LJ_MW01_0.8	SOIL	05-Dec-13	<0.5	<0.5	<0.5
LJ_MW02	LJ_MW02_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_MW02	LJ_MW02_3.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5
LJ_MW03	LJ_MW03_0.2	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_MW03	LJ_MW03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_MW04	LJ_MW04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_MW04	LJ_MW04_3.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_SB02	LJ_SB02_2.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5
LJ_SB03	LJ_SB03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_SB03	LJ_SB03_3.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_SB04	LJ_SB04_2.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5
LJ_SB06	LJ_SB06_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_SB06	LJ_SB06_1.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5
LJ_SB07	LJ_SB07_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	-	-	-
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	<0.5	<0.5	<0.5
LJ_SB08	LJ_SB08_1.0	SOIL	11-Dec-13	<0.5	<0.5	<0.5
LJ_SB09	LJ_SB09_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5
LJ_SB09	LJ_SB09_1.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5
LJ_SB10	LJ_SB10_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5
LJ_SB10	LJ_SB10_1.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5
LJ_SB11	LJ_SB11_0.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5
LJ_SB11	LJ_SB11_3.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5
LJ_SB12	LJ_SB12_0.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5
LJ_SB12	LJ_SB12_1.2	SOIL	06-Dec-13	<0.5	<0.5	<0.5

Statistical Summary

Number of Results	29	29	29
Number of Detects	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND
Average Concentration	0.25	0.25	0.25
Median Concentration	0.25	0.25	0.25
Standard Deviation	0	0	0
Number of Guideline Exceedances	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pro
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intr
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapou
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	Halogenated Hydrocarbons					PFOA	PFOS		Polychlorinated Biphenyls	Solvents					VOCs			Inorganics											
	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	Perfluorooctanoate	6:2 Fluorotelomer Sulfonate (6:2 FtS)	PFOS	PCBs (Sum of total)	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	mg/kg	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%
EQL	0.5	5	5	0.5	5	0.5	0.005	0.5	0.1	5	5	5	0.5	5	0.5	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																													
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																													
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																													
Human Health - HSL-D - Vapour Intrusion + 4m SAND																													
Human Health - Direct Contact - HSL-D																													
Human Health - Intrusive - Vapour Intrusion 0-<2m																													
Human Health - Intrusive - Vapour Intrusion 2-<4m																													
Human Health - Intrusive - Vapour Intrusion + 4m																													
Human Health - Intrusive - Direct Contact																													
Human Health - Direct Contact - HIL-D									7[#14]																				
EIL - Commercial / Industrial (Aged)																													
NEPM (2013) ESL - Commercial & Industrial (Fine)																													
NEPM (2013) ESL - Commercial & Industrial (Coarse)																													
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																													

Location Code	Field ID	Matrix Type	Sampled Date																											
LJ_MW01	LJ_MW01_0.1	SOIL	05-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	14.4	-	-	-	-	-	-	-	-	-	-
LJ_MW01	LJ_MW01_0.8	SOIL	05-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	7.4	-	-	-	-	-	-	-	-	-	-
LJ_MW02	LJ_MW02_0.5	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	22.9	-	-	-	-	-	-	-	-	-	-
LJ_MW02	LJ_MW02_3.0	SOIL	04-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	27.8	-	-	-	-	-	-	-	-	-	-
LJ_MW03	LJ_MW03_0.2	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	22.5	-	-	-	-	-	-	-	<0.5	-	-
LJ_MW03	LJ_MW03_0.5	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	17.3	-	-	-	-	-	-	-	<0.5	-	-
LJ_MW04	LJ_MW04_0.5	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	24.2	-	-	-	-	-	-	-	-	-	-
LJ_MW04	LJ_MW04_3.5	SOIL	04-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	12	-	-	-	-	-	-	-	-	-	-
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	19	-	-	-	-	-	-	-	-	-	-
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	21.6	-	-	-	-	-	-	-	<0.5	-	-
LJ_SB02	LJ_SB02_2.0	SOIL	04-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	22.4	-	-	-	-	-	-	-	-	-	-
LJ_SB03	LJ_SB03_0.5	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	21.7	-	-	-	-	-	-	-	-	-	-
LJ_SB03	LJ_SB03_3.0	SOIL	04-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	15.7	-	-	-	-	-	-	-	-	-	-
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	17	-	-	-	-	-	-	-	<0.5	-	-
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	11.1	-	-	-	-	-	-	-	-	-	-
LJ_SB04	LJ_SB04_2.0	SOIL	04-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	24	-	-	-	-	-	-	-	-	-	-
LJ_SB06	LJ_SB06_0.5	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	21	-	-	-	-	-	-	-	-	-	-
LJ_SB06	LJ_SB06_1.5	SOIL	04-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	16.1	-	-	-	-	-	-	-	-	-	-
LJ_SB07	LJ_SB07_0.5	SOIL	03-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	20	-	-	-	-	-	-	-	-	-	-
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.7	-	<0.1	5	8.2	0.3	1.2	8.8	<0.5	3	8	<1
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	11.3	-	-	-	-	-	-	-	-	-	-
LJ_SB08	LJ_SB08_1.0	SOIL	11-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	9.7	-	-	-	-	-	-	-	-	-	-
LJ_SB09	LJ_SB09_0.5	SOIL	04-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	11.8	-	-	-	-	-	-	-	-	-	-
LJ_SB09	LJ_SB09_1.0	SOIL	06-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	21	-	-	-	-	-	-	-	<0.5	-	-
LJ_SB10	LJ_SB10_0.1	SOIL	05-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	15.5	-	-	-	-	-	-	-	-	-	-
LJ_SB10	LJ_SB10_1.0	SOIL	06-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	20.2	-	-	-	-	-	-	-	-	-	-
LJ_SB11	LJ_SB11_0.5	SOIL	05-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	21.5	-	-	-	-	-	-	-	-	-	-
LJ_SB11	LJ_SB11_3.0	SOIL	06-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	23.7	-	-	-	-	-	-	-	-	-	-
LJ_SB12	LJ_SB12_0.5	SOIL	05-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	13.2	-	-	-	-	-	-	-	-	-	-
LJ_SB12	LJ_SB12_1.2	SOIL	06-Dec-13	<0.5	<5	<5	<0.5	<5	-	-	-	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	19.6	-	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	29	29	29	29	29	4	4	4	25	29	29	29	29	29	29	29	29	1	29	1	1	1	1	1	1	6	1	1	1
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	29	0	1	1	1	1	1	0	1	1	0
Minimum Concentration	<0.5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	14.7	7.4	<0.1	5	8.2	0.3	1.2	8.8	<0.5	3	8	<1
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.7	7.4	ND	5	8.2	0.3	1.2	8.8	ND	3	8	ND
Maximum Concentration	<0.5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	14.7	27.8	<0.1	5	8.2	0.3	1.2	8.8	<0.5	3	8	<1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.7	27.8	ND	5	8.2	0.3	1.2	8.8	ND	3	8	ND
Average Concentration	0.25	2.5	2.5	0.25	2.5	0.25	0.0025	0.25	0.05	2.5	2.5	2.5	0.25	2.5	0.25	0.25	0.25		18							0.25			
Median Concentration	0.25	2.5	2.5	0.25	2.5	0.25	0.0025	0.25	0.05	2.5	2.5	2.5	0.25	2.5	0.25	0.25	0.25	14.7	19.6	0.05	5	8.2	0.3	1.2	8.8	0.25	3	8	0.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		5.1							0			
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pro
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intr
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapou
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	Particle Size													
	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND														
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND														
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND														
Human Health - HSL-D - Vapour Intrusion + 4m SAND														
Human Health - Direct Contact - HSL-D														
Human Health - Intrusive - Vapour Intrusion 0-<2m														
Human Health - Intrusive - Vapour Intrusion 2-<4m														
Human Health - Intrusive - Vapour Intrusion + 4m														
Human Health - Intrusive - Direct Contact														
Human Health - Direct Contact - HIL-D														
EIL - Commercial / Industrial (Aged)														
NEPM (2013) ESL - Commercial & Industrial (Fine)														
NEPM (2013) ESL - Commercial & Industrial (Coarse)														
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)														
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**											
LJ_MW01	LJ_MW01_0.1	SOIL	05-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_MW01	LJ_MW01_0.8	SOIL	05-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_MW02	LJ_MW02_0.5	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_MW02	LJ_MW02_3.0	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_MW03	LJ_MW03_0.2	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	<0.5
LJ_MW03	LJ_MW03_0.5	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	0.6
LJ_MW04	LJ_MW04_0.5	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_MW04	LJ_MW04_3.5	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB02	LJ_SB02_1.0	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	<0.5
LJ_SB02	LJ_SB02_2.0	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB03	LJ_SB03_0.5	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB03	LJ_SB03_3.0	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	<0.5
LJ_SB04	LJ_SB04_0.5	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB04	LJ_SB04_2.0	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB06	LJ_SB06_0.5	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB06	LJ_SB06_1.5	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB07	LJ_SB07_0.5	SOIL	03-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	3	5	<1	2	4	4	<1	13	<1	87	10	3	<1	0.5
LJ_SB07	LJ_SB07_0.8	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB08	LJ_SB08_1.0	SOIL	11-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB09	LJ_SB09_0.5	SOIL	04-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB09	LJ_SB09_1.0	SOIL	06-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5
LJ_SB10	LJ_SB10_0.1	SOIL	05-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB10	LJ_SB10_1.0	SOIL	06-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB11	LJ_SB11_0.5	SOIL	05-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB11	LJ_SB11_3.0	SOIL	06-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB12	LJ_SB12_0.5	SOIL	05-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LJ_SB12	LJ_SB12_1.2	SOIL	06-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	6
Number of Detects				1	1	0	1	1	1	0	1	0	1	1	1	0	2
Minimum Concentration				3	5	<1	2	4	4	<1	13	<1	87	10	3	<1	<0.5
Minimum Detect				3	5	ND	2	4	4	ND	13	ND	87	10	3	ND	0.5
Maximum Concentration				3	5	<1	2	4	4	<1	13	<1	87	10	3	<1	0.6
Maximum Detect				3	5	ND	2	4	4	ND	13	ND	87	10	3	ND	0.6
Average Concentration																	0.35
Median Concentration				3	5	0.5	2	4	4	0.5	13	0.5	87	10	3	0.5	0.25
Standard Deviation																	0.16
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pro
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intr
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapou
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				TRH												BTEX							Metals							
				C6-C10 less BTEX (F1)	>C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D																							3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																							160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LK_MW01	LK_MW01_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW01	LK_MW01_0.5	SOIL	05-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	15	<5	12	<0.1	4	15
LK_MW01	LK_MW01_7.0	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW02	LK_MW02_0.1	SOIL	14-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW02	LK_MW02_0.5	SOIL	05-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	28	23	10	<0.1	110	54
LK_MW02	LK_MW02_2.9	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	18	9	14	<0.1	6	44
LK_MW03	LK_MW03_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW03	LK_MW03_0.5	SOIL	05-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	27	10	13	<0.1	8	28
LK_MW03	LKMW03_39	SOIL	13-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	14	9	13	<0.1	4	18
LK_SB01	LK_SB01_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_SB01	LK_SB01_0.5	SOIL	05-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	12	<5	13	<0.1	2	11
LK_SB02	LK_SB02_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_SB02	LK_SB02_0.5	SOIL	05-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	12	<5	11	<0.1	6	24
LK_SB02	LKSB02_3.0	SOIL	13-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	15	<1	14	8	14	<0.1	12	68
Statistical Summary																														
Number of Results				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	8	5	8	0	8	8
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	12	<5	10	<0.1	2	11
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	12	8	10	ND	2	11
Maximum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	15	<1	28	23	14	<0.1	110	68
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	28	23	14	ND	110	68
Average Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	10	0.5	18	8.3	13	0.05	19	33
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	11	0.5	14.5	8.5	13	0.05	6	26
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.3	0	6.5	6.8	1.4	0	37	20
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				PAH/Phenols																																	
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																														NL[#10]						
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																														NL[#9]						
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																														NL[#8]						
Human Health - HSL-D - Vapour Intrusion + 4m SAND																														NL[#11]						
Human Health - Direct Contact - HSL-D																														11000[#13]						
Human Health - Intrusive - Vapour Intrusion 0-<2m																														NL[#6]						
Human Health - Intrusive - Vapour Intrusion 2-<4m																														NL[#5]						
Human Health - Intrusive - Vapour Intrusion + 4m																														NL[#7]						
Human Health - Intrusive - Direct Contact																														29000[#12]						
Human Health - Direct Contact - HIL-D																															4000[#14]	660[#14]		240000[#14]		
EIL - Commercial / Industrial (Aged)																														370[#2]						
NEPM (2013) ESL - Commercial & Industrial (Fine)																		1.4[#15]																		
NEPM (2013) ESL - Commercial & Industrial (Coarse)																		1.4[#15]																		
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																		
LK_MW01	LK_MW01_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW01	LK_MW01_0.5	SOIL	05-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5
LK_MW01	LK_MW01_7.0	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW02	LK_MW02_0.1	SOIL	14-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW02	LK_MW02_0.5	SOIL	05-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5
LK_MW02	LK_MW02_2.9	SOIL	14-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5
LK_MW03	LK_MW03_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW03	LK_MW03_0.5	SOIL	05-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5
LK_MW03	LKMW03_39	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5
LK_SB01	LK_SB01_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_SB01	LK_SB01_0.5	SOIL	05-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5
LK_SB02	LK_SB02_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_SB02	LK_SB02_0.5	SOIL	05-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5
LK_SB02	LKSB02_3.0	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5
Statistical Summary																																					
Number of Results				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pr
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapou
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapou
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour In
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour I
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

		Inorganics	Particle Size																
		Moisture	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
EQL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																			
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																			
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																			
Human Health - HSL-D - Vapour Intrusion + 4m SAND																			
Human Health - Direct Contact - HSL-D																			
Human Health - Intrusive - Vapour Intrusion 0-<2m																			
Human Health - Intrusive - Vapour Intrusion 2-<4m																			
Human Health - Intrusive - Vapour Intrusion + 4m																			
Human Health - Intrusive - Direct Contact																			
Human Health - Direct Contact - HIL-D																			
EIL - Commercial / Industrial (Aged)																			
NEPM (2013) ESL - Commercial & Industrial (Fine)																			
NEPM (2013) ESL - Commercial & Industrial (Coarse)																			
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																
LK_MW01	LK_MW01_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW01	LK_MW01_0.5	SOIL	05-Nov-13	19.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW01	LK_MW01_7.0	SOIL	13-Nov-13	-	10	20	<1	8	15	<1	5	13	12	<1	27	2	73	19	7	<1
LK_MW02	LK_MW02_0.1	SOIL	14-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW02	LK_MW02_0.5	SOIL	05-Nov-13	17.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW02	LK_MW02_2.9	SOIL	14-Nov-13	18.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW03	LK_MW03_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW03	LK_MW03_0.5	SOIL	05-Nov-13	22.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_MW03	LKMW03_39	SOIL	13-Nov-13	18.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_SB01	LK_SB01_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_SB01	LK_SB01_0.5	SOIL	05-Nov-13	17.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_SB02	LK_SB02_0.1	SOIL	13-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_SB02	LK_SB02_0.5	SOIL	05-Nov-13	17.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LK_SB02	LKSB02_3.0	SOIL	13-Nov-13	15.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																			
Number of Results		8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects		8	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	1	0
Minimum Concentration		15.7	10	20	<1	8	15	<1	5	13	12	<1	27	2	73	19	7	<1	
Minimum Detect		15.7	10	20	ND	8	15	ND	5	13	12	ND	27	2	73	19	7	ND	
Maximum Concentration		22.8	10	20	<1	8	15	<1	5	13	12	<1	27	2	73	19	7	<1	
Maximum Detect		22.8	10	20	ND	8	15	ND	5	13	12	ND	27	2	73	19	7	ND	
Average Concentration		18																	
Median Concentration		18.05	10	20	0.5	8	15	0.5	5	13	12	0.5	27	2	73	19	7	0.5	
Standard Deviation		2.1																	
Number of Guideline Exceedances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Number of Guideline Exceedances(Detects Only)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Comments

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#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
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#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				TRH										BTEX						
			C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	>C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND			260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]	
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND			370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]	
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND			630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]	
Human Health - HSL-D - Vapour Intrusion + 4m SAND			NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]	
Human Health - Direct Contact - HSL-D			NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]	
Human Health - Intrusive - Vapour Intrusion 0-<2m			NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]	
Human Health - Intrusive - Vapour Intrusion 2-<4m			NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]	
Human Health - Intrusive - Vapour Intrusion + 4m			NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]	
Human Health - Intrusive - Direct Contact			82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]	
Human Health - Direct Contact - HIL-D																					
EIL - Commercial / Industrial (Aged)																					
NEPM (2013) ESL - Commercial & Industrial (Fine)												2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]	
NEPM (2013) ESL - Commercial & Industrial (Coarse)												1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)			215[#15]								170[#15]										
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																		
LL_MW01	LL_MW01_3.0	SOIL	28-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_MW02	LL_MW02_0.5	SOIL	28-Nov-13	-	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_MW02	LL_MW02_2.0	SOIL	28-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_MW03	LL_MW03_1.9	SOIL	28-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_MW04	LL_MW04_2.3	SOIL	28-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_MW05	LL_MW05_0.5	SOIL	28-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_MW05	LL_MW05_2.3	SOIL	30-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_MW07	LL_MW07_0.5	SOIL	28-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_MW07	LL_MW07_3.0	SOIL	28-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_MW08	LL_MW08_3.0	SOIL	28-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_MW09	LL_MW09_4.0	SOIL	27-Nov-13	<10	<50	<10	<50	260	190	450 - 475	520	<50	370	150	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB01	LL_SB01_2.5	SOIL	28-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB01	LL_SB01_9.5	SOIL	28-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB02	LL_SB02_0.85	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB03	LL_SB03_1.6	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB04	LL_SB04_0.5	SOIL	28-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB07	LL_SB07_0.1	SOIL	28-Nov-13	<10	-	<10	<50	3480	1960	5440 - 5465	5690	<50	5070	620	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB07	LL_SB07_0.7	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB08	LL_SB08_0.5	SOIL	28-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB09	LL_SB09_0.5	SOIL	28-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB09	LL_SB09_1.8-1.9	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB10	LL_SB10_0.5	SOIL	28-Nov-13	<10	-	<10	<50	110	<100	110 - 185	160	<50	160	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB10	LL_SB10_2.0	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB11	LL_SB11_0.5	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB11	LL_SB11_2.2	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB12	LL_SB12_0.5	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB12	LL_SB12_2.2	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB13	LL_SB13_1.9	SOIL	27-Nov-13	<10	90	<10	70	770	430	1270	1410	90	1020	300	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB14	LL_SB14_0.5	SOIL	28-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB14	LL_SB14_1.4	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB15	LL_SB15_0.5	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB15	LL_SB15_2.5	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB16	LL_SB16_0.5	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB17	LL_SB17_0.1	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB18	LL_SB18_3.0	SOIL	27-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
LL_SB19	LL_SB19_3.0	SOIL	27-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2

Statistical Summary

Number of Results	36	23	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
Number of Detects	0	1	0	1	4	3	4	4	1	4	3	0	0	0	0	0	0	0	0	0
Minimum Concentration	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
Minimum Detect	ND	90	ND	70	110	190	110	160	90	160	150	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<10	90	<10	70	3480	1960	5465	5690	90	5070	620	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
Maximum Detect	ND	90	ND	70	3480	1960	5465	5690	90	5070	620	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	5	28	5	26	173	118	226	238	27	228	76	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	
Median Concentration	5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	
Standard Deviation	0	14	0	7.5	580	323	922	966	11	847	103	0	0	0	0	0	0	0	0	
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Metals						PAH/Phenols																													MAH									
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	p-butylbenzene	p-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				5	1	2	5	5	0.1	2	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																					NL[#10]												
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																					NL[#9]												
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																					NL[#8]												
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																					NL[#11]												
Human Health - Direct Contact - HSL-D																																					11000[#13]												
Human Health - Intrusive - Vapour Intrusion 0-<2m																																					NL[#6]												
Human Health - Intrusive - Vapour Intrusion 2-<4m																																					NL[#5]												
Human Health - Intrusive - Vapour Intrusion + 4m																																					NL[#7]												
Human Health - Intrusive - Direct Contact																																					29000[#12]												
Human Health - Direct Contact - HIL-D				3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]																													4000[#14]	660[#24]		240000[#14]									
EIL - Commercial / Industrial (Aged)				160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]																											370[#2]												
NEPM (2013) ESL - Commercial & Industrial (Fine)																										1.4[#15]																							
NEPM (2013) ESL - Commercial & Industrial (Coarse)																										1.4[#15]																							
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																																	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																															
LL_MW01	LL_MW01_3.0	SOIL	28-Nov-13	11	<1	33	20	16	<0.1	24	69	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_MW02	LL_MW02_0.5	SOIL	28-Nov-13	10	<1	20	9	14	<0.1	10	34	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_MW02	LL_MW02_2.0	SOIL	28-Nov-13	8	<1	10	<5	<5	<0.1	3	57	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_MW03	LL_MW03_1.9	SOIL	28-Nov-13	<5	<1	12	<5	12	<0.1	3	49	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	14.8	15.6	16	16.3	<0.5	7.6	<0.5	<0.5	<0.5	<0.5	<0.5	7.6	<0.5	30	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_MW04	LL_MW04_2.3	SOIL	28-Nov-13	14	<1	21	6	<5	<0.1	4	20	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_MW05	LL_MW05_0.5	SOIL	28-Nov-13	10	<1	34	11	14	<0.1	26	28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_MW05	LL_MW05_2.3	SOIL	30-Nov-13	22	<1	31	8	7	<0.1	2	21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_MW07	LL_MW07_0.5	SOIL	28-Nov-13	8	<1	14	9	11	<0.1	7	29	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_MW07	LL_MW07_3.0	SOIL	28-Nov-13	20	<1	17	13	7	<0.1	7	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_MW08	LL_MW08_3.0	SOIL	28-Nov-13	11	<1	25	26	22	<0.1	69	233	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_MW09	LL_MW09_4.0	SOIL	27-Nov-13	6	<1	19	25	14	<0.1	29	117	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	0.6	0.9	1.9	1.5	2.1	2.3	2.6	1.9	0.8	0.8	1.8	<0.5	3.6	<0.5	0.8	<0.5	20.2	<2	1.8	<0.5	3.8	-	-	-	-	-	-	-	-	-
LL_SB01	LL_SB01_2.5	SOIL	28-Nov-13	11	<1	22	9	18	<0.1	5	25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB01	LL_SB01_9.5	SOIL	28-Nov-13	7	<1	19	11	13	<0.1	9	37	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB02	LL_SB02_0.85	SOIL	30-Nov-13	<5	<1	20	13	7	<0.1	7	31	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB03	LL_SB03_1.6	SOIL	30-Nov-13	6	<1	30	22	10	<0.1	11	51	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB04	LL_SB04_0.5	SOIL	28-Nov-13	7	<1	10	7	12	<0.1	2	19	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB07	LL_SB07_0.1	SOIL	28-Nov-13	6	<1	12	14	13	<0.1	9	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB07	LL_SB07_0.7	SOIL	30-Nov-13	6	<1	30	28	10	<0.1	16	74	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB08	LL_SB08_0.5	SOIL	28-Nov-13	5	<1	20	26	12	<0.1	20	96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB09	LL_SB09_0.5	SOIL	28-Nov-13	14	<1	39	21	10	<0.1	11	61	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB09	LL_SB09_1.8-1.9	SOIL	02-Dec-13	13	<1	17	20	19	<0.1	14	89	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB10	LL_SB10_0.5	SOIL	28-Nov-13	15	<1	24	7	13	<0.1	12	24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LL_SB10	LL_SB10_2.0	SOIL	30-Nov-13	<5	<1	11	<5	6	<0.1	<2	11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB11	LL_SB11_0.5	SOIL	30-Nov-13	11	<1	28	6	13	<0.1	12	18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB11	LL_SB11_2.2	SOIL	30-Nov-13	<5	<1	6	<5	36	<0.1	<2	7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB12	LL_SB12_0.5	SOIL	30-Nov-13	15	<1	20	6	11	<0.1	9	18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB12	LL_SB12_2.2	SOIL	30-Nov-13	<5	<1	9	<5	26	<0.1	<2	9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB13	LL_SB13_1.9	SOIL	27-Nov-13	<5	<1	12	<5	5	<0.1	5	56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	1	0.7	0.9	1.2	1.5	1.1	<0.5	<0.5	1.1	<0.5	2	<0.5	<0.5	<1 - 1	10.3	<2	1.3	<0.5	2.1	-	-	-	-	-	-	-	-	-
LL_SB14	LL_SB14_0.5	SOIL	28-Nov-13	10	<1	20	6	11	<0.1	3	15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB14	LL_SB14_1.4	SOIL	30-Nov-13	6	<1	19	14	8	<0.1	8	39	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB15	LL_SB15_0.5	SOIL	30-Nov-13	10	<1	27	8	13	<0.1	11	21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB15	LL_SB15_2.5	SOIL	30-Nov-13	22	<1	29	15	18	<0.1	11	49	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB16	LL_SB16_0.5	SOIL	30-Nov-13	9	<1	12	<5	16	<0.1	3	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB17	LL_SB17_0.1	SOIL	30-Nov-13	8	<1	19	11	13	<0.1	5	18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB18	LL_SB18_3.0	SOIL	27-Nov-13	40	<1	40	20	28	<0.1	15	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
LL_SB19	LL_SB19_3.0	SOIL	27-Nov-13	<5	<1	10	<5	30	<0.1	2	50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-
Statistical Summary																																																	
Number of Results				36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	23	23	36	36	36	36	36	36	36	36	36	36	36	36	1	1	1	1	1	1	1	1	1
Number of Detects				29	0	36	28	34	0	33	36	0	0	0	0	0	0	1	0	0	0	0	1	1	2	3	3	23	23	2	2	1	2	0	2	0	2	1	3	0	2	0	2	0	0	0	0	0	0	0
Minimum Concentration				<5	<1	6	<5	<5	<0.1	<2	7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect				5	ND	6	6	5	ND	2	7	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	0.6	0.9	1	0.7	0.9	0.6	1.2	1.1	0.8	0.8	1.1	ND	2	ND	0.8	ND	10.3	ND	1.3	ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				40	<1	40	28	36	<0.1	69	233	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.9	1.9	14.8	15.6	16	16.3	1.9	7.6	0.8	1.8	<0.5	3.6	<0.5	7.6	1	30	<2	1.8	<0.5	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect				40	ND	40	28	36	ND	69	233	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	0.9	1.9	14.8	15.6	16	16.3	1.9	7.6	0.8	1.8	ND	3.6	ND	7.6	1	30	ND	1.8	ND	3.8	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				10	0.5	21	11	14	0.05	11	48	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.25	0.5	0.25	0.25	0.26	0.27	0.32	0.7	0.75	1.4	1.9	0.32	0.47	0.27	0.32	0.25	0.39	0.25	0.47	0.26	1.9	1	0.32	0.25	0.4									
Median Concentration				8.5	0.5	20	9	13	0.05	8.5	35.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation				7.4	0	8.8	7.9	7.4	0	12	42	0	0	0	0	0	0	0	0	0	0	0	0.058	0.11	0.3	2.4	2.6	3.2	3.1	0.31	1.2	0.092	0.29	0	0.62	0	1.2	0.083	6.1	0	0.31	0	0.66									
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil prop
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour In
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour In
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intru
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour I
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour I
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intr
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Chlorinated Hydrocarbons																														Halogenated Benzenes									Halogenated Hydrocarbons				
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	5	0.5	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																															
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																															
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																															
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																															
Human Health - Direct Contact - HSL-D																																															
Human Health - Intrusive - Vapour Intrusion 0-<2m																																															
Human Health - Intrusive - Vapour Intrusion 2-<4m																																															
Human Health - Intrusive - Vapour Intrusion + 4m																																															
Human Health - Intrusive - Direct Contact																																															
Human Health - Direct Contact - HIL-D																																															
EIL - Commercial / Industrial (Aged)																																															
NEPM (2013) ESL - Commercial & Industrial (Fine)																																															
NEPM (2013) ESL - Commercial & Industrial (Coarse)																																															
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																															
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																												
LL_MW01	LL_MW01_3.0	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW02	LL_MW02_0.5	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW02	LL_MW02_2.0	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW03	LL_MW03_1.9	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW04	LL_MW04_2.3	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW05	LL_MW05_0.5	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW05	LL_MW05_2.3	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW07	LL_MW07_0.5	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW07	LL_MW07_3.0	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW08	LL_MW08_3.0	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW09	LL_MW09_4.0	SOIL	27-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB01	LL_SB01_2.5	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB01	LL_SB01_9.5	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB02	LL_SB02_0.85	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB03	LL_SB03_1.6	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB04	LL_SB04_0.5	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB07	LL_SB07_0.1	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB07	LL_SB07_0.7	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB08	LL_SB08_0.5	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB09	LL_SB09_0.5	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB09	LL_SB09_1.8-1.9	SOIL	02-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB10	LL_SB10_0.5	SOIL	28-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5
LL_SB10	LL_SB10_2.0	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB11	LL_SB11_0.5	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB11	LL_SB11_2.2	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB12	LL_SB12_0.5	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB12	LL_SB12_2.2	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB13	LL_SB13_1.9	SOIL	27-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB14	LL_SB14_0.5	SOIL	28-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB14	LL_SB14_1.4	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB15	LL_SB15_0.5	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB15	LL_SB15_2.5	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB16	LL_SB16_0.5	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB17	LL_SB17_0.1	SOIL	30-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB18	LL_SB18_3.0	SOIL	27-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB19	LL_SB19_3.0	SOIL	27-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																																															
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																															
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	2.5	0.25	2.5
Standard Deviation																																														
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil prop
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour In
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour In
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intru
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour I
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour I
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intr
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

		Polychlorinated Biphenyls	Solvents					VOCs			Inorganics									Particle Size															
		PCBs (Sum of total)	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL		0.1	5	5	5	0.5	5	0.5	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																			
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																			
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																			
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																			
Human Health - Direct Contact - HSL-D																																			
Human Health - Intrusive - Vapour Intrusion 0-<2m																																			
Human Health - Intrusive - Vapour Intrusion 2-<4m																																			
Human Health - Intrusive - Vapour Intrusion + 4m																																			
Human Health - Intrusive - Direct Contact																																			
Human Health - Direct Contact - HIL-D		7#14																																	
EIL - Commercial / Industrial (Aged)																																			
NEPM (2013) ESL - Commercial & Industrial (Fine)																																			
NEPM (2013) ESL - Commercial & Industrial (Coarse)																																			
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																
LL_MW01	LL_MW01_3.0	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	19.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW02	LL_MW02_0.5	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW02	LL_MW02_2.0	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW03	LL_MW03_1.9	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW04	LL_MW04_2.3	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	11.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW05	LL_MW05_0.5	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	25.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW05	LL_MW05_2.3	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW07	LL_MW07_0.5	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	18.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW07	LL_MW07_3.0	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW08	LL_MW08_3.0	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	13.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_MW09	LL_MW09_4.0	SOIL	27-Nov-13	<0.1	-	-	-	-	-	-	-	-	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB01	LL_SB01_2.5	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	20.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB01	LL_SB01_9.5	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	20.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB02	LL_SB02_0.85	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB03	LL_SB03_1.6	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB04	LL_SB04_0.5	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	24.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB07	LL_SB07_0.1	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	18.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB07	LL_SB07_0.7	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	12.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB08	LL_SB08_0.5	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	10.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB09	LL_SB09_0.5	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	22.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB09	LL_SB09_1.8-1.9	SOIL	02-Dec-13	<0.1	-	-	-	-	-	-	-	-	21.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB10	LL_SB10_0.5	SOIL	28-Nov-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB10	LL_SB10_2.0	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	18.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB11	LL_SB11_0.5	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	23.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB11	LL_SB11_2.2	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	23.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB12	LL_SB12_0.5	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	13.3	22.2	<0.1	4.3	7	0.2	1.8	6.8	<0.5	21	33	<1	17	30	<1	12	28	26	<1	37	4	63	21	17	<1	0.5
LL_SB12	LL_SB12_2.2	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	20.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB13	LL_SB13_1.9	SOIL	27-Nov-13	<0.1	-	-	-	-	-	-	-	-	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB14	LL_SB14_0.5	SOIL	28-Nov-13	<0.1	-	-	-	-	-	-	-	-	26.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB14	LL_SB14_1.4	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	13.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB15	LL_SB15_0.5	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	22.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB15	LL_SB15_2.5	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB16	LL_SB16_0.5	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	23.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB17	LL_SB17_0.1	SOIL	30-Nov-13	<0.1	-	-	-	-	-	-	-	-	22.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB18	LL_SB18_3.0	SOIL	27-Nov-13	<0.1	-	-	-	-	-	-	-	-	17.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LL_SB19	LL_SB19_3.0	SOIL	27-Nov-13	<0.1	-	-	-	-	-	-	-	-	14.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																																			
Number of Results		36	1	1	1	1	1	1	1	1	1	36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects		0	0	0	0	0	0	0	0	0	1	36	0	1	1	1	1	1	0	1	1	0	1	1	0	1	1	0	1	1	1	1	1	0	1
Minimum Concentration		<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	13.3	10.6	<0.1	4.3	7	0.2	1.8	6.8	<0.5	21	33	<1	17	30	<1	12	28	26	<1	37	4	63	21	17	<1	0.5
Minimum Detect		ND	ND	ND	ND	ND	ND	ND	ND	ND	13.3	10.6	ND	4.3	7	0.2	1.8	6.8	ND	21	33	ND	17	30	ND	12	28	26	ND	37	4	63	21	17	ND	0.5
Maximum Concentration		<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	13.3	26.2	<0.1	4.3	7	0.2	1.8	6.8	<0.5	21	33	<1	17	30	<1	12	28	26	<1	37	4	63	21	17	<1	0.5
Maximum Detect		ND	ND	ND	ND	ND	ND	ND	ND	ND	13.3	26.2	ND	4.3	7	0.2	1.8	6.8	ND	21	33	ND	17	30	ND	12	28	26	ND	37	4	63	21	17	ND	0.5
Average Concentration		0.05										19																								
Median Concentration		0.05	2.5	2.5	2.5	0.25	2.5	0.25	0.25	0.25	13.3	18.7	0.05	4.3	7	0.2	1.8	6.8	0.25	21	33	0.5	17	30	0.5	12	28	26	0.5	37	4	63	21	17	0.5	0.5
Standard Deviation		0										4.5																								
Number of Guideline Exceedances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

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#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour I
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour I
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intr
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				TRH												BTEX							Metals							
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	>C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D																							3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																							160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LM_MW01	LM_MW01_0.5	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	11	<5	10	<0.1	2	10
LM_MW01	LM_MW01_1.9	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	17	<1	15	8	14	<0.1	4	28
LM_MW01	LM_MW01_6.3	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	14	<5	14	<0.1	5	17
LM_MW02	LM_MW02_0.5	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	19	<5	12	<0.1	8	24
LM_MW02	LM_MW02_3.6	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	12	8	21	<0.1	4	17
LM_MW03	LM_MW03_0.5	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	16	<5	12	<0.1	5	16
LM_MW03	LM_MW03_2.3	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	<1	3	<5	8	<0.1	<2	<5
LM_SB01	LM_SB01_0.1	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	150	<50	150	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	12	13	26	<0.1	12	209
LM_SB01	LMSB01_1.7	SOIL	13-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	13	11	13	<0.1	7	70
Statistical Summary																														
Number of Results				9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Number of Detects				0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	9	0	9	4	9	0	8	8
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	<1	3	<5	8	<0.1	<2	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	150	ND	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	ND	3	8	8	ND	2	10
Maximum Concentration				<10	<50	<10	<50	<100	<100	<50	150	<50	150	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	17	<1	19	13	26	<0.1	12	209
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	150	ND	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	19	13	26	ND	12	209
Average Concentration				5	25	5	25	50	50	25	39	25	61	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	10	0.5	13	5.8	14	0.05	5.3	44
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	11	0.5	13	2.5	13	0.05	5	17
Standard Deviation				0	0	0	0	0	0	0	42	0	33	0	0	0	0	0	0	0	0	0	3.7	0	4.4	4.2	5.6	0	3.3	65
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				PAH/Phenols																																	
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																														NL[#10]						
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																														NL[#9]						
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																														NL[#8]						
Human Health - HSL-D - Vapour Intrusion + 4m SAND																														NL[#11]						
Human Health - Direct Contact - HSL-D																														11000[#13]						
Human Health - Intrusive - Vapour Intrusion 0-<2m																														NL[#6]						
Human Health - Intrusive - Vapour Intrusion 2-<4m																														NL[#5]						
Human Health - Intrusive - Vapour Intrusion + 4m																														NL[#7]						
Human Health - Intrusive - Direct Contact																														29000[#12]						
Human Health - Direct Contact - HIL-D																															4000[#14]	660[#14]		240000[#14]	
EIL - Commercial / Industrial (Aged)																														370[#2]						
NEPM (2013) ESL - Commercial & Industrial (Fine)																		1.4[#15]																		
NEPM (2013) ESL - Commercial & Industrial (Coarse)																		1.4[#15]																		
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																		
LM_MW01	LM_MW01_0.5	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LM_MW01	LM_MW01_1.9	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LM_MW01	LM_MW01_6.3	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LM_MW02	LM_MW02_0.5	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LM_MW02	LM_MW02_3.6	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LM_MW03	LM_MW03_0.5	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LM_MW03	LM_MW03_2.3	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LM_SB01	LM_SB01_0.1	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LM_SB01	LMSB01_1.7	SOIL	13-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Statistical Summary																																					
Number of Results				9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapou
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapou
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour In
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour I
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
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#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Inorganics									Particle Size																
				CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
				meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL				0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																													
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																													
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																													
Human Health - HSL-D - Vapour Intrusion + 4m SAND																													
Human Health - Direct Contact - HSL-D																													
Human Health - Intrusive - Vapour Intrusion 0-<2m																													
Human Health - Intrusive - Vapour Intrusion 2-<4m																													
Human Health - Intrusive - Vapour Intrusion + 4m																													
Human Health - Intrusive - Direct Contact																													
Human Health - Direct Contact - HIL-D																													
EIL - Commercial / Industrial (Aged)																													
NEPM (2013) ESL - Commercial & Industrial (Fine)																													
NEPM (2013) ESL - Commercial & Industrial (Coarse)																													
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																													
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																										
LM_MW01	LM_MW01_0.5	SOIL	11-Nov-13	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LM_MW01	LM_MW01_1.9	SOIL	11-Nov-13	-	21.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LM_MW01	LM_MW01_6.3	SOIL	11-Nov-13	-	19.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LM_MW02	LM_MW02_0.5	SOIL	11-Nov-13	14.2	17.8	<0.1	5.5	8.1	0.3	0.4	4.6	<0.5	34	44	<1	32	39	<1	24	37	36	<1	49	8	51	18	32	<1	0.8
LM_MW02	LM_MW02_3.6	SOIL	11-Nov-13	-	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LM_MW03	LM_MW03_0.5	SOIL	11-Nov-13	-	21.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LM_MW03	LM_MW03_2.3	SOIL	11-Nov-13	-	21.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LM_SB01	LM_SB01_0.1	SOIL	11-Nov-13	-	20.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LM_SB01	LMSB01_1.7	SOIL	13-Nov-13	-	14.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																													
Number of Results				1	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				1	9	0	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	0	1
Minimum Concentration				14.2	14.7	<0.1	5.5	8.1	0.3	0.4	4.6	<0.5	34	44	<1	32	39	<1	24	37	36	<1	49	8	51	18	32	<1	0.8
Minimum Detect				14.2	14.7	ND	5.5	8.1	0.3	0.4	4.6	ND	34	44	ND	32	39	ND	24	37	36	ND	49	8	51	18	32	ND	0.8
Maximum Concentration				14.2	26	<0.1	5.5	8.1	0.3	0.4	4.6	<0.5	34	44	<1	32	39	<1	24	37	36	<1	49	8	51	18	32	<1	0.8
Maximum Detect				14.2	26	ND	5.5	8.1	0.3	0.4	4.6	ND	34	44	ND	32	39	ND	24	37	36	ND	49	8	51	18	32	ND	0.8
Average Concentration					20																								
Median Concentration				14.2	20.6	0.05	5.5	8.1	0.3	0.4	4.6	0.25	34	44	0.5	32	39	0.5	24	37	36	0.5	49	8	51	18	32	0.5	0.8
Standard Deviation					3.1																								
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pı
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapou
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapou
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour In
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour I
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	TRH												BTEX							Metals							
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	>C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND	260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND	370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND	630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]										
Human Health - HSL-D - Vapour Intrusion + 4m SAND	NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]										
Human Health - Direct Contact - HSL-D	NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]										
Human Health - Intrusive - Vapour Intrusion 0-<2m	NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]										
Human Health - Intrusive - Vapour Intrusion 2-<4m	NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]										
Human Health - Intrusive - Vapour Intrusion + 4m	NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]										
Human Health - Intrusive - Direct Contact	82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]										
Human Health - Direct Contact - HIL-D																				3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																				160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)										2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)										1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)	215[#15]								170[#15]																		

Location Code	Field ID	Matrix Type	Sampled Date																									
LN_MW01	LN_MW01_0.5	SOIL	07-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	14	28	17	<0.1	19	66
LN_MW01	LN_MW01_2.1	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	1	10	21	10	<0.1	14	44
LN_MW02	LN_MW02_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW02	LN_MW02_1.5	SOIL	08-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	10	22	13	<0.1	14	50
LN_MW02	LN_MW02_3.0	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	6	8	6	<0.1	7	23
LN_MW02	LN_MW02_6.0	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	<1	12	25	14	<0.1	25	83
LN_MW03	LN_MW03_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW03	LN_MW03_0.5	SOIL	08-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	18	38	22	<0.1	24	90
LN_MW04	LN_MW04_0.5	SOIL	07-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	20	31	29	<0.1	16	58
LN_MW04	LN_MW04_3.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	18	37	18	<0.1	27	90
LN_MW05	LN_MW05_3.0	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	6	7	16	<0.1	3	11
LN_MW06	LN_MW06_0.5	SOIL	07-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	<1	10	19	11	<0.1	8	38
LN_MW06	LN_MW06_3.0	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	6	<5	6	<0.1	<2	<5
LN_MW07	LN_MW07_0.5	SOIL	07-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	13	33	16	<0.1	34	102
LN_MW07	LN_MW07_3.2	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	2	16	27	12	<0.1	10	58

Statistical Summary

Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	2	13	12	13	0	12	12
Minimum Concentration	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	6	<5	6	<0.1	<2	<5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	1	6	7	6	ND	3	11
Maximum Concentration	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	18	2	20	38	29	<0.1	34	102
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	2	20	38	29	ND	34	102
Average Concentration	5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	9.8	0.65	12	23	15	0.05	16	55
Median Concentration	5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	12	0.5	12	25	14	0.05	14	58
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.9	0.43	4.8	11	6.3	0	9.9	31
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	PAH/Phenols																													MAH									
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																											NL[#10]													
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																											NL[#9]													
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																											NL[#8]													
Human Health - HSL-D - Vapour Intrusion + 4m SAND																											NL[#11]													
Human Health - Direct Contact - HSL-D																											11000[#13]													
Human Health - Intrusive - Vapour Intrusion 0-<2m																											NL[#6]													
Human Health - Intrusive - Vapour Intrusion 2-<4m																											NL[#5]													
Human Health - Intrusive - Vapour Intrusion + 4m																											NL[#7]													
Human Health - Intrusive - Direct Contact																											29000[#12]													
Human Health - Direct Contact - HIL-D																												4000[#14]	660[#14]		240000[#14]									
EIL - Commercial / Industrial (Aged)																											370[#2]													
NEPM (2013) ESL - Commercial & Industrial (Fine)															1.4[#15]																									
NEPM (2013) ESL - Commercial & Industrial (Coarse)															1.4[#15]																									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																								

Location Code	Field ID	Matrix Type	Sampled Date																																						
LN_MW01	LN_MW01_0.5	SOIL	07-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
LN_MW01	LN_MW01_2.1	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW02	LN_MW02_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW02	LN_MW02_1.5	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW02	LN_MW02_3.0	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW02	LN_MW02_6.0	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW03	LN_MW03_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW03	LN_MW03_0.5	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW04	LN_MW04_0.5	SOIL	07-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
LN_MW04	LN_MW04_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
LN_MW05	LN_MW05_3.0	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW06	LN_MW06_0.5	SOIL	07-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
LN_MW06	LN_MW06_3.0	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW07	LN_MW07_0.5	SOIL	07-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
LN_MW07	LN_MW07_3.2	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Statistical Summary

Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	7	7	7	7	7	7	7	7	7
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pr
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Int
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	Chlorinated Hydrocarbons																														Halogenated Benzenes								
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																							
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																							
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																							
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																							
Human Health - Direct Contact - HSL-D																																							
Human Health - Intrusive - Vapour Intrusion 0-<2m																																							
Human Health - Intrusive - Vapour Intrusion 2-<4m																																							
Human Health - Intrusive - Vapour Intrusion + 4m																																							
Human Health - Intrusive - Direct Contact																																							
Human Health - Direct Contact - HIL-D																																							
EIL - Commercial / Industrial (Aged)																																							
NEPM (2013) ESL - Commercial & Industrial (Fine)																																							
NEPM (2013) ESL - Commercial & Industrial (Coarse)																																							
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																							
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																					
LN_MW01	LN_MW01_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW01	LN_MW01_2.1	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW02	LN_MW02_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW02	LN_MW02_1.5	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW02	LN_MW02_3.0	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW02	LN_MW02_6.0	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW03	LN_MW03_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW03	LN_MW03_0.5	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW04	LN_MW04_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW04	LN_MW04_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW05	LN_MW05_3.0	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW06	LN_MW06_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW06	LN_MW06_3.0	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LN_MW07	LN_MW07_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW07	LN_MW07_3.2	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																																							
Number of Results	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

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#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Int
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	Halogenated Hydrocarbons					Polychlorinated Biphenyls	Solvents					VOCs			Inorganics									Particle Size																				
	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	PCBs (Sum of total)	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL	0.5	5	5	0.5	5	0.1	5	5	5	0.5	5	0.5	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																										
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																										
Human Health - Direct Contact - HSL-D																																										
Human Health - Intrusive - Vapour Intrusion 0-<2m																																										
Human Health - Intrusive - Vapour Intrusion 2-<4m																																										
Human Health - Intrusive - Vapour Intrusion + 4m																																										
Human Health - Intrusive - Direct Contact																																										
Human Health - Direct Contact - HIL-D						7[#14]																																				
EIL - Commercial / Industrial (Aged)																																										
NEPM (2013) ESL - Commercial & Industrial (Fine)																																										
NEPM (2013) ESL - Commercial & Industrial (Coarse)																																										
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																										

Location Code	Field ID	Matrix Type	Sampled Date																																									
LN_MW01	LN_MW01_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW01	LN_MW01_2.1	SOIL	19-Nov-13	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	-	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW02	LN_MW02_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW02	LN_MW02_1.5	SOIL	08-Nov-13	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	-	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW02	LN_MW02_3.0	SOIL	19-Nov-13	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	2	17.6	<0.1	<0.1	<0.1	0.3	1.7	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW02	LN_MW02_6.0	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.9	-	-	-	-	-	-	<0.5	9	21	<1	6	15	<1	3	13	11	<1	25	<1	75	18	6	<1	0.6
LN_MW03	LN_MW03_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW03	LN_MW03_0.5	SOIL	08-Nov-13	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	15.5	21	<0.1	7.2	7	0.2	1.1	8.8	<0.5	<1	2	<1	<1	1	<1	<1	1	<1	<1	4	<1	96	4	<1	<1	<0.5
LN_MW04	LN_MW04_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW04	LN_MW04_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW05	LN_MW05_3.0	SOIL	19-Nov-13	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	-	29.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW06	LN_MW06_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW06	LN_MW06_3.0	SOIL	19-Nov-13	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	-	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW07	LN_MW07_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LN_MW07	LN_MW07_3.2	SOIL	19-Nov-13	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	-	16.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	7	7	7	7	7	7	7	7	7	7	7	7	7	7	2	13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	13	0	1	1	2	2	2	0	1	2	0	1	2	0	1	2	1	0	2	0	2	2	1	0	1				
Minimum Concentration	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	2	13.1	<0.1	<0.1	<0.1	0.2	1.1	7.5	<0.5	<1	2	<1	<1	1	<1	<1	1	<1	<1	4	<1	75	4	<1	<1	<0.5				
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	13.1	ND	7.2	7	0.2	1.1	7.5	ND	9	2	ND	6	1	ND	3	1	11	ND	4	ND	75	4	6	ND	0.6				
Maximum Concentration	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	15.5	29.9	<0.1	7.2	7	0.3	1.7	8.8	<0.5	9	21	<1	6	15	<1	3	13	11	<1	25	<1	96	18	6	<1	0.6				
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.5	29.9	ND	7.2	7	0.3	1.7	8.8	ND	9	21	ND	6	15	ND	3	13	11	ND	25	ND	96	18	6	ND	0.6				
Average Concentration	0.25	2.5	2.5	0.25	2.5	0.05	2.5	2.5	2.5	0.25	2.5	0.25	0.25	0.25		18																														
Median Concentration	0.25	2.5	2.5	0.25	2.5	0.05	2.5	2.5	2.5	0.25	2.5	0.25	0.25	0.25	8.75	16.9	0.05	3.625	3.525	0.25	1.4	8.15	0.25	4.75	11.5	0.5	3.25	8	0.5	1.75	7	5.75	0.5	14.5	0.5	85.5	11	3.25	0.5	0.425				
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0		4.4																												
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pr
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Int
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Ir
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				TRH												BTEX			
				C6-C10 less BTEX (F1)	> C10 -C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]	
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]	
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]	
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]	
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]	
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]	
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]	
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]	
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]	
Human Health - Direct Contact - HIL-D																			
EIL - Commercial / Industrial (Aged)																			
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]	
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]							
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																
LO_MW01	LO_MW01_1.1	SOIL	11-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW02	LO_MW02_0.1	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW02	LO_MW02_1.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW03	LO_MW03_0.5	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW03	LO_MW03_1.0	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_0.5	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_1.5	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_4.0	SOIL	05-Dec-13	<10	120	<10	60	150	<100	210 - 260	120	120	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_0.1	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_1.5	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_3.0	SOIL	05-Dec-13	<10	80	<10	<50	160	<100	160 - 235	210	80	130	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_0.5	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_1.0	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_5.0	SOIL	05-Dec-13	<10	130	<10	70	170	<100	240 - 290	230	130	100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW08	LO_MW08_0.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW08	LO_MW08_2.2	SOIL	10-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW10	LO_MW10_0.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW10	LO_MW10_1.2	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW11	LO_MW11_0.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW11	LO_MW11_1.2	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW12	LO_MW12_3.0	SOIL	06-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW13	LO_MW13_0.6	SOIL	11-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW14	LO_MW14_0.5	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW14	LO_MW14_1.0	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW15	LO_MW15_0.5	SOIL	25-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW15	LO_MW15_2.0	SOIL	27-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW16	LO_MW16_3.9	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW17	LO_MW17_0.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_MW17	LO_MW17_3.7	SOIL	10-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB01	LO_SB01_0.5	SOIL	12-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB02	LO_SB02_0.1	SOIL	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB03	LO_SB03_0.5	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB03	LO_SB03_3.0	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB03	LO_SB03-0.5	SOIL	03-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB04	LO_SB04_2.0	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_0.5	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_0.5	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_1.7	SOIL	09-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB06	LO_SB06_3.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB06A	LO_SB06A_0.5	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB07	LO_SB07_0.5	SOIL	07-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB07	LO_SB07_3.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB08	LO_SB08_0.5	SOIL	07-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB09	LO_SB09_0.5	SOIL	06-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
LO_SB09	LO_SB09_3.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
Statistical Summary																			
Number of Results				44	42	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Number of Detects				0	3	0	2	3	0	3	3	3	2	0	0	0	0	0	0
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5
Minimum Detect				ND	80	ND	60	150	ND	160	120	80	100	ND	ND	ND	ND	ND	ND
Maximum Concentration				<10	130	<10	70	170	<100	290	230	130	130	<100	<10	<0.2	<0.5	<0.5	<0.5
Maximum Detect				ND	130	ND	70	170	ND	290	230	130	130	ND	ND	ND	ND	ND	ND
Average Concentration				5	31	5	27	58	50	39	36	31	53	50	5	0.1	0.25	0.25	0.25
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25
Standard Deviation				0	23	0	8.5	28	0	53	43	22	14	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Metals								PAH/Phenols																							
	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND		230[#10]																																	
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND		NL[#9]																																	
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND		NL[#8]																																	
Human Health - HSL-D - Vapour Intrusion + 4m SAND		NL[#11]																																	
Human Health - Direct Contact - HSL-D		81000[#13]																																	
Human Health - Intrusive - Vapour Intrusion 0-<2m		NL[#6]																																	
Human Health - Intrusive - Vapour Intrusion 2-<4m		NL[#5]																																	
Human Health - Intrusive - Vapour Intrusion + 4m		NL[#7]																																	
Human Health - Intrusive - Direct Contact		130000[#12]																																	
Human Health - Direct Contact - HIL-D				3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]																									
EIL - Commercial / Industrial (Aged)				160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]																									
NEPM (2013) ESL - Commercial & Industrial (Fine)		95[#15]																								1.4[#15]								
NEPM (2013) ESL - Commercial & Industrial (Coarse)		180[#15]																								1.4[#15]								
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																			

Location Code	Field ID	Matrix Type	Sampled Date																																		
LO_MW01	LO_MW01_1.1	SOIL	11-Dec-13	<0.5	<0.5	<0.2	11	<1	15	16	12	<0.1	22	64	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW02	LO_MW02_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.2	<5	<1	16	17	5	<0.1	26	84	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW02	LO_MW02_1.5	SOIL	09-Dec-13	<0.5	<0.5	<0.2	10	2	6	88	19	<0.1	55	50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW03	LO_MW03_0.5	SOIL	30-Nov-13	<0.5	<0.5	<0.2	10	<1	15	16	14	<0.1	16	54	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW03	LO_MW03_1.0	SOIL	05-Dec-13	<0.5	<0.5	<0.2	20	<1	14	32	18	<0.1	32	91	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.2	12	<1	22	21	14	<0.1	20	94	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_1.5	SOIL	05-Dec-13	<0.5	<0.5	<0.2	18	<1	11	24	16	<0.1	39	62	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_4.0	SOIL	05-Dec-13	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_0.1	SOIL	04-Dec-13	<0.5	<0.5	<0.2	<5	<1	17	14	<5	<0.1	29	39	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_1.5	SOIL	05-Dec-13	<0.5	<0.5	<0.2	<5	<1	11	8	6	<0.1	24	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_3.0	SOIL	05-Dec-13	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_0.5	SOIL	30-Nov-13	<0.5	<0.5	<0.2	14	<1	26	20	30	<0.1	7	31	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_1.0	SOIL	05-Dec-13	<0.5	<0.5	<0.2	9	<1	5	<5	8	<0.1	<2	6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_5.0	SOIL	05-Dec-13	<0.5	<0.5	<0.2	-	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW08	LO_MW08_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.2	9	<1	18	8	16	<0.1	10	31	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW08	LO_MW08_2.2	SOIL	10-Dec-13	<0.5	<0.5	<0.2	7	<1	5	8	11	<0.1	4	15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW10	LO_MW10_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.2	14	<1	23	16	19	<0.1	14	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW10	LO_MW10_1.2	SOIL	09-Dec-13	<0.5	<0.5	<0.2	<5	<1	3	<5	6	<0.1	<2	6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW11	LO_MW11_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.2	8	<1	30	12	12	<0.1	22	41	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW11	LO_MW11_1.2	SOIL	09-Dec-13	<0.5	<0.5	<0.2	16	<1	11	16	14	<0.1	62	155	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW12	LO_MW12_3.0	SOIL	06-Dec-13	<0.5	<0.5	<0.2	8	<1	15	17	12	<0.1	8	33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW13	LO_MW13_0.6	SOIL	11-Dec-13	<0.5	<0.5	<0.2	14	<1	12	15	10	<0.1	12	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW14	LO_MW14_0.5	SOIL	02-Dec-13	<0.5	<0.5	<0.2	12	<1	15	13	19	<0.1	22	73	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW14	LO_MW14_1.0	SOIL	04-Dec-13	<0.5	<0.5	<0.2	12	<1	25	10	13	<0.1	15	47	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW15	LO_MW15_0.5	SOIL	25-Nov-13	<0.5	<0.5	<0.2	12	<1	10	7	13	<0.1	4	18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5
LO_MW15	LO_MW15_2.0	SOIL	27-Nov-13	<0.5	<0.5	<0.2	8	<1	14	<5	10	<0.1	2	9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5
LO_MW16	LO_MW16_3.9	SOIL	30-Nov-13	<0.5	<0.5	<0.2	<5	<1	7	<5	8	<0.1	2	8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW17	LO_MW17_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.2	9	<1	16	32	16	<0.1	10	53	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_MW17	LO_MW17_3.7	SOIL	10-Dec-13	<0.5	<0.5	<0.2	<5	<1	7	10	6	<0.1	14	29	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB01	LO_SB01_0.5	SOIL	12-Nov-13	<0.5	<0.5	<0.2	7	<1	8	6	10	<0.1	10	40	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB02	LO_SB02_0.1	SOIL	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB03	LO_SB03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.2	9	<1	15	11	14	<0.1	3	21	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB03	LO_SB03_3.0	SOIL	09-Dec-13	<0.5	<0.5	<0.2	15	<1	7	<5	8	<0.1	<2	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB03	LO_SB03-0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.2	6	<1	16	13	19	<0.1	2	16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB04	LO_SB04_2.0	SOIL	09-Dec-13	<0.5	<0.5	<0.2	20	<1	14	<5	8	<0.1	<2	10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.2	<5	<1	14	16	<5	<0.1	25	66	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.2	8	<1	21	<5	11	<0.1	6	15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_1.7	SOIL	09-Dec-13	<0.5	<0.5	<0.2	5	<1	9	<5	9	<0.1	2	14	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB06	LO_SB06_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.2	23	<1	19	57	25	<0.1	26	114	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB06A	LO_SB06A_0.5	SOIL	14-Nov-13	<0.5	<0.5	<0.2	10	<1	16	34	20	<0.1	24	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB07	LO_SB07_0.5	SOIL	07-Nov-13	<0.5	<0.5	<0.2	9	<1	8	23	21	<0.1	12	46	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB07	LO_SB07_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.2	6	<1	13	34	13	<0.1	31	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB08	LO_SB08_0.5	SOIL	07-Nov-13	<0.5	<0.5	<0.2	10	<1	15	28	23	<0.1	16	86	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB09	LO_SB09_0.5	SOIL	06-Nov-13	<0.5	<0.5	<0.2	12	<1	12	24	14	<0.1	16	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
LO_SB09	LO_SB09_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.2	13	<1	12	32	17	<0.1	28	88	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5

Statistical Summary

Number of Results	44	44	44	41	41	41	41	41	41	41	41	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	41	41	43	43	43	43
Number of Detects	0	0	0	34	1	41	33	39	0	37	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	41	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.2	<5	<1	3	<5	<5	<0.1	<2	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	5	2	3	6	5	ND	2	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.2	23	2	30	88	30	<0.1	62	155	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	23	2	30	88	30	ND	62	155	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND
Average Concentration	0.25	0.25	0.1	9.8	0.54	14	18	13	0.05	16	48	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25
Median Concentration	0.25	0.25	0.1	9	0.5	14	15	13	0.05	14	42	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25
Standard Deviation	0	0	0	5.1	0.23	6	16	6	0	14	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapo
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapo
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour In
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapo
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapo
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vap
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

												MAH																				
	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND					NL[#10]																									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND					NL[#9]																									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND					NL[#8]																									
Human Health - HSL-D - Vapour Intrusion + 4m SAND					NL[#11]																									
Human Health - Direct Contact - HSL-D					11000[#13]																									
Human Health - Intrusive - Vapour Intrusion 0-<2m					NL[#6]																									
Human Health - Intrusive - Vapour Intrusion 2-<4m					NL[#5]																									
Human Health - Intrusive - Vapour Intrusion + 4m					NL[#7]																									
Human Health - Intrusive - Direct Contact					29000[#12]																									
Human Health - Direct Contact - HIL-D						4000[#14]	660[#14]		240000[#14]																					
EIL - Commercial / Industrial (Aged)					370[#2]																									
NEPM (2013) ESL - Commercial & Industrial (Fine)																														
NEPM (2013) ESL - Commercial & Industrial (Coarse)																														
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																														

Location Code	Field ID	Matrix Type	Sampled Date																														
LO_MW01	LO_MW01_1.1	SOIL	11-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW02	LO_MW02_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW02	LO_MW02_1.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW03	LO_MW03_0.5	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW03	LO_MW03_1.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_1.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_4.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_0.1	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_1.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_3.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_0.5	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_1.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_5.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW08	LO_MW08_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW08	LO_MW08_2.2	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW10	LO_MW10_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW10	LO_MW10_1.2	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW11	LO_MW11_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW11	LO_MW11_1.2	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW12	LO_MW12_3.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW13	LO_MW13_0.6	SOIL	11-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW14	LO_MW14_0.5	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW14	LO_MW14_1.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW15	LO_MW15_0.5	SOIL	25-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW15	LO_MW15_2.0	SOIL	27-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW16	LO_MW16_3.9	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW17	LO_MW17_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_MW17	LO_MW17_3.7	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_SB01	LO_SB01_0.5	SOIL	12-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB02	LO_SB02_0.1	SOIL	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB03	LO_SB03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_SB03	LO_SB03_3.0	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_SB03	LO_SB03-0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_SB04	LO_SB04_2.0	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_1.7	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LO_SB06	LO_SB06_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB06A	LO_SB06A_0.5	SOIL	14-Nov-13	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB07	LO_SB07_0.5	SOIL	07-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB07	LO_SB07_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB08	LO_SB08_0.5	SOIL	07-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB09	LO_SB09_0.5	SOIL	06-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB09	LO_SB09_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	43	43	43	43	44	43	43	43	43	43	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.25	0.25	0.25	0.25	0.26	0.25	1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0.038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapo
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapo
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour In
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapo
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapo
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vap
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	Chlorinated Hydrocarbons																		Halogenated Benzenes									Halogenated Hydrocarbons					PFOA	PFOS	
	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	Perfluorooctanoate	6:2 Fluorotelomer Sulfonate (6:2 FtS)	PFOS
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	mg/kg	µg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	5	0.5	5	0.5	0.005	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																			
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																			
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																			
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																			
Human Health - Direct Contact - HSL-D																																			
Human Health - Intrusive - Vapour Intrusion 0-<2m																																			
Human Health - Intrusive - Vapour Intrusion 2-<4m																																			
Human Health - Intrusive - Vapour Intrusion + 4m																																			
Human Health - Intrusive - Direct Contact																																			
Human Health - Direct Contact - HIL-D																																			
EIL - Commercial / Industrial (Aged)																																			
NEPM (2013) ESL - Commercial & Industrial (Fine)																																			
NEPM (2013) ESL - Commercial & Industrial (Coarse)																																			
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																
LO_MW01	LO_MW01_1.1	SOIL	11-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW02	LO_MW02_0.1	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW02	LO_MW02_1.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW03	LO_MW03_0.5	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW03	LO_MW03_1.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW04	LO_MW04_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-		
LO_MW04	LO_MW04_1.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW04	LO_MW04_4.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW05	LO_MW05_0.1	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW05	LO_MW05_1.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW05	LO_MW05_3.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW06	LO_MW06_0.5	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW06	LO_MW06_1.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW06	LO_MW06_5.0	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW08	LO_MW08_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW08	LO_MW08_2.2	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW10	LO_MW10_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW10	LO_MW10_1.2	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW11	LO_MW11_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW11	LO_MW11_1.2	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW12	LO_MW12_3.0	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW13	LO_MW13_0.6	SOIL	11-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW14	LO_MW14_0.5	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-		
LO_MW14	LO_MW14_1.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW15	LO_MW15_0.5	SOIL	25-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW15	LO_MW15_2.0	SOIL	27-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW16	LO_MW16_3.9	SOIL	30-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW17	LO_MW17_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_MW17	LO_MW17_3.7	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_SB01	LO_SB01_0.5	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB02	LO_SB02_0.1	SOIL	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB03	LO_SB03_0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_SB03	LO_SB03_3.0	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_SB03	LO_SB03-0.5	SOIL	03-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_SB04	LO_SB04_2.0	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_SB05	LO_SB05_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	-	-	-		
LO_SB05	LO_SB05_0.5	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_SB05	LO_SB05_1.7	SOIL	09-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
LO_SB06	LO_SB06_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB06A	LO_SB06A_0.5	SOIL	14-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB07	LO_SB07_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB07	LO_SB07_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB08	LO_SB08_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB09	LO_SB09_0.5	SOIL	06-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB09	LO_SB09_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																																						
Number of Results				35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	32	32	32
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<0.5	<5	<0.5	<0.005	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	2.5	2.5	0.25	2.5	0.25	0.0025	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	2.5	2.5	0.25	2.5	0.25	0.0025	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapo
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapo
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour I
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapo
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapo
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vap
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

		Polychlorinated Biphenyls	Solvents					VOCs		
		PCBs (Sum of total)	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.1	5	5	5	0.5	5	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND										
Human Health - HSL-D - Vapour Intrusion + 4m SAND										
Human Health - Direct Contact - HSL-D										
Human Health - Intrusive - Vapour Intrusion 0-<2m										
Human Health - Intrusive - Vapour Intrusion 2-<4m										
Human Health - Intrusive - Vapour Intrusion + 4m										
Human Health - Intrusive - Direct Contact										
Human Health - Direct Contact - HIL-D		7[#14]								
EIL - Commercial / Industrial (Aged)										
NEPM (2013) ESL - Commercial & Industrial (Fine)										
NEPM (2013) ESL - Commercial & Industrial (Coarse)										
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)										
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**							
LO_MW01	LO_MW01_1.1	SOIL	11-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW02	LO_MW02_0.1	SOIL	05-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW02	LO_MW02_1.5	SOIL	09-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW03	LO_MW03_0.5	SOIL	30-Nov-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW03	LO_MW03_1.0	SOIL	05-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_0.5	SOIL	04-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_1.5	SOIL	05-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW04	LO_MW04_4.0	SOIL	05-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_0.1	SOIL	04-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_1.5	SOIL	05-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW05	LO_MW05_3.0	SOIL	05-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_0.5	SOIL	30-Nov-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_1.0	SOIL	05-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW06	LO_MW06_5.0	SOIL	05-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW08	LO_MW08_0.5	SOIL	09-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW08	LO_MW08_2.2	SOIL	10-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW10	LO_MW10_0.5	SOIL	09-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW10	LO_MW10_1.2	SOIL	09-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW11	LO_MW11_0.5	SOIL	09-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW11	LO_MW11_1.2	SOIL	09-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW12	LO_MW12_3.0	SOIL	06-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW13	LO_MW13_0.6	SOIL	11-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW14	LO_MW14_0.5	SOIL	02-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW14	LO_MW14_1.0	SOIL	04-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW15	LO_MW15_0.5	SOIL	25-Nov-13	-	-	-	-	-	-	-	-	-
LO_MW15	LO_MW15_2.0	SOIL	27-Nov-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW16	LO_MW16_3.9	SOIL	30-Nov-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW17	LO_MW17_0.5	SOIL	09-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_MW17	LO_MW17_3.7	SOIL	10-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_SB01	LO_SB01_0.5	SOIL	12-Nov-13	-	-	-	-	-	-	-	-	-
LO_SB02	LO_SB02_0.1	SOIL	22-Nov-13	-	-	-	-	-	-	-	-	-
LO_SB03	LO_SB03_0.5	SOIL	03-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_SB03	LO_SB03_3.0	SOIL	09-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_SB03	LO_SB03-0.5	SOIL	03-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_SB04	LO_SB04_2.0	SOIL	09-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_0.5	SOIL	04-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_0.5	SOIL	09-Dec-13	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_SB05	LO_SB05_1.7	SOIL	09-Dec-13	-	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
LO_SB06	LO_SB06_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-
LO_SB06A	LO_SB06A_0.5	SOIL	14-Nov-13	-	-	-	-	-	-	-	-	-
LO_SB07	LO_SB07_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-
LO_SB07	LO_SB07_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-
LO_SB08	LO_SB08_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-
LO_SB09	LO_SB09_0.5	SOIL	06-Nov-13	<0.1	-	-	-	-	-	-	-	-
LO_SB09	LO_SB09_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-
Statistical Summary												
Number of Results				17	35	35	35	35	35	35	35	35
Number of Detects				0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.05	2.5	2.5	2.5	0.25	2.5	0.25	0.25	0.25
Median Concentration				0.05	2.5	2.5	2.5	0.25	2.5	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapo
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapo
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour I
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapo
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapo
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vap
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	Inorganics									Particle Size																
	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																									
Human Health - HSL-D - Vapour Intrusion + 4m SAND																									
Human Health - Direct Contact - HSL-D																									
Human Health - Intrusive - Vapour Intrusion 0-<2m																									
Human Health - Intrusive - Vapour Intrusion 2-<4m																									
Human Health - Intrusive - Vapour Intrusion + 4m																									
Human Health - Intrusive - Direct Contact																									
Human Health - Direct Contact - HIL-D																									
EIL - Commercial / Industrial (Aged)																									
NEPM (2013) ESL - Commercial & Industrial (Fine)																									
NEPM (2013) ESL - Commercial & Industrial (Coarse)																									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																									
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LO_MW01	LO_MW01_1.1	SOIL	11-Dec-13	-	8.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW02	LO_MW02_0.1	SOIL	05-Dec-13	-	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW02	LO_MW02_1.5	SOIL	09-Dec-13	-	18.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW03	LO_MW03_0.5	SOIL	30-Nov-13	-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW03	LO_MW03_1.0	SOIL	05-Dec-13	-	16.2	-	-	-	-	-	-	-	13	18	2	12	14	<1	11	13	13	<1	22	11	78	10	12	<1	-
LO_MW04	LO_MW04_0.5	SOIL	04-Dec-13	-	19.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW04	LO_MW04_1.5	SOIL	05-Dec-13	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW04	LO_MW04_4.0	SOIL	05-Dec-13	-	14.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW05	LO_MW05_0.1	SOIL	04-Dec-13	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW05	LO_MW05_1.5	SOIL	05-Dec-13	-	21.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW05	LO_MW05_3.0	SOIL	05-Dec-13	-	20.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW06	LO_MW06_0.5	SOIL	30-Nov-13	-	22.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW06	LO_MW06_1.0	SOIL	05-Dec-13	-	20.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW06	LO_MW06_5.0	SOIL	05-Dec-13	-	18.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW08	LO_MW08_0.5	SOIL	09-Dec-13	-	21.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW08	LO_MW08_2.2	SOIL	10-Dec-13	-	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW10	LO_MW10_0.5	SOIL	09-Dec-13	-	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW10	LO_MW10_1.2	SOIL	09-Dec-13	-	11.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW11	LO_MW11_0.5	SOIL	09-Dec-13	-	18.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW11	LO_MW11_1.2	SOIL	09-Dec-13	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW12	LO_MW12_3.0	SOIL	06-Dec-13	-	23.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW13	LO_MW13_0.6	SOIL	11-Dec-13	-	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW14	LO_MW14_0.5	SOIL	02-Dec-13	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW14	LO_MW14_1.0	SOIL	04-Dec-13	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW15	LO_MW15_0.5	SOIL	25-Nov-13	-	24.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW15	LO_MW15_2.0	SOIL	27-Nov-13	-	18.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW16	LO_MW16_3.9	SOIL	30-Nov-13	-	20.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW17	LO_MW17_0.5	SOIL	09-Dec-13	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_MW17	LO_MW17_3.7	SOIL	10-Dec-13	-	12.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB01	LO_SB01_0.5	SOIL	12-Nov-13	12.8	16.4	<0.1	8.6	4	0.1	0.1	8.7	<0.5	60	82	<1	52	78	<1	40	74	69	<1	85	14	15	33	52	<1	<0.5
LO_SB02	LO_SB02_0.1	SOIL	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB03	LO_SB03_0.5	SOIL	03-Dec-13	-	27.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB03	LO_SB03_3.0	SOIL	09-Dec-13	-	11.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB03	LO_SB03-0.5	SOIL	03-Dec-13	-	22	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5
LO_SB04	LO_SB04_2.0	SOIL	09-Dec-13	-	19.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB05	LO_SB05_0.5	SOIL	04-Dec-13	-	21.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB05	LO_SB05_0.5	SOIL	09-Dec-13	-	21.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB05	LO_SB05_1.7	SOIL	09-Dec-13	-	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB06	LO_SB06_3.0	SOIL	20-Nov-13	-	12.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB06A	LO_SB06A_0.5	SOIL	14-Nov-13	-	23.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB07	LO_SB07_0.5	SOIL	07-Nov-13	-	20.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB07	LO_SB07_3.0	SOIL	20-Nov-13	-	19.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB08	LO_SB08_0.5	SOIL	07-Nov-13	-	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB09	LO_SB09_0.5	SOIL	06-Nov-13	-	19.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LO_SB09	LO_SB09_3.0	SOIL	20-Nov-13	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																											
Number of Results				1	44	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects				1	44	0	1	1	1	1	1	0	2	2	1	2	2	0	2	2	2	0	2	2	2	2	2	0	0
Minimum Concentration				12.8	8	<0.1	8.6	4	0.1	0.1	8.7	<0.5	13	18	<1	12	14	<1	11	13	13	<1	22	11	15	10	12	<1	<0.5
Minimum Detect				12.8	8	ND	8.6	4	0.1	0.1	8.7	ND	13	18	2	12	14	ND	11	13	13	ND	22	11	15	10	12	ND	ND
Maximum Concentration				12.8	27.3	<0.1	8.6	4	0.1	0.1	8.7	<0.5	60	82	2	52	78	<1	40	74	69	<1	85	14	78	33	52	<1	<0.5
Maximum Detect				12.8	27.3	ND	8.6	4	0.1	0.1	8.7	ND	60	82	2	52	78	ND	40	74	69	ND	85	14	78	33	52	ND	ND
Average Concentration					18																								
Median Concentration				12.8	18.05	0.05	8.6	4	0.1	0.1	8.7	0.25	36.5	50	1.25	32	46	0.5	25.5	43.5	41	0.5	53.5	12.5	46.5	21.5	32	0.5	0.25
Standard Deviation					4.4																								
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapo
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapo
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour I
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapo
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapo
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vap
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	TRH											
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	10	50	10	50	100	100	50	50	50	100	100	10
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND	260[#10]	NL[#10]										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND	370[#9]	NL[#9]										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND	630[#8]	NL[#8]										
Human Health - HSL-D - Vapour Intrusion + 4m SAND	NL[#11]	NL[#11]										
Human Health - Direct Contact - HSL-D	NL[#13]	NL[#13]										
Human Health - Intrusive - Vapour Intrusion 0-<2m	NL[#6]	NL[#6]										
Human Health - Intrusive - Vapour Intrusion 2-<4m	NL[#5]	NL[#5]										
Human Health - Intrusive - Vapour Intrusion + 4m	NL[#7]	NL[#7]										
Human Health - Intrusive - Direct Contact	82000[#12]	62000[#12]								85000[#12]	120000[#12]	
Human Health - Direct Contact - HIL-D												
EIL - Commercial / Industrial (Aged)												
NEPM (2013) ESL - Commercial & Industrial (Fine)										2500[#15]	6600[#15]	
NEPM (2013) ESL - Commercial & Industrial (Coarse)										1700[#15]	3300[#15]	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)	215[#15]								170[#15]			

Location Code	Field ID	Matrix Type	Sampled Date												
LP_MW01	LP_MW01_1.0	SOIL	06-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW01	LP_MW01_3.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW02	LP_MW02_0.1	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW02	LP_MW02_2.9	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW03	LP_MW03_0.1	SOIL	08-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW03	LP_MW03_1.4	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW04	LP_MW04_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW04	LP_MW04_0.5	SOIL	08-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW04	LP_MW04_3.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW05	LP_MW05_0.5	SOIL	07-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW05	LP_MW05_3.0	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW06	LP_MW06_1.0	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_MW06	LP_MW06_3.0	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB01	LP_SB01_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB01	LP_SB01_0.5	SOIL	06-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB01	LP_SB01_2.7	SOIL	15-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB02	LP_SB02_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB02	LP_SB02_0.5	SOIL	06-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB02	LP_SB02_3.0	SOIL	15-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB03	LP_SB03_0.1	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB03	LP_SB03_0.5	SOIL	06-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB03	LP_SB03_3.0	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB04	LP_SB04_0.5	SOIL	07-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB04	LP_SB04_3.0	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB05	LP_SB05_0.1	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB06	LP_SB06_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB06	LP_SB06_0.5	SOIL	08-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB06	LP_SB06_1.5	SOIL	08-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB06	LP_SB06_1.9	SOIL	15-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB07	LP_SB07_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB07	LP_SB07_0.5	SOIL	08-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB07	LP_SB07_2.9	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB08	LP_SB08_0.1	SOIL	08-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB08	LP_SB08_0.5	SOIL	08-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB09	LP_SB09_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB09	LP_SB09_0.5	SOIL	08-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB09	LP_SB09_3.0	SOIL	20-Nov-13	<10	60	<10	<50	640	380	1020 - 1045	1120	60	880	180	<10
LP_SB10	LP_SB10_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB10	LP_SB10_2.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB10	LP_SB10_3.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB11	LP_SB11_0.1	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB11	LP_SB11_1.2	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB11	LP_SB11_3.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB12	LP_SB12_0.1	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB12	LP_SB12_0.8	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB12	LP_SB12_3.0	SOIL	20-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB13	LP_SB13_0.5	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB13	LP_SB13_3.0	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB14	LP_SB14_0.5	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
LP_SB14	LP_SB14_2.8	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10

Statistical Summary

Number of Results	42	42	42	42	42	42	42	42	42	42	42	42
Number of Detects	0	1	0	0	1	1	1	1	1	1	1	0
Minimum Concentration	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10
Minimum Detect	ND	60	ND	ND	640	380	1020	1120	60	880	180	ND
Maximum Concentration	<10	60	<10	<50	640	380	1045	1120	60	880	180	<10
Maximum Detect	ND	60	ND	ND	640	380	1045	1120	60	880	180	ND
Average Concentration	5	26	5	25	64	58	49	51	26	70	53	5
Median Concentration	5	25	5	25	50	50	25	25	25	50	50	5
Standard Deviation	0	5.4	0	0	91	51	155	169	5.4	128	20	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				BTEX							Metals								
				Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND				3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D				430[#13]	NL[#13]	NL[#13]			81000[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m				77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m				160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact				1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D											3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)											160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)				95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)				75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**															
LP_MW01	LP_MW01_1.0	SOIL	06-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	15	<5	9	<0.1	10	12
LP_MW01	LP_MW01_3.0	SOIL	20-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	23	25	16	<0.1	19	66
LP_MW02	LP_MW02_0.1	SOIL	14-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	16	13	13	<0.1	12	120
LP_MW02	LP_MW02_2.9	SOIL	21-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	10	6	11	<0.1	3	14
LP_MW03	LP_MW03_0.1	SOIL	08-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	<1	14	17	14	0.2	15	59
LP_MW03	LP_MW03_1.4	SOIL	21-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	17	<1	17	24	14	<0.1	62	75
LP_MW04	LP_MW04_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW04	LP_MW04_0.5	SOIL	08-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	6	8	9	<0.1	5	33
LP_MW04	LP_MW04_3.0	SOIL	20-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	13	14	16	<0.1	19	57
LP_MW05	LP_MW05_0.5	SOIL	07-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	22	24	15	<0.1	15	39
LP_MW05	LP_MW05_3.0	SOIL	19-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	1	12	9	11	<0.1	26	43
LP_MW06	LP_MW06_1.0	SOIL	02-Dec-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	25	23	18	<0.1	23	61
LP_MW06	LP_MW06_3.0	SOIL	02-Dec-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	19	24	25	<0.1	14	72
LP_SB01	LP_SB01_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB01	LP_SB01_0.5	SOIL	06-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	15	16	14	<0.1	20	51
LP_SB01	LP_SB01_2.7	SOIL	15-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	17	14	14	<0.1	31	62
LP_SB02	LP_SB02_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB02	LP_SB02_0.5	SOIL	06-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	<1	16	27	16	<0.1	18	72
LP_SB02	LP_SB02_3.0	SOIL	15-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	19	34	15	<0.1	25	110
LP_SB03	LP_SB03_0.1	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB03	LP_SB03_0.5	SOIL	06-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	15	<1	25	23	21	<0.1	32	58
LP_SB03	LP_SB03_3.0	SOIL	19-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	24	1	12	25	12	<0.1	16	67
LP_SB04	LP_SB04_0.5	SOIL	07-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	22	27	18	<0.1	14	67
LP_SB04	LP_SB04_3.0	SOIL	19-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	2	11	21	13	0.2	14	57
LP_SB05	LP_SB05_0.1	SOIL	21-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	10	7	10	<0.1	9	44
LP_SB06	LP_SB06_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB06	LP_SB06_0.5	SOIL	08-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	18	11	10	<0.1	3	12
LP_SB06	LP_SB06_1.5	SOIL	08-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	22	<1	14	23	16	<0.1	10	38
LP_SB06	LP_SB06_1.9	SOIL	15-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	6	6	16	<0.1	<2	7
LP_SB07	LP_SB07_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB07	LP_SB07_0.5	SOIL	08-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	22	20	15	<0.1	22	46
LP_SB07	LP_SB07_2.9	SOIL	21-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	3	67	42	6	<0.1	103	46
LP_SB08	LP_SB08_0.1	SOIL	08-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	<1	22	23	15	<0.1	30	76
LP_SB08	LP_SB08_0.5	SOIL	08-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	12	26	19	<0.1	11	57
LP_SB09	LP_SB09_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB09	LP_SB09_0.5	SOIL	08-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	11	13	10	<0.1	17	50
LP_SB09	LP_SB09_3.0	SOIL	20-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	11	<5	8	<0.1	2	33
LP_SB10	LP_SB10_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB10	LP_SB10_2.0	SOIL	20-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	11	13	25	<0.1	15	44
LP_SB10	LP_SB10_3.0	SOIL	20-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	9	7	12	<0.1	11	40
LP_SB11	LP_SB11_0.1	SOIL	14-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	18	13	16	<0.1	13	54
LP_SB11	LP_SB11_1.2	SOIL	20-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	13	5	9	<0.1	4	21
LP_SB11	LP_SB11_3.0	SOIL	20-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	8	<5	8	<0.1	3	21
LP_SB12	LP_SB12_0.1	SOIL	14-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	28	9	19	<0.1	8	31
LP_SB12	LP_SB12_0.8	SOIL	20-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	13	12	14	<0.1	20	55
LP_SB12	LP_SB12_3.0	SOIL	20-Nov-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	19	<1	39	8	18	<0.1	10	21
LP_SB13	LP_SB13_0.5	SOIL	02-Dec-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	36	31	22	<0.1	42	97
LP_SB13	LP_SB13_3.0	SOIL	02-Dec-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	82	3	21	28	163	0.1	17	72
LP_SB14	LP_SB14_0.5	SOIL	02-Dec-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	24	24	16	<0.1	24	73
LP_SB14	LP_SB14_2.8	SOIL	02-Dec-13	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	14	14	27	<0.1	7	31
Statistical Summary																		
Number of Results				42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
Number of Detects				0	0	0	0	0	0	0	37	5	42	39	42	3	41	42
Minimum Concentration				<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	6	<5	6	<0.1	<2	7
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	6	1	6	5	6	0.1	2	7
Maximum Concentration				<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	82	3	67	42	163	0.2	103	120
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	82	3	67	42	163	0.2	103	120
Average Concentration				0.1	0.25	0.25	0.25	0.25	0.25	0.1	12	0.68	18	17	18	0.058	18	52
Median Concentration				0.1	0.25	0.25	0.25	0.25	0.25	0.1	10	0.5	15.5	15	15	0.05	15	52.5
Standard Deviation				0	0	0	0	0	0	0	12	0.58	11	9.5	23	0.033	18	25
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapou
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapou
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour In
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour I
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

														PAH/Phenols															
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5											
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																													
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																													
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																													
Human Health - HSL-D - Vapour Intrusion + 4m SAND																													
Human Health - Direct Contact - HSL-D																													
Human Health - Intrusive - Vapour Intrusion 0-<2m																													
Human Health - Intrusive - Vapour Intrusion 2-<4m																													
Human Health - Intrusive - Vapour Intrusion + 4m																													
Human Health - Intrusive - Direct Contact																													
Human Health - Direct Contact - HIL-D																													
EIL - Commercial / Industrial (Aged)																													
NEPM (2013) ESL - Commercial & Industrial (Fine)																		1.4[#15]											
NEPM (2013) ESL - Commercial & Industrial (Coarse)																		1.4[#15]											
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																													
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																										
LP_MW01	LP_MW01_1.0	SOIL	06-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW01	LP_MW01_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW02	LP_MW02_0.1	SOIL	14-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW02	LP_MW02_2.9	SOIL	21-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW03	LP_MW03_0.1	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW03	LP_MW03_1.4	SOIL	21-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW04	LP_MW04_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW04	LP_MW04_0.5	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW04	LP_MW04_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW05	LP_MW05_0.5	SOIL	07-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW05	LP_MW05_3.0	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW06	LP_MW06_1.0	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_MW06	LP_MW06_3.0	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB01	LP_SB01_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB01	LP_SB01_0.5	SOIL	06-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB01	LP_SB01_2.7	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB02	LP_SB02_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB02	LP_SB02_0.5	SOIL	06-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB02	LP_SB02_3.0	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB03	LP_SB03_0.1	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB03	LP_SB03_0.5	SOIL	06-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB03	LP_SB03_3.0	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB04	LP_SB04_0.5	SOIL	07-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB04	LP_SB04_3.0	SOIL	19-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB05	LP_SB05_0.1	SOIL	21-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	1.6	1.5	2.2	2.4	2.6	2.8	1.2	0.8	1.8	<0.5	3.6	<0.5	1
LP_SB06	LP_SB06_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB06	LP_SB06_0.5	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB06	LP_SB06_1.5	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB06	LP_SB06_1.9	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB07	LP_SB07_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB07	LP_SB07_0.5	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB07	LP_SB07_2.9	SOIL	21-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB08	LP_SB08_0.1	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB08	LP_SB08_0.5	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB09	LP_SB09_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB09	LP_SB09_0.5	SOIL	08-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB09	LP_SB09_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB10	LP_SB10_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB10	LP_SB10_2.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB10	LP_SB10_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB11	LP_SB11_0.1	SOIL	14-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB11	LP_SB11_1.2	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB11	LP_SB11_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB12	LP_SB12_0.1	SOIL	14-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB12	LP_SB12_0.8	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB12	LP_SB12_3.0	SOIL	20-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB13	LP_SB13_0.5	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB13	LP_SB13_3.0	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB14	LP_SB14_0.5	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
LP_SB14	LP_SB14_2.8	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																													
Number of Results				42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	42	42	1	1	1	1	0	1	0	1
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	1.5	2.2	0.6	1.2	2.8	1.2	0.8	1.8	ND	3.6	ND	1
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	1.6	1.5	2.2	2.4	2.6	2.8	1.2	0.8	1.8	<0.5	3.6	<0.5	1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	1.5	2.2	2.4	2.6	2.8	1.2	0.8	1.8	ND	3.6	ND	1
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.28	0.28	0.3	0.64	1.2	0.31	0.27	0.26	0.29	0.25	0.33	0.25	0.27
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0.21	0.19	0.3	0.28	0.22	0.39	0.15	0.085	0.24	0	0.52	0	0.12
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapou
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapou
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour In
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour I
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

								Polychlorinated Biphenyls	Inorganics										
				Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	PCBs (Sum of total)	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%
EQL				0.5	0.5	2	0.5	0.5	0.5	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				NL[#10]															
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				NL[#9]															
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				NL[#8]															
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]															
Human Health - Direct Contact - HSL-D				11000[#13]															
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]															
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]															
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]															
Human Health - Intrusive - Direct Contact				29000[#12]															
Human Health - Direct Contact - HIL-D					4000[#14]	660[#14]		240000[#14]		7[#14]									
EIL - Commercial / Industrial (Aged)				370[#2]															
NEPM (2013) ESL - Commercial & Industrial (Fine)																			
NEPM (2013) ESL - Commercial & Industrial (Coarse)																			
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																
LP_MW01	LP_MW01_1.0	SOIL	06-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	27.5	-	-	-	-	-	-	-
LP_MW01	LP_MW01_3.0	SOIL	20-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	16.7	-	-	-	-	-	-	-
LP_MW02	LP_MW02_0.1	SOIL	14-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	11.4	-	-	-	-	-	-	-
LP_MW02	LP_MW02_2.9	SOIL	21-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	17.9	-	-	-	-	-	-	-
LP_MW03	LP_MW03_0.1	SOIL	08-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	6.4	-	-	-	-	-	-	-
LP_MW03	LP_MW03_1.4	SOIL	21-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	12.9	-	-	-	-	-	-	-
LP_MW04	LP_MW04_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW04	LP_MW04_0.5	SOIL	08-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	8.8	-	-	-	-	-	-	-
LP_MW04	LP_MW04_3.0	SOIL	20-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	15.8	-	-	-	-	-	-	-
LP_MW05	LP_MW05_0.5	SOIL	07-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	16.7	-	-	-	-	-	-	-
LP_MW05	LP_MW05_3.0	SOIL	19-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	10	-	-	-	-	-	-	-
LP_MW06	LP_MW06_1.0	SOIL	02-Dec-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	31.9	22.5	<0.1	18.9	10.8	0.1	2.1	8.6	<0.5
LP_MW06	LP_MW06_3.0	SOIL	02-Dec-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	12.6	-	-	-	-	-	-	-
LP_SB01	LP_SB01_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB01	LP_SB01_0.5	SOIL	06-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	11.4	-	-	-	-	-	-	-
LP_SB01	LP_SB01_2.7	SOIL	15-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	12	-	-	-	-	-	-	-
LP_SB02	LP_SB02_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB02	LP_SB02_0.5	SOIL	06-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.1	-	19.6	-	-	-	-	-	-	-
LP_SB02	LP_SB02_3.0	SOIL	15-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	15.8	-	-	-	-	-	-	-
LP_SB03	LP_SB03_0.1	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB03	LP_SB03_0.5	SOIL	06-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	19.4	-	-	-	-	-	-	-
LP_SB03	LP_SB03_3.0	SOIL	19-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	23.6	-	-	-	-	-	-	-
LP_SB04	LP_SB04_0.5	SOIL	07-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	21.6	-	-	-	-	-	-	-
LP_SB04	LP_SB04_3.0	SOIL	19-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	16.7	-	-	-	-	-	-	-
LP_SB05	LP_SB05_0.1	SOIL	21-Nov-13	<0.5	18.7	<2	1.2	<0.5	3.2	-	-	11.4	-	-	-	-	-	-	-
LP_SB06	LP_SB06_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB06	LP_SB06_0.5	SOIL	08-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	22.3	-	-	-	-	-	-	-
LP_SB06	LP_SB06_1.5	SOIL	08-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	23.7	-	-	-	-	-	-	-
LP_SB06	LP_SB06_1.9	SOIL	15-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	15	-	-	-	-	-	-	-
LP_SB07	LP_SB07_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB07	LP_SB07_0.5	SOIL	08-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	19.4	-	-	-	-	-	-	-
LP_SB07	LP_SB07_2.9	SOIL	21-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	16	-	-	-	-	-	-	-
LP_SB08	LP_SB08_0.1	SOIL	08-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	23.1	-	-	-	-	-	-	-
LP_SB08	LP_SB08_0.5	SOIL	08-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	24.8	-	-	-	-	-	-	-
LP_SB09	LP_SB09_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB09	LP_SB09_0.5	SOIL	08-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	13.3	-	-	-	-	-	-	-
LP_SB09	LP_SB09_3.0	SOIL	20-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	15.8	-	-	-	-	-	-	-
LP_SB10	LP_SB10_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB10	LP_SB10_2.0	SOIL	20-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	15.9	-	-	-	-	-	-	-
LP_SB10	LP_SB10_3.0	SOIL	20-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	12.7	-	-	-	-	-	-	-
LP_SB11	LP_SB11_0.1	SOIL	14-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	26.2	-	-	-	-	-	-	-
LP_SB11	LP_SB11_1.2	SOIL	20-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	17.1	-	-	-	-	-	-	-
LP_SB11	LP_SB11_3.0	SOIL	20-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	13.8	-	-	-	-	-	-	-
LP_SB12	LP_SB12_0.1	SOIL	14-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	17.6	-	-	-	-	-	-	-
LP_SB12	LP_SB12_0.8	SOIL	20-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	10.8	-	-	-	-	-	-	-
LP_SB12	LP_SB12_3.0	SOIL	20-Nov-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	17.6	-	-	-	-	-	-	-
LP_SB13	LP_SB13_0.5	SOIL	02-Dec-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	22.1	-	-	-	-	-	-	-
LP_SB13	LP_SB13_3.0	SOIL	02-Dec-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	19.3	-	-	-	-	-	-	-
LP_SB14	LP_SB14_0.5	SOIL	02-Dec-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	21.3	-	-	-	-	-	-	-
LP_SB14	LP_SB14_2.8	SOIL	02-Dec-13	<0.5	<0.5	<2	<0.5	<0.5	<0.5	-	-	12.4	-	-	-	-	-	-	-
Statistical Summary																			
Number of Results				42	42	42	42	42	42	1	1	42	1	1	1	1	1	1	1
Number of Detects				0	1	0	1	0	1	0	1	42	0	1	1	1	1	1	0
Minimum Concentration				<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.1	31.9	6.4	<0.1	18.9	10.8	0.1	2.1	8.6	<0.5
Minimum Detect				ND	18.7	ND	1.2	ND	3.2	ND	31.9	6.4	ND	18.9	10.8	0.1	2.1	8.6	ND
Maximum Concentration				<0.5	18.7	<2	1.2	<0.5	3.2	<0.1	31.9	27.5	<0.1	18.9	10.8	0.1	2.1	8.6	<0.5
Maximum Detect				ND	18.7	ND	1.2	ND	3.2	ND	31.9	27.5	ND	18.9	10.8	0.1	2.1	8.6	ND
Average Concentration				0.25	0.69	1	0.27	0.25	0.32			17							
Median Concentration				0.25	0.25	1	0.25	0.25	0.25	0.05	31.9	16.7	0.05	18.9	10.8	0.1	2.1	8.6	0.25
Standard Deviation				0	2.8	0	0.15	0	0.46			5							
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

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#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	Particle Size																	
	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																	
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																	
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																	
Human Health - HSL-D - Vapour Intrusion + 4m SAND																	
Human Health - Direct Contact - HSL-D																	
Human Health - Intrusive - Vapour Intrusion 0-<2m																	
Human Health - Intrusive - Vapour Intrusion 2-<4m																	
Human Health - Intrusive - Vapour Intrusion + 4m																	
Human Health - Intrusive - Direct Contact																	
Human Health - Direct Contact - HIL-D																	
EIL - Commercial / Industrial (Aged)																	
NEPM (2013) ESL - Commercial & Industrial (Fine)																	
NEPM (2013) ESL - Commercial & Industrial (Coarse)																	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**															
LP_MW01	LP_MW01_1.0	SOIL	06-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW01	LP_MW01_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW02	LP_MW02_0.1	SOIL	14-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW02	LP_MW02_2.9	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW03	LP_MW03_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW03	LP_MW03_1.4	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW04	LP_MW04_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW04	LP_MW04_0.5	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW04	LP_MW04_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW05	LP_MW05_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW05	LP_MW05_3.0	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_MW06	LP_MW06_1.0	SOIL	02-Dec-13	4	6	<1	3	6	<1	1	6	5	<1	11	<1	89	9	3	<1	<0.5
LP_MW06	LP_MW06_3.0	SOIL	02-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB01	LP_SB01_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB01	LP_SB01_0.5	SOIL	06-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB01	LP_SB01_2.7	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB02	LP_SB02_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB02	LP_SB02_0.5	SOIL	06-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB02	LP_SB02_3.0	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB03	LP_SB03_0.1	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB03	LP_SB03_0.5	SOIL	06-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB03	LP_SB03_3.0	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB04	LP_SB04_0.5	SOIL	07-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB04	LP_SB04_3.0	SOIL	19-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB05	LP_SB05_0.1	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB06	LP_SB06_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB06	LP_SB06_0.5	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB06	LP_SB06_1.5	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB06	LP_SB06_1.9	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB07	LP_SB07_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB07	LP_SB07_0.5	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB07	LP_SB07_2.9	SOIL	21-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB08	LP_SB08_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB08	LP_SB08_0.5	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB09	LP_SB09_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB09	LP_SB09_0.5	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB09	LP_SB09_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB10	LP_SB10_0.1	SOIL	08-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB10	LP_SB10_2.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB10	LP_SB10_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB11	LP_SB11_0.1	SOIL	14-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB11	LP_SB11_1.2	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB11	LP_SB11_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB12	LP_SB12_0.1	SOIL	14-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB12	LP_SB12_0.8	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB12	LP_SB12_3.0	SOIL	20-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB13	LP_SB13_0.5	SOIL	02-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB13	LP_SB13_3.0	SOIL	02-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB14	LP_SB14_0.5	SOIL	02-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LP_SB14	LP_SB14_2.8	SOIL	02-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																		
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				1	1	0	1	1	0	1	1	1	0	1	0	1	1	1	0	0
Minimum Concentration				4	6	<1	3	6	<1	1	6	5	<1	11	<1	89	9	3	<1	<0.5
Minimum Detect				4	6	ND	3	6	ND	1	6	5	ND	11	ND	89	9	3	ND	ND
Maximum Concentration				4	6	<1	3	6	<1	1	6	5	<1	11	<1	89	9	3	<1	<0.5
Maximum Detect				4	6	ND	3	6	ND	1	6	5	ND	11	ND	89	9	3	ND	ND
Average Concentration																				
Median Concentration				4	6	0.5	3	6	0.5	1	6	5	0.5	11	0.5	89	9	3	0.5	0.25
Standard Deviation																				
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapou
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapou
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Ir
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour I
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				TRH										BTEX							Metals							
				C6-C10 less BTEX (F1)	>C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D																							3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																							160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LQ_MW03	LQ_MW03_0.5	SOIL	02-Dec-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	11	7	12	<0.1	12	44
LQ_MW05	LQ_MW05_0.1	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	1	15	12	16	<0.1	21	70
LQ_MW05	LQ_MW05-0.7	SOIL	28-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	12	13	16	<0.1	20	66
LQ_MW06	LQ_MW06_0.1	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	1	11	13	6	<0.1	24	74
LQ_MW07	LQ_MW07_0.5	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	13	1	10	13	12	<0.1	28	78
LQ_SB01	LQ_SB01_0.1	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	1	15	13	8	<0.1	21	45
LQ_SB01	LQ_SB01_1.0	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	8	8	11	<0.1	11	75
LQ_SB01	LQ_SB01_1.6	SOIL	26-Nov-13	<10	-	<10	<50	260	<100	260 - 335	290	110	180	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	5	<5	8	<0.1	<2	47
LQ_SB02	LQ_SB02_0.1	SOIL	30-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	8	11	15	<0.1	18	63
LQ_SB02	LQ_SB02_1.3	SOIL	30-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	4	7	9	<0.1	13	36
LQ_SB03	LQ_SB03_0.1	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	5	1	16	13	<5	<0.1	21	103
LQ_SB03	LQ_SB03_1.0	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	62	<1	8	15	14	<0.1	21	74
LQ_SB04	LQ_SB04_0.1	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	1	10	17	11	<0.1	19	41
LQ_SB04	LQ_SB04_0.7	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	12	12	12	<0.1	17	84
LQ_SB05	LQ_SB05_0.1	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	5	1	12	12	<5	<0.1	20	68
LQ_SB05	LQ_SB05_1.0	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	10	11	14	<0.1	17	76
LQ_SB06	LQ_SB06_0.1	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	1	10	14	14	<0.1	18	89
LQ_SB06	LQ_SB06_1.0	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	14	14	14	<0.1	22	88
LQ_SB07	LQ_SB07_0.1	SOIL	21-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	17	17	<5	<0.1	31	78
LQ_SB07	LQ_SB07_1.0	SOIL	26-Nov-13	<10	-	<10	90	9630	350	10,070 - 10,100	10,000	620	9420	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	6	9	13	<0.1	11	66
LQ_SB08	LQ_SB08_0.1	SOIL	19-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	1	13	16	8	<0.1	21	81
LQ_SB08	LQ_SB08_0.7	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	11	7	11	<0.1	14	81
LQ_SB11	LQ_SB11_1.0	SOIL	02-Dec-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	81	83	<5	<0.1	288	99
Statistical Summary																														
Number of Results				23	12	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Number of Detects				0	0	0	1	2	1	2	2	2	2	0	0	0	0	0	0	0	0	0	19	9	23	22	19	0	22	23
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	4	<5	<5	<0.1	<2	36
Minimum Detect				ND	ND	ND	90	260	350	260	290	110	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	1	4	7	6	ND	11	36
Maximum Concentration				<10	<50	<10	90	9630	350	10100	10000	620	9420	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	62	1	81	83	16	<0.1	288	103
Maximum Detect				ND	ND	ND	90	9630	350	10100	10000	620	9420	ND	ND	ND	ND	ND	ND	ND	ND	ND	62	1	81	83	16	ND	288	103
Average Concentration				5	25	5	28	476	63	474	470	55	463	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	11	0.7	14	15	10	0.05	30	71
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	8	0.5	11	13	11	0.05	20	74
Standard Deviation				0	0	0	14	1996	63	2096	2078	125	1953	0	0	0	0	0	0	0	0	0	12	0.25	15	15	4.5	0	57	18
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

		Polychlorinated Biphenyls	Inorganics									Particle Size																
		PCBs (Sum of total)	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
		mg/kg	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL		0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																												
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																												
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																												
Human Health - HSL-D - Vapour Intrusion + 4m SAND																												
Human Health - Direct Contact - HSL-D																												
Human Health - Intrusive - Vapour Intrusion 0-<2m																												
Human Health - Intrusive - Vapour Intrusion 2-<4m																												
Human Health - Intrusive - Vapour Intrusion + 4m																												
Human Health - Intrusive - Direct Contact																												
Human Health - Direct Contact - HIL-D		7[#14]																										
EIL - Commercial / Industrial (Aged)																												
NEPM (2013) ESL - Commercial & Industrial (Fine)																												
NEPM (2013) ESL - Commercial & Industrial (Coarse)																												
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																												
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																									
LQ_MW03	LQ_MW03_0.5	SOIL	02-Dec-13	<0.1	-	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_MW05	LQ_MW05_0.1	SOIL	19-Nov-13	<0.1	-	19.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_MW05	LQ_MW05-0.7	SOIL	28-Nov-13	<0.1	-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_MW06	LQ_MW06_0.1	SOIL	19-Nov-13	<0.1	-	13.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_MW07	LQ_MW07_0.5	SOIL	19-Nov-13	<0.1	22.3	17.9	<0.1	21.1	1	0.2	<0.1	7.7	<0.5	28	49	<1	24	41	<1	16	37	34	<1	58	6	42	34	24	<1	0.5
LQ_SB01	LQ_SB01_0.1	SOIL	19-Nov-13	<0.1	-	20.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB01	LQ_SB01_1.0	SOIL	26-Nov-13	<0.1	-	13.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB01	LQ_SB01_1.6	SOIL	26-Nov-13	<0.1	-	18.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB02	LQ_SB02_0.1	SOIL	30-Nov-13	<0.1	-	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB02	LQ_SB02_1.3	SOIL	30-Nov-13	<0.1	-	17.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB03	LQ_SB03_0.1	SOIL	19-Nov-13	<0.1	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB03	LQ_SB03_1.0	SOIL	26-Nov-13	<0.1	-	11.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB04	LQ_SB04_0.1	SOIL	19-Nov-13	<0.1	-	13.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB04	LQ_SB04_0.7	SOIL	26-Nov-13	<0.1	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB05	LQ_SB05_0.1	SOIL	19-Nov-13	<0.1	-	18.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB05	LQ_SB05_1.0	SOIL	26-Nov-13	<0.1	-	11.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB06	LQ_SB06_0.1	SOIL	19-Nov-13	<0.1	-	20.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB06	LQ_SB06_1.0	SOIL	26-Nov-13	<0.1	-	9.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB07	LQ_SB07_0.1	SOIL	21-Nov-13	<0.1	-	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB07	LQ_SB07_1.0	SOIL	26-Nov-13	<0.1	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB08	LQ_SB08_0.1	SOIL	19-Nov-13	<0.1	-	23.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB08	LQ_SB08_0.7	SOIL	26-Nov-13	<0.1	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LQ_SB11	LQ_SB11_1.0	SOIL	02-Dec-13	<0.1	-	16.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																												
Number of Results		23	1	23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects		0	1	23	0	1	1	1	0	1	0	1	1	0	1	1	0	1	1	1	0	1	1	1	1	1	0	1
Minimum Concentration		<0.1	22.3	7.7	<0.1	21.1	1	0.2	<0.1	7.7	<0.5	28	49	<1	24	41	<1	16	37	34	<1	58	6	42	34	24	<1	0.5
Minimum Detect		ND	22.3	7.7	ND	21.1	1	0.2	ND	7.7	ND	28	49	ND	24	41	ND	16	37	34	ND	58	6	42	34	24	ND	0.5
Maximum Concentration		<0.1	22.3	24	<0.1	21.1	1	0.2	<0.1	7.7	<0.5	28	49	<1	24	41	<1	16	37	34	<1	58	6	42	34	24	<1	0.5
Maximum Detect		ND	22.3	24	ND	21.1	1	0.2	ND	7.7	ND	28	49	ND	24	41	ND	16	37	34	ND	58	6	42	34	24	ND	0.5
Average Concentration		0.05		15																								
Median Concentration		0.05	22.3	15.2	0.05	21.1	1	0.2	0.05	7.7	0.25	28	49	0.5	24	41	0.5	16	37	34	0.5	58	6	42	34	24	0.5	0.5
Standard Deviation		0		4.9																								
Number of Guideline Exceedances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapo
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapo
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour I
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapo
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapo
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vap
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industria
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				TRH											BTEX							Metals								
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D																							3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																							160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LR_MW01	LR_MW01_0.1	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	120	<50	120	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	6	<1	13	14	24	<0.1	8	144
LR_MW03	LR_MW03_0.1	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	17	7	15	<0.1	12	70
LR_MW03	LR_MW03_0.2	SOIL	27-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	18	6	10	<0.1	11	21
LR_MW04	LR_MW04_0.5	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	28	<1	15	<5	15	<0.1	2	18
Statistical Summary																														
Number of Results				4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects				0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	3	0	4	3	4	0	4	4
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	13	<5	10	<0.1	2	18
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	120	ND	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	ND	13	6	10	ND	2	18
Maximum Concentration				<10	<50	<10	<50	<100	<100	<50	120	<50	120	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	28	<1	18	14	24	<0.1	12	144
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	120	ND	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	28	ND	18	14	24	ND	12	144
Average Concentration				5	25	5	25	50	50	25	49	25	68	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	12	0.5	16	7.4	16	0.05	8.3	63
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	8	0.5	16	6.5	15	0.05	9.5	45.5
Standard Deviation				0	0	0	0	0	0	0	48	0	35	0	0	0	0	0	0	0	0	0	11	0	2.2	4.8	5.8	0	4.5	59
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				PAH/Phenols																																			
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																														NL [#10]						
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																														NL [#9]						
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																														NL [#8]						
Human Health - HSL-D - Vapour Intrusion + 4m SAND																														NL [#11]						
Human Health - Direct Contact - HSL-D																														11000 [#13]						
Human Health - Intrusive - Vapour Intrusion 0-<2m																														NL [#6]						
Human Health - Intrusive - Vapour Intrusion 2-<4m																														NL [#5]						
Human Health - Intrusive - Vapour Intrusion + 4m																														NL [#7]						
Human Health - Intrusive - Direct Contact																														29000 [#12]						
Human Health - Direct Contact - HIL-D																															4000 [#14]	660 [#14]		240000 [#14]		
EIL - Commercial / Industrial (Aged)																														370 [#2]						
NEPM (2013) ESL - Commercial & Industrial (Fine)																		1.4 [#15]																		
NEPM (2013) ESL - Commercial & Industrial (Coarse)																		1.4 [#15]																		
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																				
LR_MW01	LR_MW01_0.1	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LR_MW03	LR_MW03_0.1	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LR_MW03	LR_MW03_0.2	SOIL	27-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LR_MW04	LR_MW04_0.5	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Statistical Summary																																				
Number of Results				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pr
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Int
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour I
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				MAH									Chlorinated Hydrocarbons																																	
				1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride
				mg/kg	EQL										0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																											
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																											
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																											
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																											
Human Health - Direct Contact - HSL-D																																											
Human Health - Intrusive - Vapour Intrusion 0-<2m																																											
Human Health - Intrusive - Vapour Intrusion 2-<4m																																											
Human Health - Intrusive - Vapour Intrusion + 4m																																											
Human Health - Intrusive - Direct Contact																																											
Human Health - Direct Contact - HIL-D																																											
EIL - Commercial / Industrial (Aged)																																											
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NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																											
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																								
LR_MW01	LR_MW01_0.1	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
LR_MW03	LR_MW03_0.1	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
LR_MW03	LR_MW03_0.2	SOIL	27-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
LR_MW04	LR_MW04_0.5	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Statistical Summary																																											
Number of Results				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	0.25	2.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pr
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapou
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapou
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Int
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour I
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Halogenated Benzenes									Halogenated Hydrocarbons					Polychlorinated Biphenyls	Solvents					VOCs			Inorganics								
				1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	PCBs (Sum of total)	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	5	0.5	5	0.1	5	5	5	0.5	5	0.5	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																		
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																		
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																		
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																		
Human Health - Direct Contact - HSL-D																																		
Human Health - Intrusive - Vapour Intrusion 0-<2m																																		
Human Health - Intrusive - Vapour Intrusion 2-<4m																																		
Human Health - Intrusive - Vapour Intrusion + 4m																																		
Human Health - Intrusive - Direct Contact																																		
Human Health - Direct Contact - HIL-D																		7[#14]																
EIL - Commercial / Industrial (Aged)																																		
NEPM (2013) ESL - Commercial & Industrial (Fine)																																		
NEPM (2013) ESL - Commercial & Industrial (Coarse)																																		
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																		
LR_MW01	LR_MW01_0.1	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	23.9	-	-	-	-	-	-	-
LR_MW03	LR_MW03_0.1	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	24.6	-	-	-	-	-	-	-
LR_MW03	LR_MW03_0.2	SOIL	27-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	17.2	-	-	-	-	-	6.7	-
LR_MW04	LR_MW04_0.5	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	9.8	21.2	<0.1	2.1	6.6	0.2	0.9	7.3	<0.5
Statistical Summary																																		
Number of Results				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	4	1	1	1	1	1	2	1
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	1	1	1	1	2	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	9.8	17.2	<0.1	2.1	6.6	0.2	0.9	6.7	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8	17.2	ND	2.1	6.6	0.2	0.9	6.7	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5	<0.1	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	9.8	24.6	<0.1	2.1	6.6	0.2	0.9	7.3	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.8	24.6	ND	2.1	6.6	0.2	0.9	7.3	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	2.5	0.25	2.5	0.05	2.5	2.5	2.5	0.25	2.5	0.25	0.25	0.25		22							
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	2.5	0.25	2.5	0.05	2.5	2.5	2.5	0.25	2.5	0.25	0.25	0.25	9.8	22.55	0.05	2.1	6.6	0.2	0.9	7	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		3.4							
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pr
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Int
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapou
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Particle Size																
				+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
				%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																				
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																				
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																				
Human Health - HSL-D - Vapour Intrusion + 4m SAND																				
Human Health - Direct Contact - HSL-D																				
Human Health - Intrusive - Vapour Intrusion 0-<2m																				
Human Health - Intrusive - Vapour Intrusion 2-<4m																				
Human Health - Intrusive - Vapour Intrusion + 4m																				
Human Health - Intrusive - Direct Contact																				
Human Health - Direct Contact - HIL-D																				
EIL - Commercial / Industrial (Aged)																				
NEPM (2013) ESL - Commercial & Industrial (Fine)																				
NEPM (2013) ESL - Commercial & Industrial (Coarse)																				
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																	
LR_MW01	LR_MW01_0.1	SOIL	11-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LR_MW03	LR_MW03_0.1	SOIL	11-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LR_MW03	LR_MW03_0.2	SOIL	27-Nov-13	9	28	5	7	19	<1	6	14	12	<1	41	5	59	34	7	<1	-
LR_MW04	LR_MW04_0.5	SOIL	11-Nov-13	10	19	<1	7	15	<1	4	13	12	<1	32	<1	68	25	7	<1	<0.5
Statistical Summary																				
Number of Results				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
Number of Detects				2	2	1	2	2	0	2	2	2	0	2	1	2	2	2	0	0
Minimum Concentration				9	19	<1	7	15	<1	4	13	12	<1	32	<1	59	25	7	<1	<0.5
Minimum Detect				9	19	5	7	15	ND	4	13	12	ND	32	5	59	25	7	ND	ND
Maximum Concentration				10	28	5	7	19	<1	6	14	12	<1	41	5	68	34	7	<1	<0.5
Maximum Detect				10	28	5	7	19	ND	6	14	12	ND	41	5	68	34	7	ND	ND
Average Concentration																				
Median Concentration				9.5	23.5	2.75	7	17	0.5	5	13.5	12	0.5	36.5	2.75	63.5	29.5	7	0.5	0.25
Standard Deviation																				
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pr
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Int
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour I
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	TRH												BTEX							Metals							
	C6-C10 less BTEX (F1)	>C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND	260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND	370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND	630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]										
Human Health - HSL-D - Vapour Intrusion + 4m SAND	NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]										
Human Health - Direct Contact - HSL-D	NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]										
Human Health - Intrusive - Vapour Intrusion 0-<2m	NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]										
Human Health - Intrusive - Vapour Intrusion 2-<4m	NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]										
Human Health - Intrusive - Vapour Intrusion + 4m	NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]										
Human Health - Intrusive - Direct Contact	82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]										
Human Health - Direct Contact - HIL-D																				3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																				160[#4]		550[#1]		1800[#3]		410[#1]	
EIL - AEC LS - Commercial / Industrial (Aged)																							120 [#16]				650 [#16]
NEPM (2013) ESL - Commercial & Industrial (Fine)										2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)										1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)	215[#15]								170[#15]																		

Location Code	Field ID	Matrix Type	Sampled Date																									
LS_MW01	LS_MW01_0.5	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	31	24	13	<0.1	39	61
LS_MW01	LS_MW01_3.0	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	14	19	8	<0.1	5	28
LS_MW02	LS_MW02_0.5	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	37	17	21	<0.1	38	103
LS_MW02	LS_MW02_2.0	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_MW02	LS_MW02_3.0	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	27	41	35	<0.1	16	75
LS_SB01	LS_SB01_0.1	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	17	<1	24	23	26	0.8	10	40
LS_SB01	LS_SB01_2.9-3.0	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	21	15	17	<0.1	10	82
LS_SB02	LS_SB02_0.1	SOIL	11-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	15	16	15	<0.1	7	45
LS_SB03	LS_SB03_0.1	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	8	<1	14	18	14	<0.1	17	66
LS_SB03	LS_SB03_2.7-2.8	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	25	<1	21	12	20	<0.1	2	64
LS_SB04	LS_SB04_0.1	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	19	18	18	<0.1	13	62
LS_SB04	LS_SB04_2.7-3.3	SOIL	26-Nov-13	<10	-	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	2	153	326	136	<0.1	69	1420

Statistical Summary

Number of Results	11	8	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1	11	11	11	1	11	11
Minimum Concentration	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	14	12	8	<0.1	2	28
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	2	14	12	8	0.8	2	28
Maximum Concentration	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	25	2	153	326	136	0.8	69	1420
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	25	2	153	326	136	0.8	69	1420
Average Concentration	5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	12	0.64	34	48	29	0.12	21	186
Median Concentration	5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	11	0.5	21	18	18	0.05	13	64
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.5	0.45	40	92	36	0.23	20	410
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil
#16 AEC LS EIL for commercial/industrial landuse. Calculated using mean soil properties across the AEC and mean ABC values from the buffer lands.

	PAH/Phenols																														
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																											NL[#10]					
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																											NL[#9]					
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																											NL[#8]					
Human Health - HSL-D - Vapour Intrusion + 4m SAND																											NL[#11]					
Human Health - Direct Contact - HSL-D																											11000[#13]					
Human Health - Intrusive - Vapour Intrusion 0-<2m																											NL[#6]					
Human Health - Intrusive - Vapour Intrusion 2-<4m																											NL[#5]					
Human Health - Intrusive - Vapour Intrusion + 4m																											NL[#7]					
Human Health - Intrusive - Direct Contact																											29000[#12]					
Human Health - Direct Contact - HIL-D																												4000[#14]	660[#14]		240000[#14]	
EIL - Commercial / Industrial (Aged)																											370[#2]					
EIL - AEC LS - Commercial / Industrial (Aged)																																
NEPM (2013) ESL - Commercial & Industrial (Fine)															1.4[#15]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse)															1.4[#15]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																

Location Code	Field ID	Matrix Type	Sampled Date																														
LS_MW01	LS_MW01_0.5	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LS_MW01	LS_MW01_3.0	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LS_MW02	LS_MW02_0.5	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LS_MW02	LS_MW02_2.0	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_MW02	LS_MW02_3.0	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LS_SB01	LS_SB01_0.1	SOIL	14-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LS_SB01	LS_SB01_2.9-3.0	SOIL	26-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LS_SB02	LS_SB02_0.1	SOIL	11-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LS_SB03	LS_SB03_0.1	SOIL	14-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LS_SB03	LS_SB03_2.7-2.8	SOIL	26-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LS_SB04	LS_SB04_0.1	SOIL	14-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LS_SB04	LS_SB04_2.7-3.3	SOIL	26-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5

Statistical Summary

Number of Results	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	8	8	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pr
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Int
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Ir
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil
#16 AEC LS EIL for commercial/industrial landuse. Calculated using mean soil pro

	Inorganics										Particle Size																
	CEC	Electrical conductivity *(lab)	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
	meq/100g	uS/cm	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL	0.1	1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																											
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																											
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																											
Human Health - HSL-D - Vapour Intrusion + 4m SAND																											
Human Health - Direct Contact - HSL-D																											
Human Health - Intrusive - Vapour Intrusion 0-<2m																											
Human Health - Intrusive - Vapour Intrusion 2-<4m																											
Human Health - Intrusive - Vapour Intrusion + 4m																											
Human Health - Intrusive - Direct Contact																											
Human Health - Direct Contact - HIL-D																											
EIL - Commercial / Industrial (Aged)																											
EIL - AEC LS - Commercial / Industrial (Aged)																											
NEPM (2013) ESL - Commercial & Industrial (Fine)																											
NEPM (2013) ESL - Commercial & Industrial (Coarse)																											
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																											
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LS_MW01	LS_MW01_0.5	SOIL	02-Dec-13	26.3	-	21.9	<0.1	5.6	17.4	0.3	3	7.2	0.6	<1	2	<1	<1	1	<1	<1	<1	<1	<1	3	<1	97	3	<1	<1	1.1
LS_MW01	LS_MW01_3.0	SOIL	02-Dec-13	-	-	13.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_MW02	LS_MW02_0.5	SOIL	04-Dec-13	-	-	25.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_MW02	LS_MW02_2.0	SOIL	12-Dec-13	13.3	-	-	<0.1	2.5	7.3	0.4	3	4.7	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.9
LS_MW02	LS_MW02_3.0	SOIL	04-Dec-13	-	3330	13.3	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5
LS_SB01	LS_SB01_0.1	SOIL	14-Nov-13	-	-	12.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_SB01	LS_SB01_2.9-3.0	SOIL	26-Nov-13	-	-	20.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_SB02	LS_SB02_0.1	SOIL	11-Nov-13	-	-	14.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_SB03	LS_SB03_0.1	SOIL	14-Nov-13	-	-	14.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_SB03	LS_SB03_2.7-2.8	SOIL	26-Nov-13	-	-	13.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_SB04	LS_SB04_0.1	SOIL	14-Nov-13	-	-	17.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_SB04	LS_SB04_2.7-3.3	SOIL	26-Nov-13	-	-	26.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	2	1	11	2	2	2	2	2	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
Number of Detects	2	1	11	0	2	2	2	2	2	2	0	1	0	0	1	0	0	0	0	0	1	0	1	1	0	0	2
Minimum Concentration	13.3	3330	12.2	<0.1	2.5	7.3	0.3	3	4.7	<0.5	<1	2	<1	<1	1	<1	<1	<1	<1	<1	3	<1	97	3	<1	<1	<0.5
Minimum Detect	13.3	3330	12.2	ND	2.5	7.3	0.3	3	4.7	0.5	ND	2	ND	ND	1	ND	ND	ND	ND	ND	3	ND	97	3	ND	ND	0.9
Maximum Concentration	26.3	3330	26.8	<0.1	5.6	17.4	0.4	3	7.2	0.6	<1	2	<1	<1	1	<1	<1	<1	<1	<1	3	<1	97	3	<1	<1	1.1
Maximum Detect	26.3	3330	26.8	ND	5.6	17.4	0.4	3	7.2	0.6	ND	2	ND	ND	1	ND	ND	ND	ND	ND	3	ND	97	3	ND	ND	1.1
Average Concentration			18							0.45																	0.75
Median Concentration	19.8	3330	14.8	0.05	4.05	12.35	0.35	3	5.95	0.5	0.5	2	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	3	0.5	97	3	0.5	0.5	0.9
Standard Deviation			5.2							0.18																	0.44
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

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#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapou
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#16 AEC LS EIL for commercial/industrial landuse. Calculated using mean soil pro

				TRH											BTEX							Metals								
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 -C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			NL[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D																							3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																							160[#4]		550[#4]	270[#3]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LT_MW01	LT_MW01_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW01	LT_MW01_0.5	SOIL	06-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	24	15	14	<0.1	19	40
LT_MW01	LT_MW01_3.6	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	17	19	11	<0.1	9	42
LT_MW02	LT_MW02_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW02	LT_MW02_0.5	SOIL	06-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	25	26	16	<0.1	28	59
LT_MW02	LT_MW02_2.6	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	17	30	28	0.2	48	107
LT_MW03	LT_MW03_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW03	LT_MW03_0.5	SOIL	06-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	10	7	10	<0.1	8	36
LT_MW03	LT_MW03_3.5	SOIL	15-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	14	14	15	<0.1	38	95
LT_MW04	LT_MW04_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW04	LT_MW04_0.5	SOIL	06-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	12	<1	14	18	13	<0.1	18	60
LT_MW04	LT_MW04_0.5	SOIL	06-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW04	LT_MW04_3.0	SOIL	14-Nov-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	81	31	16	<0.1	55	45
Statistical Summary																														
Number of Results				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8	8	8	1	8	8
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	10	7	10	<0.1	8	36
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	10	7	10	0.2	8	36
Maximum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	81	31	28	0.2	55	107
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	81	31	28	0.2	55	107
Average Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	10	0.5	25	20	15	0.069	28	61
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	10.5	0.5	17	18.5	14.5	0.05	23.5	52
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	23	8.4	5.6	0.053	18	27
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				PAH/Phenols																																			
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																														NL[#10]						
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																														NL[#9]						
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																														NL[#8]						
Human Health - HSL-D - Vapour Intrusion + 4m SAND																														NL[#11]						
Human Health - Direct Contact - HSL-D																														11000[#13]						
Human Health - Intrusive - Vapour Intrusion 0-<2m																														NL[#6]						
Human Health - Intrusive - Vapour Intrusion 2-<4m																														NL[#5]						
Human Health - Intrusive - Vapour Intrusion + 4m																														NL[#7]						
Human Health - Intrusive - Direct Contact																														29000[#12]						
Human Health - Direct Contact - HIL-D																															4000[#14]	660[#14]		240000[#14]		
EIL - Commercial / Industrial (Aged)																														370[#2]						
NEPM (2013) ESL - Commercial & Industrial (Fine)																		1.4[#15]																		
NEPM (2013) ESL - Commercial & Industrial (Coarse)																		1.4[#15]																		
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																				
LT_MW01	LT_MW01_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW01	LT_MW01_0.5	SOIL	06-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LT_MW01	LT_MW01_3.6	SOIL	14-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LT_MW02	LT_MW02_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW02	LT_MW02_0.5	SOIL	06-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LT_MW02	LT_MW02_2.6	SOIL	14-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LT_MW03	LT_MW03_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW03	LT_MW03_0.5	SOIL	06-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LT_MW03	LT_MW03_3.5	SOIL	15-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LT_MW04	LT_MW04_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW04	LT_MW04_0.5	SOIL	06-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LT_MW04	LT_MW04_0.5	SOIL	06-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW04	LT_MW04_3.0	SOIL	14-Nov-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Statistical Summary																																					
Number of Results				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pr
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Int
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

		Polychlorinated Biphenyls	Inorganics									Particle Size															
		PCBs (Sum of total)	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
		mg/kg	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL		0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																											
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																											
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																											
Human Health - HSL-D - Vapour Intrusion + 4m SAND																											
Human Health - Direct Contact - HSL-D																											
Human Health - Intrusive - Vapour Intrusion 0-<2m																											
Human Health - Intrusive - Vapour Intrusion 2-<4m																											
Human Health - Intrusive - Vapour Intrusion + 4m																											
Human Health - Intrusive - Direct Contact																											
Human Health - Direct Contact - HIL-D		7[#14]																									
EIL - Commercial / Industrial (Aged)																											
NEPM (2013) ESL - Commercial & Industrial (Fine)																											
NEPM (2013) ESL - Commercial & Industrial (Coarse)																											
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																											
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LT_MW01	LT_MW01_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW01	LT_MW01_0.5	SOIL	06-Nov-13	<0.1	-	29.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW01	LT_MW01_3.6	SOIL	14-Nov-13	-	-	21.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW02	LT_MW02_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW02	LT_MW02_0.5	SOIL	06-Nov-13	<0.1	-	21.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW02	LT_MW02_2.6	SOIL	14-Nov-13	-	-	11.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW03	LT_MW03_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW03	LT_MW03_0.5	SOIL	06-Nov-13	<0.1	-	13.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW03	LT_MW03_3.5	SOIL	15-Nov-13	-	-	22.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW04	LT_MW04_0.1	SOIL	15-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW04	LT_MW04_0.5	SOIL	06-Nov-13	<0.1	-	20.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LT_MW04	LT_MW04_0.5	SOIL	06-Dec-13	-	9.6	-	<0.1	2.7	5.7	0.2	1	4.8	<0.5	14	22	<1	12	18	<1	10	16	15	<1	28	<1	72	16	12	<1	<0.5
LT_MW04	LT_MW04_3.0	SOIL	14-Nov-13	-	-	25	-	-	-	-	-	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																											
Number of Results		4	1	8	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects		0	1	8	0	1	1	1	1	2	0	1	1	0	1	1	0	1	1	1	0	1	0	1	1	1	0	0
Minimum Concentration		<0.1	9.6	11.4	<0.1	2.7	5.7	0.2	1	4.8	<0.5	14	22	<1	12	18	<1	10	16	15	<1	28	<1	72	16	12	<1	<0.5
Minimum Detect		ND	9.6	11.4	ND	2.7	5.7	0.2	1	4.8	ND	14	22	ND	12	18	ND	10	16	15	ND	28	ND	72	16	12	ND	ND
Maximum Concentration		<0.1	9.6	29.7	<0.1	2.7	5.7	0.2	1	6.5	<0.5	14	22	<1	12	18	<1	10	16	15	<1	28	<1	72	16	12	<1	<0.5
Maximum Detect		ND	9.6	29.7	ND	2.7	5.7	0.2	1	6.5	ND	14	22	ND	12	18	ND	10	16	15	ND	28	ND	72	16	12	ND	ND
Average Concentration		0.05		21																							
Median Concentration		0.05	9.6	21.75	0.05	2.7	5.7	0.2	1	5.65	0.25	14	22	0.5	12	18	0.5	10	16	15	0.5	28	0.5	72	16	12	0.5	0.25
Standard Deviation		0		5.9																							
Number of Guideline Exceedances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil pr
#2 Generic naphthalene ACL for commercial/industrial
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#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Int
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapou
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour In
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

Table 4u. AEC LU Soil Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

	TRH												BTEX							Metals								
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND	260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]										
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND	370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]										
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND	630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]										
Human Health - HSL-D - Vapour Intrusion + 4m SAND	NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]										
Human Health - Direct Contact - HSL-D	NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]										
Human Health - Intrusive - Vapour Intrusion 0-<2m	NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]										
Human Health - Intrusive - Vapour Intrusion 2-<4m	NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]										
Human Health - Intrusive - Vapour Intrusion + 4m	NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]										
Human Health - Intrusive - Direct Contact	82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]										
Human Health - Direct Contact - HIL-D																				3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																				160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)										2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]										
NEPM (2013) ESL - Commercial & Industrial (Coarse)										1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]										
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)	215[#15]								170[#15]																			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																									
LU_MW01	LU_MW01_0.5	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	10	<1	17	7	11	<0.1	12	29
LU_MW01	LU_MW1_3.0/3.3	SOIL	06-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	7	<5	8	<0.1	5	11
LU_MW02	LU_MW02_0.1	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	17	<1	18	19	18	<0.1	29	78
LU_MW02	LU_MW02_0.4	SOIL	05-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	28	<1	14	6	17	<0.1	16	50
LU_MW03	LU_MW03_0.2	SOIL	04-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	20	17	6	<0.1	24	82
LU_SB01	LU_SB01_0.1	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	14	10	12	<0.1	19	51
LU_SB02	LU_SB02_0.1	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	14	12	6	<0.1	22	44
LU_SB02	LU_SB02_0.5	SOIL	10-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	9	6	18	<0.1	10	65
LU_SB04	LU_SB04_0.1	SOIL	02-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	13	11	7	<0.1	35	43
Statistical Summary																												
Number of Results				9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	9	8	9	0	9	9
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	7	<5	6	<0.1	5	11
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	7	6	6	ND	5	11
Maximum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	28	<1	20	19	18	<0.1	35	82
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28	ND	20	19	18	ND	35	82
Average Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	9.5	0.5	14	10	11	0.05	19	50
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	7	0.5	14	10	11	0.05	19	50
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.4	0	4.1	5.4	5.1	0	9.5	23
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

	PAH/Phenols																														
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(a)pyrene TEQ (half LOR)	Benzo(a)pyrene TEQ (LOR)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	0.5	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																											NL[#10]					
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																											NL[#9]					
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																											NL[#8]					
Human Health - HSL-D - Vapour Intrusion + 4m SAND																											NL[#11]					
Human Health - Direct Contact - HSL-D																											11000[#13]					
Human Health - Intrusive - Vapour Intrusion 0-<2m																											NL[#6]					
Human Health - Intrusive - Vapour Intrusion 2-<4m																											NL[#5]					
Human Health - Intrusive - Vapour Intrusion + 4m																											NL[#7]					
Human Health - Intrusive - Direct Contact																											29000[#12]					
Human Health - Direct Contact - HIL-D																												4000[#14]	660[#14]		240000[#14]	
EIL - Commercial / Industrial (Aged)																											370[#2]					
NEPM (2013) ESL - Commercial & Industrial (Fine)															1.4[#15]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse)															1.4[#15]																	
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																

Location Code	Field ID	Matrix Type	Sampled Date																														
LU_MW01	LU_MW01_0.5	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LU_MW01	LU_MW1_3.0/3.3	SOIL	06-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LU_MW02	LU_MW02_0.1	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LU_MW02	LU_MW02_0.4	SOIL	05-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LU_MW03	LU_MW03_0.2	SOIL	04-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LU_SB01	LU_SB01_0.1	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LU_SB02	LU_SB02_0.1	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LU_SB02	LU_SB02_0.5	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
LU_SB04	LU_SB04_0.1	SOIL	02-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5

Statistical Summary

Number of Results	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Median Concentration	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.6	1.2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1	0.25	0.25	0.25
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vap
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vap
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vap
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vap
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Va
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapou
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industr
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

		Inorganics									Particle Size																		
	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	+1180µm	+150µm	+19.0mm	+2.36mm	+300µm	+37.5mm	+4.75mm	+425µm	+600µm	+75.0mm	+75µm	+9.5mm	Fines (<75 µm)	Sand (>75 µm)	Gravel (>2mm)	Cobbles (>6cm)	Organic Matter
	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
EQL	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																											
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																											
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																											
Human Health - HSL-D - Vapour Intrusion + 4m SAND																											
Human Health - Direct Contact - HSL-D																											
Human Health - Intrusive - Vapour Intrusion 0-<2m																											
Human Health - Intrusive - Vapour Intrusion 2-<4m																											
Human Health - Intrusive - Vapour Intrusion + 4m																											
Human Health - Intrusive - Direct Contact																											
Human Health - Direct Contact - HIL-D																											
EIL - Commercial / Industrial (Aged)																											
NEPM (2013) ESL - Commercial & Industrial (Fine)																											
NEPM (2013) ESL - Commercial & Industrial (Coarse)																											
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																											
Location Code **Field ID** **Matrix Type** **Sampled Date**																											
LU_MW01 LU_MW01_0.5 SOIL 05-Dec-13	-	18.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LU_MW01 LU_MW1_3.0/3.3 SOIL 06-Dec-13	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LU_MW02 LU_MW02_0.1 SOIL 02-Dec-13	-	17.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LU_MW02 LU_MW02_0.4 SOIL 05-Dec-13	-	17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LU_MW03 LU_MW03_0.2 SOIL 04-Dec-13	-	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LU_SB01 LU_SB01_0.1 SOIL 02-Dec-13	-	13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LU_SB02 LU_SB02_0.1 SOIL 02-Dec-13	16.5	9.5	<0.1	13	3	0.4	0.2	8.6	<0.5	42	85	12	26	79	<1	16	72	61	<1	88	12	12	62	27	<1	<0.5
LU_SB02 LU_SB02_0.5 SOIL 10-Dec-13	-	9.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LU_SB04 LU_SB04_0.1 SOIL 02-Dec-13	-	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																											
Number of Results	1	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects	1	9	0	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	0	0
Minimum Concentration	16.5	9.2	<0.1	13	3	0.4	0.2	8.6	<0.5	42	85	12	26	79	<1	16	72	61	<1	88	12	12	62	27	<1	<0.5
Minimum Detect	16.5	9.2	ND	13	3	0.4	0.2	8.6	ND	42	85	12	26	79	ND	16	72	61	ND	88	12	12	62	27	ND	ND
Maximum Concentration	16.5	18.5	<0.1	13	3	0.4	0.2	8.6	<0.5	42	85	12	26	79	<1	16	72	61	<1	88	12	12	62	27	<1	<0.5
Maximum Detect	16.5	18.5	ND	13	3	0.4	0.2	8.6	ND	42	85	12	26	79	ND	16	72	61	ND	88	12	12	62	27	ND	ND
Average Concentration		14																								
Median Concentration	16.5	15.6	0.05	13	3	0.4	0.2	8.6	0.25	42	85	12	26	79	0.5	16	72	61	0.5	88	12	12	62	27	0.5	0.25
Standard Deviation		3.5																								
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vap
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vap
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vap
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vap
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Va
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapou
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industr
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

Table 4v. AEC LV Soil Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

				TRH											BTEX							Metals							
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				10	50	10	50	100	100	50	50	50	100	100	10	0.2	0.5	0.5	0.5	0.5	0.5	0.2	5	1	2	5	5	0.1	2	5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND				260[#10]	NL[#10]											3[#10]	NL[#10]	NL[#10]			230[#10]									
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND				370[#9]	NL[#9]											3[#9]	NL[#9]	NL[#9]			NL[#9]									
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND				630[#8]	NL[#8]											3[#8]	NL[#8]	NL[#8]			NL[#8]									
Human Health - HSL-D - Vapour Intrusion + 4m SAND				NL[#11]	NL[#11]											3[#11]	NL[#11]	NL[#11]			NL[#11]									
Human Health - Direct Contact - HSL-D				NL[#13]	NL[#13]											430[#13]	NL[#13]	NL[#13]			81000[#13]									
Human Health - Intrusive - Vapour Intrusion 0-<2m				NL[#6]	NL[#6]											77[#6]	NL[#6]	NL[#6]			NL[#6]									
Human Health - Intrusive - Vapour Intrusion 2-<4m				NL[#5]	NL[#5]											160[#5]	NL[#5]	NL[#5]			NL[#5]									
Human Health - Intrusive - Vapour Intrusion + 4m				NL[#7]	NL[#7]											NL[#7]	NL[#7]	NL[#7]			NL[#7]									
Human Health - Intrusive - Direct Contact				82000[#12]	62000[#12]								85000[#12]	120000[#12]		1100[#12]	120000[#12]	85000[#12]			130000[#12]									
Human Health - Direct Contact - HIL-D																							3000[#14]	900[#14]		240000[#14]	1500[#14]	730[#14]	6000[#14]	400000[#14]
EIL - Commercial / Industrial (Aged)																							160[#4]		550[#1]	270[#1]	1800[#3]		410[#1]	960[#1]
NEPM (2013) ESL - Commercial & Industrial (Fine)													2500[#15]	6600[#15]		95[#15]	135[#15]	185[#15]			95[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse)													1700[#15]	3300[#15]		75[#15]	135[#15]	165[#15]			180[#15]									
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)				215[#15]								170[#15]																		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LV_MW01	LV_MW01_0.05	SOIL	11-Dec-13	<10	<50	<10	<50	160	130	290 - 315	230	<50	230	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	8	6	12	<0.1	6	33
LV_MW01	LV_MW01_0.45	SOIL	11-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	7	<1	14	<5	13	<0.1	3	21
LV_MW02	LV_MW02_0.5	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	14	<1	35	22	19	<0.1	32	61
LV_MW02	LV_MW02_1.7	SOIL	17-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	26	23	10	<0.1	28	89
LV_MW03	LV_MW03_0.5	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	9	<1	18	8	12	<0.1	10	26
LV_MW03	LV_MW03_1.8	SOIL	17-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	16	<1	18	15	12	<0.1	12	59
LV_MW04	LV_MW04_0.1	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LV_MW04	LV_MW04_0.5	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	17	<1	40	29	24	<0.1	45	60
LV_MW04	LV_MW04_2.2	SOIL	16-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	30	<1	36	31	25	<0.1	14	64
LV_MW05	LV_MW05_0.1	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LV_MW05	LV_MW05_0.5	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	11	<1	20	14	15	<0.1	19	32
LV_MW05	LV_MW05_2.7	SOIL	16-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	18	<1	22	25	29	<0.1	9	43
LV_MW06	LV_MW06_0.05	SOIL	10-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	6	<5	7	<0.1	<2	11
LV_MW06	LV_MW06_0.8	SOIL	11-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	10	<5	7	<0.1	<2	6
LV_MW07	LV_MW07_0.05	SOIL	12-Dec-13	<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	28	<1	14	7	17	<0.1	15	56
Statistical Summary																														
Number of Results				13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Number of Detects				0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	10	0	13	10	13	0	11	13
Minimum Concentration				<10	<50	<10	<50	<100	<100	<50	<50	<50	<100	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<5	<1	6	<5	7	<0.1	<2	6
Minimum Detect				ND	ND	ND	ND	160	130	290	230	ND	230	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	6	6	7	ND	3	6
Maximum Concentration				<10	<50	<10	<50	160	130	315	230	<50	230	<100	<10	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	30	<1	40	31	29	<0.1	45	89
Maximum Detect				ND	ND	ND	ND	160	130	315	230	ND	230	ND	ND	ND	ND	ND	ND	ND	ND	ND	30	ND	40	31	29	ND	45	89
Average Concentration				5	25	5	25	58	56	46	41	25	64	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	13	0.5	21	14	16	0.05	15	43
Median Concentration				5	25	5	25	50	50	25	25	25	50	50	5	0.1	0.25	0.25	0.25	0.25	0.25	0.1	11	0.5	18	14	13	0.05	12	43
Standard Deviation				0	0	0	0	31	22	77	57	0	50	0	0	0	0	0	0	0	0	0	9.1	0	11	11	6.9	0	13	24
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil properties across the site and mean ABC values from the buffer lands.
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapour Intrusion
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapour Intrusion
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour Intrusion
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapour Intrusion
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapour Intrusion
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapour Intrusion
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour Intrusion
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

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				Halogenated Benzenes									Halogenated Hydrocarbons					Solvents					VOCs			Inorganics									Particle Size
				1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene	CEC	Moisture	Exchangeable Aluminium	Exchangeable Calcium	Exchangeable Magnesium	Exchangeable Potassium	Exchangeable Sodium	pH (Lab)	TOC	Organic Matter
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	meq/100g	%	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	meq/100g	pH_Units	%	%
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	5	0.5	5	5	5	5	0.5	5	0.5	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5
Human Health - HSL-D - Vapour Intrusion 0-<1m SAND																																			
Human Health - HSL-D - Vapour Intrusion 1-<2m SAND																																			
Human Health - HSL-D - Vapour Intrusion 2-<4m SAND																																			
Human Health - HSL-D - Vapour Intrusion + 4m SAND																																			
Human Health - Direct Contact - HSL-D																																			
Human Health - Intrusive - Vapour Intrusion 0-<2m																																			
Human Health - Intrusive - Vapour Intrusion 2-<4m																																			
Human Health - Intrusive - Vapour Intrusion + 4m																																			
Human Health - Intrusive - Direct Contact																																			
Human Health - Direct Contact - HIL-D																																			
EIL - Commercial / Industrial (Aged)																																			
NEPM (2013) ESL - Commercial & Industrial (Fine)																																			
NEPM (2013) ESL - Commercial & Industrial (Coarse)																																			
NEPM (2013) ESL - Commercial & Industrial (Coarse or fine)																																			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																
LV_MW01	LV_MW01_0.05	SOIL	11-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.8	-	-	-	-	-	-	-	-
LV_MW01	LV_MW01_0.45	SOIL	11-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.4	-	-	-	-	-	-	-	-
LV_MW02	LV_MW02_0.5	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.8	-	-	-	-	-	-	-	-
LV_MW02	LV_MW02_1.7	SOIL	17-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-	-	-	-	-	-	-
LV_MW03	LV_MW03_0.5	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.1	-	-	-	-	-	-	-	-
LV_MW03	LV_MW03_1.8	SOIL	17-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.2	-	-	-	-	-	-	-	-
LV_MW04	LV_MW04_0.1	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LV_MW04	LV_MW04_0.5	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.8	-	-	-	-	-	-	-	-
LV_MW04	LV_MW04_2.2	SOIL	16-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8	-	-	-	-	-	-	-	-
LV_MW05	LV_MW05_0.1	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LV_MW05	LV_MW05_0.5	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.6	-	-	-	-	-	-	-	-
LV_MW05	LV_MW05_2.7	SOIL	16-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	13.1	-	49.1	2.4	0.2	0.2	4.1	<0.5	<0.5
LV_MW06	LV_MW06_0.05	SOIL	10-Dec-13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	-	20.2	-	-	-	-	-	-	-	-
LV_MW06	LV_MW06_0.8	SOIL	11-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.9	-	-	-	-	-	-	-	-
LV_MW07	LV_MW07_0.05	SOIL	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.9	16.6	<0.1	9	4.5	0.3	0.1	7.7	3.9	6.8
Statistical Summary																																			
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	13	1	2	2	2	2	2	2	2
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	13	0	2	2	2	2	2	1	1
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	13.9	8.2	<0.1	9	2.4	0.2	0.1	4.1	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.9	8.2	ND	9	2.4	0.2	0.1	4.1	3.9	6.8
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<5	<5	<5	<5	<0.5	<5	<0.5	<0.5	<0.5	52	26.8	<0.1	49.1	4.5	0.3	0.2	7.7	3.9	6.8
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	52	26.8	ND	49.1	4.5	0.3	0.2	7.7	3.9	6.8
Average Concentration																											17								
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.5	2.5	0.25	2.5	2.5	2.5	2.5	0.25	2.5	0.25	0.25	0.25	32.95	16.6	0.05	29.05	3.45	0.25	0.15	5.9	2.075	3.525
Standard Deviation																											5								
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 Site-wide EIL for commercial/industrial landuse. Calculated using mean soil p
#2 Generic naphthalene ACL for commercial/industrial
#3 Generic lead ACL for commercial/industrial
#4 Generic arsenic ACL for commercial/industrial
#5 CRC Care 2011 Intrusive Maintenance Workers, 2 to <4m, Sand Soils for Vapou
#6 CRC Care 2011 Intrusive Maintenance Workers, 0 to <2m, Sand Soils for Vapou
#7 CRC Care 2011 Intrusive Maintenance Workers, +4 m, Sand Soils for Vapour In
#8 CRC Care 2011 HSL-D (Commercial/Industrial) 2 to <4m, Sand Soils for Vapou
#9 CRC Care 2011 HSL-D (Commercial/Industrial) 1 to <2m, Sand Soils for Vapou
#10 CRC Care 2011 HSL-D (Commercial/Industrial) 0 to <1m, Sand Soils for Vapo
#11 CRC Care 2011 HSL-D (Commercial/Industrial) +4 m, Sand Soils for Vapour I
#12 CRC Care (2011) Intrusive Maintenance Workers for Direct Contact
#13 CRC Care (2011) HSL-D (Commercial/Industrial) for Direct Contact
#14 ASC NEPM (2013) Health Investigation Level (HIL-D) Commercial/Industrial
#15 ASC NEPM (2013) Ecological Screening Levels for Soil

				Asbestos		
				Asbestos fibres	Asbestos Detected	Asbestos Type
				%w/w	text	-
EQL				0.0001		0
Human Health - Asbestos				0.001[#1]	No asbestos present at surface [#2]	
Location Code	**Sample ID**	**Matrix_Type**	**Sample Date**			
LA_MW02	LA_MW02_1.0	SOIL	22/11/2013	-	No	-
LA_MW03	LA_MW03_0.1	SOIL	21/11/2013	-	No	-
LA_SB02	LA_SB02_0.1	SOIL	19/11/2013	-	No	-
LB_MW02	LB_MW02_0.1	SOIL	10/12/2013	-	No	-
LB_MW03	LB_MW03_0.1	SOIL	9/12/2013	-	No	-
LB_MW04	LB_MW04_0.1	SOIL	9/12/2013	-	No	-
LB_MW09	LB_MW09_0.1	SOIL	9/12/2013	-	No	-
LB_MW13	LB_MW13_0.1	SOIL	9/12/2013	-	No	-
LB_MW14	LB_MW14_0.1	SOIL	9/12/2013	-	No	-
LB_MW15	LB_MW15_0.1	SOIL	9/12/2013	-	No	-
LB_SU01	LB_SU01_0.0	SOIL	28/11/2013	-	No	-
LB_SU02	LB_SU02_0.0	SOIL	28/11/2013	-	No	-
LB_SU03	LB_SU03_0.0	SOIL	28/11/2013	-	No	-
LB_SU04	LB_SU04_0.0	SOIL	28/11/2013	-	No	-
LB_SU05	LB_SU05_0.0	SOIL	28/11/2013	-	No	-
LB_SU06	LB_SU06_0.0	SOIL	28/11/2013	0.00015	Yes	Amosite
LB_SU07	LB_SU07_0.0	SOIL	28/11/2013	-	No	-
LB_SU08	LB_SU08_0.0	SOIL	28/11/2013	-	No	-
LB_SU09	LB_SU09_0.0	SOIL	28/11/2013	-	No	-
LB_SU10	LB_SU10_0.0	SOIL	28/11/2013	-	No	-
LB_SU11	LB_SU011_0.0	SOIL	28/11/2013	0.0001	Yes	Chrysotile
LB_SU12	LB_SU012_0.0	SOIL	28/11/2013	-	No	-
LB_SU13	LB_SU013_0.0	SOIL	28/11/2013	-	No	-
LB_SU14	LB_SU014_0.0	SOIL	28/11/2013	-	No	-
LB_SU15	LB_SU015_0.0	SOIL	28/11/2013	0.0018	Yes	Chrysotile and Amosite
LB_SU16	LB_SU016_0.0	SOIL	28/11/2013	-	No	-
LB_SU17	LB_SU017_0.0	SOIL	28/11/2013	-	No	-
LB_SU18	LB_SU018_0.0	SOIL	28/11/2013	-	No	-
LB_SU19	LB_SU019_0.0	SOIL	28/11/2013	0.00018	Yes	Chrysotile and Amosite
LB_SU20	LB_SU20_0.0	SOIL	28/11/2013	-	No	-
LB_SU21	LB_SU21_0.0	SOIL	28/11/2013	-	No	-
LB_SU22	LB_SU22_0.0	SOIL	28/11/2013	0.00016	Yes	Chrysotile and Amosite
LB_SU23	LB_SU23_0.0	SOIL	28/11/2013	-	No	-
LB_SU24	LB_SU24_0.0	SOIL	28/11/2013	-	No	-
LB_SU25	LB_SU25_0.0	SOIL	28/11/2013	0.00016	Yes	Chrysotile and Amosite
LB_SU26	LB_SU26_0.0	SOIL	28/11/2013	-	No	-
LB_SU27	LB_SU27_0.0	SOIL	28/11/2013	-	No	-
LB_SU28	LB_SU28_0.0	SOIL	28/11/2013	-	No	-
LB_SU29	LB_SU29_0.0	SOIL	28/11/2013	-	No	-
LB_SU30	LB_SU30_0.0	SOIL	28/11/2013	-	No	-
LB_SU31	LB_SU31_0.0	SOIL	28/11/2013	0.00008	Yes	Amosite
LB_SU32	LB_SU32_0.0	SOIL	28/11/2013	-	No	-
LB_SU33	LB_SU33_0.0	SOIL	28/11/2013	0.00014	Yes	Chrysotile
LB_SU34	LB_SU34_0.0	SOIL	28/11/2013	-	No	-
LB_SU35	LB_SU35_0.0	SOIL	28/11/2013	0.0001	Yes	Amosite
LB_SU36	LB_SU36_0.0	SOIL	28/11/2013	0.00019	Yes	Chrysotile and Amosite
LB_SU37	LB_SU37_0.0	SOIL	28/11/2013	-	Yes	-
LB_SU38	LB_SU38_0.0	SOIL	28/11/2013	0.00011	Yes	Chrysotile
LB_SU39	LB_SU39_0.0	SOIL	28/11/2013	0.00018	Yes	Chrysotile and Amosite
LB_SU40	LB_SU40_0.0	SOIL	28/11/2013	0.00011	Yes	Chrysotile and Amosite
LB_SU41	LB_SU41_0.0	SOIL	28/11/2013	0.035	Yes	Chrysotile and Amosite
LB_SU42	LB_SU42_0.0	SOIL	28/11/2013	0.00005	Yes	Chrysotile and Amosite
LB_SU43	LB_SU43_0.0	SOIL	28/11/2013	-	No	-
LB_SU44	LB_SU44_0.0	SOIL	28/11/2013	-	No	-
LB_SU45	LB_SU45_0.0	SOIL	28/11/2013	-	No	-
LB_SU46	LB_SU46_0.0	SOIL	28/11/2013	0.63	Yes	Chrysotile, Amosite and Crocidolite
LD_MW01	LD_MW01_0.1	SOIL	13/11/2013	-	No	-
LD_MW02	LD_MW02_0.1	SOIL	13/11/2013	-	No	-
LD_MW02	LDMW02_0.1	SOIL	13/11/2013	-	No	-
LD_MW04	LD_MW04_0.1	SOIL	13/11/2013	-	No	-
LD_MW04	LDMW04_0.1	SOIL	13/11/2013	-	No	-
LD_MW05	LD_MW05_0.1	SOIL	13/11/2013	-	No	-
LD_SB01	LD_SB01_0.1	SOIL	13/11/2013	-	No	-
LD_SB01	LDSB01_0.1	SOIL	13/11/2013	-	No	-
LD_SB02	LD_SB02_0.1	SOIL	13/11/2013	-	No	-
LD_SB03	LD_SBO3_0.1	SOIL	13/11/2013	-	No	-
LD_SB03	LDSBO3_0.1	SOIL	13/11/2013	-	No	-
LD_SB04	LD_SB04_0.1	SOIL	13/11/2013	-	No	-
LD_SB05	LD_SB05_3.0	SOIL	27/11/2013	-	No	-
LE_MW01	LE_MW01_0.1	SOIL	12/11/2013	-	No	-
LE_MW02	LE_MW02_0.5	SOIL	12/11/2013	-	No	-
LE_MW03	LE_MW03_0.5	SOIL	12/11/2013	-	No	-
LE_MW04	LE_MW04_0.5	SOIL	12/11/2013	-	No	-
LE_MW05	LE_M05_0.1	SOIL	12/11/2013	-	No	-
LE_MW06	LE_MW06_0.1	SOIL	12/11/2013	-	No	-
LE_SB01	LE_SB01_1.0	SOIL	22/11/2013	-	No	-
LE_SB02	LE_SB02_0.5	SOIL	12/11/2013	-	No	-
LE_SB04	LE_SB04_0.5	SOIL	12/11/2013	-	No	-
LE_SB05	LE_SB05_0.5	SOIL	12/11/2013	-	No	-
LE_SB06	LE_SB06_0.5	SOIL	12/11/2013	-	No	-
LE_SB07	LE_SB07_0.5	SOIL	21/11/2013	-	No	-
LE_SB08	LE_SB08_0.5	SOIL	12/11/2013	-	No	-
LF_MW01	LF_MW01_0.1	SOIL	21/11/2013	-	No	-
LF_SB01	LF_SB01_0.1	SOIL	21/11/2013	-	No	-
LF_SB02	LF_SB02_0.1	SOIL	21/11/2013	-	No	-
LF_SB03	LF_SB03_0.1	SOIL	21/11/2013	-	No	-
LF_SB04	LF_SB04_0.1	SOIL	21/11/2013	-	No	-

				Asbestos		
				Asbestos fibres	Asbestos Detected	Asbestos Type
				%w/w	text	-
EQL				0.0001		0
Human Health - Asbestos				0.001 [#1]	No asbestos present at surface [#2]	
Location Code	**Sample ID**	**Matrix_Type**	**Sample Date**			
LI_MW02	LI_MW02_0.1	SOIL	15/11/2013	-	No	-
LI_MW03	LI_MW03_0.1	SOIL	15/11/2013	-	No	-
LI_MW04	LI_MW04_0.5	SOIL	15/11/2013	-	No	-
LI_MW05	LI_MW05_0.5	SOIL	15/11/2013	-	No	-
LI_MW06	LI_MW06_0.5	SOIL	15/11/2013	-	No	-
LI_MW07	LI_MW07_0.5	SOIL	15/11/2013	-	No	-
LI_MW08	LI_MW08_0.5	SOIL	15/11/2013	-	No	-
LI_SB05	LI_SB05_0.3	SOIL	3/12/2013	-	No	-
LJ_MW02	LJ_MW02_0.5	SOIL	3/12/2013	0.004	Yes [3]	Asbestiform Mineral Fibres
LJ_MW04	LJ_MW04_0.5	SOIL	3/12/2013	-	No	-
LJ_SB02	LJ_SB02_1.0	SOIL	3/12/2013	-	No	-
LJ_SB03	LJ_SB03_0.5	SOIL	3/12/2013	-	No	-
LJ_SB04	LJ_SB04_0.5	SOIL	3/12/2013	-	No	-
LJ_SB06	LJ_SB06_0.5	SOIL	3/12/2013	-	No	-
LJ_SB07	LJ_SB07_0.5	SOIL	3/12/2013	-	No	-
LJ_SB09	LJ_SB09_0.5	SOIL	4/12/2013	-	No	-
LK_MW01	LK_MW01_0.1	SOIL	13/11/2013	-	No	-
LK_MW02	LK_MW02_0.1	SOIL	14/11/2013	-	No	-
LK_MW03	LK_MW03_0.1	SOIL	13/11/2013	-	No	-
LK_SB01	LK_SB01_0.1	SOIL	13/11/2013	-	No	-
LK_SB02	LK_SB02_0.1	SOIL	13/11/2013	-	No	-
LL_MW04	LL_MW04_0.5	SOIL	27/11/2013	-	No	-
LL_MW06	LL_MW06_0.5	SOIL	27/11/2013	-	No	-
LL_MW09	LL_MW09_0.5	SOIL	27/11/2013	-	No	-
LL_SB02	LL_SB02_0.5	SOIL	27/11/2013	-	No	-
LL_SB03	LL_SB03_0.5	SOIL	27/11/2013	-	No	-
LL_SB12	LL_SB12_0.5	SOIL	30/11/2013	-	No	-
LL_SB13	LL_SB13_1.5	SOIL	27/11/2013	-	No	-
LL_SB18	LL_SB18_0.5	SOIL	27/11/2013	-	No	-
LL_SB19	LL_SB19_0.5	SOIL	27/11/2013	-	No	-
LN_MW01	LN_MW01_0.5	SOIL	7/11/2013	-	No	-
LN_MW02	LN_MW02_0.1	SOIL	8/11/2013	-	No	-
LN_MW03	LN_MW03_0.1	SOIL	8/11/2013	-	No	-
LN_MW04	LN_MW04_0.5	SOIL	7/11/2013	-	No	-
LN_MW05	LN_MW05_0.1	SOIL	7/11/2013	-	No	-
LN_MW06	LN_MW06_0.5	SOIL	7/11/2013	-	No	-
LN_MW07	LN_MW07_0.5	SOIL	7/11/2013	-	No	-
LO_MW01	LO_MW01_0.1	SOIL	9/12/2013	-	No	-
LO_MW04	LO_MW04_0.5	SOIL	4/12/2013	-	No	-
LO_MW05	LO_MW05_0.1	SOIL	4/12/2013	-	No	-
LO_MW11	LO_MW11_0.1	SOIL	9/12/2013	-	No	-
LO_MW13	LO_MW13_0.1	SOIL	9/12/2013	-	No	-
LO_MW15	LO_MW15_0.5	SOIL	25/11/2013	-	No	-
LO_MW17	LO_MW17_0.1	SOIL	9/12/2013	-	No	-
LO_SB01	LO_SB01_0.5	SOIL	12/11/2013	-	No	-
LO_SB02	LO_SB02_0.1	SOIL	22/11/2013	-	No	-
LO_SB02	LO_SB02_2.0	SOIL	27/11/2013	-	No	-
LO_SB03	LO_SB03_0.1	SOIL	3/12/2013	-	No	-
LO_SB05	LO_SB05_0.1	SOIL	9/12/2013	-	No	-
LO_SB05	LO_SB05_0.5	SOIL	4/12/2013	-	No	-
LO_SB06	LO_SB06_0.5	SOIL	7/11/2013	-	No	-
LO_SB07	LO_SB07_0.5	SOIL	7/11/2013	-	No	-
LO_SB08	LO_SB08_0.5	SOIL	7/11/2013	0.0047	Yes [3]	Chrysotile
LO_SB08	LO_SB08_3.0	SOIL	27/11/2013	-	No	-
LO_SB09	LO_SB09_0.5	SOIL	6/11/2013	-	No	-
LP_MW01	LP_MW01_1.0	SOIL	6/11/2013	-	No	-
LP_MW02	LP_MW02_0.1	SOIL	14/11/2013	-	No	-
LP_MW03	LP_MW03_0.1	SOIL	8/11/2013	-	No	-
LP_MW03	LP_MW03_1.4	SOIL	21/11/2013	-	No	-
LP_MW04	LP_MW04_0.1	SOIL	8/11/2013	-	No	-
LP_MW05	LP_MW05_0.5	SOIL	7/11/2013	-	No	-
LP_MW06	LP_MW06_0.1	SOIL	2/12/2013	-	No	-
LP_SB01	LP_SB01_0.1	SOIL	15/11/2013	-	No	-
LP_SB01	LP_SB01_0.5	SOIL	6/11/2013	-	No	-
LP_SB02	LP_SB02_0.1	SOIL	15/11/2013	-	No	-
LP_SB02	LP_SB02_0.5	SOIL	6/11/2013	-	No	-
LP_SB03	LP_SB03_0.1	SOIL	19/11/2013	-	No	-
LP_SB03	LP_SB03_0.5	SOIL	6/11/2013	-	No	-
LP_SB04	LP_SB04_0.5	SOIL	7/11/2001	-	No	-
LP_SB05	LP_SB05_0.1	SOIL	21/11/2013	-	No	-
LP_SB06	LP_SB06_0.1	SOIL	8/11/2013	-	No	-
LP_SB07	LP_SB07_0.1	SOIL	8/11/2013	-	No	-
LP_SB08	LP_SB08_0.1	SOIL	8/11/2013	-	No	-
LP_SB09	LP_SB09_0.1	SOIL	8/11/2013	-	No	-
LP_SB10	LP_SB10_0.1	SOIL	8/11/2013	-	No	-
LP_SB11	LP_SB11_0.1	SOIL	14/11/2013	-	No	-
LP_SB12	LP_SB12_0.1	SOIL	14/11/2013	-	No	-
LP_SB13	LP_SB13_0.1	SOIL	2/12/2013	-	No	-
LP_SB14	LP_SB14_0.1	SOIL	2/12/2013	-	No	-
LQ_MW05	LQ_MW05_0.1	SOIL	19/11/2013	-	No	-
LQ_MW06	LQ_MW06_0.1	SOIL	19/11/2013	-	No	-
LQ_MW07	LQ_MW07_0.5	SOIL	19/11/2013	-	No	-
LQ_SB01	LQ_SB01_0.1	SOIL	19/11/2013	-	No	-
LQ_SB03	LQ_SB03_0.1	SOIL	19/11/2013	-	No	-
LQ_SB04	LQ_SB04_0.1	SOIL	19/11/2013	-	No	-
LQ_SB05	LQ_SB05_0.1	SOIL	19/11/2013	-	No	-
LQ_SB06	LQ_SB06_0.1	SOIL	19/11/2013	-	No	-

		Asbestos		
		Asbestos fibres	Asbestos Detected	Asbestos Type
		%w/w	text	-
EQL		0.0001		0
Human Health - Asbestos		0.001 [#1]	No asbestos present at surface [#2]	
Location Code	**Sample ID**	**Matrix_Type**	**Sample Date**	
LQ_SB07	LQ_SB07_0.1	SOIL	21/11/2013	-	No	-
LQ_SB08	LQ_SB08_0.1	SOIL	19/11/2013	-	No	-
LS_MW01	LS_MW01_0.1	SOIL	2/12/2013	-	No	-
LS_MW02	LS_MW02_0.5	SOIL	4/12/2013	-	No	-
LS_SB01	LS_SB01_0.1	SOIL	14/11/2013	-	No	-
LS_SB03	LS_SB03_0.1	SOIL	14/11/2013	-	No	-
LS_SB04	LS_SB04_0.1	SOIL	14/11/2013	-	No	-
LT_MW01	LT_MW01_0.1	SOIL	15/11/2013	-	No	-
LT_MW02	LT_MW02_0.1	SOIL	15/11/2013	-	No	-
LT_MW03	LT_MW03_0.1	SOIL	15/11/2013	-	No	-
LT_MW04	LT_MW04_0.1	SOIL	15/11/2013	-	No	-
LV_MW04	LV_MW04_0.1	SOIL	12/12/2013	-	No	-
LV_MW05	LV_MW05_0.1	SOIL	12/12/2013	-	No	-

Statistical Summary

Number of Results	18	187	18
Number of Detects	18	18	18
Minimum Concentration	0.00005	-	-
Minimum Detect	0.00005	-	-
Maximum Concentration	0.63	-	-
Maximum Detect	0.63	-	-
Average Concentration	0.038	-	-
Median Concentration	0.00016	-	-
Standard Deviation	0.15	-	-
Number of Guideline Exceedances	5	16	-
Number of Guideline Exceedances(Detects Only)	5	16	-

Comments

#1 ASC NEPM (2013) Health Screening Level for Asbestos in Soil - FA and AF (Friable Asbestos and Asbestos Fines)
#2 ASC NEPM (2013) Health Screening Level for Asbestos in Soil (visible asbestos in surface soil)
#3 Asbestos detection at this location was not present at surface

| | | | | | TRH | | | | | | | | | BTEX | | | | | | | Metals | | | | | | | | |

				PAH/Phenols																																			
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(e)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																												NL[#7]						
Vapour Intrusion - Commercial Worker - 4-<8 m																												NL[#6]						
Vapour Intrusion - Commercial Worker - 8 m+																												NL[#5]						
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																												NL[#8]						
Drinking Water																		0.01[#3]																		
Ecological (Freshwater)					3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]	
Recreational					200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]					
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																				
LA_MW01	LA_MW01	WATER	29-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LA_MW02	LA_MW02	WATER	28-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LA_MW03	LA_MW03	WATER	29-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Statistical Summary																																							
Number of Results				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Median Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Wate
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/In
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/In
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/In
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5b. AEC LB Groundwater Summary
Liddell Power Station - Stage 2 ESA
0224198

	TRH												BTEX							Metals																			
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Lead (Filtered)	Manganese (Filtered)	Mercury (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Selenium (Filtered)	Thallium (Filtered)	Titanium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.0002	0.0005	0.0001	0.005	0.00005	0.0002	0.0001	0.0005	0.0001	0.0005	0.0001	0.0001	0.0005	0.0002	0.00002	0.001	0.0002	0.001
Vapour Intrusion - Commercial Worker - 2-<4 m	6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]																					
Vapour Intrusion - Commercial Worker - 4-<8 m	6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]																					
Vapour Intrusion - Commercial Worker - 8 m+	7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]																					
Vapour Intrusion - Intrusive Maint Worker 2m -8m+	NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]																					
Drinking Water													1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]				0.002[#3]	0.05[#3]		2[#3]	0.01[#3]		0.001[#3]		0.02[#3]	0.01[#3]				
Ecological (Freshwater)													950[#10]			350[#10]							0.37[#10]	0.0002[#10]			0.0014[#10]	0.0034[#10]	1.9[#10]	0.00006[#9]		0.011[#10]	0.005[#9]				0.008[#10]
Recreational													10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]				0.02[#4]	0.5[#4]		20[#4]	0.1[#4]		0.01[#4]		0.2[#4]	0.1[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																			
LB_EW_MW01	LB_EW_MW01	WATER	30-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0002	0.0226	<0.0001	1.77	<0.00005	<0.0002	0.0002	0.0007	<0.0001	0.0081	<0.0001	0.018	0.0013	0.0004	<0.00002	-	0.0006	0.009
LB_MW01	LB_MW01	WATER	18-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0025	0.049	<0.0001	0.226	0.00015	0.0009	0.0202	0.0207	0.0189	0.301	<0.0001	0.0042	0.108	0.218	-	<0.001	0.0017	0.146
LB_MW03	LB_MW03	WATER	19-Dec-13	<0.02	<0.1	<20	60	<100	<50	60 - 135	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0004	0.0191	<0.0001	1.54	0.00007	<0.0002	0.0303	0.0029	0.0005	0.951	<0.0001	0.0127	0.0566	0.0002	0.00014	-	0.0004	0.033
LB_MW05	LB_MW05	WATER	18-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0017	0.0568	<0.0001	0.236	<0.00005	<0.0002	0.0029	0.003	0.0042	0.206	<0.0001	0.0037	0.0053	0.0003	-	<0.001	0.0039	0.016
LB_MW06	LB_MW06	WATER	18-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0085	0.144	0.0018	2.77	0.00078	0.0132	0.0901	0.0137	0.0924	2.69	<0.0001	0.0038	0.0342	0.0047	-	0.003	0.026	0.053
LB_MW08	LB_MW08	WATER	18-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.003	0.0373	<0.0001	1.22	0.00011	<0.0002	0.0037	0.0023	0.0006	0.438	<0.0001	0.207	0.013	0.0026	-	<0.001	0.0004	0.022
LB_MW11	LB_MW11	WATER	18-Dec-13	<0.02	<0.1	<20	50	<100	<50	50 - 125	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0012	0.0789	<0.0001	0.151	0.00006	0.0002	0.0062	0.0047	0.0032	1.42	0.0001	0.0024	0.0082	0.0008	0.00005	-	0.0019	0.02
LB_MW13	LB_MW13	WATER	17-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.0002	0.0226	<0.0001	1.63	0.00008	<0.0002	0.0016	0.0022	0.0014	0.912	<0.0001	0.009	0.0079	<0.0002	0.00032	-	<0.0002	0.023
LB_MW14	LB_MW14	WATER	17-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0003	0.0196	0.0002	1.88	0.00024	<0.0002	0.0427	0.0035	0.0006	1.95	<0.0001	0.0044	0.0265	0.0004	0.00041	-	<0.0002	0.033
Statistical Summary																																						
Number of Results				9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	5	4	9	9
Number of Detects				0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	8	9	2	9	7	3	9	9	8	9	1	9	9	8	4	1	7	9
Minimum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.0002	0.0191	<0.0001	0.151	<0.00005	<0.0002	0.0002	0.0007	<0.0001	0.0081	<0.0001	0.0024	0.0013	<0.0002	<0.00002	<0.001	<0.0002	0.009
Minimum Detect				ND	ND	ND	50	ND	ND	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0002	0.0191	0.0002	0.151	0.00006	0.0002	0.0002	0.0007	0.0005	0.0081	0.0001	0.0024	0.0013	0.0002	0.00005	0.003	0.0004	0.009
Maximum Concentration				<0.02	<0.1	<20	60	<100	<50	135	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0085	0.144	0.0018	2.77	0.00078	0.0132	0.0901	0.0207	0.0924	2.69	0.0001	0.207	0.108	0.218	0.00041	0.003	0.026	0.146
Maximum Detect				ND	ND	ND	60	ND	ND	135	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0085	0.144	0.0018	2.77	0.00078	0.0132	0.0901	0.0207	0.0924	2.69	0.0001	0.207	0.108	0.218	0.00041	0.003	0.026	0.146
Average Concentration				0.01	0.05	10	32	50	25	40	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.002	0.05	0.00026	1.3	0.00017	0.0017	0.022	0.006	0.014	0.99	0.000056	0.029	0.029	0.025	0.00019	0.0011	0.0039	0.039
Median Concentration				0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.0012	0.0373	0.00005	1.54	0.00008	0.0001	0.0062	0.003	0.0014	0.912	0.00005	0.0044	0.013	0.0004	0.00014	0.0005	0.0006	0.023
Standard Deviation				0	0	0	13	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0.0027	0.041	0.00058	0.9	0.00024	0.0043	0.03	0.0067	0.03	0.89	0.000017	0.067	0.034	0.072	0.00017	0.0013	0.0084	0.042
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	0	8	3	2	9	0	5	1	0	0	0	9
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	0	8	3	2	1	0	5	1	0	0	0	9

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

				PAH/Phenols																															
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																												NL[#7]						
Vapour Intrusion - Commercial Worker - 4-<8 m																												NL[#6]						
Vapour Intrusion - Commercial Worker - 8 m+																												NL[#5]						
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																												NL[#8]						
Drinking Water																		0.01[#3]																
Ecological (Freshwater)					3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]		
Recreational					200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																
LB_EW_MW01	LB_EW_MW01	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LB_MW01	LB_MW01	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LB_MW03	LB_MW03	WATER	19-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LB_MW05	LB_MW05	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LB_MW06	LB_MW06	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LB_MW08	LB_MW08	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LB_MW11	LB_MW11	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LB_MW13	LB_MW13	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LB_MW14	LB_MW14	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Statistical Summary																																			
Number of Results				9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Median Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5c. AEC LC Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

				TRH											BTEX							Metals							
				C6-C10 less BTEX (F1)	>C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
				mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.001	0.0001	0.001	0.001	0.001	0.0001	0.001	0.005
Vapour Intrusion - Commercial Worker - 2-<4 m				6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]									
Vapour Intrusion - Commercial Worker - 4-<8 m				6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]									
Vapour Intrusion - Commercial Worker - 8 m+				7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]									
Vapour Intrusion - Intrusive Maint Worker 2m -8m+				NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]									
Drinking Water																1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]	0.002[#3]	0.05[#3]	2[#3]	0.01[#3]	0.001[#3]	0.02[#3]	
Ecological (Freshwater)																950[#10]			350[#10]					0.0002[#10]		0.0014[#10]	0.0034[#10]	0.00006[#9]	0.011[#10]	0.008[#10]
Recreational																10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]	0.02[#4]	0.5[#4]	20[#4]	0.1[#4]	0.01[#4]	0.2[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LC_EW_L1	LC_EW_L1	WATER	25-Nov-13	110	1.56	198,000	3270	260	<50	3530 - 3555	1990	1.79	0.2	<0.1	204	7670	59,700	3060	7960	15,700	23,660 - 23,700	94.1	<0.001	<0.0001	<0.001	0.002	<0.001	0.0002	0.074	0.02
LC_EW_L2	LC_EW_L2	WATER	25-Nov-13	21.2	0.65	38,900	800	300	<50	1100 - 1125	880	0.65	0.23	<0.1	39.5	2370	12,200	357	1170	2240	3410	18.3	0.001	<0.0001	<0.001	0.002	<0.001	<0.0001	0.019	0.012
LC_EW_L3	LC_EW_L3	WATER	25-Nov-13	0.15	<0.1	280	<50	710	60	770 - 795	680	<0.1	0.68	<0.1	0.28	7	82	4	12	24	36	0.129	<0.001	<0.0001	<0.001	0.002	<0.001	<0.0001	0.028	0.043
LC_EW_L4	LC_EW_L4	WATER	25-Nov-13	<0.02	0.13	<20	60	220	<50	280 - 305	290	0.13	0.16	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	<0.0001	<0.001	0.001	<0.001	<0.0001	0.008	0.013
Statistical Summary																														
Number of Results				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects				3	3	3	3	4	1	4	4	3	4	0	3	3	3	3	3	3	3	3	2	0	0	4	0	1	4	4
Minimum Concentration				<0.02	<0.1	<20	<50	220	<50	280	290	<0.1	0.16	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	<0.0001	<0.001	0.001	<0.001	<0.0001	0.008	0.012
Minimum Detect				0.15	0.13	280	60	220	60	280	290	0.13	0.16	ND	0.28	7	82	4	12	24	36	0.129	0.001	ND	ND	0.001	ND	0.0002	0.008	0.012
Maximum Concentration				110	1.56	198000	3270	710	60	3555	1990	1.79	0.68	<0.1	204	7670	59700	3060	7960	15700	23700	94.1	0.001	<0.0001	<0.001	0.002	<0.001	0.0002	0.074	0.043
Maximum Detect				110	1.56	198000	3270	710	60	3555	1990	1.79	0.68	ND	204	7670	59700	3060	7960	15700	23700	94.1	0.001	ND	ND	0.002	ND	0.0002	0.074	0.043
Average Concentration				33	0.6	59298	1039	373	34	1433	960	0.66	0.32	0.05	61	2512	17996	856	2286	4491	6782	28	0.00075	0.00005	0.0005	0.0018	0.0005	0.000088	0.032	0.022
Median Concentration				10.675	0.39	19590	430	280	25	947.5	780	0.39	0.215	0.05	19.89	1188.5	6141	180.5	591	1132	1723	9.2145	0.00075	0.00005	0.0005	0.002	0.0005	0.00005	0.0235	0.0165
Standard Deviation				52	0.69	94256	1530	227	18	1446	729	0.8	0.24	0	97	3615	28387	1479	3822	7546	11378	45	0.00029	0	0	0.0005	0	0.000075	0.029	0.014
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3	0	4	3	4
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3	0	1	3	4

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

				PAH/Phenols																														
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																												NL[#7]						
Vapour Intrusion - Commercial Worker - 4-<8 m																												NL[#6]						
Vapour Intrusion - Commercial Worker - 8 m+																												NL[#5]						
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																												NL[#8]						
Drinking Water																		0.01[#3]																
Ecological (Freshwater)					3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]		
Recreational					200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																															
LC_EW_L1	LC_EW_L1	WATER	25-Nov-13	<2.4	<2.4	<2.4	23.7	<2.4	<2.4	43.6	<2.4	34.8	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	49.4 - 229	49.4	<4.8	<2.4	6.3	<2.4
LC_EW_L2	LC_EW_L2	WATER	25-Nov-13	<1	<1	<1	5.4	<1	<1	17.5	<1	11.7	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<50 - 7.3	7.3	<2	<1	2.9	<1
LC_EW_L3	LC_EW_L3	WATER	25-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LC_EW_L4	LC_EW_L4	WATER	25-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	1.1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<2	<1	<1	<1
Statistical Summary																																		
Number of Results				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects				0	0	0	2	0	0	2	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	2	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect				ND	ND	ND	5.4	ND	ND	17.5	ND	11.7	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.4	1.1	ND	ND	2.9	ND
Maximum Concentration				<2.4	<2.4	<2.4	23.7	<2.4	<2.4	43.6	<2.4	34.8	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<1.2	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	229	49.4	<4.8	<2.4	6.3	<2.4
Maximum Detect				ND	ND	ND	23.7	ND	ND	43.6	ND	34.8	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	229	49.4	ND	ND	6.3	ND
Average Concentration				0.68	0.68	0.68	7.5	0.68	0.68	16	0.68	12	0.68	0.83	0.68	0.68	0.68	0.49	0.34	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	39	15	1.4	0.68	2.6	0.68
Median Concentration				0.5	0.5	0.5	2.95	0.5	0.5	9	0.5	6.35	0.5	0.8	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	8.325	4.2	1	0.5	1.7	0.5
Standard Deviation				0.35	0.35	0.35	11	0.35	0.35	20	0.35	16	0.35	0.38	0.35	0.35	0.35	0.48	0.18	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	67	23	0.7	0.35	2.7	0.35
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

ERM

Table 5d. AEC LD Groundwater Summary
Liddell Bayswater Power Station - Stage 2 ESA
Project Symphony - 0224198

	TRH												BTEX							Metals																	
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Lead (Filtered)	Manganese (Filtered)	Mercury (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Selenium (Filtered)	Thallium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.0002	0.0005	0.0001	0.005	0.00005	0.0002	0.0001	0.0005	0.0001	0.0005	0.0001	0.0001	0.0005	0.0002	0.00002	0.0002	0.001
Vapour Intrusion - Commercial Worker - 2-<4 m	6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]																			
Vapour Intrusion - Commercial Worker - 4-<8 m	6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]																			
Vapour Intrusion - Commercial Worker - 8 m+	7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]																			
Vapour Intrusion - Intrusive Maint Worker 2m -8m+	NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]																			
Drinking Water													1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]				0.002[#3]	0.05[#3]		2[#3]	0.01[#3]		0.001[#3]		0.02[#3]	0.01[#3]			
Ecological (Freshwater)													950[#10]			350[#10]							0.37[#10]	0.0002[#10]			0.0014[#10]	0.0034[#10]	1.9[#10]	0.00006[#9]		0.011[#10]	0.005[#9]			0.008[#10]
Recreational													10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]				0.02[#4]	0.5[#4]		20[#4]	0.1[#4]		0.01[#4]		0.2[#4]	0.1[#4]			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																	
LD_EW_MW01	LD_EW_MW01	WATER	21-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	-	-	-	<0.0001	<0.001	-	0.009	<0.001	-	<0.0001	-	0.029	-	-	-	0.045
LD_EW_MW02	LD_EW_MW02	WATER	20-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	-	-	-	0.0001	<0.001	-	0.013	<0.001	-	<0.0001	-	0.012	-	-	-	0.014
LD_EW_MW03	LD_EW_MW03	WATER	21-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	-	-	-	<0.0001	<0.001	-	0.008	<0.001	-	<0.0001	-	0.005	-	-	-	0.019
LD_EW_MW04	LD_EW_MW04	WATER	21-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	-	-	-	0.0004	<0.001	-	0.007	<0.001	-	<0.0001	-	0.082	-	-	-	0.055
LD_MW01	LD_MW01	WATER	11-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.002	-	-	-	0.0014	0.004	-	0.005	<0.001	-	<0.0001	-	0.036	-	-	-	0.083
LD_MW02	LD_MW02	WATER	30-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0013	0.0612	<0.0001	0.227	0.00026	0.0004	0.0346	0.0034	0.0002	1.76	<0.0001	0.0014	0.0274	0.0023	0.00007	0.0018	0.059
LD_MW04	LD_MW04	WATER	30-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0037	0.0654	<0.0001	0.224	0.00022	<0.0002	0.034	0.002	<0.0001	1.71	<0.0001	0.0116	0.0356	0.0024	0.00012	0.002	0.04
LD_MW05	LD_MW05	WATER	11-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	-	-	-	0.0003	<0.001	-	0.003	<0.001	-	<0.0001	-	0.01	-	-	-	0.025
Statistical Summary																																				
Number of Results				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	2	2	2	8	8	2	8	8	2	8	2	8	2	2	2	8
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	0	2	6	2	2	8	1	2	0	2	8	2	2	2	8
Minimum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<2	<0.001	<0.001	0.0612	<0.0001	0.224	<0.0001	<0.0002	0.034	0.002	<0.0001	1.71	<0.0001	0.0014	0.005	0.0023	0.00007	0.0018	0.014
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0612	ND	0.224	0.0001	0.0004	0.034	0.002	0.0002	1.71	ND	0.0014	0.005	0.0023	0.00007	0.0018	0.014
Maximum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<2	<0.001	0.0037	0.0654	<0.0001	0.227	0.0014	0.004	0.0346	0.013	<0.001	1.76	<0.0001	0.0116	0.082	0.0024	0.00012	0.002	0.083
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0037	0.0654	ND	0.227	0.0014	0.004	0.0346	0.013	0.0002	1.76	ND	0.0116	0.082	0.0024	0.00012	0.002	0.083
Average Concentration				0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.0013				0.00035	0.00088		0.0063	0.00041		0.00005		0.03				0.043
Median Concentration				0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.001	0.0633	0.00005	0.2255	0.00024	0.0005	0.0343	0.006	0.0005	1.735	0.00005	0.0065	0.0282	0.00235	0.000095	0.0019	0.0425
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0011				0.00044	0.0013		0.0037	0.00018		0		0.024				0.023
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	8	0	0	8	0	6	0	0	0	8
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	8	0	0	8	0	6	0	0	0	8

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

				PAH/Phenols																																			
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																												NL[#7]						
Vapour Intrusion - Commercial Worker - 4-<8 m																												NL[#6]						
Vapour Intrusion - Commercial Worker - 8 m+																												NL[#5]						
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																												NL[#8]						
Drinking Water																		0.01[#3]																	
Ecological (Freshwater)					3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]	
Recreational					200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																				
LD_EW_MW01	LD_EW_MW01	WATER	21-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LD_EW_MW02	LD_EW_MW02	WATER	20-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LD_EW_MW03	LD_EW_MW03	WATER	21-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LD_EW_MW04	LD_EW_MW04	WATER	21-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LD_MW01	LD_MW01	WATER	11-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LD_MW02	LD_MW02	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LD_MW04	LD_MW04	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LD_MW05	LD_MW05	WATER	11-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Statistical Summary																																							
Number of Results				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Median Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

ERM

Table 5e. AEC BE Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

| | TRH | | | | | | | | | | | | BTEX | | | | | | | Metals | | | | | | | | | | | |

				PAH/Phenols																																	
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																												NL[#7]								
Vapour Intrusion - Commercial Worker - 4-<8 m																												NL[#6]								
Vapour Intrusion - Commercial Worker - 8 m+																												NL[#5]								
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																												NL[#8]								
Drinking Water																		0.01[#3]																		
Ecological (Freshwater)					3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]	
Recreational					200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]					
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																		
LE_MW01	LE_MW01	WATER	29-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LE_MW02	LE_MW02	WATER	28-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LE_MW03	LE_MW03	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LE_MW04	LE_MW04	WATER	06-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	2.1	<1	4.3 - 6	8.3	<2	1.9	<1	<1
LE_MW05	LE_MW05	WATER	06-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LE_MW06	LE_MW06	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LE_MW07	LE_MW07	WATER	06-Dec-13	<1	<1	<1	48.1	<1	<1	9.4	<1	10.7	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	1.6	<1	15 - 24.6	27.4	<2	1.2	4	<1
LE_MW08	LE_MW08	WATER	06-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 - 8	<0.5	<2	<1	<1	<1
LE_MW09	LE_MW09	WATER	06-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Statistical Summary																																					
Number of Results				9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Number of Detects				0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	2	0	2	1	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect				ND	ND	ND	48.1	ND	ND	9.4	ND	10.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	4.3	8.3	ND	1.2	4	ND
Maximum Concentration				<1	<1	<1	48.1	<1	<1	9.4	<1	10.7	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	2.1	<1	24.6	27.4	<2	1.9	4	<1
Maximum Detect				ND	ND	ND	48.1	ND	ND	9.4	ND	10.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	24.6	27.4	ND	1.9	4	ND
Average Concentration				0.5	0.5	0.5	5.8	0.5	0.5	1.5	0.5	2.1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.5	3.6	4.2	1	0.73	0.89	0.5
Median Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation				0	0	0	16	0	0	3	0	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.61	0	6.4	9.1	0	0.49	1.2	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indus
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indus
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indus
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	TRH												BTEX							Metals							
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.001	0.0001	0.001	0.001	0.001	0.0001	0.001	0.005
Vapour Intrusion - Commercial Worker - 2-<4 m	6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]										
Vapour Intrusion - Commercial Worker - 4-<8 m	6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]										
Vapour Intrusion - Commercial Worker - 8 m+	7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]										
Vapour Intrusion - Intrusive Maint Worker 2m -8m+	NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]										
Drinking Water													1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]	0.002[#3]	0.05[#3]	2[#3]	0.01[#3]	0.001[#3]	0.02[#3]	
Ecological (Freshwater)													950[#10]			350[#10]					0.0002[#10]		0.0014[#10]	0.0034[#10]	0.00006[#9]	0.011[#10]	0.008[#10]
Recreational													10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]	0.02[#4]	0.5[#4]	20[#4]	0.1[#4]	0.01[#4]	0.2[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LG_MW01	LG_MW01	WATER	16-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.006	<0.0001	<0.001	0.002	0.011	<0.0001	0.005	0.016
LG_MW02	LG_MW02	WATER	16-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.017	<0.0001	<0.001	<0.001	<0.001	<0.0001	0.001	0.011
LG_MW03	LG_MW03	WATER	16-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.007	<0.0001	<0.001	<0.001	<0.001	<0.0001	0.002	0.016
Statistical Summary																											
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1	1	0	3	3
Minimum Concentration	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.006	<0.0001	<0.001	<0.001	<0.001	<0.0001	0.001	0.011
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	0.002	0.011	ND	0.001	0.011
Maximum Concentration	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.017	<0.0001	<0.001	0.002	0.011	<0.0001	0.005	0.016
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.017	ND	ND	0.002	0.011	ND	0.005	0.016
Average Concentration	0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.01	0.00005	0.0005	0.001	0.004	0.00005	0.0027	0.014
Median Concentration	0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.007	0.00005	0.0005	0.0005	0.0005	0.00005	0.002	0.016
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0061	0	0	0.00087	0.0061	0	0.0021	0.0029
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	3	0	3
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	3

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

																	PAH/Phenols																				MAH							
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1	5	5	5	5	5	5	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																									NL[#7]														
Vapour Intrusion - Commercial Worker - 4-<8 m																									NL[#6]														
Vapour Intrusion - Commercial Worker - 8 m+																									NL[#5]														
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																									NL[#8]														
Drinking Water															0.01[#3]																							30[#3]	
Ecological (Freshwater)		3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]										
Recreational		200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]											300[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																					
LG_MW01	LG_MW01	WATER	16-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5
LG_MW02	LG_MW02	WATER	16-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5
LG_MW03	LG_MW03	WATER	16-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																								
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Median Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
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#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

				Chlorinated Hydrocarbons																												Halogenated Benzenes								
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	50	5	50	5	5	5	5	5	5	5	5	50	5	5	5	5	5	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																																								
Vapour Intrusion - Commercial Worker - 4-<8 m																																								
Vapour Intrusion - Commercial Worker - 8 m+																																								
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																																								
Drinking Water									30[#3]				3[#3]										4[#1]	60[#2]			0.7[#3]		50[#3]	60[#2]		0.3[#3]								
Ecological (Freshwater)				6500[#10]																													3[#9]	85[#9]	160[#10]	260[#10]	60[#10]				
Recreational									300[#4]				30[#4]						30[#4]			19100[#4]	40[#4]	600[#4]			7[#4]	200[#4]	500[#4]	600[#4]		3[#4]	5930[#4]	7430[#4]	15000[#4]		400[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																					
LG_MW01	LG_MW01	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LG_MW02	LG_MW02	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LG_MW03	LG_MW03	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																								
Number of Results				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Median Concentration				2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	3	3	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

			Halogenated Hydrocarbons					Solvents					VOCs			
			1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL			5	50	50	5	50	50	50	50	5	50	5	5	5	
Vapour Intrusion - Commercial Worker - 2-<4 m																
Vapour Intrusion - Commercial Worker - 4-<8 m																
Vapour Intrusion - Commercial Worker - 8 m+																
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																
Drinking Water			1[#3]	1[#3]												
Ecological (Freshwater)																
Recreational			10[#4]	10[#4]												
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**													
LG_MW01	LG_MW01	WATER	16-Dec-13	<5	<50	<50	<5	<50	<50	<50	<50	<5	<50	<5	<5	<5
LG_MW02	LG_MW02	WATER	16-Dec-13	<5	<50	<50	<5	<50	<50	<50	<50	<5	<50	<5	<5	<5
LG_MW03	LG_MW03	WATER	16-Dec-13	<5	<50	<50	<5	<50	<50	<50	<50	<5	<50	<5	<5	<5
Statistical Summary																
Number of Results				3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<5	<50	<50	<5	<50	<50	<50	<50	<5	<50	<5	<5	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<5	<50	<50	<5	<50	<50	<50	<50	<5	<50	<5	<5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				2.5	25	25	2.5	25	25	25	25	2.5	25	2.5	2.5	2.5
Median Concentration				2.5	25	25	2.5	25	25	25	25	2.5	25	2.5	2.5	2.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				3	3	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5h. AEC LH Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

	TRH												BTEX							Metals							
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.001	0.0001	0.001	0.001	0.001	0.0001	0.001	0.005
Vapour Intrusion - Commercial Worker - 2-<4 m	6 [#7]	NL [#7]											5000 [#7]	NL [#7]	NL [#7]			NL [#7]										
Vapour Intrusion - Commercial Worker - 4-<8 m	6 [#6]	NL [#6]											5000 [#6]	NL [#6]	NL [#6]			NL [#6]										
Vapour Intrusion - Commercial Worker - 8 m+	7 [#5]	NL [#5]											5000 [#5]	NL [#5]	NL [#5]			NL [#5]										
Vapour Intrusion - Intrusive Maint Worker 2m -8m+	NL [#8]	NL [#8]											NL [#8]	NL [#8]	NL [#8]			NL [#8]										
Drinking Water													1 [#3]	800 [#3]	300 [#3]			600 [#3]		0.01 [#3]	0.002 [#3]	0.05 [#3]	2 [#3]	0.01 [#3]	0.001 [#3]	0.02 [#3]	
Ecological (Freshwater)													950 [#10]			350 [#10]					0.0002 [#10]		0.0014 [#10]	0.0034 [#10]	0.00006 [#9]	0.011 [#10]	0.008 [#10]
Recreational													10 [#4]	8000 [#4]	3000 [#4]			6000 [#4]		0.1 [#4]	0.02 [#4]	0.5 [#4]	20 [#4]	0.1 [#4]	0.01 [#4]	0.2 [#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LH_MW01	LH_MW01	WATER	12-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	<0.0001	<0.001	<0.001	<0.001	<0.0001	0.011	0.006
LH_MW02	LH_MW02	WATER	12-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	<0.0001	<0.001	0.002	<0.001	<0.0001	0.008	0.02
LH_MW03	LH_MW03	WATER	12-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	0.0003	<0.001	0.004	<0.001	<0.0001	0.018	0.036
Statistical Summary																											
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	2	0	0	3	3
Minimum Concentration	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.0001	0.008	0.006
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0003	ND	0.002	ND	ND	0.008	0.006
Maximum Concentration	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	0.0003	<0.001	0.004	<0.001	<0.0001	0.018	0.036
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0003	ND	0.004	ND	ND	0.018	0.036
Average Concentration	0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.00083	0.00013	0.0005	0.0022	0.0005	0.00005	0.012	0.021
Median Concentration	0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.001	0.00005	0.0005	0.002	0.0005	0.00005	0.011	0.02
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00029	0.00014	0	0.0018	0	0	0.0051	0.015
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	3	2	2
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	2	2

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	PAH/Phenols																														
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																									NL[#7]					
Vapour Intrusion - Commercial Worker - 4-<8 m																									NL[#6]					
Vapour Intrusion - Commercial Worker - 8 m+																									NL[#5]					
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																									NL[#8]					
Drinking Water															0.01[#3]															
Ecological (Freshwater)		3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]	
Recreational		200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]			
Location Code **Field ID** **Matrix Type** **Sampled Date**																														
LH_MW01 LH_MW01 WATER 12-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LH_MW02 LH_MW02 WATER 12-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LH_MW03 LH_MW03 WATER 12-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Statistical Summary																														
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Median Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5i. AEC LI Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

| | | |

				PAH/Phenols																																					
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																												NL[#7]													
Vapour Intrusion - Commercial Worker - 4-<8 m																												NL[#6]													
Vapour Intrusion - Commercial Worker - 8 m+																												NL[#5]													
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																												NL[#8]													
Drinking Water																			0.01[#3]																							
Ecological (Freshwater)					3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]									
Recreational					200[#4]	2000[#4]			3000[#4]										0.1[#4]											100[#4]												
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																						
LI_MW01	LI_MW01	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LI_MW02	LI_MW02	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LI_MW03	LI_MW03	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LI_MW04	LI_MW04	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LI_MW05	LI_MW05	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LI_MW06	LI_MW06	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LI_MW07	LI_MW07	WATER	30-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LI_MW08	LI_MW08	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.6	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LI_MW09	LI_MW09	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Statistical Summary																																									
Number of Results				9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<0.6	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.26	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Median Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indust
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indust
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indust
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	TRH												BTEX							Metals							
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.0002	0.00005	0.0002	0.0005	0.0001	0.0001	0.0005	0.001
Vapour Intrusion - Commercial Worker - 2-<4 m	6 [#7]	NL [#7]											5000 [#7]	NL [#7]	NL [#7]			NL [#7]										
Vapour Intrusion - Commercial Worker - 4-<8 m	6 [#6]	NL [#6]											5000 [#6]	NL [#6]	NL [#6]			NL [#6]										
Vapour Intrusion - Commercial Worker - 8 m+	7 [#5]	NL [#5]											5000 [#5]	NL [#5]	NL [#5]			NL [#5]										
Vapour Intrusion - Intrusive Maint Worker 2m -8m+	NL [#8]	NL [#8]											NL [#8]	NL [#8]	NL [#8]			NL [#8]										
Drinking Water													1 [#3]	800 [#3]	300 [#3]			600 [#3]		0.01 [#3]	0.002 [#3]	0.05 [#3]	2 [#3]	0.01 [#3]	0.001 [#3]	0.02 [#3]	
Ecological (Freshwater)													950 [#10]			350 [#10]					0.0002 [#10]		0.0014 [#10]	0.0034 [#10]	0.00006 [#9]	0.011 [#10]	0.008 [#10]
Recreational													10 [#4]	8000 [#4]	3000 [#4]			6000 [#4]		0.1 [#4]	0.02 [#4]	0.5 [#4]	20 [#4]	0.1 [#4]	0.01 [#4]	0.2 [#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LJ_MW01	LJ_MW01	WATER	16-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0018	<0.00005	<0.0002	<0.0005	<0.0001	<0.0001	0.0046	0.013
LJ_MW02	LJ_MW02	WATER	10-Dec-13	<0.02	0.29	<20	160	310	<50	470 - 495	470	0.29	0.18	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	<0.0001	<0.001	0.002	0.14	<0.0001	0.015	0.019
LJ_MW04	LJ_MW04	WATER	10-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	0.0003	<0.001	0.003	0.038	<0.0001	0.025	0.032
Statistical Summary																											
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	1	0	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	2	1	0	2	2	0	3	3
Minimum Concentration	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	<0.00005	<0.0002	<0.0005	<0.0001	<0.0001	0.0046	0.013
Minimum Detect	ND	0.29	ND	160	310	ND	470	470	0.29	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.0003	ND	0.002	0.038	ND	0.0046	0.013
Maximum Concentration	<0.02	0.29	<20	160	310	<50	495	470	0.29	0.18	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0018	0.0003	<0.001	0.003	0.14	<0.0001	0.025	0.032
Maximum Detect	ND	0.29	ND	160	310	ND	495	470	0.29	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0018	0.0003	ND	0.003	0.14	ND	0.025	0.032
Average Concentration	0.01	0.13	10	70	137	25	178	190	0.13	0.093	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.0011	0.00013	0.00037	0.0018	0.059	0.00005	0.015	0.021
Median Concentration	0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.001	0.00005	0.0005	0.002	0.038	0.00005	0.015	0.019
Standard Deviation	0	0.14	0	78	150	0	264	242	0.14	0.075	0	0	0	0	0	0	0	0	0	0.00066	0.00015	0.00023	0.0014	0.072	0	0.01	0.0097
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	3	2	3
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	2	3

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	PAH/Phenols																										MAH									
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1	5	5	5	5	5	5	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																									NL[#7]												
Vapour Intrusion - Commercial Worker - 4-<8 m																									NL[#6]												
Vapour Intrusion - Commercial Worker - 8 m+																									NL[#5]												
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																									NL[#8]												
Drinking Water															0.01[#3]																					30[#3]	
Ecological (Freshwater)		3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]								
Recreational		200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]									300[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																		
LJ_MW01	LJ_MW01	WATER	16-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LJ_MW02	LJ_MW02	WATER	10-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LJ_MW04	LJ_MW04	WATER	10-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																							
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Median Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
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#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	Chlorinated Hydrocarbons																												Halogenated Benzenes								
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	50	5	50	5	5	5	5	5	5	5	5	50	5	5	5	5	5	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																																					
Vapour Intrusion - Commercial Worker - 4-<8 m																																					
Vapour Intrusion - Commercial Worker - 8 m+																																					
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																																					
Drinking Water						30[#3]				3[#3]										4[#1]	60[#2]			0.7[#3]		50[#3]	60[#2]		0.3[#3]								
Ecological (Freshwater)				6500[#10]																									3[#9]	85[#9]	160[#10]	260[#10]	60[#10]				
Recreational						300[#4]				30[#4]						30[#4]			19100[#4]	40[#4]	600[#4]			7[#4]	200[#4]	500[#4]	600[#4]		3[#4]	5930[#4]	7430[#4]	15000[#4]		400[#4]				

Location Code	Field ID	Matrix Type	Sampled Date																																				
LJ_MW01	LJ_MW01	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5
LJ_MW02	LJ_MW02	WATER	10-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5
LJ_MW04	LJ_MW04	WATER	10-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5

Statistical Summary

Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Median Concentration	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	Halogenated Hydrocarbons					Polychlorinated Biphenyls	Solvents					VOCs		
	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	PCBs (Sum of total)	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	5	50	50	5	50	1	50	50	50	5	50	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m														
Vapour Intrusion - Commercial Worker - 4-<8 m														
Vapour Intrusion - Commercial Worker - 8 m+														
Vapour Intrusion - Intrusive Maint Worker 2m -8m+														
Drinking Water	1 [#3]	1 [#3]												
Ecological (Freshwater)														
Recreational	10 [#4]	10 [#4]												
Location Code **Field ID** **Matrix Type** **Sampled Date**														
LJ_MW01 LJ_MW01 WATER 16-Dec-13	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
LJ_MW02 LJ_MW02 WATER 10-Dec-13	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
LJ_MW04 LJ_MW04 WATER 10-Dec-13	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
Statistical Summary														
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	2.5	25	25	2.5	25	0.5	25	25	25	2.5	25	2.5	2.5	2.5
Median Concentration	2.5	25	25	2.5	25	0.5	25	25	25	2.5	25	2.5	2.5	2.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	3	3	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

ERM

Table 5l. AEC LL Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

	TRH												BTEX							Metals							
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.0002	0.00005	0.0002	0.0005	0.0001	0.0001	0.0005	0.001
Vapour Intrusion - Commercial Worker - 2-<4 m	6 [#7]	NL [#7]											5000 [#7]	NL [#7]	NL [#7]			NL [#7]										
Vapour Intrusion - Commercial Worker - 4-<8 m	6 [#6]	NL [#6]											5000 [#6]	NL [#6]	NL [#6]			NL [#6]										
Vapour Intrusion - Commercial Worker - 8 m+	7 [#5]	NL [#5]											5000 [#5]	NL [#5]	NL [#5]			NL [#5]										
Vapour Intrusion - Intrusive Maint Worker 2m -8m+	NL [#8]	NL [#8]											NL [#8]	NL [#8]	NL [#8]			NL [#8]										
Drinking Water													1 [#3]	800 [#3]	300 [#3]			600 [#3]		0.01 [#3]	0.002 [#3]	0.05 [#3]	2 [#3]	0.01 [#3]	0.001 [#3]	0.02 [#3]	
Ecological (Freshwater)													950 [#10]			350 [#10]					0.0002 [#10]		0.0014 [#10]	0.0034 [#10]	0.00006 [#9]	0.011 [#10]	0.008 [#10]
Recreational													10 [#4]	8000 [#4]	3000 [#4]			6000 [#4]		0.1 [#4]	0.02 [#4]	0.5 [#4]	20 [#4]	0.1 [#4]	0.01 [#4]	0.2 [#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LL_MW01	LL_MW01	WATER	11-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.004	<0.0001	<0.001	0.002	<0.001	<0.0001	0.038	0.044
LL_MW02	LL_MW02	WATER	18-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	3	3	<2	<2	<2	<2	0.006	0.0121	<0.00005	0.0004	0.001	0.0002	<0.0001	0.0958	0.025
LL_MW03	LL_MW03	WATER	18-Dec-13	<0.02	<0.1	30	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	0.03	8	6	<2	<2	<2	<2	0.014	0.0128	<0.00005	0.0003	<0.0005	<0.0001	<0.0001	0.17	0.001
LL_MW06	LL_MW06	WATER	06-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	0.00015	<0.0002	0.0032	0.0002	<0.0001	0.0311	0.053
LL_MW07	LL_MW07	WATER	06-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0019	0.00039	<0.0002	0.0028	0.0002	<0.0001	0.0349	0.052
LL_MW09	LL_MW09	WATER	11-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.013	<0.0001	<0.001	0.002	<0.001	<0.0001	0.012	0.041
Statistical Summary																											
Number of Results	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detects	0	0	1	0	0	0	0	0	0	0	0	1	2	2	0	0	0	0	2	6	2	2	5	3	0	6	6
Minimum Concentration	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	<0.00005	<0.0002	<0.0005	<0.0001	<0.0001	0.012	0.001
Minimum Detect	ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	0.03	3	3	ND	ND	ND	ND	0.006	0.001	0.00015	0.0003	0.001	0.0002	ND	0.012	0.001
Maximum Concentration	<0.02	<0.1	30	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	0.03	8	6	<2	<2	<2	<2	0.014	0.013	0.00039	<0.001	0.0032	<0.001	<0.0001	0.17	0.053
Maximum Detect	ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	0.03	8	6	ND	ND	ND	ND	0.014	0.013	0.00039	0.0004	0.0032	0.0002	ND	0.17	0.053
Average Concentration	0.01	0.05	13	25	50	25	25	50	0.05	0.05	0.05	0.013	2.2	2.2	1	1	1	1	0.0037	0.0075	0.00012	0.00032	0.0019	0.00028	0.00005	0.064	0.036
Median Concentration	0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.00805	0.00005	0.00035	0.002	0.0002	0.00005	0.03645	0.0425
Standard Deviation	0	0	8.2	0	0	0	0	0	0	0	0	0.0082	3	2	0	0	0	0	0.0055	0.0058	0.00014	0.00018	0.0011	0.00018	0	0.059	0.02
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	6	6	5
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	6	5

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	PAH/Phenols																												Polychlorinated Biphenyls
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	PCBs (Sum of total)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																									NL[#7]						
Vapour Intrusion - Commercial Worker - 4-<8 m																									NL[#6]						
Vapour Intrusion - Commercial Worker - 8 m+																									NL[#5]						
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																									NL[#8]						
Drinking Water															0.01[#3]																
Ecological (Freshwater)		3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]		
Recreational		200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																												
LL_MW01	LL_MW01	WATER	11-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
LL_MW02	LL_MW02	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
LL_MW03	LL_MW03	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<5 - 1.1	1.1	<2	<1	2.2	<1	<1
LL_MW06	LL_MW06	WATER	06-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
LL_MW07	LL_MW07	WATER	06-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
LL_MW09	LL_MW09	WATER	11-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
Statistical Summary																																	
Number of Results	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0
Minimum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	2.2	ND	ND
Maximum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	1.1	1.1	<2	<1	2.2	<1	<1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	1.1	ND	ND	2.2	ND	ND
Average Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.72	0.39	1	0.5	0.78	0.5	0.5
Median Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	0.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.53	0.35	0	0	0.69	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
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#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5m. AEC LM Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

				TRH											BTEX							Metals																	
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Lead (Filtered)	Manganese (Filtered)	Mercury (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Selenium (Filtered)	Thallium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)
				mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.0002	0.0005	0.0001	0.005	0.00005	0.0002	0.0001	0.0005	0.0001	0.0005	0.0001	0.0001	0.0005	0.0002	0.00002	0.0002	0.001
Vapour Intrusion - Commercial Worker - 2-<4 m				6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]																			
Vapour Intrusion - Commercial Worker - 4-<8 m				6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]																			
Vapour Intrusion - Commercial Worker - 8 m+				7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]																			
Vapour Intrusion - Intrusive Maint Worker 2m -8m+				NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]																			
Drinking Water																1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]				0.002[#3]	0.05[#3]		2[#3]	0.01[#3]		0.001[#3]		0.02[#3]	0.01[#3]			
Ecological (Freshwater)																950[#10]			350[#10]						0.37[#10]	0.0002[#10]			0.0014[#10]	0.0034[#10]	1.9[#10]	0.00006[#9]		0.011[#10]	0.005[#9]			0.008[#10]
Recreational																10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]				0.02[#4]	0.5[#4]		20[#4]	0.1[#4]		0.01[#4]		0.2[#4]	0.1[#4]			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																				
LM_MW01	LM_MW01	WATER	26-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0021	0.0667	<0.0001	0.083	0.001	<0.0002	0.0399	0.0016	0.0484	1.24	<0.0001	0.008	0.0517	0.007	0.00077	0.0026	0.01
LM_MW02	LM_MW02	WATER	26-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0008	0.0316	<0.0001	0.068	0.00046	<0.0002	0.0219	0.0006	0.016	1.13	<0.0001	0.0033	0.0364	0.001	0.00026	0.001	0.01
Statistical Summary																																							
Number of Results				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	2	2	0	2	2	2	2	0	2	2	2	2	2	2
Minimum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0008	0.0316	<0.0001	0.068	0.00046	<0.0002	0.0219	0.0006	0.016	1.13	<0.0001	0.0033	0.0364	0.001	0.00026	0.001	0.01
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0008	0.0316	ND	0.068	0.00046	ND	0.0219	0.0006	0.016	1.13	ND	0.0033	0.0364	0.001	0.00026	0.001	0.01
Maximum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0021	0.0667	<0.0001	0.083	0.001	<0.0002	0.0399	0.0016	0.0484	1.24	<0.0001	0.008	0.0517	0.007	0.00077	0.0026	0.01
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0021	0.0667	ND	0.083	0.001	ND	0.0399	0.0016	0.0484	1.24	ND	0.008	0.0517	0.007	0.00077	0.0026	0.01
Average Concentration																																								
Median Concentration				0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.00145	0.04915	0.00005	0.0755	0.00073	0.0001	0.0309	0.0011	0.0322	1.185	0.00005	0.00565	0.04405	0.004	0.000515	0.0018	0.01
Standard Deviation																																								
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	2	0	2	0	2	1	0	0	2
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	2	0	0	0	2	1	0	0	2

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

				PAH/Phenols																														
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	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	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																												NL[#7]						
Vapour Intrusion - Commercial Worker - 4-<8 m																												NL[#6]						
Vapour Intrusion - Commercial Worker - 8 m+																												NL[#5]						
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																												NL[#8]						
Drinking Water																		0.01[#3]																
Ecological (Freshwater)					3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]		
Recreational					200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																															
LM_MW01	LM_MW01	WATER	26-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LM_MW02	LM_MW02	WATER	26-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Statistical Summary																																		
Number of Results				2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																		
Median Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation																																		
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indu
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indu
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indu
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

			TRH										BTEX							Metals									
			C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
			mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL			0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.001	0.0001	0.001	0.001	0.001	0.0001	0.001	0.005
Vapour Intrusion - Commercial Worker - 2-<4 m			6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]									
Vapour Intrusion - Commercial Worker - 4-<8 m			6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]									
Vapour Intrusion - Commercial Worker - 8 m+			7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]									
Vapour Intrusion - Intrusive Maint Worker 2m -8m+			NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]									
Drinking Water															1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]	0.002[#3]	0.05[#3]	2[#3]	0.01[#3]	0.001[#3]	0.02[#3]	
Ecological (Freshwater)															950[#10]			350[#10]					0.0002[#10]		0.0014[#10]	0.0034[#10]	0.00006[#9]	0.011[#10]	0.008[#10]
Recreational															10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]	0.02[#4]	0.5[#4]	20[#4]	0.1[#4]	0.01[#4]	0.2[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																										
LN_MW01	LN_MW01	WATER	27-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	0.0001	<0.001	0.002	<0.001	<0.0001	0.024	0.025
LN_MW02	LN_MW02	WATER	27-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	<0.0001	<0.001	0.001	<0.001	<0.0001	0.007	0.007
LN_MW04	LN_MW04	WATER	28-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	-	-	-	-	-	<0.0001	-	-
LN_MW05	LN_MW05	WATER	27-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	<0.0001	<0.001	0.002	<0.001	<0.0001	0.01	0.014
LN_MW06	LN_MW06	WATER	27-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	0.0001	<0.001	0.002	<0.001	<0.0001	0.01	0.02
LN_MW07	LN_MW07	WATER	27-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	0.0004	<0.001	0.002	<0.001	<0.0001	0.009	0.031
Statistical Summary																													
Number of Results				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	6	5	5
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	5	0	0	5	5
Minimum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	<0.0001	<0.001	0.001	<0.001	<0.0001	0.007	0.007
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0001	ND	0.001	ND	ND	0.007	0.007
Maximum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	0.0004	<0.001	0.002	<0.001	<0.0001	0.024	0.031
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0004	ND	0.002	ND	ND	0.024	0.031
Average Concentration				0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.0005	0.00014	0.0005	0.0018	0.0005	0.00005	0.012	0.019
Median Concentration				0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.0005	0.0001	0.0005	0.002	0.0005	0.00005	0.01	0.02
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00015	0	0.00045	0	0	0.0068	0.0093
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0	6	1	4
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0	0	1	4

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

						PAH/Phenols																									MAH								
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1	5	5	5	5	5	5	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																												NL[#7]														
Vapour Intrusion - Commercial Worker - 4-<8 m																												NL[#6]														
Vapour Intrusion - Commercial Worker - 8 m+																												NL[#5]														
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																												NL[#8]														
Drinking Water																		0.01[#3]																							30[#3]		
Ecological (Freshwater)					3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]									300[#4]		
Recreational					200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]											300[#4]		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																						
LN_MW01	LN_MW01	WATER	27-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LN_MW02	LN_MW02	WATER	27-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LN_MW04	LN_MW04	WATER	28-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LN_MW05	LN_MW05	WATER	27-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LN_MW06	LN_MW06	WATER	27-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LN_MW07	LN_MW07	WATER	27-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																									
Number of Results				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Median Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

				Chlorinated Hydrocarbons																												Halogenated Benzenes								
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	50	5	50	5	5	5	5	5	5	5	5	50	5	5	5	5	5	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																																								
Vapour Intrusion - Commercial Worker - 4-<8 m																																								
Vapour Intrusion - Commercial Worker - 8 m+																																								
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																																								
Drinking Water									30[#3]				3[#3]										4[#1]	60[#2]			0.7[#3]		50[#3]	60[#2]		0.3[#3]								
Ecological (Freshwater)				6500[#10]																													3[#9]	85[#9]	160[#10]	260[#10]	60[#10]				
Recreational									300[#4]				30[#4]						30[#4]			19100[#4]	40[#4]	600[#4]			7[#4]	200[#4]	500[#4]	600[#4]		3[#4]	5930[#4]	7430[#4]	15000[#4]		400[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																					
LN_MW01	LN_MW01	WATER	27-Nov-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LN_MW02	LN_MW02	WATER	27-Nov-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LN_MW04	LN_MW04	WATER	28-Nov-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LN_MW05	LN_MW05	WATER	27-Nov-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LN_MW06	LN_MW06	WATER	27-Nov-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LN_MW07	LN_MW07	WATER	27-Nov-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																								
Number of Results				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Median Concentration				2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6	0	0	0	6	6	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
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#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	Halogenated Hydrocarbons					Polychlorinated Biphenyls	Solvents					VOCs		
	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	PCBs (Sum of total)	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	5	50	50	5	50	1	50	50	50	5	50	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m														
Vapour Intrusion - Commercial Worker - 4-<8 m														
Vapour Intrusion - Commercial Worker - 8 m+														
Vapour Intrusion - Intrusive Maint Worker 2m -8m+														
Drinking Water	1 [#3]	1 [#3]												
Ecological (Freshwater)														
Recreational	10 [#4]	10 [#4]												
Location Code **Field ID** **Matrix Type** **Sampled Date**														
LN_MW01 LN_MW01 WATER 27-Nov-13	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
LN_MW02 LN_MW02 WATER 27-Nov-13	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
LN_MW04 LN_MW04 WATER 28-Nov-13	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
LN_MW05 LN_MW05 WATER 27-Nov-13	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
LN_MW06 LN_MW06 WATER 27-Nov-13	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
LN_MW07 LN_MW07 WATER 27-Nov-13	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
Statistical Summary														
Number of Results	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<5	<50	<50	<5	<50	<1	<50	<50	<50	<5	<50	<5	<5	<5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	2.5	25	25	2.5	25	0.5	25	25	25	2.5	25	2.5	2.5	2.5
Median Concentration	2.5	25	25	2.5	25	0.5	25	25	25	2.5	25	2.5	2.5	2.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	6	6	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
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#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
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#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industr
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

				TRH											BTEX							Metals									
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
				mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.0002	0.00005	0.0002	0.0005	0.0001	0.0001	0.0005	0.001
Vapour Intrusion - Commercial Worker - 2-<4 m				6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]										
Vapour Intrusion - Commercial Worker - 4-<8 m				6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]										
Vapour Intrusion - Commercial Worker - 8 m+				7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]										
Vapour Intrusion - Intrusive Maint Worker 2m -8m+				NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]										
Drinking Water																1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]	0.002[#3]	0.05[#3]	2[#3]	0.01[#3]	0.001[#3]	0.02[#3]		
Ecological (Freshwater)																950[#10]			350[#10]					0.0002[#10]		0.0014[#10]	0.0034[#10]	0.00006[#9]	0.011[#10]	0.008[#10]	
Recreational																10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]	0.02[#4]	0.5[#4]	20[#4]	0.1[#4]	0.01[#4]	0.2[#4]		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																												
LO_MW01	LO_MW01	WATER	16-Dec-13	<0.02	<0.1	<20	<50	780	80	860 - 885	830	<0.1	0.83	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0068	0.00043	0.0017	<0.0005	0.0012	<0.0001	0.171	0.082
LO_MW02	LO_MW02	WATER	17-Dec-13	<0.02	0.5	<20	240	1090	<50	1330 - 1355	1330	0.5	0.83	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	<0.00005	<0.0002	0.0012	0.0001	<0.0001	0.0041	0.016
LO_MW03	LO_MW03	WATER	13-Dec-13	0.62	<0.1	600	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	0.62	<1	<2	<2	<2	<2	<2	<0.001	0.0003	0.00018	0.0003	0.0012	0.0016	<0.0001	0.0197	0.009
LO_MW03	LO_MW03	WATER	16-Dec-13	0.52	<0.1	520	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	0.52	<1	<2	<2	<2	<2	<2	<0.001	<0.0002	0.00017	<0.0002	0.0019	0.0057	<0.0001	0.0194	0.019
LO_MW04	LO_MW04	WATER	16-Dec-13	<0.02	0.17	<20	70	180	<50	250 - 275	170	0.17	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	<0.00005	<0.0002	0.0015	0.001	<0.0001	0.0188	0.022
LO_MW05	LO_MW05	WATER	16-Dec-13	0.19	0.72	150	610	630	<50	1240 - 1265	1180	0.82	0.36	<0.1	0.24	17 - 18	<2	16	15	<2	15 - 16	0.049	0.001	0.0005	<0.001	0.001	0.001	<0.0001	0.136	0.049
LO_MW06	LO_MW06	WATER	16-Dec-13	0.11	0.59	90	460	320	<50	780 - 805	750	0.61	0.14	<0.1	0.14	<1	<2	4 - 5	10	14 - 15	24 - 25	0.028	0.002	<0.0001	<0.001	0.002	<0.001	<0.0001	0.011	0.025
LO_MW08	LO_MW08	WATER	17-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0008	0.00615	0.0002	0.0015	0.0027	<0.0001	0.319	0.212
LO_MW10	LO_MW10	WATER	16-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.0002	0.0004	<0.0002	0.0013	0.0054	<0.0001	0.0323	0.018
LO_MW11	LO_MW11	WATER	17-Dec-13	<0.02	0.14	<20	<50	370	<50	370 - 420	420	0.14	0.28	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.006	<0.0001	<0.001	<0.001	0.055	<0.0001	0.005	0.007
LO_MW12	LO_MW12	WATER	18-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0025	<0.00005	<0.0002	0.0011	0.0018	<0.0001	0.0219	0.014
LO_MW13	LO_MW13	WATER	17-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0071	<0.00005	<0.0002	0.0008	0.0315	<0.0001	0.0065	0.009
LO_MW14	LO_MW14	WATER	17-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0112	<0.00005	<0.0002	<0.0005	<0.0001	<0.0001	0.0017	0.002
LO_MW15	LO_MW15	WATER	13-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0008	0.00018	0.0034	0.0046	0.0004	<0.0001	0.0421	0.164
LO_MW16	LO_MW16	WATER	13-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0006	0.00108	0.0008	0.0041	0.0372	<0.0001	0.0803	0.14
LO_MW17	LO_MW17	WATER	17-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0002	0.00016	<0.0002	0.001	0.0088	<0.0001	0.0109	0.014
Statistical Summary																															
Number of Results				16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects				4	5	4	4	6	1	6	6	5	5	0	4	1	0	2	2	1	2	2	14	9	5	13	14	0	16	16
Minimum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.0002	<0.00005	<0.0002	<0.0005	<0.0001	<0.0001	0.0017	0.002
Minimum Detect				0.11	0.14	90	70	180	80	250	170	0.14	0.14	ND	0.14	17	ND	4	10	14	15	0.028	0.0002	0.00016	0.0002	0.0008	0.0001	ND	0.0017	0.002
Maximum Concentration				0.62	0.72	600	610	1090	80	1355	1330	0.82	0.83	<0.1	0.62	18	<2	16	15	15	25	0.049	0.0112	0.00615	0.0034	0.0046	0.055	<0.0001	0.319	0.212
Maximum Detect				0.62	0.72	600	610	1090	80	1355	1330	0.82	0.83	ND	0.62	18	ND	16	15	15	25	0.049	0.0112	0.00615	0.0034	0.0046	0.055	ND	0.319	0.212
Average Concentration				0.098	0.17	93	105	242	28	323	324	0.17	0.19	0.05	0.1	1.6	1	2.2	2.4	1.8	3.4	0.0053	0.0026	0.00059	0.00054	0.0015	0.0096	0.00005	0.056	0.05
Median Concentration				0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.001	0.000165	0.00015	0.0012	0.0017	0.00005	0.01955	0.0185
Standard Deviation				0.19	0.22	187	178	322	14	471	445	0.24	0.27	0	0.19	4.3	0	3.8	4	3.4	6.7	0.014	0.0033	0.0015	0.00087	0.0012	0.016	0	0.086	0.065
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	6	6	16	11	14
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	6	6	0	11	14

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	PAH/Phenols																												MAH									
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1	5	5	5	5	5	5	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																									NL[#7]													
Vapour Intrusion - Commercial Worker - 4-<8 m																									NL[#6]													
Vapour Intrusion - Commercial Worker - 8 m+																									NL[#5]													
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																									NL[#8]													
Drinking Water															0.01[#3]																						30[#3]	
Ecological (Freshwater)		3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]									
Recreational		200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]										300[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																			
LO_MW01	LO_MW01	WATER	16-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	1.3	<1	<1	3.5	<2	2.2	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW02	LO_MW02	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	3.8	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.8	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW03	LO_MW03	WATER	13-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW03	LO_MW03	WATER	16-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW04	LO_MW04	WATER	16-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	1.7	<1	<1	1.7	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW05	LO_MW05	WATER	16-Dec-13	<1	<1	<1	<1	<1	<1	2.7	<1	5.8	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	4.5 - 105	4.5	<2	<1	<1	<1	33	21	6	<5	7	5	<5	<5	<5
LO_MW06	LO_MW06	WATER	16-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	2	1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	4.5	<1	12.6 - 22	25.5	<2	5.4	<1	<1	21	7	6	<5	6	<5	6	<5	<5
LO_MW08	LO_MW08	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW10	LO_MW10	WATER	16-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW11	LO_MW11	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW12	LO_MW12	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW13	LO_MW13	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW14	LO_MW14	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW15	LO_MW15	WATER	13-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW16	LO_MW16	WATER	13-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW17	LO_MW17	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																									
Number of Results	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects	0	0	0	0	0	0	1	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	5	0	2	0	0	2	2	2	0	2	1	1	0	0
Minimum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect	ND	ND	ND	ND	ND	ND	2.7	ND	5.8	ND	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	4.5	1.7	ND	2.2	ND	ND	21	7	6	ND	6	5	6	ND	ND
Maximum Concentration	<1	<1	<1	<1	<1	<1	2.7	<1	5.8	<1	3.8	1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	4.5	<1	105	25.5	<2	5.4	<1	<1	33	21	6	<5	7	5	6	<5	<5
Maximum Detect	ND	ND	ND	ND	ND	ND	2.7	ND	5.8	ND	3.8	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.5	ND	105	25.5	ND	5.4	ND	ND	33	21	6	ND	7	5	6	ND	ND
Average Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.64	0.5	1.3	0.5	0.8	0.53	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.88	0.5	4.9	2.6	1	0.91	0.5	0.5	5.6	3.9	2.9	2.5	3	2.7	2.7	2.5	2.5
Median Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation	0	0	0	0	0	0	0.55	0	1.2	0	0.88	0.13	0	0	0	0	0	0	0	0	0	0	0	0	1	0	14	6.3	0	1.3	0	0	8.7	4.7	1.2	0	1.4	0.63	0.88	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	Chlorinated Hydrocarbons																											Halogenated Benzenes								
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	50	5	50	5	5	5	5	5	5	5	5	50	5	5	5	5	5	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																																					
Vapour Intrusion - Commercial Worker - 4-<8 m																																					
Vapour Intrusion - Commercial Worker - 8 m+																																					
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																																					
Drinking Water						30[#3]				3[#3]										4[#1]	60[#2]			0.7[#3]		50[#3]	60[#2]		0.3[#3]								
Ecological (Freshwater)				6500[#10]																									3[#9]	85[#9]	160[#10]	260[#10]	60[#10]				
Recreational						300[#4]				30[#4]						30[#4]			19100[#4]	40[#4]	600[#4]			7[#4]	200[#4]	500[#4]	600[#4]		3[#4]	5930[#4]	7430[#4]	15000[#4]		400[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																			
LO_MW01	LO_MW01	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW02	LO_MW02	WATER	17-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW03	LO_MW03	WATER	13-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	49	<5	<5	<5	78	343	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5
LO_MW03	LO_MW03	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	48	<5	<5	<5	78	334	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5
LO_MW04	LO_MW04	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW05	LO_MW05	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	18	<5	<5	<5	<5	<5
LO_MW06	LO_MW06	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	13	<5	<5	<5	<5	10
LO_MW08	LO_MW08	WATER	17-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW10	LO_MW10	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW11	LO_MW11	WATER	17-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW12	LO_MW12	WATER	18-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW13	LO_MW13	WATER	17-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW14	LO_MW14	WATER	17-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW15	LO_MW15	WATER	13-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW16	LO_MW16	WATER	13-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
LO_MW17	LO_MW17	WATER	17-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																					
Number of Results	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	1
Minimum Concentration	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	48	ND	ND	ND	78	334	ND	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	10
Maximum Concentration	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	49	<5	<5	<5	78	343	<5	<5	<50	<5	<5	18	<5	<5	<5	<5	<5	10
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49	ND	ND	ND	78	343	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	10
Average Concentration	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	25	8.3	2.5	2.5	2.5	12	45	2.5	2.5	25	2.5	2.5	4.1	2.5	2.5	2.5	2.5	2.5	3
Median Concentration	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	26	115	0	0	0	0	0	4.5	0	0	0	0	0	1.9
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16	0	0	0	16	0	2	0	0	16	16	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	Halogenated Hydrocarbons					PFOA	PFOS		Polychlorinated Biphenyls	Solvents					VOCs		
	1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	Perfluorooctanoate	6:2 Fluorotelomer Sulfonate (6:2 FtS)	PFOS	PCBs (Sum of total)	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene
	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	5	50	50	5	50	0.00002	0.0001	0.00002	1	50	50	50	5	50	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																	
Vapour Intrusion - Commercial Worker - 4-<8 m																	
Vapour Intrusion - Commercial Worker - 8 m+																	
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																	
Drinking Water	1[#3]	1[#3]															
Ecological (Freshwater)																	
Recreational	10[#4]	10[#4]															

Location Code	Field ID	Matrix Type	Sampled Date																	
LO_MW01	LO_MW01	WATER	16-Dec-13	<5	<50	<50	<5	<50	<0.00002	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW02	LO_MW02	WATER	17-Dec-13	<5	<50	<50	<5	<50	0.00002	<0.0001	0.00008	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW03	LO_MW03	WATER	13-Dec-13	<5	<50	<50	<5	<50	0.00005	<0.0001	0.00009	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW03	LO_MW03	WATER	16-Dec-13	<5	<50	<50	<5	<50	0.00008	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW04	LO_MW04	WATER	16-Dec-13	<5	<50	<50	<5	<50	<0.00002	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW05	LO_MW05	WATER	16-Dec-13	<5	<50	<50	<5	<50	<0.00002	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW06	LO_MW06	WATER	16-Dec-13	<5	<50	<50	<5	<50	0.00023	<0.0001	0.00043	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW08	LO_MW08	WATER	17-Dec-13	<5	<50	<50	<5	<50	<0.00002	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW10	LO_MW10	WATER	16-Dec-13	<5	<50	<50	<5	<50	<0.00002	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW11	LO_MW11	WATER	17-Dec-13	<5	<50	<50	<5	<50	<0.00002	<0.0001	0.00004	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW12	LO_MW12	WATER	18-Dec-13	<5	<50	<50	<5	<50	<0.00002	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW13	LO_MW13	WATER	17-Dec-13	<5	<50	<50	<5	<50	0.00003	<0.0001	0.00009	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW14	LO_MW14	WATER	17-Dec-13	<5	<50	<50	<5	<50	0.00008	<0.0001	0.00006	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW15	LO_MW15	WATER	13-Dec-13	<5	<50	<50	<5	<50	<0.00002	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW16	LO_MW16	WATER	13-Dec-13	<5	<50	<50	<5	<50	<0.00002	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5
LO_MW17	LO_MW17	WATER	17-Dec-13	<5	<50	<50	<5	<50	<0.00002	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5

Statistical Summary

Number of Results	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Number of Detects	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<5	<50	<50	<5	<50	<0.00002	<0.0001	<0.00002	<1	<50	<50	<50	<5	<50	<5	<5	<5	<5
Minimum Detect	ND	ND	ND	ND	ND	0.00002	ND	0.00004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<5	<50	<50	<5	<50	0.00023	<0.0001	0.00043	<1	<50	<50	<50	<5	<50	<5	<5	<5	<5
Maximum Detect	ND	ND	ND	ND	ND	0.00023	ND	0.00043	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	2.5	25	25	2.5	25	0.000037	0.00005	0.000056	0.5	25	25	25	2.5	25	2.5	2.5	2.5	2.5
Median Concentration	2.5	25	25	2.5	25	0.00001	0.00005	0.00001	0.5	25	25	25	2.5	25	2.5	2.5	2.5	2.5
Standard Deviation	0	0	0	0	0	0.000057	0	0.0001	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5p. AEC LP Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

| | | |

				PAH/Phenols																																			
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	DiBenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																												NL[#7]						
Vapour Intrusion - Commercial Worker - 4-<8 m																												NL[#6]						
Vapour Intrusion - Commercial Worker - 8 m+																												NL[#5]						
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																												NL[#8]						
Drinking Water																		0.01[#3]																		
Ecological (Freshwater)					3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]	
Recreational					200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]					
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																				
LP_MW01	LP_MW01	WATER	28-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LP_MW02	LP_MW02	WATER	28-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LP_MW03	LP_MW03	WATER	28-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5 - 1.6	1.6	<2	<1	<1	<1
LP_MW04	LP_MW04	WATER	28-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LP_MW05	LP_MW05	WATER	28-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LP_MW06	LP_MW06	WATER	11-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Statistical Summary																																							
Number of Results				6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.6	1.6	<2	<1	<1	<1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	1.6	ND	ND	ND	ND
Average Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.76	0.48	1	0.5	0.5	0.5
Median Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.63	0.55	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

			TRH											BTEX							Metals								
			C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
			mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL			0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.001	0.0001	0.001	0.001	0.001	0.0001	0.001	0.005
Vapour Intrusion - Commercial Worker - 2-<4 m			6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]									
Vapour Intrusion - Commercial Worker - 4-<8 m			6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]									
Vapour Intrusion - Commercial Worker - 8 m+			7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]									
Vapour Intrusion - Intrusive Maint Worker 2m -8m+			NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]									
Drinking Water															1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]	0.002[#3]	0.05[#3]	2[#3]	0.01[#3]	0.001[#3]	0.02[#3]	
Ecological (Freshwater)															950[#10]			350[#10]					0.0002[#10]		0.0014[#10]	0.0034[#10]	0.00006[#9]	0.011[#10]	0.008[#10]
Recreational															10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]	0.02[#4]	0.5[#4]	20[#4]	0.1[#4]	0.01[#4]	0.2[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																										
LQ_MW01	LQ_MW01	WATER	10-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	<0.0001	<0.001	0.002	<0.001	<0.0001	0.005	0.038
LQ_MW03	LQ_MW03	WATER	10-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.003	<0.0001	<0.001	<0.001	<0.001	<0.0001	0.002	0.014
LQ_MW05	LQ_MW05	WATER	12-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.019	0.0002	<0.001	0.004	<0.001	<0.0001	0.036	0.037
LQ_MW06	LQ_MW06	WATER	10-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.027	<0.0001	0.008	0.007	0.006	<0.0001	0.035	0.062
LQ_MW07	LQ_MW07	WATER	10-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.006	<0.0001	<0.001	<0.001	<0.001	<0.0001	0.008	0.01
Statistical Summary																													
Number of Results			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Number of Detects			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	1	3	1	0	5	5
Minimum Concentration			<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.0001	0.002	0.01
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	0.0002	0.008	0.002	0.006	ND	0.002	0.01
Maximum Concentration			<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.027	0.0002	0.008	0.007	0.006	<0.0001	0.036	0.062
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.027	0.0002	0.008	0.007	0.006	ND	0.036	0.062
Average Concentration			0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.011	0.00008	0.002	0.0028	0.0016	0.00005	0.017	0.032
Median Concentration			0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.006	0.00005	0.0005	0.002	0.0005	0.00005	0.008	0.037
Standard Deviation			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.011	0.000067	0.0034	0.0028	0.0025	0	0.017	0.021
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	1	5	2	5
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	1	0	2	5

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	PAH/Phenols																												Polychlorinated Biphenyls
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	PCBs (Sum of total)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																									NL[#7]						
Vapour Intrusion - Commercial Worker - 4-<8 m																									NL[#6]						
Vapour Intrusion - Commercial Worker - 8 m+																									NL[#5]						
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																									NL[#8]						
Drinking Water															0.01[#3]																
Ecological (Freshwater)		3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]		
Recreational		200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																												
LQ_MW01	LQ_MW01	WATER	10-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
LQ_MW03	LQ_MW03	WATER	10-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
LQ_MW05	LQ_MW05	WATER	12-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
LQ_MW06	LQ_MW06	WATER	10-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
LQ_MW07	LQ_MW07	WATER	10-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	-
Statistical Summary																															
Number of Results	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	0.5
Median Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	0.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Ind
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5r. AEC LR Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

	TRH												BTEX							Metals							
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.0002	0.00005	0.0002	0.0005	0.0001	0.0001	0.0005	0.001
Vapour Intrusion - Commercial Worker - 2-<4 m	6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]										
Vapour Intrusion - Commercial Worker - 4-<8 m	6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]										
Vapour Intrusion - Commercial Worker - 8 m+	7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]										
Vapour Intrusion - Intrusive Maint Worker 2m -8m+	NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]										
Drinking Water													1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]	0.002[#3]	0.05[#3]	2[#3]	0.01[#3]	0.001[#3]	0.02[#3]	
Ecological (Freshwater)													950[#10]			350[#10]					0.0002[#10]		0.0014[#10]	0.0034[#10]	0.00006[#9]	0.011[#10]	0.008[#10]
Recreational													10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]	0.02[#4]	0.5[#4]	20[#4]	0.1[#4]	0.01[#4]	0.2[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LR_MW01	LR_MW01	WATER	19-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.032	<0.00005	<0.0002	<0.0005	0.0009	<0.0001	0.0908	<0.001
LR_MW03	LR_MW03	WATER	11-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.033	<0.0001	<0.001	<0.001	<0.001	<0.0001	0.027	0.009
LR_MW04	LR_MW04	WATER	11-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.031	0.0002	0.01	0.004	<0.001	<0.0001	0.046	0.09
Statistical Summary																											
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	1	1	0	3	2
Minimum Concentration	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.031	<0.00005	<0.0002	<0.0005	0.0009	<0.0001	0.027	<0.001
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.031	0.0002	0.01	0.004	0.0009	ND	0.027	0.009
Maximum Concentration	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.033	0.0002	0.01	0.004	<0.001	<0.0001	0.0908	0.09
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.033	0.0002	0.01	0.004	0.0009	ND	0.0908	0.09
Average Concentration	0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.032	0.000092	0.0035	0.0016	0.00063	0.00005	0.055	0.033
Median Concentration	0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.032	0.00005	0.0005	0.0005	0.0005	0.00005	0.046	0.009
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.001	0.000095	0.0056	0.0021	0.00023	0	0.033	0.049
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	1	0	3	3	2
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	1	0	0	3	2

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5r. AEC LR Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

	PAH/Phenols																												Polychlorinated Biphenyls
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	PCBs (Sum of total)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																									NL[#7]						
Vapour Intrusion - Commercial Worker - 4-<8 m																									NL[#6]						
Vapour Intrusion - Commercial Worker - 8 m+																									NL[#5]						
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																									NL[#8]						
Drinking Water															0.01[#3]																
Ecological (Freshwater)		3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]		
Recreational		200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																												
LR_MW01	LR_MW01	WATER	19-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
LR_MW03	LR_MW03	WATER	11-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
LR_MW04	LR_MW04	WATER	11-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
Statistical Summary																															
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	0.5
Median Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	0.5
Standard Deviation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indus
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indus
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indus
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5s. AEC LS Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

				TRH											BTEX							Metals								
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
				mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.001	0.0001	0.001	0.001	0.001	0.0001	0.001	0.005
Vapour Intrusion - Commercial Worker - 2-<4 m				6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]									
Vapour Intrusion - Commercial Worker - 4-<8 m				6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]									
Vapour Intrusion - Commercial Worker - 8 m+				7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]									
Vapour Intrusion - Intrusive Maint Worker 2m -8m+				NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]									
Drinking Water																1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]	0.002[#3]	0.05[#3]	2[#3]	0.01[#3]	0.001[#3]	0.02[#3]	
Ecological (Freshwater)																950[#10]			350[#10]					0.0002[#10]		0.0014[#10]	0.0034[#10]	0.00006[#9]	0.011[#10]	0.008[#10]
Recreational																10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]	0.02[#4]	0.5[#4]	20[#4]	0.1[#4]	0.01[#4]	0.2[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																											
LS_EW_MW01	LS_EW_MW01	WATER	22-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	<0.0001	<0.001	0.013	<0.001	<0.0001	0.01	0.031
LS_EW_MW02	LS_EW_MW02	WATER	22-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	0.0003	<0.001	0.015	<0.001	<0.0001	0.024	0.028
LS_EW_MW03	LS_EW_MW03	WATER	22-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	0.0013	<0.001	0.005	<0.001	<0.0001	0.041	0.015
LS_MW01	LS_MW01	WATER	12-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.005	0.0011	0.002	0.014	0.002	<0.0001	0.183	0.484
LS_MW02	LS_MW02	WATER	16-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.01	0.003	0.003	0.028	0.003	<0.0001	0.657	1.45
Statistical Summary																														
Number of Results				5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	2	5	2	0	5	5
Minimum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	<0.001	<0.0001	<0.001	0.005	<0.001	<0.0001	0.01	0.015
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.0003	0.002	0.005	0.002	ND	0.01	0.015
Maximum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.01	0.003	0.003	0.028	0.003	<0.0001	0.657	1.45
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	0.003	0.003	0.028	0.003	ND	0.657	1.45
Average Concentration				0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.0033	0.0012	0.0013	0.015	0.0013	0.00005	0.18	0.4
Median Concentration				0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.0005	0.0011	0.0005	0.014	0.0005	0.00005	0.041	0.031
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0042	0.0012	0.0012	0.0083	0.0012	0	0.27	0.62
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	5	0	5	4	5
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	5	0	0	4	5

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

ERM

Table 5s. AEC LS Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

																PAH/Phenols																		MAH									
						2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Isopropylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL						1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1	5	5	5	5	5	5	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																														NL[#7]														
Vapour Intrusion - Commercial Worker - 4-<8 m																														NL[#6]														
Vapour Intrusion - Commercial Worker - 8 m+																														NL[#5]														
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																														NL[#8]														
Drinking Water																				0.01[#3]																							30[#3]		
Ecological (Freshwater)							3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]											
Recreational							200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]												300[#4]		
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																									
LS_EW_MW01	LS_EW_MW01	WATER	22-Nov-13			<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	-	-	-	-	-	-	-	-	-
LS_EW_MW02	LS_EW_MW02	WATER	22-Nov-13			<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	-	-	-	-	-	-	-	-	-
LS_EW_MW03	LS_EW_MW03	WATER	22-Nov-13			<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	-	-	-	-	-	-	-	-	-
LS_MW01	LS_MW01	WATER	12-Dec-13			<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	-	-	-	-	-	-	-	-	-
LS_MW02	LS_MW02	WATER	16-Dec-13			<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																												
Number of Results						5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	1	1	1	1	1	1	1	1	1
Number of Detects						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration						<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration						<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration						0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5									
Median Concentration						0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Number of Guideline Exceedances						0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

				Chlorinated Hydrocarbons																												Halogenated Benzenes								
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,1-dichloroethene	1,1-dichloropropene	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Dibromomethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Vinyl chloride	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2-chlorotoluene	4-chlorotoluene	Bromobenzene	Chlorobenzene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	50	5	50	5	5	5	5	5	5	5	50	5	5	5	5	5	5	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																																									
Vapour Intrusion - Commercial Worker - 4-<8 m																																									
Vapour Intrusion - Commercial Worker - 8 m+																																									
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																																									
Drinking Water									30[#3]				3[#3]										4[#1]	60[#2]			0.7[#3]		50[#3]	60[#2]		0.3[#3]									
Ecological (Freshwater)					6500[#10]																												3[#9]	85[#9]	160[#10]	260[#10]	60[#10]				
Recreational									300[#4]				30[#4]						30[#4]			19100[#4]	40[#4]	600[#4]			7[#4]	200[#4]	500[#4]	600[#4]		3[#4]	5930[#4]	7430[#4]	15000[#4]		400[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																						
LS_EW_MW01	LS_EW_MW01	WATER	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_EW_MW02	LS_EW_MW02	WATER	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_EW_MW03	LS_EW_MW03	WATER	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_MW01	LS_MW01	WATER	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_MW02	LS_MW02	WATER	16-Dec-13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5
Statistical Summary																																									
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<5	<50	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																									
Median Concentration				2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Standard Deviation																																									
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
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#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

						Halogenated Hydrocarbons					Solvents					VOCs		
						1,2-dibromoethane	Bromomethane	Dichlorodifluoromethane	Iodomethane	Trichlorofluoromethane	Methyl Ethyl Ketone	2-hexanone (MBK)	4-Methyl-2-pentanone	Carbon disulfide	Vinyl acetate	cis-1,4-Dichloro-2-butene	Pentachloroethane	trans-1,4-Dichloro-2-butene
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL						5	50	50	5	50	50	50	50	5	50	5	5	5
Vapour Intrusion - Commercial Worker - 2-<4 m																		
Vapour Intrusion - Commercial Worker - 4-<8 m																		
Vapour Intrusion - Commercial Worker - 8 m+																		
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																		
Drinking Water						1 [#3]	1 [#3]											
Ecological (Freshwater)																		
Recreational						10 [#4]	10 [#4]											
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**															
LS_EW_MW01	LS_EW_MW01	WATER	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_EW_MW02	LS_EW_MW02	WATER	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_EW_MW03	LS_EW_MW03	WATER	22-Nov-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_MW01	LS_MW01	WATER	12-Dec-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LS_MW02	LS_MW02	WATER	16-Dec-13	<5	<50	<50	<5	<50	<50	<50	<50	<5	<50	<5	<5	<5	<5	<5
Statistical Summary																		
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<5	<50	<50	<5	<50	<50	<50	<50	<5	<50	<5	<5	<5	<5	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<5	<50	<50	<5	<50	<50	<50	<50	<5	<50	<5	<5	<5	<5	<5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																		
Median Concentration				2.5	25	25	2.5	25	25	25	25	2.5	25	2.5	2.5	2.5	2.5	2.5
Standard Deviation																		
Number of Guideline Exceedances				1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
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#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

				TRH											BTEX							Metals																			
				C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Lead (Filtered)	Manganese (Filtered)	Mercury (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Selenium (Filtered)	Thallium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)
				mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.0002	0.0005	0.0001	0.005	0.00005	0.0002	0.0001	0.0005	0.0001	0.0005	0.0001	0.0001	0.0005	0.0002	0.00002	0.0002	0.001
Vapour Intrusion - Commercial Worker - 2-<4 m				6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]																				
Vapour Intrusion - Commercial Worker - 4-<8 m				6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]																				
Vapour Intrusion - Commercial Worker - 8 m+				7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]																				
Vapour Intrusion - Intrusive Maint Worker 2m -8m+				NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]																				
Drinking Water																1[#3]	800[#3]	300[#3]			600[#5]		0.01[#3]				0.002[#3]	0.05[#3]		2[#3]	0.01[#3]		0.001[#3]		0.02[#3]	0.01[#3]				
Ecological (Freshwater)																950[#10]			350[#10]						0.37[#10]	0.0002[#10]			0.0014[#10]	0.0034[#10]	1.9[#10]	0.00006[#9]		0.011[#10]	0.005[#9]			0.008[#10]
Recreational																10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]				0.02[#4]	0.5[#4]		20[#4]	0.1[#4]		0.01[#4]		0.2[#4]	0.1[#4]				
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																						
LT_MW01	LTMW01	WATER	25-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0003	0.0248	<0.0001	0.074	0.00009	<0.0002	0.0048	0.0005	0.0016	0.371	<0.0001	0.0023	0.0094	0.0004	0.00005	0.0005	0.002
LT_MW02	LT_MW02	WATER	26-Nov-13	<0.02	0.37	<20	230	340	<50	570 - 595	560	0.37	0.19	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0004	0.0339	<0.0001	0.42	0.00011	<0.0002	0.0129	<0.0005	0.0008	2.4	<0.0001	0.0023	0.026	0.0002	0.00005	0.0003	0.004
LT_MW03	LT_MW03	WATER	26-Nov-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0004	0.0132	0.0017	0.64	0.00215	<0.0002	0.178	<0.0005	0.0002	7.54	<0.0001	0.0002	0.412	0.0003	0.00006	<0.0002	0.081
LT_MW04	LT_MW04	WATER	25-Nov-13	0.03	<0.1	50	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	0.07	2	25	<2	4	9	13	0.04	0.0003	0.033	<0.0001	0.275	<0.00005	<0.0002	0.0042	<0.0005	<0.0001	0.382	<0.0001	0.0026	0.0062	<0.0002	<0.00002	0.0006	0.006
Statistical Summary																																								
Number of Results				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects				1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	1	1	4	4	1	4	3	0	4	1	3	4	0	4	4	3	3	4			
Minimum Concentration				<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0003	0.0132	<0.0001	0.074	<0.00005	<0.0002	0.0042	<0.0005	<0.0001	0.371	<0.0001	0.0002	0.0062	<0.0002	<0.00002	<0.0002	0.002
Minimum Detect				0.03	0.37	50	230	340	ND	570	560	0.37	0.19	ND	0.07	2	25	ND	4	9	13	0.04	0.0003	0.0132	0.0017	0.074	0.00009	ND	0.0042	0.0005	0.0002	0.371	ND	0.0002	0.0062	0.0002	0.00005	0.0003	0.002
Maximum Concentration				0.03	0.37	50	230	340	<50	595	560	0.37	0.19	<0.1	0.07	2	25	<2	4	9	13	0.04	0.0004	0.0339	0.0017	0.64	0.00215	<0.0002	0.178	0.0005	0.0016	7.54	<0.0001	0.0026	0.412	0.0004	0.00006	0.0006	0.081
Maximum Detect				0.03	0.37	50	230	340	ND	595	560	0.37	0.19	ND	0.07	2	25	ND	4	9	13	0.04	0.0004	0.0339	0.0017	0.64	0.00215	ND	0.178	0.0005	0.0016	7.54	ND	0.0026	0.412	0.0004	0.00006	0.0006	0.081
Average Concentration				0.015	0.13	20	76	123	25	164	178	0.13	0.085	0.05	0.025	0.88	7	1	1.8	3	4	0.01	0.00035	0.026	0.00046	0.35	0.00059	0.0001	0.05	0.00031	0.00066	2.7	0.00005	0.0019	0.11	0.00025	0.000043	0.00038	0.023
Median Concentration				0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.00035	0.0289	0.00005	0.3475	0.0001	0.0001	0.00885	0.00025	0.0005	1.391	0.00005	0.0023	0.0177	0.00025	0.00005	0.0004	0.005
Standard Deviation				0.01	0.16	20	103	145	0	279	255	0.16	0.07	0	0.03	0.75	12	0	1.5	4	6	0.02	0.000058	0.0096	0.00083	0.24	0.001	0	0.085	0.00013	0.0007	3.4	0	0.0011	0.2	0.00013	0.000022	0.00022	0.039
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	4	0	2	0	0	0	1
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	2	0	0	0	1

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

				PAH/Phenols																																	
				2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(e) pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL				1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																												NL[#7]								
Vapour Intrusion - Commercial Worker - 4-<8 m																												NL[#6]								
Vapour Intrusion - Commercial Worker - 8 m+																												NL[#5]								
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																												NL[#8]								
Drinking Water																		0.01[#3]																		
Ecological (Freshwater)					3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]				
Recreational					200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]						
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																		
LT_MW01	LTMW01	WATER	25-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LT_MW02	LT_MW02	WATER	26-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LT_MW03	LT_MW03	WATER	26-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LT_MW04	LT_MW04	WATER	25-Nov-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Statistical Summary																																					
Number of Results				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Median Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industri
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5u. AEC LU Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

					TRH										BTEX							Metals							
					C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
					mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.0002	0.00005	0.0002	0.0005	0.0001	0.0001	0.0005	0.001
Vapour Intrusion - Commercial Worker - 2-<4 m					6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]									
Vapour Intrusion - Commercial Worker - 4-<8 m					6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]									
Vapour Intrusion - Commercial Worker - 8 m+					7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]									
Vapour Intrusion - Intrusive Maint Worker 2m -8m+					NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]									
Drinking Water																	1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]	0.002[#3]	0.05[#3]	2[#3]	0.01[#3]	0.001[#3]	0.02[#3]	
Ecological (Freshwater)																	950[#10]			350[#10]					0.0002[#10]		0.0014[#10]	0.0034[#10]	0.00006[#9]	0.011[#10]	0.008[#10]
Recreational																	10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]	0.02[#4]	0.5[#4]	20[#4]	0.1[#4]	0.01[#4]	0.2[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																												
LU_MW02	LU_MW02	WATER	17-Dec-13		<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0033	<0.00005	<0.0002	0.0018	<0.0001	<0.0001	0.0349	0.02
LU_MW03	LU_MW03	WATER	10-Dec-13		<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	<0.0001	<0.001	0.003	<0.001	<0.0001	0.016	0.034
Statistical Summary																															
Number of Results					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	2	2
Minimum Concentration					<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.001	<0.00005	<0.0002	0.0018	<0.0001	<0.0001	0.016	0.02
Minimum Detect					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	0.0018	ND	ND	0.016	0.02
Maximum Concentration					<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0033	<0.0001	<0.001	0.003	<0.001	<0.0001	0.0349	0.034
Maximum Detect					ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0033	ND	ND	0.003	ND	ND	0.0349	0.034
Average Concentration																															
Median Concentration					0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.00215	0.0000375	0.0003	0.0024	0.000275	0.00005	0.02545	0.027
Standard Deviation																															
Number of Guideline Exceedances					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	2
Number of Guideline Exceedances(Detects Only)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

	PAH/Phenols																													
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																									NL[#7]					
Vapour Intrusion - Commercial Worker - 4-<8 m																									NL[#6]					
Vapour Intrusion - Commercial Worker - 8 m+																									NL[#5]					
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																									NL[#8]					
Drinking Water															0.01[#3]															
Ecological (Freshwater)		3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]	
Recreational		200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																												
LU_MW02	LU_MW02	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LU_MW03	LU_MW03	WATER	10-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1

Statistical Summary

Number of Results	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																														
Median Concentration	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation																														
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Inc
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Inc
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Inc
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

Table 5v. AEC LV Groundwater Summary
Liddell Power Station - Stage 2 ESA
Project Symphony - 0224198

	TRH												BTEX							Metals							
	C6-C10 less BTEX (F1)	> C10 - C16 Less Naphthalene (F2)	C6 - C9	C10 - C14	C15 - C28	C29-C36	+C10 - C36 (Sum of total)	C10 - C40 (Sum of total)	C10-C16	C16-C34	C34-C40	C6-C10	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Arsenic (Filtered)	Cadmium (Filtered)	Chromium (III+VI) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)
	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.02	0.1	20	50	100	50	50	100	0.1	0.1	0.1	0.02	1	2	2	2	2	2	0.001	0.0002	0.00005	0.0002	0.0005	0.0001	0.0001	0.0005	0.001
Vapour Intrusion - Commercial Worker - 2-<4 m	6[#7]	NL[#7]											5000[#7]	NL[#7]	NL[#7]			NL[#7]									
Vapour Intrusion - Commercial Worker - 4-<8 m	6[#6]	NL[#6]											5000[#6]	NL[#6]	NL[#6]			NL[#6]									
Vapour Intrusion - Commercial Worker - 8 m+	7[#5]	NL[#5]											5000[#5]	NL[#5]	NL[#5]			NL[#5]									
Vapour Intrusion - Intrusive Maint Worker 2m -8m+	NL[#8]	NL[#8]											NL[#8]	NL[#8]	NL[#8]			NL[#8]									
Drinking Water													1[#3]	800[#3]	300[#3]			600[#3]		0.01[#3]	0.002[#3]	0.05[#3]	2[#3]	0.01[#3]	0.001[#3]	0.02[#3]	
Ecological (Freshwater)													950[#10]			350[#10]					0.0002[#10]		0.0014[#10]	0.0034[#10]	0.00006[#9]	0.011[#10]	0.008[#10]
Recreational													10[#4]	8000[#4]	3000[#4]			6000[#4]		0.1[#4]	0.02[#4]	0.5[#4]	20[#4]	0.1[#4]	0.01[#4]	0.2[#4]	
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																								
LV_MW03	LV_MW03	WATER	20-Dec-13	<0.02	<0.1	<20	<50	200	<50	200 - 250	240	<0.1	0.24	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0003	0.00042	<0.0002	0.0022	0.0002	<0.0001	0.0331	0.028
LV_MW04	LV_MW04	WATER	17-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0009	0.00095	0.0002	0.0013	0.0121	<0.0001	0.0331	0.034
LV_MW05	LV_MW05	WATER	18-Dec-13	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0022	0.00594	0.0009	0.0075	0.0092	<0.0001	1.03	1.45
Statistical Summary																											
Number of Results	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	3	3	2	3	3	0	3	3
Minimum Concentration	<0.02	<0.1	<20	<50	<100	<50	<50	<100	<0.1	<0.1	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0003	0.00042	<0.0002	0.0013	0.0002	<0.0001	0.0331	0.028
Minimum Detect	ND	ND	ND	ND	200	ND	200	240	ND	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0003	0.00042	0.0002	0.0013	0.0002	ND	0.0331	0.028
Maximum Concentration	<0.02	<0.1	<20	<50	200	<50	250	240	<0.1	0.24	<0.1	<0.02	<1	<2	<2	<2	<2	<2	<0.001	0.0022	0.00594	0.0009	0.0075	0.0121	<0.0001	1.03	1.45
Maximum Detect	ND	ND	ND	ND	200	ND	250	240	ND	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0022	0.00594	0.0009	0.0075	0.0121	ND	1.03	1.45
Average Concentration	0.01	0.05	10	25	100	25	92	113	0.05	0.11	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.0011	0.0024	0.0004	0.0037	0.0072	0.00005	0.37	0.5
Median Concentration	0.01	0.05	10	25	50	25	25	50	0.05	0.05	0.05	0.01	0.5	1	1	1	1	1	0.0005	0.0009	0.00095	0.0002	0.0022	0.0092	0.00005	0.0331	0.034
Standard Deviation	0	0	0	0	87	0	115	110	0	0.11	0	0	0	0	0	0	0	0	0	0.00097	0.003	0.00044	0.0034	0.0062	0	0.58	0.82
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	2	3	3	3
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	2	0	3	3

Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 8 m+ Sandy Soils
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 4-<8 m Sandy Soils
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Industrial) 2-<4 m Sandy Soils
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

							PAH/Phenols																									
							2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-methylphenol	2-nitrophenol	3-&4-methylphenol	4-chloro-3-methylphenol	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	PAHs (Sum of total)	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
							µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL							1	1	1	1	1	1	1	1	2	1	1	1	1	1	0.5	0.5	1	1	1	1	1	1	1	1	1	0.5	2	1	1	1
Vapour Intrusion - Commercial Worker - 2-<4 m																															NL[#7]					
Vapour Intrusion - Commercial Worker - 4-<8 m																															NL[#6]					
Vapour Intrusion - Commercial Worker - 8 m+																															NL[#5]					
Vapour Intrusion - Intrusive Maint Worker 2m -8m+																															NL[#8]					
Drinking Water																					0.01[#3]															
Ecological (Freshwater)								3[#9]	120[#9]			340[#9]																			16[#10]		3.6[#9]		320[#10]	
Recreational								200[#4]	2000[#4]			3000[#4]									0.1[#4]												100[#4]			
Location Code	**Field ID**	**Matrix Type**	**Sampled Date**																																	
LV_MW03	LV_MW03	WATER	20-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LV_MW04	LV_MW04	WATER	17-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
LV_MW05	LV_MW05	WATER	18-Dec-13	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Statistical Summary																																				
Number of Results				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<2	<1	<1	<1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Median Concentration				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	1	0.5	0.5	0.5
Standard Deviation				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

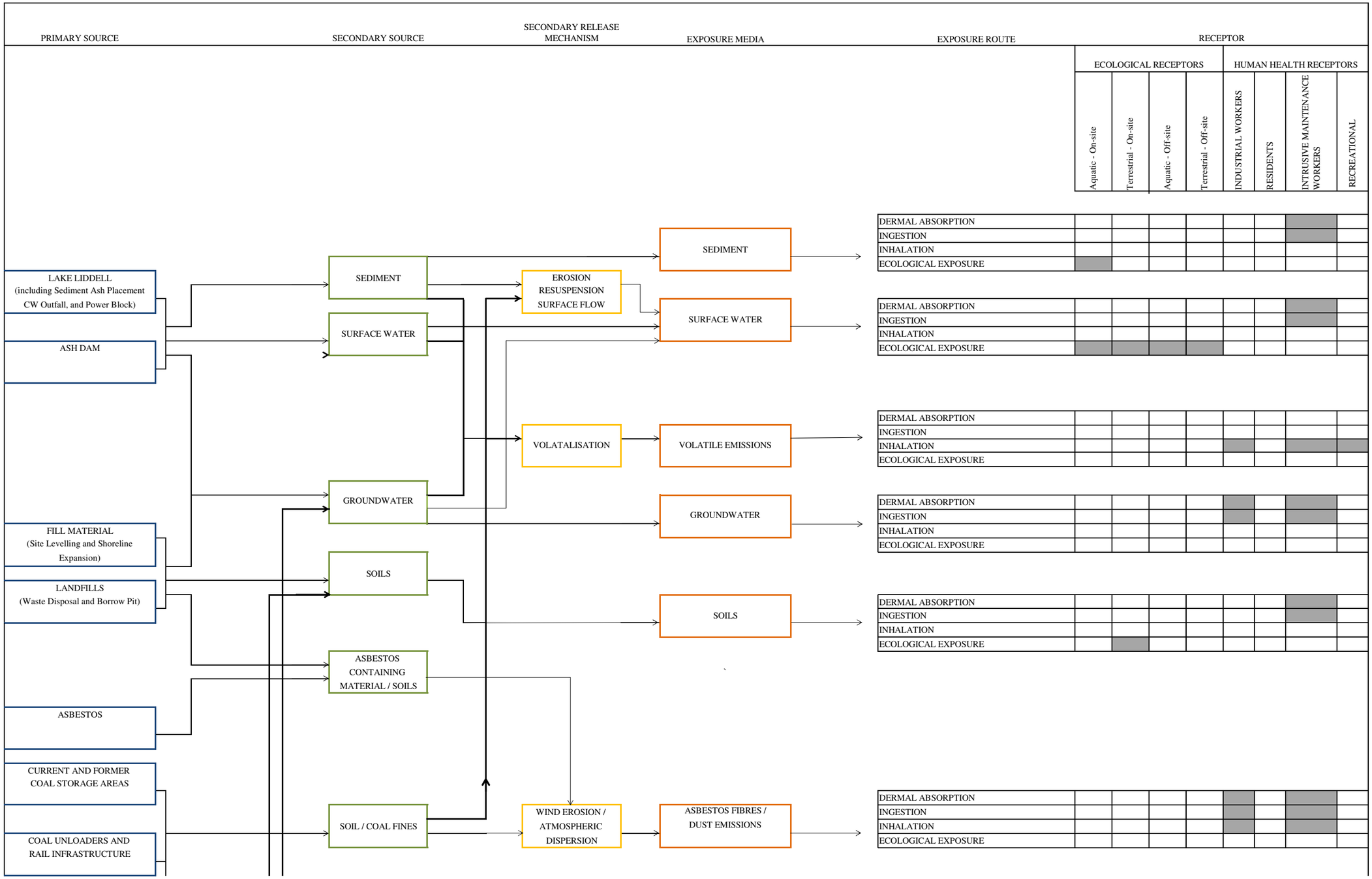
Comments

#1 NHMRC (2011) ADWG - Health (value for dichloromethane)
#2 NHMRC (2011) ADWG - Health (total 1,2-dichloroethene)
#3 NHMRC (2011) ADWG - Health
#4 NHMRC (2008) Guidelines for Managing Risks in Recreational Water
#5 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indus
#6 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indus
#7 ASC NEPM (2013) HSL for vapour intrusion HSL-D (Commercial/Indus
#8 ASC NEPM (2013) HSL for Intrusive Maint Workers 2m -8m+
#9 ANZECC 2000 Freshwater for the protection of 99% of species
#10 ANZECC 2000 Freshwater for the protection of 95% of species

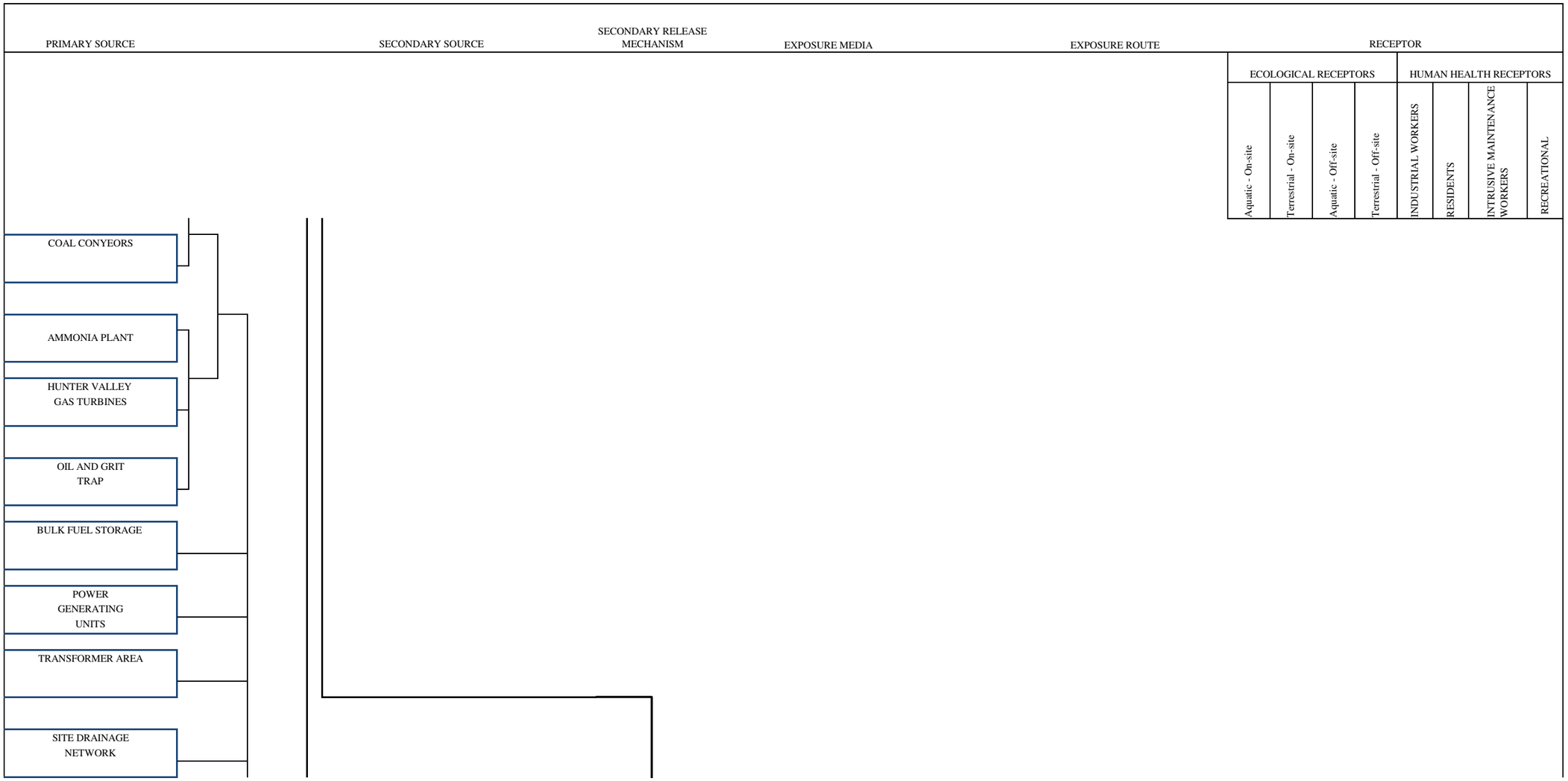
Annex C

Refined Conceptual Site Model

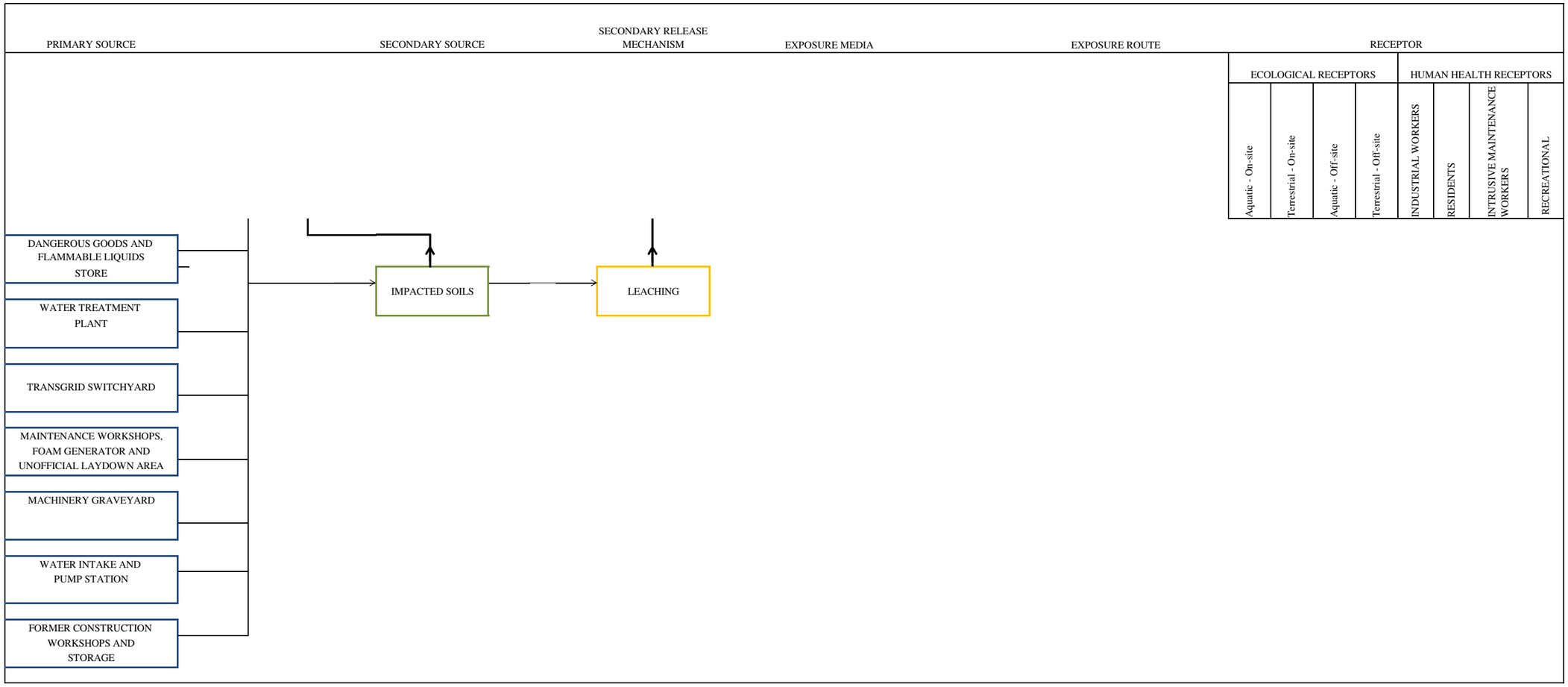
Generalised Conceptual Site Model - Liddell Power Station



Generalised Conceptual Site Model - Liddell Power Station



Generalised Conceptual Site Model - Liddell Power Station



LEGEND

- Primary Source
- Secondary Source
- Release Mechanism
- Exposure Media
- Potentially Complete Pathway
- Incomplete Pathway

Annex D

Borelogs

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LA_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **25/11/2013**
Drill Finish Date: **25/11/2013**
Drill Co: **Matrix**
Driller: **Phil**
Drill Method: **NDD, PT, SFA**
Hole Type: **Monitoring Well**

Total Depth (m): **10.0**
Hole Diam. / Width (mm): **300**
Casing Type: **PVC**
Casing Diam. (mm): **50**
Surface Completion: **Gatic**
Water Strike (m bgl): **9.0**

Final Water Level (m bgl): **4.624**
Elevation (Ground): **137.46**
Elevation (Case): **137.35**
Easting (MGA): **309564.706**
Northing (MGA): **6416231.666**

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Topsoil								0		
Fill Clay, brown, moist, stiff, plastic.								0		
			1					0		
Clay Grey/red, dry, friable, non plastic, heterogeneous, no staining, no odour.								0		
			2			Y		0.3	LA_MW01_2.1	
Siltstone (Weathered) Red/orangey brown, dry. Colour change to light brown from 4.0 m bgl. Colour change to dark grey at 8.0 m bgl. Moisture from 9.0 m bgl.			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LA_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **25/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **4.624**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **137.46**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **137.35**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309564.706**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416231.666**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **9.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LA_MW02

ERM Australia Pty Ltd

Drill Start Date: **23/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl):
Drill Finish Date: **23/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **136.12**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **136.06**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309594.554**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416220.73**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Fill								0 0		
			1		DS	Y		0	LA_MW02_1.0	
Clay Brown, stiff, plastic.								0		
Clay Grey/red with light brown, dry, friable, non plastic, heterogeneous, no stain, no odour.			2					0		
			3			Y			LA_MW02_3.0	
			4							
Siltstone (Weathered) Red, dry. Colour change to light brown from 6.0 m bgs.			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LA_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **23/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl):
Drill Finish Date: **23/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **136.12**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **136.06**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309594.554**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416220.73**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LA_MW03

ERM Australia Pty Ltd

Drill Start Date: **23/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **5.785**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **137.14**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **137.06**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309590.615**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416241.646**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Topsoil					DS	Y		0	LA_MW03_0.1	
Fill Clay, brown, dry, stiff, low plastic.			1					0 0		
Clay Grey/red/light brown, dry, friable, non plastic, heterogeneous, no stain, no odour.			2					0 0		
			3		US	Y		0	LA_MW03_3.0	
						Y		0	LA_MW03_3.9	
Siltstone (Weathered) Reddish brown, dry. Colour change to light brown from 6.0 m bgs.			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LA_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **23/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **5.785**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **137.14**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **137.06**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309590.615**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416241.646**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LA_SB01

ERM Australia Pty Ltd

Drill Start Date: **23/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil**	Casing Diam. (mm):	Easting (MGA): **309578**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416220**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel								0		
Fill Clay, brown, dry, stiff, plastic.								0		
			1							
Clay Grey/red, dry, friable, non plastic, heterogeneous, no stain, no odour.								0.1		
			2					0		
			3			Y		0	LA_SB01_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LA_SB02

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Drill Start Date: **16/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil**	Casing Diam. (mm):	Easting (MGA): **309595**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416251**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Topsoil					DS	Y		0	LA_SB02_0.1	
Fill Clay, brown, dry, hard, low plastic, trace gravel.			1					0 0		
Clay Grey, dry, very stiff, low plasticity, seamed with layers of red siltstone. Becoming friable from 2.3 m bgs.			2					0		
			3			Y		0	LA_SB02_3.0	
End of Log			4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW01

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **8.679**
Drill Finish Date: **12/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **191**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **191.61**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **306537.819**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6418183.352**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **9.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Sandy Clay, light brown, dry, friable, non plastic, no stain, no odour.								0		
Fill Clay, brown, dry, soft, medium plastic, heterogeneous, some gravels throughout, no stain, no odour.								0		
			1		DS	Y		0	LB_MW01_1.0	
					DS	Y		0.1	LB_MW01_1.4	
Fill Sandy silt with gravel, yellowish brown, dry, medium stiff, low plastic, medium grained, poorly graded, heterogeneous, no stain, no odour.										
Sandstone Bedrock			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **8.679**
Drill Finish Date: **12/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **191**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **191.61**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **306537.819**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6418183.352**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **9.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW02

ERM

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Drill Start Date: **10/12/2013**	Total Depth (m): **1.0**	Final Water Level (m bgl):
Drill Finish Date: **11/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Scott**	Casing Diam. (mm):	Easting (MGA): **305818**
Drill Method: **NDD, AH**	Surface Completion: **Backfilled**	Northing (MGA): **6417797**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Overburden with large stones, coal fragments and shale.					DS	Y		0	LB_MW02_0.1	
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **2.0**	Final Water Level (m bgl): **1.669**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **175.48**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **176.1**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **305751.574**
Drill Method: **NDD, PT, AH**	Surface Completion: **Monument**	Northing (MGA): **6417245.508**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **1.2**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clayey sandy gravel, brown, dry, loose, fine to coarse gravel, moderately sorted, angular to rounded.										
Fill Overburden.			1							
Sandstone Grey, dry, well sorted.			2							
End of Log			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW04

ERM

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Drill Start Date: **10/12/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **305859**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Backfilled**	Northing (MGA): **6416563**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Gravelly Clay Brown, dry, soft, low plasticity, no stain, no odour, fine to coarse sub angular to rounded gravels.								0 0		
Clay Brown/grey, dry, soft, medium plastic, heterogeneous, some siltstone throughout, no stain, no odour.			1							
Sandstone Brown, dry, moderately sorted, no stain, no odour.			2			Y			LB_MW04_1.8	
End of Log			3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW05

ERM

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Drill Start Date: **13/12/2013**	Total Depth (m): **5.5**	Final Water Level (m bgl): **1.141**
Drill Finish Date: **13/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **187.4**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **188**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **305949.487**
Drill Method: **HA, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6416021.024**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Sandy Clay With trace shale gravel, brown, dry, firm, highly plastic, no stain, no odour. Increasing shale gravel with depth.								0.1		
					DS	Y		0.3	LB_MW05_0.5	
			1					0.5		
								0.4		
			2							
Sandy Clay Orange, moist, soft, highly plastic.						Y		0.4	LB_MW05_2.4	
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW05

ERM

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Drill Start Date: **13/12/2013**	Total Depth (m): **5.5**	Final Water Level (m bgl): **1.141**
Drill Finish Date: **13/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **187.4**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **188**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **305949.487**
Drill Method: **HA, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6416021.024**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
End of Log			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW06

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **3.5**	Final Water Level (m bgl): **3.769**
Drill Finish Date: **12/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **193.01**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **193.7**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **306546.986**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6415790.912**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Sand with silt, brown, dry, well consolidated, poorly sorted, no stain, no odour.								0.3		
Fill Clay with sand, dry, firm to stiff, low plastic, no stain, no odour. Large cobbles from 1.1 to 1.5 m bgl.			1		DS	Y		0.2 0.5	LB_MW06_0.5	
Sandy Clay Brown, dry, firm to stiff, low plastic, no stain, no odour, medium to coarse grained sand.			2			Y		0.2	LB_MW06_2.3	
End of Log			3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **306709**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6416357**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Sandy Silt Grey, dry, soft, no stain, no odour.					DS	Y		0.3	LB_MW07_0.1	
Sandy Clay Orange brown, moist, stiff, non plastic, no staining, no odour, trace gravel.								0		
			1					0.1		
						Y		0	LB_MW07_1.6	
Siltstone (weathered) Light brown, dry, hard, with siltstone layers, no staining, no odour.			2							
Conglomerate Light orange brown, dry, hard, rounded siltstone and quartz gravel inclusions, no staining, no odour.			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **306709**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6416357**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
Siltstone Grey, dry, very hard, no staining, no odour.			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **306709**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6416357**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **5.016**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **188.7**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **189.28**
Driller: **Jay**	Casing Diam. (mm): **50**	Easting (MGA): **306881.8**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6416600.19**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **9.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Sand with gravel and silt, poorly compacted, well sorted.					DS	Y		0.2	LB_MW08_0.1	
Shale Brown, dry, moderately weathered.			1					0.7		
Shale Grey with brown seems, dry, hard, moderately weathered.			2							
Siltstone Grey, dry, very hard, trace quartz inclusions, no stain, no odour.			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG/GP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **5.016**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **188.7**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **189.28**
Driller: **Jay**	Casing Diam. (mm): **50**	Easting (MGA): **306881.8**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6416600.19**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **9.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG/GP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW09

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **uPVC**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **307448**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6416599**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Topsoil.								0		
Clay Brown, damp, medium stiff, low plasticity, heterogeneous, fine gravel throughout, no stain, no odour.					DS	Y		0	LB_MW09_0.5	
			1							
Shale Brown, hard, dry, moderately weathered, with very hard shale gravel cobbles.			2							
Siltstone (Weathered) Brown, dry, hard, no stain, no odour.			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/GP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW09

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **uPVC**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **307448**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6416599**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Siltstone Grey, dry, very hard, no stain, no odour.			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/GP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW09

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **uPVC**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **307448**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6416599**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/GP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW10

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**
Drill Finish Date: **17/12/2013**
Drill Co: **Numac**
Driller: **Jay**
Drill Method: **NDD, PT, SFA**
Hole Type: **Soil Bore**

Total Depth (m): **2.1**
Hole Diam. / Width (mm): **250**
Casing Type: **Not Applicable**
Casing Diam. (mm): **Not Applicable**
Surface Completion: **Monument**
Water Strike (m bgl): **Not Applicable**

Final Water Level (m bgl):
Elevation (Ground): **0**
Elevation (Case): **0**
Easting (MGA): **307687**
Northing (MGA): **6416800**

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Topsoil.								0.2		
Fill Silty sand, brown, dry, well compacted, poorly sorted, no stain, no odour.					DS	Y		0.3	LB_MW10_0.5	
Fill Reworked clay with gravel, firm to stiff, low plastic, trace cobble gravel, no stain, no odour. Shale content increasing with depth.			1							
						Y		0.7	LB_MW10_1.6	
			2							
End of Log			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW11

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **7.5**	Final Water Level (m bgl): **7.807**
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **151.1**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **151.8**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **308018.181**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6417132.536**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Clay Brown, dry, friable, non plastic, homogeneous, no stain, no odour.								0		
								0		
Clay Brown/grey, damp, soft, low plasticity, heterogeneous, no odour, no stain.					DS	Y		0	LB_MW11_0.5	
			1					0		
Sandy Clay Brown, damp, medium stiff, low plasticity, heterogeneous, no stain, no odour.								0		
Clay Brown, damp, stiff, medium plastic, heterogeneous, no stain, no odour, gravel throughout. Colour change to grey with red mottling from 3.2 to 3.6 m bgl.			2					0		
			3			Y		0.2	LB_MW11_3.0	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/GP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW11

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **7.5**	Final Water Level (m bgl): **7.807**
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **151.1**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **151.8**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **308018.181**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6417132.536**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/GP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW12

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl):
Drill Finish Date: **12/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **uPVC**	Elevation (Case): **0**
Driller: **Jay**	Casing Diam. (mm): **50**	Easting (MGA): **308018**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6417133**
Hole Type: **Soil Bore**	Water Strike (m bgl): **NA**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Topsoil.								0.4		
Fill Gravelly clay, orange-brown, dry, firm to stiff, medium plastic, no stain, no odour.								0.4		
					DS	Y			LB_MW12_0.5	
			1					0.5		
								0.1		
Gravelly Clay Brown, moist, stiff, low plastic, heterogeneous, no stain, no odour.										
Sandy Clay Brown, moist, stiff, non plastic, homogeneous, no stain, no odour, some gravel throughout. River pebbles from 4.5 m bgl.			2					0		
			3			Y		0	LB_MW12_3.0	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW12

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl):
Drill Finish Date: **12/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **uPVC**	Elevation (Case): **0**
Driller: **Jay**	Casing Diam. (mm): **50**	Easting (MGA): **308018**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6417133**
Hole Type: **Soil Bore**	Water Strike (m bgl): **NA**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Clay Brown, damp, soft, medium plastic, homogeneous, no stain, no odour. Colour change to reddish brown from 7.0 m bgl.			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW13

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **6.411**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **165.77**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **166.43**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **308078.759**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6417340.951**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Gravelly Clay Brown, damp, soft, low plastic, heterogeneous, no stain, no odour.								0		
Sandy Clay Brown, damp, soft, non plastic, heterogeneous, no stain, no odour.					DS	Y		0	LB_MW13_0.5	
			1					0		
Shale Grey, dry.										
Sandy Clay Brown, dry, soft, low plastic, heterogeneous, no stain, no odour.								0		
Sandy Clay Dark grey and brownish red, dry, stiff, medium plastic, homogeneous, no stain, no odour.						Y		0.7	LB_MW13_1.7	
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO/GP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW13

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **6.411**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **165.77**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **166.43**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **308078.759**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Monument**	Northing (MGA): **6417340.951**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO/GP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW14

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **5.5**	Final Water Level (m bgl): **3.465**
Drill Finish Date: **13/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **157.85**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **158.41**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **307838.416**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6417627.106**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Gravelly Clay Light brown, dry, friable, non plastic, no stain, no odour.								0		
					DS	Y		0	LB_MW14_0.5	
			1					0		
								0.7		
Sandy Clay Brownish grey, damp, soft, medium plastic, homogeneous, no stain, no odour.										
Sandy Clay Dark brown and grey, soft, medium plastic, heterogeneous, organic matter, no stain, no odour.			2			Y		1.1	LB_MW14_2.0	
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW14

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **5.5**	Final Water Level (m bgl): **3.465**
Drill Finish Date: **13/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **157.85**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **158.41**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **307838.416**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6417627.106**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
End of Log			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW15

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **13.0**	Final Water Level (m bgl): **NA**
Drill Finish Date: **13/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **NA**	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm): **NA**	Easting (MGA): **307073**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Backfilled**	Northing (MGA): **6418081**
Hole Type: **Surface Sample**	Water Strike (m bgl): **NA**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Topsoil.								0		
Clay Brown, damp, soft, medium plastic, heterogeneous, no stain, no odour, some gravel throughout.					DS	Y		0	LB_MW15_0.5	
			1					0		
Shale Brown, dry.										
Silty Sandy and Gravel Brown and yellowish brown, very loose, poorly sorted, no odour, no stain.						Y		0.7	LB_MW15_1.6	
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW15

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **13.0**	Final Water Level (m bgl): **NA**
Drill Finish Date: **13/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **NA**	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm): **NA**	Easting (MGA): **307073**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Backfilled**	Northing (MGA): **6418081**
Hole Type: **Surface Sample**	Water Strike (m bgl): **NA**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LB_MW15

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **13.0**	Final Water Level (m bgl): **NA**
Drill Finish Date: **13/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **NA**	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm): **NA**	Easting (MGA): **307073**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Backfilled**	Northing (MGA): **6418081**
Hole Type: **Surface Sample**	Water Strike (m bgl): **NA**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
End of Log			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **9.0**	Final Water Level (m bgl): **3.270**
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **135.69**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **135.61**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **308905.54**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415780.606**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.					DS	Y		0	LD_MW01_0.1	
Fill Coal with gravel, black, moist, angular, non plastic, poorly sorted, heterogeneous, no stain, no odour.			1					0		
Sandy Clay Dark brown, moist, medium plastic, homogeneous, no stain, no odour.			2					0		
			3			Y		0	LD_MW01_3.0	
Sandy Clay Brown, moist, medium plastic, homogeneous, no odour, no stain.			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

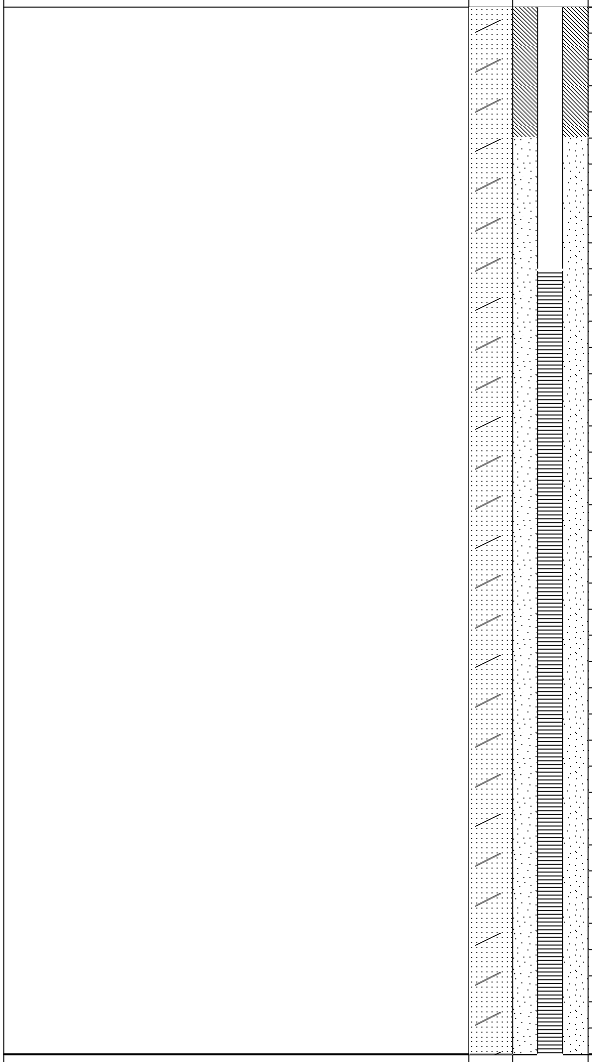
Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **9.0**	Final Water Level (m bgl): **3.270**
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **135.69**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **135.61**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **308905.54**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415780.606**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6 7 8 9							
End of Log			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **7.5**	Final Water Level (m bgl): **3.534**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **136.95**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **136.85**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **308901.402**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415840.83**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.					DS	Y		0	LDMW02_0.1	
Fill Gravelly clay, brown, hard, friable, fine to coarse gravel. Larger rocks and shale from 0.4 m bgl.			1							
Fill Sandy clay, dark brown, moist, soft, medium plastic, homogeneous, no stain, no odour.			2					0.2		
Clay With trace sand and roots, light brown, moist, medium plastic, homogeneous, no stain, no odour.								0.1		
Gravelly Clay Light grey, dry, non plastic, homogeneous, no stain, no odour.			3					0		
Clay Light grey, dry, medium plastic, homogeneous, no stain, no odour.			4					0		
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **7.5**	Final Water Level (m bgl): **3.534**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **136.95**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **136.85**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **308901.402**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415840.83**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **2.725**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **220**	Elevation (Ground): **135.69**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **136.47**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **308859.71**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6415826.357**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.6**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.					DS	Y		0	LDMW04_0.1	
Shale Very hard shale.			1							
Gravelly Clay Brown, moist, stiff, medium plastic, homogeneous, no stain, no odour. Reducing gravel from 2.0 m bgl.			2					0.3		
			3					0		
Gravelly Clay Yellowish orange and grey, moist, soft, medium plastic, heterogeneous, no stain, no odour.			4					0		
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **2.725**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **220**	Elevation (Ground): **135.69**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **136.47**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **308859.71**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6415826.357**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.6**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **9.5**	Final Water Level (m bgl): **3.388**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **136.77**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **137.69**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **308862.452**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6415869.056**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.5**	

Lithology	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface	0							
Fill Gravel.			DS	Y		0	LD_MW05_0.1	
Fill Clayey gravel, brown, moist, medium stiff, medium plastic, poorly sorted.						0		
	1					0		
Gravelly Clay Dry, very stiff, low plastic, heterogeneous, no stain, no odour.						0		
	2			Y		0	LD_MW05_2.0	
Gravelly Clay Brown and grey, moist, soft, low plastic, heterogeneous, no stain, no odour.						0.12		
	3					0.14		
Gravelly Clay Brownish grey, moist, soft, low plastic, heterogeneous, no stain, no odour.								
	4					0		
	5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

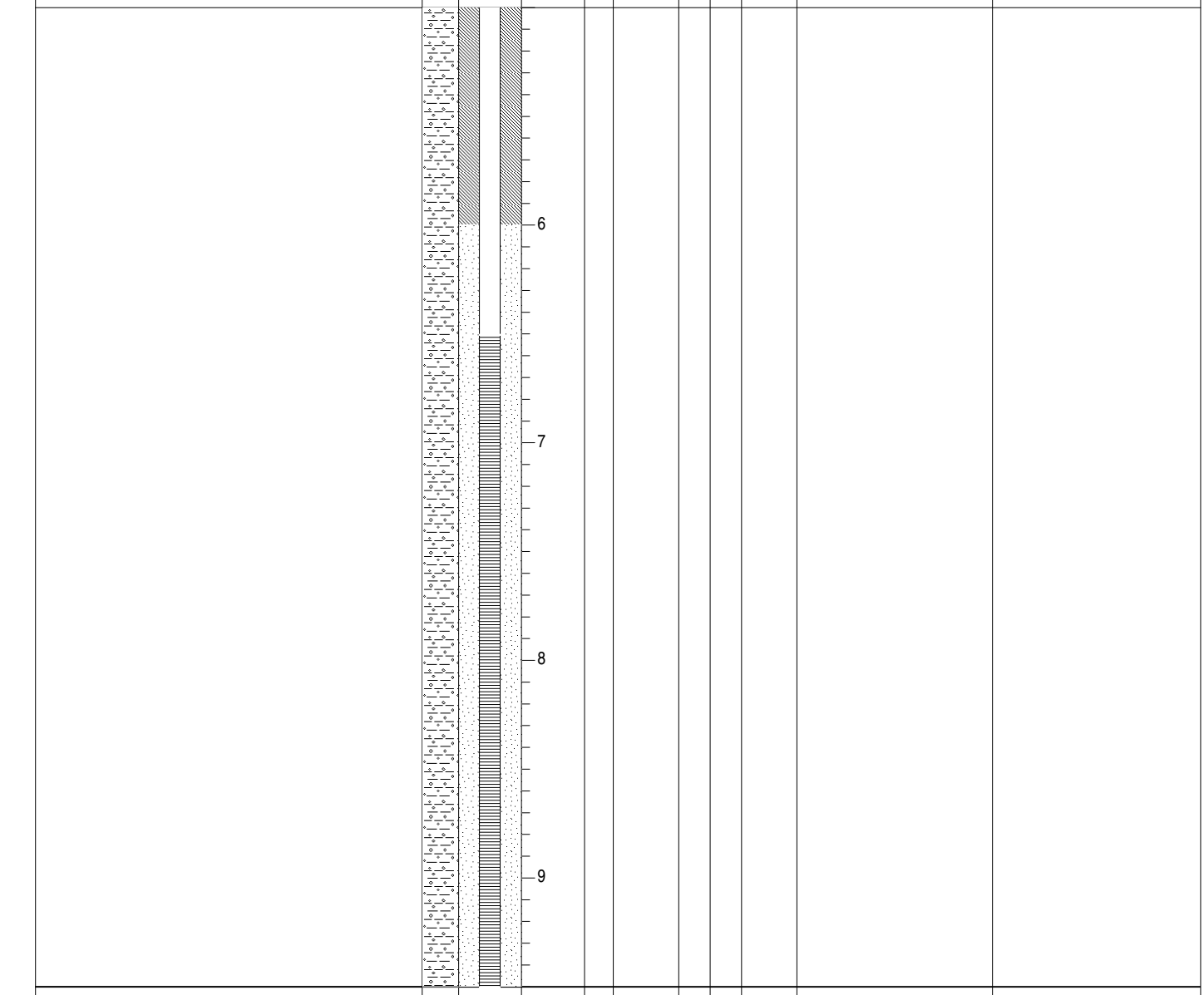
Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **9.5**	Final Water Level (m bgl): **3.388**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **136.77**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **137.69**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **308862.452**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6415869.056**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6 7 8 9							
End of Log			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_SB01

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **308845**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6415842**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.					DS	Y		0 0	LDSB01_0.1	
Clay Brown, moist, medium stiff, medium plastic, no odour.			1		DS	Y		0 0	LD_SB01_1.3	
Clay Orange/red, dry, friable, non plastic. Colour change to brown from 2.4 m bgl.			2 3					0		
End of Log			4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_SB02

ERM

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Drill Start Date: **13/11/2013**	Total Depth (m): **1.2**	Final Water Level (m bgl):
Drill Finish Date: **13/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **308946**
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA): **6415802**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.					DS	Y		0	LD_SB02_0.1	
Fill Coal.			1							
End of Log			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_SB03

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **13/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **308910**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6415812**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Fill					DS	Y			LD_SBO3_0.1	
Fill Coal.			1							
Clay Grey/red, moist, highly plastic, hard. Organic material present from 2.7m bgl.			2					0		
End of Log			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LD_SB04

ERM

ERM Australia Pty Ltd

Drill Start Date: **13/11/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **308878**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6415836**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.					DS	Y		0	LD_SB04_0.1	
Shale Shale.										
Fill Sand with coal, black, dry, loose, poorly sorted, no stain, no odour.			1							
Fill Sandy clay, brown, dry, soft, non plastic, heterogeneous, no stain, no odour.			2							
Sandy Clay Dark brown, soft, medium plastic, homogeneous, no stain, no odour.						Y		0	LD_SB04_3.0	
End of Log			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **11/11/2013**	Total Depth (m): **6.3**	Final Water Level (m bgl): **3.728**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.45**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **134.32**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309848.389**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6416276.579**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Topsoil.					DS	Y		0	LE_MW01_0.1	
Fill Fill.								0.5		
			1					1		
Clay Reddish brown and grey, damp, soft, medium plastic, heterogeneous, no stain, no odour. Colour change to brown/grey from 2.9 m bgl.								0		
			2					0.1		
						Y			LE_MW01_2.8	
			3			Y		0.2	LE_MW01_3.0	
Sandy Clay Dark grey, saturated, soft, low plasticity, heterogeneous, no stain, no odour. Becoming mottled red, dry and stiff from 4.0 m bgl.								0		
			4							
			5					0.6		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **11/11/2013**	Total Depth (m): **6.3**	Final Water Level (m bgl): **3.728**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.45**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **134.32**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309848.389**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6416276.579**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
End of Log			7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW02

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **4.293**
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.9**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.87**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309884.284**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6416277.389**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With gravel.								0		
Fill Rocks from 0.5 m bgl.					DS	Y			LE_MW02_0.5	
			1							
Sandy Clay With gravel inclusions, grey/brown/red, moist, soft, medium plastic, heterogeneous, no stain, no odour. Becoming medium stiff from 3.0 m bgl.			2							
			3							
Sandy Gravel Grey, moist, loose, coarse, moderately sorted, angular.										
Sandy Clay With gravel inclusions, brown/grey, damp, medium plastic, heterogeneous, no stain, no odour.			4			Y			LE_MW02_4.0	
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW02

ERM
ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **4.293**
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.9**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.87**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309884.284**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6416277.389**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **5.7**	Final Water Level (m bgl): **2.077**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.9**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.83**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309897.96**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416310.39**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.2**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With gravel.								0		
Fill Fill.					DS	Y		0	LE_MW03_0.5	
			1					0		
Gravelly Clay With sand, brown, moist, soft, non plastic, heterogeneous, no stain, no odour.								0		
Clay With gravel inclusions, moist, soft, non plastic, heterogeneous, staining, hydrocarbon odour. Colour change to grey from 2.2 m bgl. Colour change to red and brown from 2.4 m bgl. No odour from 2.8 m bgl.			2			Y		84.3	LE_MW03_2.0	
			3			Y		0	LE_MW03_2.8	
Sandy Clay Brown, soft, moist, medium plastic, heterogeneous, gravel inclusions, no stain, no odour. Saturated from 3.2 m bgl.			4					0		
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

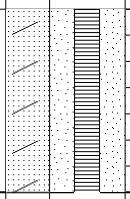
Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **5.7**	Final Water Level (m bgl): **2.077**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.9**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.83**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309897.96**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416310.39**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.2**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
										
End of Log			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **7.3**	Final Water Level (m bgl): **2.495**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.87**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.8**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309889.202**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416356.688**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Topsoil.								0		
Fill Fill, hydrocarbon odour present at 0.3 m bgl, rock fractured at 1.4 m bgl.					DS	Y		23.3	LE_MW04_0.5	
			1		DS	Y		121.2	LE_MW04_1.0	
Gravelly Clay Gravelly clay, damp, grey, stiff, low plasticity, staining and hydrocarbon odour present, heterogeneous.						Y		374.4	LE_MW04_2.0	
Clay Clay, damp, grey, soft, medium plasticity, hydrocarbon odour present, heterogeneous. Sandy clay layer from 2.2 to 2.5 m bgl. Colour becoming dark brown at 2.5 m bgl. Very stiff from 3.0 m bgl.			2							
			3					14.8		
			4			Y		9.9	LE_MW04_4.0	
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **7.3**	Final Water Level (m bgl): **2.495**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.87**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.8**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309889.202**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416356.688**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **2.240**
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.26**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.09**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **309833.973**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416419.167**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, grey, dry, hard, friable.					DS	Y		0	LE_M05_0.1	
								0		
Siltstone Reddish brown, dry. Colour change to brown from 4.0 m bgl.			1							
			2							
			3			Y			LE_MW05_3.0	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **2.240**
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.26**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.09**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **309833.973**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416419.167**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW06

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **5.5**	Final Water Level (m bgl): **2.547**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.38**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.29**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309854.847**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416320.502**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen					DS	Y		0	LE_MW06_0.1	
Fill High rock content.								0		
			1					0		
Gravelly Clay Brown, soft, moist, medium plastic, heterogeneous, gravel inclusions, no stain, no odour.								0		
Clay Reddish brown/grey, moist, medium stiff, non plastic, heterogeneous, no stain, no odour.			2					0		
						Y		0	LE_MW06_2.5	
Sandy Clay Red, light brown and grey, damp, soft, medium plastic, heterogeneous. Layer of red siltstone from 3.0 to 3.2 m bgl. Sand content increasing from 3.5 m bgl. Saturated from 3.5 m bgl.			3					0.1		
			4					0		
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW06

ERM

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Drill Start Date: **29/11/2013**	Total Depth (m): **5.5**	Final Water Level (m bgl): **2.547**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.38**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.29**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309854.847**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416320.502**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
End of Log			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **3.06**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.24**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.13**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **309882.186**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416396.246**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill			1							
Clay Light brown, dry, friable, non plastic, siltstone throughout, heterogeneous. Colour change to dark brown and oily odour from 2.0 m bgl. Colour change to grey and red from 2.8 m bgl.			2					0.2		
			3					121.4		
			4							
Siltstone Weathered, orange/brown, damp, oily odour.			5					14.9		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW07

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **3.06**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.24**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.13**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **309882.186**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416396.246**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **2.900**
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.16**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.04**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **309866.405**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416408.22**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass.								0		
Clay Brown, moist, soft, plastic, with gravel.								0		
			1					0		
			2							
			3							
Clay Reddish brown, damp, soft, low plastic, hydrocarbon odour, no stain. Colour change to brown from 6.0 m bgl.										
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **2.900**
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.16**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.04**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **309866.405**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416408.22**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW09

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **2.810**
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.17**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.04**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **309850.154**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416416.794**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass.								0		
Clay Grey, dry, hard, friable.								0		
			1					0		
Sandy Clay Grey, damp, medium stiff, medium plastic, hydrocarbon odour.								12.3		
Clay Reddish brown, damp, soft, low plastic, hydrocarbon odour, heterogeneous. Colour change to brown from 4.0 m bgl.			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_MW09

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **2.810**
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.17**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.04**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **309850.154**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416416.794**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_SB03

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **309862**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416385**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill			1							
Clay Grey/red/brown, dry, very stiff, low plastic, heterogeneous, hydrocarbon odour.			2			Y		5.9 37.2	LE_SB03_2.3	
			3							
End of Log			4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_SB04

ERM

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Drill Start Date: **29/11/2013**	Total Depth (m): **2.6**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm):	Easting (MGA): **309820**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416408**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass **Fill**								0		
					DS	Y		0	LE_SB04_0.5	
			1					1.8		
								0.3		
Clay With sand, grey, damp, medium plastic, homogeneous. Hydrocarbon odour from 2.0 m bgl.										
			2			Y		12.76	LE_SB04_2.0	
			3			Y			LE_SB04_3.0	
Clay With sand, yellowish brown, medium plastic, homogeneous, no stain, no odour.								0.3		
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_SB05

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil**	Casing Diam. (mm):	Easting (MGA): **309849**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416358**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass. **Fill**								0		
					DS	Y		0	LE_SB05_0.5	
			1					0		
Sandy Clay Dark brown, damp, soft, medium plastic, homogeneous, no stain, no odour.								0		
			2					0		
Clay Reddish brown/grey, dry, low plastic, heterogeneous, no stain, no odour.										
			3			Y		0.1	LE_SB05_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_SB06

ERM

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Drill Start Date: **12/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil**	Casing Diam. (mm):	Easting (MGA): **309896**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416290**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.								0		
Fill					DS	Y		0	LE_SB06_0.5	
Clay With gravel, dark grey/brown, damp, medium still, low plastic, hydrocarbon odour and staining.			1		DS	Y		272.9	LE_SB06_1.0	
								175.2		
			2					7		
								135.6		
Sandy Clay With gravel inclusions, brown, damp, soft, low plastic, heterogeneous, no stain, no odour.			3			Y		3.7	LE_SB06_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_SB07

ERM

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Drill Start Date: **12/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **22/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil**	Casing Diam. (mm):	Easting (MGA): **309869**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416289**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass **Fill**								0		
					DS	Y		0	LE_SB07_0.5	
Fill Rocks, shale rock.			1							
Gravelly Clay Dark grey, soft, medium plastic, heterogeneous, hydrocarbon odour and staining.						Y		103	LE_SB07_1.6	
Clay Brown, damp, soft, medium plastic, heterogeneous, no stain, no odour. Colour change to dark grey from 2.4 m bgl.			2			Y		1.3	LE_SB07_2.3	
			3					1.3		
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_SB08

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil**	Casing Diam. (mm):	Easting (MGA): **309870**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416337**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass. **Fill**								0		
					DS	Y		0	LE_SB08_0.5	
			1					0		
								0		
Clay Brown, damp, stiff, low plastic, heterogeneous, no stain, no odour. Colour change to dark brown from 2.6 m bgl.			2					0		
			3			Y		0	LE_SB08_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LE_SB09

ERM Australia Pty Ltd

Drill Start Date: **12/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil**	Casing Diam. (mm):	Easting (MGA): **309890**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416410**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill			1							
Clay Brown, dry, friable, non plastic. Hard and low plastic from 1.8 m bgl. Medium plastic from 2.0 m bgl. Colour change to red from 2.3 m bgl.			2					112		
			3			Y		180	LE_SB09_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LF_MW01

ERM

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Drill Start Date: **21/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309640**
Drill Method: **NDD, PT,SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416612**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete Fair condition.					DS	Y		0	LF_MW01_0.1	
Gravelly Sand Grey, dry, very hard, poorly sorted.								0		
			1					0		
Sandstone										
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By:_____
Checked By:_____

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LF_MW01

ERM

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Drill Start Date: **21/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309640**
Drill Method: **NDD, PT,SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416612**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: _____
Checked By: _____

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LF_SB01

ERM

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Drill Start Date: **21/11/2013**	Total Depth (m): **0.5**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309655**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416601**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LF_SB01_0.1	
Sand Grey, hard, poorly sorted.								0		
End of Log			1 2 3 4 5					0		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: _____
Checked By: _____

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LF_SB02

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Drill Start Date: **21/11/2013**	Total Depth (m): **0.6**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309647**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416604**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y			LF_SB02_0.1	
Sand With gravel, grey/brown, dry, poorly sorted.					DS	Y		0	LF_SB02_0.5	
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: _____
Checked By: _____

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LF_SB03

ERM

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Drill Start Date: **21/11/2013**	Total Depth (m): **0.3**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309643**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416597**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LF_SB03_0.1	
Sand										
With gravel, grey/brown, dry, poorly sorted, angular.					DS	Y		0	LF_SB03_0.3	
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: _____
Checked By: _____

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LF_SB04

ERM

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Drill Start Date: **21/11/2013**	Total Depth (m): **0.6**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA):
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA):
Hole Type:	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LF_SB04_0.1	
Sand Grey, dry, dense, poorly sorted.										
					DS	Y		0	LF_SB04_0.6	
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: _____
Checked By: _____

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LG_MW01

ERM

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Drill Start Date: **2/12/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **2.251**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **133.35**
Drill Co: **NUMAC**	Casing Type: **PVC**	Elevation (Case): **133.23**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309745.074**
Drill Method: **CC, NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416759.355**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Gravely clay, soft, poorly sorted.					DS	Y		0	LG_MW01_0.5	
Fill Gravel, dry, poorly sorted, sub rounded.			1					0		
Silty Clay Reddish brown and brown, damp, medium stiff to stiff, low to no plasticity, siltstone fragments present.						Y		0	LG_MW01_1.5	
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LG_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **2/12/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **2.251**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **133.35**
Drill Co: **NUMAC**	Casing Type: **PVC**	Elevation (Case): **133.23**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309745.074**
Drill Method: **CC, NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416759.355**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
End of Log			7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LG_MW02

ERM Australia Pty Ltd

Drill Start Date: **5/10/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **2.400**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **133.5**
Drill Co: **NUMAC**	Casing Type: **PVC**	Elevation (Case): **133.39**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309736.374**
Drill Method: **CC, NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416756.279**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LG_MW02_0.1	
Fill								0		
Silty Clay Reddish brown and brown, dry, medium stiff to stiff, no plasticity, siltstone fragments present.			1		DS	Y		0	LG_MW02_1.0	
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LG_MW02

ERM

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Drill Start Date: **5/10/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **2.400**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **133.5**
Drill Co: **NUMAC**	Casing Type: **PVC**	Elevation (Case): **133.39**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309736.374**
Drill Method: **CC, NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416756.279**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LG_MW03

ERM

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Drill Start Date: **2/12/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **2.420**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **133.53**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.41**
Driller: **Matt, Paul**	Casing Diam. (mm): **50**	Easting (MGA): **309736.609**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416762.918**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Rocks.					DS	Y		0	LG_MW03_0.5	
Silty Clay Brown, moist to dry, medium stiff, low plasticity, heterogeneous siltstone fragments present.			1		DS	Y			LG_MW03_1.0	
Siltstone Bedrock			2					0.4		
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LG_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **2/12/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **2.420**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **133.53**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.41**
Driller: **Matt, Paul**	Casing Diam. (mm): **50**	Easting (MGA): **309736.609**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416762.918**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LH_MW01

ERM

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Drill Start Date: **10/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **1.862**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.16**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.1**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **309776.871**
Drill Method: **NDD, PT, SFA, AM**	Surface Completion: **Gatic**	Northing (MGA): **6416419.689**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete										
Fill					DS	Y			LH_MW01_0.5	
Sandstone Dry, yellowish brown, well sorted.			1		DS	Y			LH_MW01_1.0	
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LH_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **1.862**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.16**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.1**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **309776.871**
Drill Method: **NDD, PT, SFA, AM**	Surface Completion: **Gatic**	Northing (MGA): **6416419.689**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LH_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **20/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **2.045**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.26**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.2**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **309766.966**
Drill Method: **NDD, PT, SFA, AM**	Surface Completion: **Gatic**	Northing (MGA): **6416396.697**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Rock					DS	Y			LH_MW02_0.5	
Clay Clay with bonds of weathered siltstone, dry, friable, non-plastic no stain, no odour, grey and reddish brown.			1			Y			LH_MW02_1.6	
Siltstone Brown, dry.			2			Y			LH_MW02_1.87	
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LH_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **20/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **2.045**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.26**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.2**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **309766.966**
Drill Method: **NDD, PT, SFA, AM**	Surface Completion: **Gatic**	Northing (MGA): **6416396.697**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Shale Grey, dry.			6 7 8							
End of Log			9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LH_MW03

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **1.878**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.27**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.19**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **309802.874**
Drill Method: **NDD, PT, SFA, AM**	Surface Completion: **Gatic**	Northing (MGA): **6416365.018**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y			LH_MW03_0.1	
Fill Bricks throughout.			1							
Clay Grey/red, dry, very stiff, non-plastic, no stain, no odour, grey and reddish brown.			2							
			3			Y			LH_MW03_3.0	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LH_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **1.878**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.27**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.19**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **309802.874**
Drill Method: **NDD, PT, SFA, AM**	Surface Completion: **Gatic**	Northing (MGA): **6416365.018**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LH_SB01

ERM

ERM Australia Pty Ltd

Drill Start Date: **30/11/2012**	Total Depth (m): **2.0**	Final Water Level (m bgl):
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Adam**	Casing Diam. (mm):	Easting (MGA): **309769**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416388**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Grass over fill.					DS	Y			LH_SB01_0.5	
Sandy Clay Grey and reddish brown, dry, friable, non plastic, no stain, no odour, heterogeneous.			1			Y			LH_SB01_2.0	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **3/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **5.818**
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **139.23**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **140.12**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **308935.245**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415938.168**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil					DS	Y		0	LI_MW01_0.1	
Clay Orange, dry, stiff, non plastic, with gravel.			1					0 0		
Clay Light brown/grey, dry, friable, non plastic, heterogeneous, no stain, no odour. Bands of fully weathered siltstone from 2.0 m bgl. Colour change to brown and moist from 5.0 m bgl.			2 3			Y		0 0 0	LI_MW01_3.2	
			4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **3/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **5.818**
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **139.23**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **140.12**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **308935.245**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415938.168**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **15/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **2.425**
Drill Finish Date: **22/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.51**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.41**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309562.848**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416118.118**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel, coal.					DS	Y		0	LI_MW02_0.1	
Clay Brown, dry, medium stiff, medium plastic.								0		
			1					0		
Clay Dark grey with red throughout, dry, stiff, low plastic, heterogeneous, some gravel and sand throughout, poorly sorted.								0		
Clay Light grey, dry, very stiff, non plastic, homogeneous. Becoming harder from 4.6 m bgl. Colour change to brown from 6.0 m bgl. Shale present from 8.0 m bgl.			2							
			3			Y		0	LI_MW02_3.0	
			4					0		
			5			Y			LI_MW02_4.8	
								0		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW02

ERM

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Drill Start Date: **15/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **2.425**
Drill Finish Date: **22/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.51**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.41**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309562.848**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416118.118**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW03

ERM Australia Pty Ltd

Drill Start Date: **15/11/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **3.730**
Drill Finish Date: **22/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.42**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.33**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309547.203**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415959.635**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Clay Dry, hard, friable.					DS	Y		0	LI_MW03_0.1	
								0		
			1					0		
								0		
Clay Brown with yellow throughout, dry, friable, heterogeneous, non plastic, no stain, no odour.			2					0.6		
			3			Y		0.3	LI_MW03_3.0	
Shale (Weathered) Dark brown, dry, no stain, no odour.			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **15/11/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **3.730**
Drill Finish Date: **22/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.42**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.33**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309547.203**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415959.635**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
End of Log			7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW04

ERM

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Drill Start Date: **15/11/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **3.675**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **132.75**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.66**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309519.198**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415808.16**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.7**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.								0		
Fill					DS	Y		0	LI_MW04_0.5	
			1					0		
Clay Brown, dry, friable, non plastic, homogeneous, no stain, no odour. Colour change to grey with red mottling from 2.6 m bgl. Slightly moist from 2.9 m bgl.			2					0.3		
			3			Y		0.8	LI_MW04_3.0	
			4					0.6		
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **15/11/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **3.675**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **132.75**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.66**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309519.198**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415808.16**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.7**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
End of Log			7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW05

ERM Australia Pty Ltd

Drill Start Date: **15/11/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **2.905**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.91**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.82**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309503.778**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415700.965**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.								0		
Fill					DS	Y		0	LI_MW05_0.5	
			1					0		
Clay Brown, dry, hard, friable. Light brown and moist from 2.2 m bgl. Grey staining from 3.3 m bgl.			2							
			3			Y			LI_MW5_3.0	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **15/11/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **2.905**
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.91**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.82**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309503.778**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415700.965**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
End of Log			7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW06

ERM Australia Pty Ltd

Drill Start Date: **15/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **2.985**
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.31**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.25**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309437.195**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415600.129**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Coal								0		
					DS	Y		0	LI_MW06_0.5	
Clay Grey/brown, moist, stiff, low plastic.			1					0		
Clay Black, dry, friable, non plastic, heterogeneous, no stain, no odour.			2					0		
Gravelly Clay Dark brown, moist, soft, low plastic, heterogeneous, no stain, no odour.			3					0		
			4			Y		0	LI_MW06_4.0	
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW06

ERM

ERM Australia Pty Ltd

Drill Start Date: **15/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **2.985**
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.31**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.25**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309437.195**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415600.129**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Clay Brown with red mottling, saturated, soft, highly plastic, homogeneous, no stain, no odour, gravel inclusions throughout.			6 7 8							
End of Log			9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW07

ERM

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Drill Start Date: **26/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **3.455**
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.25**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.16**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309338.853**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415571.383**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Coal								0		
					DS	Y		0	LI_MW07_0.5	
Clay Brown, moist, stiff, low plastic.			1					0		
Clay Orange/grey mottled, dry, low plastic, with medium to coarse angular shale gravel. Layer of gravelly sand from 3.0 to 3.2 m bgl. Some coal inclusions from 3.9 to 4.2 m bgl.			2					0 0.1		
			3			Y		0.2	LI_MW07_2.9-3.0	
			4					0.3		
Gravelly Clay Orange and grey/brown.			5					0.2		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **26/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **3.455**
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.25**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.16**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309338.853**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415571.383**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **4/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **4.129**
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.79**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.72**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **309199.726**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415589.122**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Coal								0		
					DS	Y		0	LI_MW08_0.5	
Clay Orange/brown, moist, stiff, low plastic.			1					0		
Gravelly Clay Dark brown, dry, stiff, non plastic, heterogeneous, no stain, no odour.			2					0		
Coal Black, dry.			3					0		
						Y		0	LI_MW08_3.6	
Clay Dark brown, damp, stiff, low plastic, homogeneous, no stain, no odour. Colour change to light brown from 4.0 m bgl.			4					0		
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **4/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **4.129**
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.79**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.72**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **309199.726**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415589.122**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW09

ERM

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Drill Start Date: **16/12/2013**	Total Depth (m): **8.5**	Final Water Level (m bgl): **1.678**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **130.47**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **131**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **308977.731**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6415486.844**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Coal, black, moist, soft, friable.					DS	Y		0 0 0	LI_MW09_0.2	
Clay Light brown with orange brown mottling, moist, highly plastic, no stain, no odour. Occasional red ironstone gravel inclusions.			1 2 3 4 5			Y		0 0 0.1 0	LI_MW09_2.8	

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_MW09

ERM

ERM Australia Pty Ltd

Drill Start Date: **16/12/2013**	Total Depth (m): **8.5**	Final Water Level (m bgl): **1.678**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **130.47**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **131**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **308977.731**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6415486.844**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_SB01

ERM

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Drill Start Date: **12/12/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm):	Easting (MGA): **309055**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6415616**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, grey, brown, red and dark grey, dry becoming moist, low plastic, gravel throughout, heterogeneous. Becoming harder from 1.2 m bgl.								0.1 0.5		
					DS	Y		0.1	LI_SB01_0.4	
			1							
			2					0.2		
						Y			LI_SB01_2.7	
Coal Black, wet, compacted.			3							
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_SB02

ERM

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Drill Start Date: **12/12/2013**	Total Depth (m): **1.6**	Final Water Level (m bgl):
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm):	Easting (MGA): **308908**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6415709**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, grey to dark grey with some brown, dry, plastic, gravel throughout, no stain, no odour.					DS	Y		0 0.1	LI_SB02_0.2	
Fill Coal, gravelly, compacted.			1					0.1		
						Y			LI_SB02_1.6	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_SB03

ERM

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Drill Start Date: **4/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl):
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Adam**	Casing Diam. (mm):	Easting (MGA): **309000**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416167**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill			1					0		
Clay Brown/grey, dry, friable, non plastic, heterogeneous, no stain, no odour. Red band from 1.5 to 1.7 m bgl. Light brown from 2.8 m bgl. Moist from 9.0 m bgl.			2					0		
			3			Y		0	LI_SB03_2.8	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_SB03

ERM

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Drill Start Date: **4/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl):
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Adam**	Casing Diam. (mm):	Easting (MGA): **309000**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416167**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_SB04

ERM

ERM Australia Pty Ltd

Drill Start Date: **16/12/2013**	Total Depth (m): **1.4**	Final Water Level (m bgl):
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **80**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Michael**	Casing Diam. (mm):	Easting (MGA): **308923**
Drill Method: **Hand Auger**	Surface Completion: **Backfilled**	Northing (MGA): **6415378**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Coal Black, dry, fine to medium grained, friable.					DS	Y		0.1 0.1	LI_SN04_0.1	
Clay Brown with minor red mottling, moist, highly plastic, very stiff, minor red gravel inclusions. Becoming yellow with grey and red mottling, very hard.			1		DS	Y		0 0	LI_SB04_1.0	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LI_SB05

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **3.1**	Final Water Level (m bgl):
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm):	Easting (MGA): **308947**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6415340**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel								0		
Fill Coal with gravel, black, moist, very soft, very loose, poorly sorted.					DS	Y		0	LI_SB05_0.5	
			1					0		
Coal Clayey, black, wet, soft.								0		
			2					0		
Clay Some sand, light brown, moist, soft, highly plastic.								0		
						Y			LI_SB05_2.5	
Clay Gravelly, brown, moist, soft, highly plastic.			3					0.1		
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_MW01

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **5.0**	Final Water Level (m bgl): **1.212**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **133.73**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.64**
Driller: **Matt, Paul**	Casing Diam. (mm): **50**	Easting (MGA): **309698.001**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416794.198**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LJ_MW01_0.1	
Fill Gravelly clay.								0		
					DS	Y		0	LJ_MW01_0.8	
Fill Sand and gravel, grey, dry, very lose, non plasticity, poorly sorted, heterogeneous, no stain, no odour.			1							
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RW**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_MW02

ERM

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Drill Start Date: **3/12/2013**	Total Depth (m): **4.35**	Final Water Level (m bgl): **1.932**
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **133.14**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.04**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309809.975**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416767.145**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0.1		
Fill Gravelly silty clay, grey, dark grey and reddish brown, damp, medium stiff, medium plasticity, homogeneous.					DS	Y		0.1	LJ_MW02_0.5	
Silty Clay Grey and reddish brown, damp, medium stiff to stiff, low to no plasticity, heterogeneous, siltstone and quartz present			1					0		
Siltstone Brown, dry, hard. Slight hydrocarbon odour from 1.5 m bgl.			2					7		
			3			Y		27.4	LJ_MW02_3.0	
Siltstone Reddish brown, moist to very moist, increased hydrocarbon like odour.			4					6.7		
End of Log			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_MW03

ERM Australia Pty Ltd

Drill Start Date: **3/12/2013**	Total Depth (m): **0.35**	Final Water Level (m bgl):
Drill Finish Date: **3/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309908**
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA): **6416747**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LJ_MW03_0.2	
Fill Gravelly silty clay, light reddish brown and grey, damp, medium stiff, medium plasticity, homogeneous.					DS	Y			LJ_MW03_0.5	
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_MW04

ERM

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Drill Start Date: **3/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **3.438**
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **133.04**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **132.95**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309922.852**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416770.49**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravelly silty clay, dark brown and grey, damp, medium stiff, low plasticity, heterogeneous, rootlet inclusions.								0		
Fill Light brown and brown, medium stiff, medium plasticity, no rootlets.					DS	Y		0	LJ_MW04_0.5	
Silty Clay Reddish brown, damp, stiff, low plasticity, homogenous.			1					0		
Silty Clay Reddish brown and light grey, siltstone present.								0.1		
Silty Clay Medium stiff to stiff, low to no plasticity.			2					0		
Silty Clay Reddish brown and moist.			3					0		
						Y		0	LJ_MW04_3.5	
			4					0		
			5					0		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_MW04

ERM
ERM Australia Pty Ltd

Drill Start Date: **3/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **3.438**
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **133.04**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **132.95**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309922.852**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416770.49**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Silty Clay Brown.			6					0		
			7					0		
Silty Clay Very moist and dark brown.			8					0		
Silty Clay Saturated, brown and grey, increased clay content, no siltstone.			9					0		
			10					0		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_SB02

ERM

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Drill Start Date: **3/12/2013**	Total Depth (m): **3.3**	Final Water Level (m bgl):
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **90**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309910**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416765**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravelly silty clay, brown and grey, dry, medium stiff, low plasticity, heterogeneous, rootlet inclusion.								0		
Fill Reddish brown, stiff, slight hydrocarbon like odour.								18.2		
Silty Clay Reddish brown and light grey, medium stiff to stiff, low plasticity, homogenous, hydrocarbon like odour, minor gravels.			1		DS	Y		37.8	LJ_SB02_1.0	
								25.6		
Silty Clay Increased silt content, no plasticity to low plasticity, no gravels .			2			Y		45.7	LJ_SB02_2.0	
Silty Clay Hydrocarbon like odour.			3					1.7		
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_SB03

ERM

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Drill Start Date: **3/12/2013**	Total Depth (m): **3.3**	Final Water Level (m bgl):
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **90**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309887**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416778**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravelly silty clay, brown, dry, medium stiff, low plasticity, heterogeneous, rootlet inclusions.								0		
					DS	Y		0	LJ_SB03_0.5	
Silty Clay Reddish brown and light grey, damp, medium stiff, low plasticity, homogenous, minor gravel inclusions.										
Silty Clay Siltstone present.			1							
Silty Clay Stiff to very stiff, low to no plasticity.								0		
			2					0		
						Y		0	LJ_SB03_3.0	
			3							
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_SB04

ERM

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Drill Start Date: **3/12/2013**	Total Depth (m): **2.1**	Final Water Level (m bgl):
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **90**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309900**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416755**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravelly clayey silt, brown, dry, loose, rootlet inclusions.								0		
Fill Gravelly silty clay, reddish brown and brown, dry, stiff, low plasticity, heterogeneous.					DS	Y		0	LJ_SB04_0.5	
			1							
Silty Clay Reddish brown and light grey, dry, stiff, no plasticity, homogenous, siltstone fragments present.			2			Y		0	LJ_SB04_2.0	
End of Log			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_SB06

ERM

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Drill Start Date: **3/12/2013**	Total Depth (m): **1.55**	Final Water Level (m bgl):
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **90**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309858**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416750**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Gravelly sandy silty clay, brown and grey, damp, medium stiff, medium plasticity, heterogeneous.					DS	Y		0	LJ_SB06_0.5	
Gravelly Clay With Silt Increase in gravel, reddish brown and grey, soft, low plasticity, cobbles present.										
siltstone Light grey and reddish brown, dry, hard.			1					0		
						Y		0	LJ_SB06_1.5	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_SB07

ERM

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Drill Start Date: **3/12/2013**	Total Depth (m): **0.85**	Final Water Level (m bgl):
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **90**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309836**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416757**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0.1		
Fill Gravelly silty clay, grey, dark grey and reddish brown, damp, medium stiff, medium plasticity, heterogeneous.					DS	Y		0.1	LJ_SB07_0.5	
Increase in gravels, light grey and brown, soft, low plasticity, large cobbles present.					DS	Y		0	LJ_SB07_0.8	
siltstone Reddish brown, dry, hard.			1							
End of Log			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_SB08

ERM

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Drill Start Date: **7/12/2013**	Total Depth (m): **1.2**	Final Water Level (m bgl):
Drill Finish Date: **11/12/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309800**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416770**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete										
Fill										
			1		DS	Y		0	LJ_SB08_1.0	
Sandy Clay With some gravel, dark brown, moist, medium plasticity, stiff, heterogeneous, no stain, no odour.										
End of Log			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_SB09

ERM

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Drill Start Date: **5/12/2013**	Total Depth (m): **1.3**	Final Water Level (m bgl):
Drill Finish Date: **6/12/2013**	Hole Diam. / Width (mm): **90**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309767**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416780**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Sand, brown, coarse grained, well sorted. Rocks from 0.3 m bgl.					DS	Y		0	LJ_SB09_0.5	
Siltstone Brownish grey, dry, hard.			1					0		
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_SB10

ERM

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Drill Start Date: **5/12/2013**	Total Depth (m): **1.2**	Final Water Level (m bgl):
Drill Finish Date: **6/12/2013**	Hole Diam. / Width (mm): **90**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309729**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416802**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LJ_SB10_0.1	
Fill								0		
Siltstone Brownish grey, dry, hard, minor clay.			1		DS	Y		0	LJ_SB10_1.0	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_SB11

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **6/12/2013**	Hole Diam. / Width (mm): **90**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309713**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416790**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Gravelly silty clay, reddish brown, damp, soft to medium stiff, low to medium plasticity, heterogeneous, cobble inclusions					DS	Y		0	LJ_SB11_0.5	
Silty Clay Large cobbles										
Natural, reddish brown and light grey, moist, soft to medium plasticity, siltstone fragments present			1					0		
Greyish brown and reddish brown			2							
			3			Y		0	LJ_SB11_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LJ_SB12

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **1.3**	Final Water Level (m bgl):
Drill Finish Date: **6/12/2013**	Hole Diam. / Width (mm): **90**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309733**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416788**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Gravelly silty clay, brown and reddish brown, damp, medium stiff, low to medium plasticity.					DS	Y		0	LJ_SB12_0.5	
Fill Siltstone fragments present.			1							
Siltstone Reddish brown, dry, hard.					DS	Y		0	LJ_SB12_1.2	
End of Log			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **14.0**	Final Water Level (m bgl):
Drill Finish Date: **11/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309640**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416976**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Sand Brown, dry, hard, moderately sorted, no odour.					DS	Y		0	LK_MW01_0.1	
Fill Clay, brown, dry, hard, friable, rocks of all sizes throughout.					DS	Y		0	LK_MW01_0.5	
			1					0.1		
								0.2		
Clay Brown with grey layers, friable, dry, non plasticity, no odour, no stain, stratified, mudstone inclusions from 2.9 m bgl.			2					0		
			3					0		
			4					0		
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **14.0**	Final Water Level (m bgl):
Drill Finish Date: **11/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309640**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416976**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6					0		
								0.2		
			7			Y			LK_MW01_7.0	
			8							
Siltstone Brown, dry.			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **14.0**	Final Water Level (m bgl):
Drill Finish Date: **11/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309640**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416976**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
End of Log			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **14.0**	Final Water Level (m bgl):
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac, Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Numac**	Casing Diam. (mm):	Easting (MGA): **309586**
Drill Method: **NDD, PT, SFA, HA**	Surface Completion: **Backfilled**	Northing (MGA): **6416893**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Sand Brown, dry, loose, moderately sorted, organic matter present.					DS	Y		0.2	LK_MW02_0.1	
								0		
Gravel Medium to large angular.					DS	Y		0.5	LK_MW02_0.5	
Sandy Clay Brown, moist, medium plasticity, hard.			1					0.3		
Gravel Medium to large angular.										
Clay Dark brown, moderate soft, moderate plasticity.								0.6		
			2					0		
Clay Brown grey (stratified), dry, friable, non plastic, no odour, no stain.						Y		0	LK_MW02_2.9	
			3							
			4							
Siltstone Brown, dry.			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **14.0**	Final Water Level (m bgl):
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac, Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Numac**	Casing Diam. (mm):	Easting (MGA): **309586**
Drill Method: **NDD, PT, SFA, HA**	Surface Completion: **Backfilled**	Northing (MGA): **6416893**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **14.0**	Final Water Level (m bgl):
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac, Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Numac**	Casing Diam. (mm):	Easting (MGA): **309586**
Drill Method: **NDD, PT, SFA, HA**	Surface Completion: **Backfilled**	Northing (MGA): **6416893**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Shale Grey, dry.			11 12 13 14							
End of Log			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **12.0**	Final Water Level (m bgl):
Drill Finish Date: **11/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309600**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416967**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Clay Dry, hard, non plastic, friable, rocks throughout.					DS	Y		0	LK_MW03_0.1	
								0		
					DS	Y		0	LK_MW03_0.5	
			1					0.2		
Fill Clay, dry, hard, non plastic, friable, rocks throughout.										
Clay Brown, grey, red (stratified), dry, friable, non plastic no stain, no odour, coarse gravel inclusions throughout.			2					0		
			3					0		
			4					0		
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_MW03

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **12.0**	Final Water Level (m bgl):
Drill Finish Date: **11/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309600**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416967**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Clay Brown, damp, stiff, non plastic, no stain, no odour, homogenous.			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **12.0**	Final Water Level (m bgl):
Drill Finish Date: **11/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309600**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416967**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
End of Log			13							
			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_SB01

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **11/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309622**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416948**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Sand Brown, dry, hard, moderately sorted, no odour.					DS	Y		0	LK_SB01_0.1	
					DS	Y		0	LK_SB01_0.5	
Sand Brown, dry, hard, moderately sorted, no odour, rocks present.										
Sandy Clay Light brown, dry, hard, poorly sorted, friable, no odour.			1					0		
Clay Red, brown, hard, non plastic, friable.								0		
Clay Grey, brown, dry, friable, stratified, no odour, no stain, non plastic.			2					0		
			3					0		
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA, JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LK_SB02

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **13/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309629**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416921**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Sand Brown, dry, loose, moderately sorted, no odour.					DS	Y		0.6	LK_SB02_0.1	
Clay Sandy, light brown, moist, low plasticity, no odour, stratified from 2.0 m bgl (grey/brown/red).			1		DS	Y		0.1 0.2 0 0	LK_SB02_0.5	
			2							
			3			Y		0	LKSB02_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **3.657**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **134.32**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **134.23**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308782.993**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414580.515**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **10.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With grass. **Clay** Brown, dry, stiff, low plastic, some sand. Soft brown gravelly clay layers between 2.5 and 3.0 m bgl.			1 2							Formerlly LL_SB06
			3		DS	Y		0.2	LL_MW01_3.0	
Clay Orange brown/grey mottled, dry, stiff, rare sandy lenses, organic matter. Increasingly stiff and grey from 4.0 m bgl.			4					0.4		
			5					0.6		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **3.657**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **134.32**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **134.23**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308782.993**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414580.515**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **10.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Shale Grey, dry, moderately weathered.			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **3.657**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **134.32**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **134.23**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308782.993**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414580.515**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **10.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
End of Log			12 13 14 15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl): **10.905**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **135.13**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **135.02**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308755.287**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414598.053**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **19.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With grass.								0		
Clay Grey/red, dry, hard, low plastic.					DS	Y		0	LL_MW02_0.5	
			1					0		
								0		
Clay Orange/grey mottled.			2			Y		0	LL_MW02_2.0	
			3					2.9		
Shale Grey, dry, moderately weathered.			4					5.5		
			5					1.3		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl): **10.905**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **135.13**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **135.02**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308755.287**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414598.053**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **19.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6					2		
			7					0.8		
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW02

ERM

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Drill Start Date: **28/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl): **10.905**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **135.13**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **135.02**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308755.287**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414598.053**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **19.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl): **10.905**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **135.13**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **135.02**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308755.287**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414598.053**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **19.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			16							
			17							
			18							
			19							
			20							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW03

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl): **4.669**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **136.29**
Drill Co: **Matrix**	Casing Type: **uPVC**	Elevation (Case): **136.2**
Driller: **Phil, Paul**	Casing Diam. (mm): **50**	Easting (MGA): **308736.306**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414609.083**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With grass.								0		
Clay Red and grey, dry, stiff, low plastic.								0		
			1					0		
								0		
						Y		0	LL_MW03_1.9	
			2							
			3					3.5		
			4					2.9		
			5					9.2		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW03

ERM
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Drill Start Date: **28/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl): **4.669**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **136.29**
Drill Co: **Matrix**	Casing Type: **uPVC**	Elevation (Case): **136.2**
Driller: **Phil, Paul**	Casing Diam. (mm): **50**	Easting (MGA): **308736.306**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414609.083**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl): **4.669**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **136.29**
Drill Co: **Matrix**	Casing Type: **uPVC**	Elevation (Case): **136.2**
Driller: **Phil, Paul**	Casing Diam. (mm): **50**	Easting (MGA): **308736.306**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414609.083**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl): **4.669**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **136.29**
Drill Co: **Matrix**	Casing Type: **uPVC**	Elevation (Case): **136.2**
Driller: **Phil, Paul**	Casing Diam. (mm): **50**	Easting (MGA): **308736.306**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414609.083**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			16							
			17							
			18							
			19							
			20							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl):
Drill Finish Date: **28/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Adrian, Adam**	Casing Diam. (mm):	Easting (MGA): **308676**
Drill Method: **PT, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414579**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, brown, dry, hard, friable. Colour change to grey from 1.8 m bgl.			1 2 3 4 5 6 7 8 9 10					0 0 0 0	LL_MW04_2.3	

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl):
Drill Finish Date: **28/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Adrian, Adam**	Casing Diam. (mm):	Easting (MGA): **308676**
Drill Method: **PT, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414579**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
			15							
			16							
			17							
			18							
			19							
			20							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Adrian, Adam**	Casing Diam. (mm):	Easting (MGA): **308694**
Drill Method: **PT, Auger, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414550**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, brown, dry, hard, low plastic.								0		
					DS	Y		0	LL_MW05_0.5	
			1					0		
								0		
Sandy Clay Yellow mottled light blue, dry, stiff, low plastic, heterogeneous, no stain, no odour.			2							
						Y		0.7	LL_MW05_2.3	
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Adrian, Adam**	Casing Diam. (mm):	Easting (MGA): **308694**
Drill Method: **PT, Auger, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414550**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Adrian, Adam**	Casing Diam. (mm):	Easting (MGA): **308694**
Drill Method: **PT, Auger, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414550**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW06

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **2.850**
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **134.79**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **134.7**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308750.484**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414560.269**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With grass.										
Clay Sandy, orange brown, dry, stiff low plastic.			1							
Clay Some sand and rare gravel, red-brown and grey mottled, dry, low plastic, increasing shale gravel with depth.			2					0.2		
			3					0.5		
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW06

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **2.850**
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **134.79**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **134.7**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308750.484**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414560.269**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Shale Brown, dry, moderately weathered. Colour change to pale grey from 6.0 m bgl.			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW06

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **2.850**
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **134.79**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **134.7**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308750.484**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414560.269**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
End of Log			12 13 14 15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **11.5**	Final Water Level (m bgl): **3.85**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **134.62**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **134.52**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308763.548**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414583.492**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **10.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, orange, dry, hard, low plastic. With gravel from 1.2 m bgl. Colour change to orange/grey from 2.4 m bgl. Becoming very stiff from 3.0 m bgl.								0		
					DS	Y		0	LL_MW07_0.5	
			1					0		
								0		
			2					0		
			3			Y		0	LL_MW07_3.0	
Shale Pale grey, dry, hard, moderately weathered.			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW07

ERM
ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **11.5**	Final Water Level (m bgl): **3.85**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **134.62**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **134.52**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308763.548**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414583.492**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **10.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW07

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **11.5**	Final Water Level (m bgl): **3.85**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **134.62**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **134.52**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308763.548**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6414583.492**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **10.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
End of Log			12 13 14 15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**
Drill Finish Date: **28/11/2013**
Drill Co: **Matrix**
Driller: **Phil, Paul**
Drill Method: **NDD, PT, SFA, AH**
Hole Type: **Soil Bore**

Total Depth (m): **20.0**
Hole Diam. / Width (mm): **300**
Casing Type: **Not Applicable**
Casing Diam. (mm): **Not Applicable**
Surface Completion: **Backfilled**
Water Strike (m bgl): **Not Applicable**

Final Water Level (m bgl):
Elevation (Ground): **0**
Elevation (Case): **0**
Easting (MGA): **308678**
Northing (MGA): **6414628**

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete										
Fill Gravelly clay, brown, dry, firm, with medium grained sand.			1							
Clay Orange and grey mottled, dry, firm becoming stiff. Colour change to orange brown from 2.8 m bgl.			2					0.4		
			3			Y		0.2	LL_MW08_3.0	
Shale Pale grey. Moderately weathered.			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl):
Drill Finish Date: **28/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Phil, Paul**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **308678**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Backfilled**	Northing (MGA): **6414628**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl):
Drill Finish Date: **28/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Phil, Paul**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **308678**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Backfilled**	Northing (MGA): **6414628**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW08

ERM

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Drill Start Date: **27/11/2013**	Total Depth (m): **20.0**	Final Water Level (m bgl):
Drill Finish Date: **28/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Phil, Paul**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **308678**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Backfilled**	Northing (MGA): **6414628**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			16							
			17							
			18							
			19							
			20							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW09

ERM

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Drill Start Date: **27/11/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **5.822**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **137.42**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **137.29**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308718.429**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414617.953**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **9.8**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With grass.								0		
Fill Clay, red/grey, dry, soft, low plastic.								0		
			1					0		
Clay Pale grey and orange brown mottled, dry, stiff to very stiff, low plastic.								0		
			2							
Shale Pale grey, dry, moderately weathered.										
			3							
			4		DS	Y		25.5	LL_MW09_4.0	
			5					9.8		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW09

ERM

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Drill Start Date: **27/11/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **5.822**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **137.42**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **137.29**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308718.429**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414617.953**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **9.8**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_MW09

ERM

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Drill Start Date: **27/11/2013**	Total Depth (m): **11.0**	Final Water Level (m bgl): **5.822**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **137.42**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **137.29**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308718.429**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6414617.953**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **9.8**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
End of Log			12 13 14 15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB01

ERM

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **28/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308669**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414629**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Clay, grey/brown, dry, hard, low plastic.			1					0 0 0		
Clay Orange/grey. Dry, hard, friable.			2			Y		0 0	LL_SB01_2.5	
End of Log			3 4 5					0		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB02

ERM

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Drill Start Date: **27/11/2013**	Total Depth (m): **0.85**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade, Jeff**	Casing Diam. (mm):	Easting (MGA): **308691**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414632**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With grass. **Clay** Orange/grey, dry, soft, low plastic. Stiffness increasing with depth.								0 0 0		
End of Log			1			Y			LL_SB02_0.85	
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB03

ERM

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Drill Start Date: **27/11/2013**	Total Depth (m): **1.6**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade, Jeff**	Casing Diam. (mm):	Easting (MGA): **308702**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414619**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With grass.								0		
Clay Orange/grey, dry, stiff, low plastic. Very stiff from 1.0 m bgl. Rare shale gravel from 1.4 m bgl.			1					0		
						Y		0	LL_SB03_1.6	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB07

ERM

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Drill Start Date: **25/11/2013**	Total Depth (m): **0.7**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade, Jeff**	Casing Diam. (mm):	Easting (MGA): **308698**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414604**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.					DS	Y		0	LL_SB07_0.1	
Fill Clay, brown, dry, hard, low plastic, with gravel (road base).								0		
					DS	Y			LL_SB07_0.7	
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB08

ERM

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Drill Start Date: **28/11/2013**	Total Depth (m): **0.65**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Vacu Digga**	Casing Type:	Elevation (Case): **0**
Driller: **Jay**	Casing Diam. (mm):	Easting (MGA): **308687**
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA): **6414592**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Clay Dry, hard, low plastic.								0		
					DS	Y		0	LL_SB08_0.5	
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB09

ERM

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Drill Start Date: **28/11/2013**	Total Depth (m): **1.8**	Final Water Level (m bgl):
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Paul, Adam**	Casing Diam. (mm):	Easting (MGA): **308715**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414593**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Clay, orange/grey, dry, soft, highly plastic.					DS	Y		0	LL_SB09_0.5	
			1					0		
Clay Brown and grey mottled, dry, firm to stiff, low plastic. Very stiff and friable from 1.7 m bgl.								0.1		
End of Log						Y			LL_SB09_1.8-1.9	
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB10

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Drill Start Date: **28/11/2013**	Total Depth (m): **2.0**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade, Jeff**	Casing Diam. (mm):	Easting (MGA): **308723**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414584**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Clay, grey, dry, hard, highly plastic. Hydrocarbon odour from 0.4 m bgl.					DS	Y		0	LL_SB10_0.5	
			1					0		
								0		
								0		
			2			Y			LL_SB10_2.0	
End of Log			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB11

ERM

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Drill Start Date: **30/11/2013**	Total Depth (m): **2.2**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade, Jeff**	Casing Diam. (mm):	Easting (MGA): **308736**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414595**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Clay, dry, soft, low plastic.					DS	Y		0	LL_SB11_0.5	
Clay Orange/grey mottled, dry, very stiff, low plastic.			1					0		
								0		
			2					0		
						Y			LL_SB11_2.2	
End of Log			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB12

ERM

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Drill Start Date: **30/11/2013**	Total Depth (m): **2.2**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade, Jeff**	Casing Diam. (mm):	Easting (MGA): **308732**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414595**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Gravelly sand, orange brown, dry to moist, well compacted, coarse grained, well sorted, angular gravel.					DS	Y		0	LL_SB12_0.5	
Clay Orange/grey mottled, dry, very stiff, low plastic.			1					0		
			2					0.1		
						Y			LL_SB12_2.2	
End of Log			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB13

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **1.9**	Final Water Level (m bgl):
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308721**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414605**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Clay, brown/grey, dry, soft, low plastic. Stiff to very stiff from 1.0 m bgl. Increasing moderately weathered shale from 1.5 m bgl.			1					0 0 0 0		
						Y		0	LL_SB13_1.9	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB14

ERM

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Drill Start Date: **29/11/2013**	Total Depth (m): **1.4**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade, Jeff**	Casing Diam. (mm):	Easting (MGA): **308711**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414589**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Clay, grey, dry, medium stiff, highly plastic.					DS	Y		0.1	LL_SB14_0.5	
			1							
					DS	Y		0	LL_SB14_1.4	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB15

ERM

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Drill Start Date: **30/11/2013**	Total Depth (m): **2.5**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade, Jeff**	Casing Diam. (mm):	Easting (MGA): **308727**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414585**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Clayey gravel, brown, dry, loose, poorly sorted.					DS	Y		0	LL_SB15_0.5	
			1					0		
								0		
			2					0		
								0		
Clay Orange/grey mottled, dry, very stiff, low plastic.						Y			LL_SB15_2.5	
End of Log			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB17

ERM

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Drill Start Date: **30/11/2013**	Total Depth (m): **1.3**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Vacu Digga**	Casing Type:	Elevation (Case): **0**
Driller: **Jay**	Casing Diam. (mm):	Easting (MGA): **308704**
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA): **6414581**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LL_SB17_0.1	
Fill Clay, orange/brown, dry, soft, highly plastic.			1					0 0		
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LL_SB18

ERM

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Drill Start Date: **27/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil, Paul**	Casing Diam. (mm):	Easting (MGA): **308760**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6414569**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With grass. **Fill**			1							
Clay Some sand and rare shale gravel, orange/brown and grey mottled, dry, stiff, low plastic. With red-orange gravelly sand payers from 2.5 m bgl.			2					0.2		
			3			Y		0.3	LL_SB18_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK,JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LM_MW01

ERM

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Drill Start Date: **11/11/2013**	Total Depth (m): **9.0**	Final Water Level (m bgl): **4.23**
Drill Finish Date: **12/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **148.03**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **148.01**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309336.901**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416303.21**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel and coal. Increasing rock from 0.7 m bgl.								0		
					DS	Y		0	LM_MW01_0.5	
			1					0		
								0		
						Y		0	LM_MW01_1.9	
Clay Grey, dry, very stiff, non plastic, heterogeneous. Colour change to brown/orange from 2.5 m bgl. Colour change to brown from 6.0 m bgl.			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LM_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **11/11/2013**	Total Depth (m): **9.0**	Final Water Level (m bgl): **4.23**
Drill Finish Date: **12/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **148.03**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **148.01**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309336.901**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416303.21**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
						Y			LM_MW01_6.3	
			7					0		
			8							
Shale Grey, dry.			9							
End of Log			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LM_MW02

ERM

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Drill Start Date: **11/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **6.772**
Drill Finish Date: **12/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **142.58**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **142.53**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309427.734**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416233.038**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, moist, very hard, low plastic, gravel throughout.								0		
					DS	Y		0	LM_MW02_0.5	
Clay Red/orange, dry, hard, low plastic. Colour change to grey and red mudstone inclusions from 1.5 m bgl.			1					0		
								0		
			2					0		
			3					0		
						Y		0	LM_MW02_3.6	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LM_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **11/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **6.772**
Drill Finish Date: **12/11/2013**	Hole Diam. / Width (mm): **200**	Elevation (Ground): **142.58**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **142.53**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309427.734**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416233.038**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Siltstone Brown, dry.			6							
			7							
			8							
Clay Brown, moist, soft, medium plastic, heterogeneous.			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LM_MW03

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **11.4**	Final Water Level (m bgl):
Drill Finish Date: **14/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **309441**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416284**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Rock from 1.4 m bgl.								0		
					DS	Y		0	LM_MW03_0.5	
			1					0		
Clay Grey, dry, friable, hard, non plastic, no stain, no odour.			2							
					DS	Y		0	LM_MW03_2.3	
Siltstone Brown, dry.			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LM_MW03

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **11.4**	Final Water Level (m bgl):
Drill Finish Date: **14/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **309441**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416284**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LM_MW03

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Drill Start Date: **5/11/2013**
Drill Finish Date: **14/11/2013**
Drill Co: **Numac**
Driller: **Wade**
Drill Method: **NDD, PT, SFA**
Hole Type: **Soil Bore**

Total Depth (m): **11.4**
Hole Diam. / Width (mm): **300**
Casing Type: **Not Applicable**
Casing Diam. (mm): **Not Applicable**
Surface Completion: **Backfilled**
Water Strike (m bgl): **Not Applicable**

Final Water Level (m bgl):
Elevation (Ground): **0**
Elevation (Case): **0**
Easting (MGA): **309441**
Northing (MGA): **6416284**

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Shale Grey, dry.			11							
End of Log			12 13 14 15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LM_SB01

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Drill Start Date: **11/11/2013**	Total Depth (m): **1.7**	Final Water Level (m bgl):
Drill Finish Date: **13/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309344**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416270**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, moist, very hard, low plastic, gravel throughout.					DS	Y		0 0.1	LM_SB01_0.1	
Gravelly Clay Brown/grey, dry, friable, non plastic, heterogeneous, no stain, no odour.			1			Y		0	LMSB01_1.7	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW01

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Drill Start Date: **7/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **3.125**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.77**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.75**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **310050.47**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6416591.403**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill								0.1		
					DS	Y		0.2	LN_MW01_0.5	
			1					0.1		
Clay Grey/red, dry, friable, non plastic, heterogeneous, no stain, no odour.			2			Y		0	LN_MW01_2.1	
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW01

ERM

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Drill Start Date: **7/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **3.125**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.77**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.75**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **310050.47**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6416591.403**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
Shale Grey, dry.			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW02

ERM
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Drill Start Date: **8/11/2013**	Total Depth (m): **8.5**	Final Water Level (m bgl): **2.091**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.8**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.67**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310105.269**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416610.037**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Silty clay, brown, dry, friable, non plastic, no stain, no odour.					DS	Y		0	LN_MW02_0.1	
Gravelly Clay Brown, damp, soft, low plastic, heterogeneous, no stain, no odour.			1					0		
						Y		0	LN_MW02_1.5	
Clay Brown/grey, dry, friable, non plastic, heterogeneous, no stain, no odour. Colour change to reddish brown from 4.0 m bgl.			2							
			3			Y		0	LN_MW02_3.0	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **8/11/2013**	Total Depth (m): **8.5**	Final Water Level (m bgl): **2.091**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.8**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.67**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310105.269**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416610.037**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6			Y			LN_MW02_6.0	
			7							
			8							
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW03

ERM

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Drill Start Date: **8/11/2013**	Total Depth (m): **1.5**	Final Water Level (m bgl):
Drill Finish Date: **8/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Vacudig**	Casing Type:	Elevation (Case): **0**
Driller: **Jay**	Casing Diam. (mm):	Easting (MGA): **310148**
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA): **6416609**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Silty clay, brown, dry, friable, non plastic, no stain, no odour, gravel inclusions.					DS	Y		0	LN_MW03_0.1	
					DS	Y		0	LN_MW03_0.5	
Gravelly Clay Brown, damp, soft, low plastic, heterogeneous, no stain, no odour.			1					0		
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW04

ERM

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Drill Start Date: **7/11/2013**	Total Depth (m): **4.0**	Final Water Level (m bgl): **1.757**
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **130.37**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.13**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **310181.323**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6416584.83**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **1.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, brown, moist, hard, low plastic. Grey lenses from 0.6 m bgl. Colour change to brown from 1.1 m bgl.								0		
					DS	Y		0	LN_MW04_0.5	
			1					0		
								0		
								0		
Clay Orange-brown, moist, firm, low plastic, some sand and shale gravel. Colour change to grey with orange-brown mottling from 2.5 m bgl.			2					0		
			3			Y			LN_MW04_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW05

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Drill Start Date: **7/11/2013**	Total Depth (m): **10.5**	Final Water Level (m bgl): **1.722**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.35**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.31**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310169.957**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416559.128**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill								0		
								0		
			1					0.1		
Clay Brown/grey, stiff, low plastic, heterogeneous, no stain, no odour.										
Clay Grey/red, damp, stiff, low plastic, no staining, no odour. Becoming dry and friable from 2.7 m bgl.			2					0		
			3		DS	Y		0.2	LN_MW05_3.0	
			4							
Clay Brown, dry, stiff, low plastic, heterogeneous, no staining, no odour. Saturated from 8.5 m bgl.			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW05

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Drill Start Date: **7/11/2013**	Total Depth (m): **10.5**	Final Water Level (m bgl): **1.722**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.35**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.31**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310169.957**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416559.128**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **7/11/2013**	Total Depth (m): **10.5**	Final Water Level (m bgl): **1.722**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.35**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.31**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310169.957**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416559.128**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
End of Log			11 12 13 14 15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW06

ERM

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Drill Start Date: **7/11/2013**	Total Depth (m): **10.2**	Final Water Level (m bgl): **1.814**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.47**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.41**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **310139.039**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416548.588**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill								0		
					DS	Y		0.3	LN_MW06_0.5	
			1					0.2		
								0.1		
Clay Orange brown, dry, firm, low plastic, with fine grained sand.			2					0		
Clay Orange brown with grey mottling, dry, stiff, low plastic, rare shale fragments.			3		DS	Y		0.1	LN_MW06_3.0	
			4							
			5					0.1		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW06

ERM

ERM Australia Pty Ltd

Drill Start Date: **7/11/2013**	Total Depth (m): **10.2**	Final Water Level (m bgl): **1.814**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.47**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.41**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **310139.039**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416548.588**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8					0.2		
			9							
			10					0.1		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW06

ERM

ERM Australia Pty Ltd

Drill Start Date: **7/11/2013**	Total Depth (m): **10.2**	Final Water Level (m bgl): **1.814**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.47**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.41**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **310139.039**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416548.588**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
End of Log			11 12 13 14 15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW07

ERM Australia Pty Ltd

Drill Start Date: **7/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **2.200**
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.81**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.72**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **310102.017**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416553.308**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill								0.1		
					DS	Y		0	LN_MW07_0.5	
			1					0.7		
Clay Brown, damp, stiff, low plastic, heterogeneous.								0.2		
			2					0.1		
Clay Brown/grey, dry, friable, low plastic. Becoming red and hard from 2.5 m bgl.										
			3					0		
						Y			LN_MW07_3.2	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LN_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **7/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **2.200**
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.81**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.72**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **310102.017**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416553.308**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW01

ERM Australia Pty Ltd

Drill Start Date: **11/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **9.464**
Drill Finish Date: **11/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.66**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.54**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309672.521**
Drill Method: **NDD, PT, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416772.802**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill										
			1		DS	Y		0	LO_MW01_1.1	
Clayey Gravel Dark grey, damp, very loose, poorly sorted, no stain, no odour.										
Siltstone			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW01

ERM Australia Pty Ltd

Drill Start Date: **11/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **9.464**
Drill Finish Date: **11/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.66**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.54**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309672.521**
Drill Method: **NDD, PT, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416772.802**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW02

ERM

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Drill Start Date: **5/12/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **2.874**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.46**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.34**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309780.055**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416760.36**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LO_MW02_0.1	
Fill										
Silty Clay Dark brown, dry, stiff, low plastic, homogeneous, no stain, no odour.			1							
						Y		2	LO_MW02_1.5	
Siltstone			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **2.874**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.46**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.34**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309780.055**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416760.36**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
End of Log			7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW03

ERM

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Drill Start Date: **30/11/2013**	Total Depth (m): **5.0**	Final Water Level (m bgl): **3.26**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.4**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.27**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309830.801**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416731.458**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravelly clay, brown, dry, soft, medium plastic.								0		
					DS	Y		0	LO_MW03_0.5	
Silty Clay Brown and reddish brown, medium stiff to stiff, low plastic, siltstone fragments.			1		DS	Y		0	LO_MW03_1.0	
Siltstone Reddish brown, dry, hard, quartz. Brown from 3.0 m bgl. Brown and reddish brown saturated clay present from 4.5 m bgl.			2					0		
			3					0.2		
			4					0.7		
			5					1.4		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **4/12/2013**	Total Depth (m): **5.0**	Final Water Level (m bgl): **3.452**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.37**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.27**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309840.864**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416704.03**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.5**	

Lithology	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface	0							
Fill						0		
			DS	Y		0	LO_MW04_0.5	
	1					0		
Silty Clay Reddish brown and brown, damp, stiff to medium stiff, low plastic, siltstone fragments.				Y		0	LO_MW04_1.5	
Siltstone Reddish brown, dry, hard. Brown and hydrocarbon odour from 3.5 m bgl. Saturated clay present from 4.5 m bgl.	2					0		
	3					3.3		
	4			Y		38.9	LO_MW04_4.0	
	5					6.9		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **2.95**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.14**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.04**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309841.549**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416677.341**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LO_MW05_0.1	
Fill Gravelly clay, brown, dry, dense, friable.								0		
			1					0		
Silty Clay Brown and reddish brown, medium stiff to stiff, low plastic, siltstone fragments.						Y		0.1	LO_MW05_1.5	
Siltstone Reddish brown, dry, hard. Hydrocarbon odour from 2.5 m bgl. Saturated from 5.0 m bgl.			2					0		
			3			Y		77.7	LO_MW05_3.0	
			4					28.3		
			5					5.6		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **2.95**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.14**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.04**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309841.549**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416677.341**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6					7.1		
End of Log			7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW06

ERM

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Drill Start Date: **30/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **2.980**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.5**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.45**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309829.744**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416633.721**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, brown, hard, friable, with gravel.								0		
					DS	Y		0	LO_MW06_0.5	
Silty Clay Reddish brown and grey, stiff to very stiff, non plastic, siltstone fragments throughout.			1		DS	Y		0	LO_MW06_1.0	
Siltstone Reddish brown, dry, hard. Hydrocarbon odour from 4.0 m bgl. Saturated from 5.5 m bgl.			2					0		
			3					0.1		
			4					29.6		
			5			Y		79.2	LO_MW06_5.0	

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW06

ERM Australia Pty Ltd

Drill Start Date: **30/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **2.980**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.5**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.45**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309829.744**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416633.721**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6					9		
			7					6.8		
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **3.144**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.95**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **132.87**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309903.939**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416595.706**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen								0		
Fill Sandy gravel, brown, loose, coarse, moderately sorted, sub rounded.					DS	Y			LO_MW08_0.5	
Sandy Clay With gravel, dark grey and brown, damp, stiff, medium plastic, heterogeneous, no staining, no odour. Light grey and dry from 1.5 m bgl. Yellowish grey and brown from 1.7 m bgl.			1					0		
			2					0.01		
					DS	Y		0.4	LO_MW08_2.2	
Clay Brown, weathered, hard			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW08

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **3.144**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.95**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **132.87**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309903.939**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416595.706**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW10

ERM

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Drill Start Date: **9/12/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **2.498**
Drill Finish Date: **9/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.22**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.07**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309837.091**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416531.948**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass and roots.								0		
Topsoil Sandy clay, brown, damp, hard, non plastic, heterogeneous.					DS	Y		0	LO_MW10_0.5	
Gravelly Clay Brown, damp, soft, low plastic, heterogeneous, trace concrete rubble.			1					0		
Sandy Clay With gravel, grey and brown, dry, stiff, non plastic, heterogeneous, no stain, no odour.					DS	Y		0	LO_MW10_1.2	
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW10

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **2.498**
Drill Finish Date: **9/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.22**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.07**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309837.091**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416531.948**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
End of Log			7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW11

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl): **1.578**
Drill Finish Date: **11/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.12**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.05**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309809.085**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416483.772**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen								0		
Fill Road base.										
Fill Sandy gravel, dry, loose, coarse, moderately sorted, sub rounded, no staining, no odour.									LO_MW11_0.5	
Fill Gravelly silty sand, brown, dry, loose, non plastic, poorly sorted, no staining, no odour.			1					2.3		
Sandy Silt Yellowish brown, dry, loose, non plastic, heterogeneous, no staining, no odour.								0	LO_MW11_1.2	
Siltstone			2					2.3		
			3							
			4							
End of Log			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW12

ERM

ERM Australia Pty Ltd

Drill Start Date: **6/12/2013**	Total Depth (m): **5.0**	Final Water Level (m bgl): **3.442**
Drill Finish Date: **6/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.32**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.22**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309915.865**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416503.634**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **2.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill			1					0		
Silty Clay Reddish brown and light grey, dry, medium stiff to stiff, low plastic, siltstone fragments throughout.			2					0		
			3			Y		0	LO_MW12_3.0	
Silty Clay With sand, reddish brown, saturated, soft, low plastic, siltstone fragments throughout.			4					0		
			5					0		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **SP**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW13

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **9.0**	Final Water Level (m bgl): **1.908**
Drill Finish Date: **11/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.17**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.08**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309805.718**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416463.221**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill								0		
Clayey Sand With gravel, brown and grey, dry, loose, poorly sorted, no staining, no odour.					DS	Y		0	LO_MW13_0.6	
Sandy Clay			1							
			2							
Siltstone			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW13

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **9.0**	Final Water Level (m bgl): **1.908**
Drill Finish Date: **11/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.17**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.08**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309805.718**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416463.221**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
End of Log			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW14

ERM

ERM Australia Pty Ltd

Drill Start Date: **2/12/2013**	Total Depth (m): **14.0**	Final Water Level (m bgl): **1.977**
Drill Finish Date: **9/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.31**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.2**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309728.207**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416402.63**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **11.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Fill Gravelly sand, brown, moist, very loose, poorly sorted, no stain, no odour.					DS	Y		0	LO_MW14_0.5	
			1		DS	Y		0	LO_MW14_1.0	
Siltstone Brown, dry, becoming grey with depth.			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW14

ERM

ERM Australia Pty Ltd

Drill Start Date: **2/12/2013**	Total Depth (m): **14.0**	Final Water Level (m bgl): **1.977**
Drill Finish Date: **9/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.31**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.2**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309728.207**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416402.63**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **11.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW14

ERM

ERM Australia Pty Ltd

Drill Start Date: **2/12/2013**	Total Depth (m): **14.0**	Final Water Level (m bgl): **1.977**
Drill Finish Date: **9/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.31**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.2**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309728.207**
Drill Method: **NDD, PT, SFA, AH**	Surface Completion: **Gatic**	Northing (MGA): **6416402.63**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **11.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
End of Log			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW15

ERM

ERM Australia Pty Ltd

Drill Start Date: **25/11/2013**	Total Depth (m): **9.0**	Final Water Level (m bgl): **2.82**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **134.35**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **134.28**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309800.403**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416328.566**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.								0		
Fill Clay, brown, moist, soft, medium plastic.					DS	Y		0	LO_MW15_0.5	
			1							
Sandy Clay With gravel, brown and grey, moist, stiff, medium plastic, homogeneous, no stain, no odour. Grey and red from 2.0 m bgl. Light grey and red brown mottled from 3.5 m bgl.								0.01		
			2			Y		0.05	LO_MW15_2.0	
			3					0.01		
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

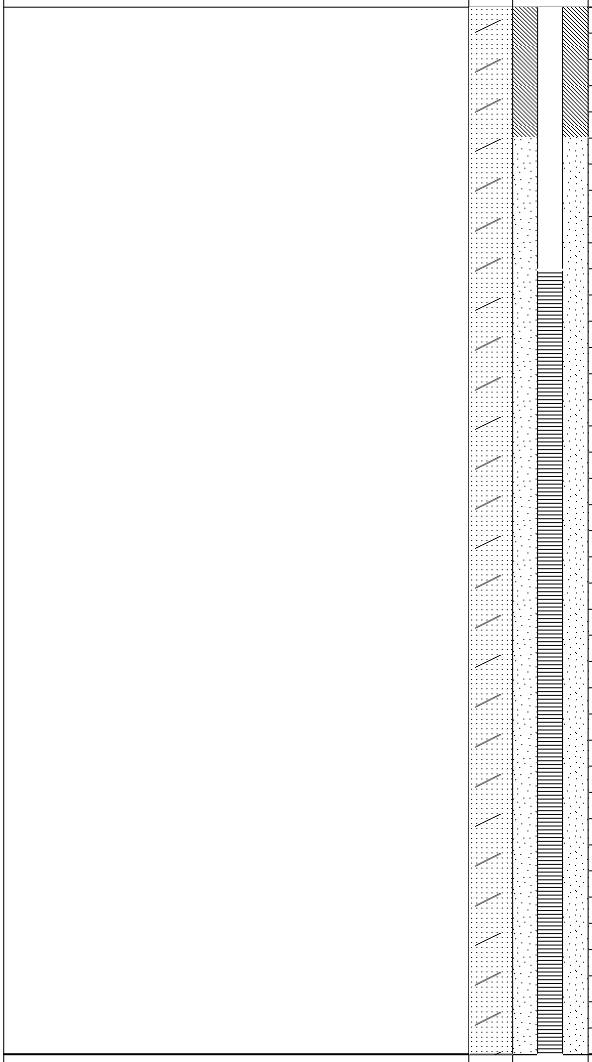
Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW15

ERM

ERM Australia Pty Ltd

Drill Start Date: **25/11/2013**	Total Depth (m): **9.0**	Final Water Level (m bgl): **2.82**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **134.35**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **134.28**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309800.403**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416328.566**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6 7 8 9							
End of Log			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW16

ERM

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Drill Start Date: **25/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **4.65**
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **135.58**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **135.46**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309736.778**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416285.095**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill			1							
Clay Slightly sandy with rare gravel, dry, stiff, low plastic.			2					0		
Clay Orange and grey mottle, dry, stiff, low plastic. Very stiff from 3.0 m bgl. Trace red shale gravel lenses from 3.5 to 4.4 m bgl.			3					0.1		
						Y		0	LO_MW16_3.9	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW16

ERM

ERM Australia Pty Ltd

Drill Start Date: **25/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **4.65**
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **135.58**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **135.46**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309736.778**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416285.095**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW17

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **3.168**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.9**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **132.78**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309943.135**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416669.706**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen								0		
Fill Sandy gravel, brown, damp, fine to coarse, sub angular, moderately sorted, no stain, no odour.					DS	Y		0	LO_MW17_0.5	
Clay Brown/grey, damp, medium plastic, soft, heterogeneous, no stain, no odour, gravel throughout.			1					0		
Sandy Clay Brown mottled grey, dry, stiff, medium plastic, homogeneous, no stain, no odour. Grey with shell fragments from 2.3 m bgl. Brown without shell fragments from 3.0 m bgl. Reddish brown from 3.7 m bgl.			2					0.6 0.9		
			3			Y		1.1	LO_MW17_3.7	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_MW17

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **6.0**	Final Water Level (m bgl): **3.168**
Drill Finish Date: **10/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.9**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **132.78**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309943.135**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416669.706**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
End of Log			7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_SB01

ERM

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Drill Start Date: **12/11/2013**	Total Depth (m): **0.92**	Final Water Level (m bgl):
Drill Finish Date: **12/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Vacudig**	Casing Type:	Elevation (Case): **0**
Driller: **Jay**	Casing Diam. (mm):	Easting (MGA): **309832**
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA): **6416429**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass. **Fill**								0.1		
					DS	Y		0	LO_SB01_0.5	
Clay Grey/brown/red, dry, stiff, low plastic, heterogeneous, no stain, no odour.			1					0		
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_SB02

ERM

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Drill Start Date: **27/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **309866**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416425**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, orange/brown, dry, soft, friable.					DS	Y		0	LO_SB02_0.1	
			1					0		
Clay Hard, friable, non plastic, gravel throughout.								0		
			2							
			3							
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_SB03

ERM

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Drill Start Date: **3/12/2013**	Total Depth (m): **3.5**	Final Water Level (m bgl):
Drill Finish Date: **9/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309725**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416347**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, brown, dry, soft, medium plastic.								0		
					DS	Y		0	LO_SB03_0.5	
			1							
Sandy Clay Brownish red, dry, soft, medium plastic, heterogeneous, no stain, no odour. Red and light brown from 2.0 m bgl. Brownish red and heterogeneous from 3.0 m bgl.			2					1.9		
			3			Y		2.3	LO_SB03_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_SB04

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **3.5**	Final Water Level (m bgl):
Drill Finish Date: **9/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA):
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA):
Hole Type:	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill								0		
								0		
			1					0		
								0		
Fill Clayey sand, brown, dry, medium dense, poorly sorted, no stain, no odour.										
						Y		2	LO_SB04_2.0	
Sandy Clay Light grey and red, dry, stiff, medium plastic, heterogeneous, no stain, no odour. Reddish brown from 2.5 to 3.0 m bgl. Some gravel from 3.0 m bgl.			2							
								0.5		
			3					2.3		
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_SB05

ERM

ERM Australia Pty Ltd

Drill Start Date: **9/12/2013**	Total Depth (m): **1.9**	Final Water Level (m bgl):
Drill Finish Date: **9/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309695**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416289**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								13.4		
Fill Gravelly sand, dark grey, damp, medium dense, fine grained, hydrocarbon odour and staining.					DS	Y		10.2	LO_SB05_0.5	
Clay Grey, damp, soft, medium plastic, slight hydrocarbon odour.			1							
Clayey Sand With gravel, grey, moist, medium dense, poorly sorted, no stain, no odour.						Y		0	LO_SB05_1.7	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_SB06

ERM

ERM Australia Pty Ltd

Drill Start Date: **7/11/2013**	Total Depth (m): **0.8**	Final Water Level (m bgl):
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Vacudig**	Casing Type:	Elevation (Case): **0**
Driller: **Jay**	Casing Diam. (mm):	Easting (MGA): **309994**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416669**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.								0		
Fill								0		
			1					0		
Clay Orange brown with grey mottling, dry, stiff, low plastic, trace fine grained sand. Becoming stiffer with depth.								0		
End of Log			2					0		
			3			Y		0	LO_SB06_3.0	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_SB07

ERM

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **310006**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416639**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil With grass.								0.1		
Clay Orange/grey, moist, soft, medium plastic. Hard and low plastic from 0.9 m bgl.					DS	Y		0.1	LO_SB07_0.5	
			1					0		
								0		
			2					0.4		
								0.3		
			3			Y			LO_SB07_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_SB08

ERM

ERM Australia Pty Ltd

Drill Start Date: **7/11/2013**	Total Depth (m): **3.9**	Final Water Level (m bgl):
Drill Finish Date: **28/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **309986**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416625**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel (road base)								0		
Clay Orange with grey lenses, moist, soft, highly plastic.					DS	Y		0	LO_SB08_0.5	
Clay Red, medium stiff, medium plastic.			1					0		
Clay Brown, dry, medium plastic.			2					0.2 0		
			3					0		
End of Log			4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LO_SB09

ERM

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **309967**
Drill Method: **NDD, PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416628**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel (road base)								0.5		
Clay Light brown, moist, very soft, low plastic, no odour, gravel throughout. Brown from 0.9 m bgl. Stiff with trace sand from 2.0 m bgl.					DS	Y		0.4	LO_SB09_0.5	
			1					0.2		
								0.3		
			2					0.4		
								0.6		
			3			Y			LO_SB09_3.0	
End of Log										
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_MW01

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **3.106**
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **132.15**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.07**
Driller: **Adam and Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310024.473**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416819.317**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0					0		
Topsoil										
Fill								0		
			1		DS	Y		0	LP_MW01_1.0	
Clay Clay, brown with some gravel, shale cobbles present, firm, low plasticity, no odour, no staining								0		
			2					0.2		
			3			Y		0.1	LP_MW01_3.0	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **3.106**
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **150**	Elevation (Ground): **132.15**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.07**
Driller: **Adam and Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310024.473**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416819.317**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Sandy Clay Sandy Clay, orange/ brown, dry, becoming moist from 8.5 m bgl, firm, low plasticity			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **14/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **3.269**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **131.3**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.17**
Driller: **Adam and Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309989.763**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6415996.586**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Gravelly Sand Gravelly sand, grey, dry, fine, with shale gravel fragments present					DS	Y		0	LP_MW02_0.1	
			1					0.4		
			2					0.3		
Clay Clay, orange/ grey, mottled, dry, firm, low plasticity, some sand present with rare shale gravel fragments						Y			LP_MW02_2.9	
			3					0.4		
Clay Clay, brown, dry, firm, medium plasticity			4					0.3		
			5					0.2		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **14/11/2013**	Total Depth (m): **7.0**	Final Water Level (m bgl): **3.269**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **131.3**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **132.17**
Driller: **Adam and Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309989.763**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6415996.586**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_MW03

ERM Australia Pty Ltd

Drill Start Date: **8/11/2013**	Total Depth (m): **5.2**	Final Water Level (m bgl): **2.214**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **220**	Elevation (Ground): **131.22**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.92**
Driller: **Adam and Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310017.104**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6416377.908**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Fill, clay, brown, dry, friable, homogenous, no odour, no staining					DS	Y		0	LP_MW03_0.1	
Sandy Clay Sandy clay, orange to brown, firm, low plasticity, no odour, no staining			1					0.1		
					DS	Y		0.4	LP_MW03_1.4	
Gravelly Clay Gravelly clay, pale brown, dry, firm, low plasticity, some medium to coarse sand and angular gravel present. no odour, no staining, becoming moist at 3.5m bgl			2					0.3		
			3							
			4							
			5					0.2		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **8/11/2013**	Total Depth (m): **5.2**	Final Water Level (m bgl): **2.214**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **220**	Elevation (Ground): **131.22**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.92**
Driller: **Adam and Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310017.104**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6416377.908**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
End of Log			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **8/11/2013**	Total Depth (m): **4.0**	Final Water Level (m bgl): **2.120**
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **129.93**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **130.84**
Driller: **Phill**	Casing Diam. (mm): **50**	Easting (MGA): **310209.823**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6416468.149**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **2.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Clay Brown, dry, friable, blocky, gravel inclusions, no odour, no staining					DS	Y		0	LP_MW04_0.1	
Gravel Brown/grey, dry, very loose, coarse to pebbles, poorly sorted, sub rounded, no odour, no staining. Large pebbles from 0.5m			1		DS	Y		0	LP_MW04_0.5	
Gravelly Clay Brown, wet, soft, low plasticity, heterogeneous, no odour, no staining.			2					0		
			3			Y		0.3	LP_MW04_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **19/11/2013**	Total Depth (m): **8.5**	Final Water Level (m bgl): **2.490**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.84**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.78**
Driller: **Adam and Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310205.437**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416665.99**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Brown, moist, containing grass and rootlets								0		
Gravelly Clay Brown, firm to stiff, low plasticity, with some medium to coarse sandy lenses					DS	Y		0	LP_MW05_0.5	
			1					0.1		
			2					0.2		
			3			Y		0.7	LP_MW05_3.0	
Sandy Clay Brown turning orange brown with grey mottling with depth, Occasional sand and gravels, firm becoming stiff, low plasticity			4					0.6		
			5					0.2		

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **19/11/2013**	Total Depth (m): **8.5**	Final Water Level (m bgl): **2.490**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **131.84**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **131.78**
Driller: **Adam and Matt**	Casing Diam. (mm): **50**	Easting (MGA): **310205.437**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416665.99**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8					0.1		
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_MW06

ERM Australia Pty Ltd

Drill Start Date: **2/12/2013**	Total Depth (m): **4.0**	Final Water Level (m bgl): **1.273**
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **129.34**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **129.99**
Driller: **Adrian**	Casing Diam. (mm): **50**	Easting (MGA): **310021.658**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6415736.916**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Brown, moist, containing grass and rootlets								0		
Clay Brown, moist, soft, medium plasticity, homogenous, no odour, no staining								0		
Gravelly Clay Light brown, moist, soft, medium plasticity, heterogeneous, no odour, no staining			1		DS	Y		0	LP_MW06_1.0	
								0		
Clay Grey/light brown, moist, stiff, non plastic, heterogeneous, no odour, no staining. Moisture content increasing from 2.0m bgl.			2					0		
Siltstone Completely weathered, light brown, dry			3			Y		0	LP_MW06_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB01

ERM

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **2.7**	Final Water Level (m bgl):
Drill Finish Date: **15/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **310114**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416763**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Brown, moist, containing grass and rootlets					DS	Y		0	LP_SB01_0.1	
Fill Sandy Clay					DS	Y		0.5	LP_SB01_0.5	
			1							
Clay Brown, dry, friable, gravel inclusions, heterogeneous, no staining, no odour.			2			Y			LP_SB01_2.7	
End of Log			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB02

ERM

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Drill Start Date: **6/11/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **15/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **309988**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416702**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Brown, moist, containing grass and rootlets					DS	Y		0.1	LP_SB02_0.1	
Fill Gravel					DS	Y		0.2	LP_SB02_0.5	
			1					0.1		
								0.2		
Clay Dark grey/brown, dry, friable, heterogeneous, non plastic, no staining, no odour. Colour change to brown at 2.6m bgl			2					0		
			3			Y		0	LP_SB02_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB03

ERM

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **310086**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416675**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Brown, moist, containing grass and rootlets					DS	Y		0	LP_SB03_0.1	
Fill Sandy Clay					DS	Y		0.1	LP_SB03_0.5	
			1					0.1		
								0.1		
Clay Yellow/brown, dry, stiff, low plasticity, heterogeneous, no odour, no staining			2					0		
Gravelly Clay Yellow/brown/grey, stiff. low plasticity, heterogeneous, no odour, no staining, coarse gravel inclusions			3			Y		0.1	LP_SB03_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB04

ERM

ERM Australia Pty Ltd

Drill Start Date: **7/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Adam and Matt**	Casing Diam. (mm):	Easting (MGA): **310173**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416641**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Gravel								0		
Clay Brown, moist, hard, low plasticity with sandy and medium coarse gravel between 1.7 and 1.9m bgl					DS	Y		0.1	LP_SB04_0.5	
			1					0		
								0.3		
Clay Orange brown, stiff, low plasticity, with occasional medium -large gravel			2							
			3			Y		0.6	LP_SB04_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB05

ERM Australia Pty Ltd

Drill Start Date: **21/11/2013**	Total Depth (m): **3.5**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Adam and Matt**	Casing Diam. (mm):	Easting (MGA): **309970**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416587**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Asphalt					DS	Y		0	LP_SB05_0.1	
Fill Road base, Gravelly sand, moist, poorly sorted										
Clay Red/white. soft, highly plastic								0		
			1					0		
								0		
Gravelly Clay Moist, dense, reddish brown, and grey, medium plastic, homogenous, no staining, no odour								0		
			2							
			3					0		
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB06

ERM

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Drill Start Date: **9/11/2013**	Total Depth (m): **1.9**	Final Water Level (m bgl):
Drill Finish Date: **13/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Wade**	Casing Diam. (mm):	Easting (MGA): **310017**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416540**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, brown, dry, friable, blocky, no odour, no staining					DS	Y		0	LP_SB06_0.1	
Clay Brown/red. moist, soft, medium plasticity, heterogeneous, coarse gravel inclusions					DS	Y		0	LP_SB06_0.5	
			1					0		
Clay Grey, moist, soft, high plasticity, homogenous, no odour, no staining						Y		0	LP_SB06_1.5	
						Y			LP_SB06_1.9	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB07

ERM

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Drill Start Date: **8/11/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Matt**	Casing Diam. (mm):	Easting (MGA): **310108**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416486**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, brown, dry, friable, blocky, no odour, no staining					DS	Y		0	LP_SB07_0.1	
Gravelly Clay Brown, moist, soft, low plasticity, heterogeneous, no staining, no odour,					DS	Y		0	LP_SB07_0.5	
			1					0		
Sandstone Grey, hard										
Gravelly sand Brown, dry, very loose, well sorted, heterogeneous, no staining, no odour			2							
Gravelly clay Brown, moist, loose, low plasticity, poorly sorted, heterogeneous, no staining, no odour						Y			LP_SB07_2.9	
			3					0.3		
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB08

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ERM Australia Pty Ltd

Drill Start Date: **8/11/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phill**	Casing Diam. (mm):	Easting (MGA): **309949**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416475**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Clay Brown, dry, friable, blocky, no odour, no staining					DS	Y		0	LP_SB08_0.1	
Clay With coarse gravels, brown, moist, soft, medium plasticity, heterogeneous becoming stiff at 1.0m bgl.					DS	Y		0	LP_SB08_0.5	
			1					0		
Clay Grey/Brown, dry, low plasticity, friable, heterogeneous, no staining, no odour			2					0.4		
Clay Grey/light brown, moist medium plasticity, soft, heterogeneous			3					0.3		
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB09

ERM

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Drill Start Date: **8/11/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **10/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phill**	Casing Diam. (mm):	Easting (MGA): **310054**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416449**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravelly clay, brown, dry, friable, blocky, no odour, no staining					DS	Y		0	LP_SB09_0.1	
Clayey Gravel Brown, moist, loose, coarse, moderately well sorted, sub-rounded, no staining, no odour, pebbles from 0.5m			1		DS	Y		0	LP_SB09_0.5	
Sandstone (weathered) grey, dry becoming dark grey from 2.6m bgl			2					0		
			3			Y		0.1	LP_SB09_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB10

ERM

ERM Australia Pty Ltd

Drill Start Date: **8/11/2013**	Total Depth (m): **3.0**	Final Water Level (m bgl):
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phill**	Casing Diam. (mm):	Easting (MGA): **309948**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416400**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, brown, dry, friable, blocky, no odour, no staining **Gravel** Dark grey, moist, loose, coarse to pebbles, poorly sorted, sub rounded					DS	Y		0	LP_SB10_0.1	
Clay Brown, very soft, moist medium plasticity, heterogeneous, no odour, no staining			2			Y		0	LP_SB10_2.0	
Sandy Clay Moist, brown/grey, non plastic, soft, heterogeneous, no staining, no odour, with coarse gravel inclusions			3			Y		0.1	LP_SB10_3.0	
End of Log			4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB11

ERM

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Drill Start Date: **14/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Adam and Matt**	Casing Diam. (mm):	Easting (MGA): **310017**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416182**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel					DS	Y		0	LP_SB11_0.1	
Gravelly Clay Brown and grey mottled, dry, firm to stiff, low plasticity, increasing gravel content including large shale gravel fragments from 2.5m bgl			1		DS	Y		0	LP_SB11_1.2	
			2							
			3			Y		0.1	LP_SB11_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB12

ERM Australia Pty Ltd

Drill Start Date: **14/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **20/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Adam and Matt**	Casing Diam. (mm):	Easting (MGA): **310008**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416073**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel					DS	Y		0	LP_SB12_0.1	
Shale Grey, moderately weathered, some gravelly clay lenses between 2.5 and 2.7m bgl. Moist, grey, silty lenses between 2.7 and 3.2m bgl.			1					0		
			2							
			3			Y		0	LP_SB12_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB13

ERM

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Drill Start Date: **2/12/2013**	Total Depth (m): **3.1**	Final Water Level (m bgl):
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Adrian**	Casing Diam. (mm):	Easting (MGA): **310049**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6415839**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Brown, moist, grass and rootlets								0		
Clay Brown, moist, soft, medium plasticity, homogenous, no odour, no staining					DS	Y		0	LP_SB13_0.5	
Gravelly Clay Light brown, moist, soft, medium plasticity, heterogeneous, no odour, no staining			1					0		
Clay Moist, light brown, medium stiff, non plastic. heterogeneous, no odour, no staining, colour change to grey at 2.0m bgl. Colour change to red mottling from 2.8m bgl.			2					0		
			3			Y		0	LP_SB13_3.0	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LP_SB14

ERM

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Drill Start Date: **2/12/2013**	Total Depth (m): **2.8**	Final Water Level (m bgl):
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Adrian**	Casing Diam. (mm):	Easting (MGA): **310091**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6415787**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Brown, moist, grass and rootlets								0		
Clay Brown, moist, soft, medium plasticity, homogenous, no odour, no staining					DS	Y		0	LP_SB14_0.5	
Gravelly Clay Light brown, moist, soft, medium plasticity, heterogeneous, no odour, no staining			1					0 0.1		
Clay Light brown, moist, stiff, low plasticity, heterogeneous, no odour, no staining, becoming very stiff at 2.0m bgl and colour change to grey.			2			Y		0	LP_SB14_2.8	
End of Log			3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_MW01

ERM Australia Pty Ltd

Drill Start Date: **25/11/2013**	Total Depth (m): **1.1**	Final Water Level (m bgl): **1.297**
Drill Finish Date: **3/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.5**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.41**
Driller: **Matt, Paul**	Casing Diam. (mm): **50**	Easting (MGA): **309619.709**
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA): **6416460.285**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS			0	LQ_MW01_0.1	
Clayey Sand Grey, moist, loose, non plastic, poorly sorted, heterogenous, no odour, no staining.			1							
Siltstone Grey, dry, hard			2 3 4							
End of Log			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_MW02

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Drill Start Date: **25/11/2013**	Total Depth (m): **0.2**	Final Water Level (m bgl):
Drill Finish Date: **25/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA):
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA):
Hole Type:	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete										
Fill Construction sand, grey, moist, compacted										
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_MW03

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Drill Start Date: **2/12/2013**	Total Depth (m): **5.0**	Final Water Level (m bgl): **1.344**
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.47**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.41**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309632.327**
Drill Method: **NDD/PT/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416551.6**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete										
Gravelly Sand Grey, dry, very loose, non plastic, poorly sorted, heterogenous, no odour, no staining.					DS	Y		0	LQ_MW03_0.5	
Siltstone Grey, dry, hard.			1 2 3 4							
End of Log			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_MW05

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Drill Start Date: **21/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **8.852**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.47**
Drill Co:	Casing Type: **PVC**	Elevation (Case): **133.35**
Driller:	Casing Diam. (mm): **50**	Easting (MGA): **309643.323**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416671.593**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LQ_MW05_0.1	
Fill Clayey gravel, yellow, brown, moist, loose, non plastic, poorly sorted, heterogenous, no odour, no staining								0		
Fill Clayey gravel, grey, moist, loose, non plastic, poorly sorted, hetrogenous, no staining, no odour					DS	Y			LQ_MW05-0.7	
Sandstone Grey, hard			1							
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

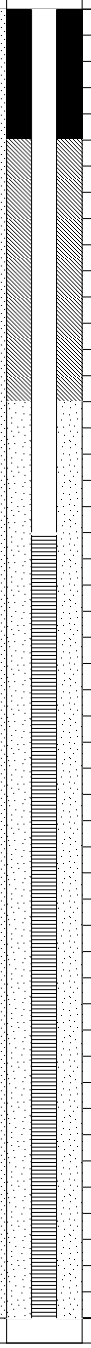
Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_MW05

ERM

ERM Australia Pty Ltd

Drill Start Date: **21/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **8.852**
Drill Finish Date: **21/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.47**
Drill Co:	Casing Type: **PVC**	Elevation (Case): **133.35**
Driller:	Casing Diam. (mm): **50**	Easting (MGA): **309643.323**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416671.593**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_MW06

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **8.805**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.47**
Drill Co:	Casing Type: **PVC**	Elevation (Case): **133.35**
Driller:	Casing Diam. (mm): **50**	Easting (MGA): **309651.694**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416684.899**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LQ_MW06_0.1	
Fill Clayey gravel, yellow, brown, moist, loose, non plastic, poorly sorted, heterogenous, no odour, no staining										
Fill Clayey gravel, grey, moist, loose, non plastic, poorly sorted, hetrogenous, no staining, no odour, increasing sandstone content										
Sandstone Grey, hard			1							
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

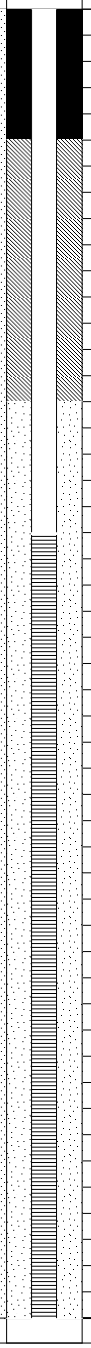
Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_MW06

ERM

ERM Australia Pty Ltd

Drill Start Date: **29/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **8.805**
Drill Finish Date: **19/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.47**
Drill Co:	Casing Type: **PVC**	Elevation (Case): **133.35**
Driller:	Casing Diam. (mm): **50**	Easting (MGA): **309651.694**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416684.899**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
										

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **19/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **1.165**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.46**
Drill Co:	Casing Type: **PVC**	Elevation (Case): **133.33**
Driller:	Casing Diam. (mm): **50**	Easting (MGA): **309656.558**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416717.187**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete								0		
Sand Moist, brown poorly sorted, small to medium gravel present					DS	Y		0	LQ_MW07_0.5	
Sandstone Grey, hard			1							
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

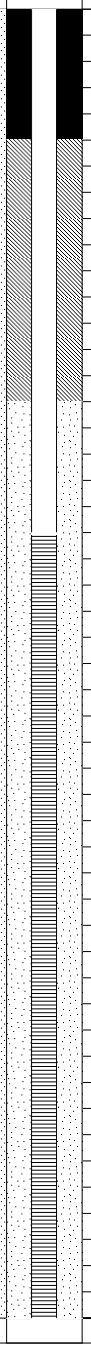
Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **19/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **1.165**
Drill Finish Date: **29/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.46**
Drill Co:	Casing Type: **PVC**	Elevation (Case): **133.33**
Driller:	Casing Diam. (mm): **50**	Easting (MGA): **309656.558**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416717.187**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB01

ERM

ERM Australia Pty Ltd

Drill Start Date: **18/11/2013**	Total Depth (m): **1.0**	Final Water Level (m bgl):
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309680**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416718**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LQ_SB01_0.1	
Fill Sand, coarse										
Gravelly Sand Grey, coarse, poorly sorted										
			1		DS	Y		0	LQ_SB01_1.0	
End of Log										
						Y			LQ_SB01_1.6	
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB02

ERM

ERM Australia Pty Ltd

Drill Start Date: **30/11/2013**	Total Depth (m): **1.4**	Final Water Level (m bgl):
Drill Finish Date: **30/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309688**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416701**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y			LQ_SB02_0.1	
Sand Compacted								0		
Sandy Gravel Brown, dry, loose, coarse gravel, sub-angular, moderatley sorted			1		DS	Y		0	LQ_SB02_1.3	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB03

ERM

ERM Australia Pty Ltd

Drill Start Date: **18/11/2013**	Total Depth (m): **1.2**	Final Water Level (m bgl):
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309670**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416702**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LQ_SB03_0.1	
Sand Grey, dry, well sorted										
Sand Brown, dry, poorly sorted										
Sandy Clay Brown, dry, poorly sorted, friable, non-plastic			1		DS	Y		0	LQ_SB03_1.0	
Sandy Clay Grey, dry, poorly sorted, very hard, non friable										
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB04

ERM

ERM Australia Pty Ltd

Drill Start Date: **18/11/2013**	Total Depth (m): **0.75**	Final Water Level (m bgl):
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309664**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416689**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LQ_SB04_0.1	
Sand Brown, moist, poorly sorted, gravel present										
Sandstone Grey, hard					DS	Y		0	LQ_SB04_0.7	
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB05

ERM

ERM Australia Pty Ltd

Drill Start Date: **18/11/2013**	Total Depth (m): **1.2**	Final Water Level (m bgl):
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309653**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416674**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LQ_SB05_0.1	
Sand Grey, coarse										
Sandstone Dry, hard, (some shale present)			1		DS	Y		0	LQ_SB05_1.0	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB06

ERM

ERM Australia Pty Ltd

Drill Start Date: **18/11/2013**	Total Depth (m): **1.1**	Final Water Level (m bgl):
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309657**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416648**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LQ_SB06_0.1	
Sand Moist, brown, poorly sorted, Gravel present										
			1		DS	Y		0	LQ_SB06_1.0	
Sandstone Grey, hard										
End of Log			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB07

ERM

ERM Australia Pty Ltd

Drill Start Date: **21/11/2013**	Total Depth (m): **1.2**	Final Water Level (m bgl):
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309652**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416636**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LQ_SB07_0.1	
Sand Grey, dry, poorly sorted, compacted										
Sandstone Dry, hard, (some shale present)			1		DS	Y		0	LQ_SB07_1.0	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB08

ERM

ERM Australia Pty Ltd

Drill Start Date: **18/11/2013**	Total Depth (m): **0.7**	Final Water Level (m bgl):
Drill Finish Date: **18/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309657**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416636**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LQ_SB08_0.1	
Sand Moist, brown, poorly sorted, gravel present								0		
Sandstone Dry, hard					DS	Y			LQ_SB08_0.7	
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB09

ERM

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **0.4**	Final Water Level (m bgl):
Drill Finish Date: **28/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA):
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA):
Hole Type:	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Construction sand, grey, moist								0		
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB10

ERM Australia Pty Ltd

Drill Start Date: **28/11/2013**	Total Depth (m): **0.2**	Final Water Level (m bgl):
Drill Finish Date: **28/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA):
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA):
Hole Type:	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Construction sand, grey, moist, compacted								0		
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LQ_SB11

ERM

ERM Australia Pty Ltd

Drill Start Date: **2/12/2013**	Total Depth (m): **1.4**	Final Water Level (m bgl):
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co:	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309632**
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA): **6416495**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete										
Clayey Sand Grey, moist, loose, non plastic, poorly sorted, heterogenous, no odour, no staining			1		DS	Y		0	LQ_SB11_1.0	
End of Log			2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LR_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **11/11/2013**	Total Depth (m): **14.9**	Final Water Level (m bgl): **14.339**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **151.03**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **150.79**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309538.315**
Drill Method: **PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416750.155**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass, topsoil					DS	Y		0	LR_MW01_0.1	
Sandstone Sandstone, pale brown, moderately weathered.			1							
Shale Shale, pale grey, moderately weathered			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LR_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **11/11/2013**	Total Depth (m): **14.9**	Final Water Level (m bgl): **14.339**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **151.03**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **150.79**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309538.315**
Drill Method: **PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416750.155**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							No odour, no stains No sample taken due to shallow refusal on shale and use of the air hammer
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LR_MW01

ERM

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Drill Start Date: **11/11/2013**	Total Depth (m): **14.9**	Final Water Level (m bgl): **14.339**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **125**	Elevation (Ground): **151.03**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **150.79**
Driller: **Phil**	Casing Diam. (mm): **50**	Easting (MGA): **309538.315**
Drill Method: **PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416750.155**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
End of Log			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LR_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **27/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **4.078**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **159.69**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **160.65**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309309.005**
Drill Method: **NDD/AH**	Surface Completion: **Monument**	Northing (MGA): **6416491.011**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.7**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Silt with little sand, dark brown, moist, low plasticity, homogenous					DS	Y		0.2	LR_MW03_0.1	No odour, no stains
					DS	Y			LR_MW03_0.2	
Sandstone			1							
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LR_MW03

ERM

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Drill Start Date: **27/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **4.078**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **159.69**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **160.65**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309309.005**
Drill Method: **NDD/AH**	Surface Completion: **Monument**	Northing (MGA): **6416491.011**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **8.7**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LR_MW04

ERM

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Drill Start Date: **11/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **7.823**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **151.36**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **152.28**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309446.172**
Drill Method: **PT/AH**	Surface Completion: **Monument**	Northing (MGA): **6416387.518**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass, topsoil								0		
Clay Clay, light brown, moist, moderate plasticity, moderately hard.					DS	Y		0	LR_MW04_0.5	
Sandy Clay Sandy clay, grey, dry, soft, low plasticity, homogenous, no odour, no staining.			1							
Sandy Clay Sandy clay, brown/ grey, dry, moderate plasticity, homogenous, no odour, no staining.					DS	Y		0.7	LR_MW04_1.5	
Sandy Clay Sandy clay with some gravel, yellow/ brown, dry, soft, low plasticity, homogenous, no odour, no staining			2							
Sandstone			3					0.2		
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LR_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **11/11/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl): **7.823**
Drill Finish Date: **27/11/2013**	Hole Diam. / Width (mm): **100**	Elevation (Ground): **151.36**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **152.28**
Driller: **Matt**	Casing Diam. (mm): **50**	Easting (MGA): **309446.172**
Drill Method: **PT/AH**	Surface Completion: **Monument**	Northing (MGA): **6416387.518**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **RO**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LS_MW01

ERM

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Drill Start Date: **2/12/2013**	Total Depth (m): **5.8**	Final Water Level (m bgl): **1.171**
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **129.59**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **130.46**
Driller: **Adrian**	Casing Diam. (mm): **50**	Easting (MGA): **309862.452**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415625.9**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grass, roots.								0		
Clay Brown, moist, soft, moderate plasticity, homogenous, no odour, no staining, colour change to brown/grey at 1m bgl, colour change to red mottling from 1.6m bgl.					DS	Y		0	LS_MW01_0.5	
			1					0		
								0		
			2					0		
Clay Brown/Grey, dry, very stiff, non-plastic, heterogeneous, no odour, no staining.			3		DS	Y		0	LS_MW01_3.0	
Siltstone (weathered), red brown, dry, no odour, no staining.			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LS_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **2/12/2013**	Total Depth (m): **5.8**	Final Water Level (m bgl): **1.171**
Drill Finish Date: **2/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **129.59**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **130.46**
Driller: **Adrian**	Casing Diam. (mm): **50**	Easting (MGA): **309862.452**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415625.9**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
End of Log			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LS_MW02

ERM Australia Pty Ltd

Drill Start Date: **4/12/2013**	Total Depth (m): **4.0**	Final Water Level (m bgl): **3.360**
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **129.84**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **130.63**
Driller: **Adam**	Casing Diam. (mm): **50**	Easting (MGA): **309595.656**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Gatic**	Northing (MGA): **6415656.079**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill					DS	Y		0	LS_MW02_0.5	
Clay Moist, grey, light brown, soft, low plasticity, no odour, no staining, heterogeneous (weathered siltstone throughout, becoming friable at 2.3m bgl)			1 2			Y		0	LS_MW02_2.0	
			3			Y		0	LS_MW02_3.0	
End of Log			4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LS_SB01

ERM

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Drill Start Date: **14/11/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **14/11/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil**	Casing Diam. (mm):	Easting (MGA): **309701**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6416137**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Gravel					DS	Y		0	LS_SB01_0.1	
Gravelly Clay Red orange and grey mottled, firm to stuff, low plasticity, with some angular shale gravel, no staining, no odour			1					0 0 0		
			2							
			3			Y		0.1	LS_SB01_2.9-3.0	
End of Log			4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LS_SB02

ERM

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Drill Start Date: **11/11/2012**	Total Depth (m): **0.85**	Final Water Level (m bgl):
Drill Finish Date: **11/11/2012**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309793**
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA): **6416136**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Gravel					DS	Y		0.1	LS_SB02_0.1	
Clay Brown, moist, soft, plastic, minor gravels present								0		
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LS_SB03

ERM

ERM Australia Pty Ltd

Drill Start Date: **14/11/2013**	Total Depth (m): **2.9**	Final Water Level (m bgl):
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil**	Casing Diam. (mm):	Easting (MGA): **309715**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416017**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Gravel					DS	Y		0	LS_SB03_0.1	
Gravelly Clay Red/Brown, dry, hard, low plasticity, with angular medium coarse shale gravel, no odour, no staining, increasing shale gravel from 2.5m			1							
			2					0.1		
						Y			LS_SB03_2.7-2.8	
End of Log			3					0.1		
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LS_SB04

ERM

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Drill Start Date: **14/11/2013**	Total Depth (m): **4.25**	Final Water Level (m bgl):
Drill Finish Date: **26/11/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller: **Phil**	Casing Diam. (mm):	Easting (MGA): **309719**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6415823**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Gravel (shale)					DS	Y		0	LS_SB04_0.1	
Fill Gravelly clay, brown/grey, soft to medium dry, high plasticity with occasional shale gravel, no odour, no staining,			1							
			2					0.2		
Coal Black										
Gravel Road base, grey, coarse			3			Y			LS_SB04_2.7-3.3	
Coal Black, containing glass fragments								0.1		
Fill Gravelly clay, brown/grey, soft to medium dry, high plasticity with occasional shale gravel, no odour, no staining,										
Coal Black										
Clay Brown, dry, firm, low plasticity, with occasional organic material			4					0.1		
End of Log			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK/JG**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LT_MW01

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **7.3**	Final Water Level (m bgl): **3.738**
Drill Finish Date: **14/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.71**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **132.61**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309804.485**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416934.703**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.9**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Grass over gravel.					DS	Y		0	LT_MW01_0.1	
Fill Clay with gravel, brown, moist, medium stiff, medium plastic, no odour.					DS	Y		0.1	LT_MW01_0.5	
Fill Clay, black, moist, medium stiff, medium plastic, no odour.			1							
Fill Rocks.										
Clay Brown/grey, dry, friable, non plastic, heterogeneous, no stain, no odour.			2					0.4		
			3					0		
						Y		0	LT_MW01_3.6	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LT_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **7.3**	Final Water Level (m bgl): **3.738**
Drill Finish Date: **14/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **132.71**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **132.61**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309804.485**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416934.703**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.9**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Clay Brown, moist, very soft, highly plastic, heterogeneous, no stain, no odour.			6 7							
End of Log			8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LT_MW02

ERM Australia Pty Ltd

Drill Start Date: **5/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **3.851**
Drill Finish Date: **14/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.81**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.66**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309787.071**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416874.076**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.					DS	Y		0	LT_MW02_0.1	
Clay Orange/brown, moist, soft, medium plastic, no odour. Medium hard and medium plastic from 0.7 m bgl.			1		DS	Y		0	LT_MW02_0.5	
Clay Brown/grey, dry, friable, non plastic, heterogeneous, no stain, no odour.			2			Y		0.1 0	LT_MW02_2.6	
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LT_MW02

ERM

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Drill Start Date: **5/11/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **3.851**
Drill Finish Date: **14/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.81**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.66**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309787.071**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416874.076**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **5.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
End of Log			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LT_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **7.4**	Final Water Level (m bgl): **3.053**
Drill Finish Date: **13/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.1**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **132.97**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309704.457**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416948.75**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Gravel.					DS	Y		0	LT_MW03_0.1	
Clay Brown, moist, hard, no odour. Bricks present from 0.4 m bgl.					DS	Y		0.1	LT_MW03_0.5	
Clay Dark brown, moist, soft, plastic, no odour.			1					0.2		
Clay Brown/grey/red, dry, friable, non plastic, heterogeneous, no stain, no odour. Moist from 3.3 m bgl.			2					0.1		
			3			Y			LT_MW03_3.5	
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LT_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **7.4**	Final Water Level (m bgl): **3.053**
Drill Finish Date: **13/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.1**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **132.97**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309704.457**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Gatic**	Northing (MGA): **6416948.75**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
End of Log			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LT_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **6/11/2013**	Total Depth (m): **5.0**	Final Water Level (m bgl): **1.976**
Drill Finish Date: **14/11/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **130.21**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **130.99**
Driller: **Wade**	Casing Diam. (mm): **50**	Easting (MGA): **309863.142**
Drill Method: **NDD, PT, SFA**	Surface Completion: **Monument**	Northing (MGA): **6416964.194**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **3.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Clay, grey, dry, hard, friable, no odour.					DS	Y		0	LT_MW04_0.1	
Clay Orange/brown, moist, soft, medium plastic, no odour. Rocks from 0.4 m bgl.					DS	Y		0	LT_MW04_0.5	
			1					0		
Gravelly Clay Brown/grey, damp, stiff, low plastic, heterogeneous, no stain, no odour.			2					0.1		
			3			Y		0.6	LT_MW04_3.0	
Clay With gravel, dark brown, moist, medium stiff, medium plastic, no stain, no odour.			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **3.2**	Final Water Level (m bgl):
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309610**
Drill Method: **NDD/PT**	Surface Completion: **Backfilled**	Northing (MGA): **6416340**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Clay Clay, red, grey, hard, friable								0		
					DS	Y		0	LU_MW01_0.5	
								0		
			1					0		
Clay Clay, red, grey, hard, friable, low plasticity			2							
			3			Y			LU_MW1_3.0/3.3	
End of Log			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_MW02

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **12.0**	Final Water Level (m bgl): **1.543**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.3**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.21**
Driller: **Matt/Paul**	Casing Diam. (mm): **50**	Easting (MGA): **309635.849**
Drill Method: **NDD/PT/ AH**	Surface Completion: **Gatic**	Northing (MGA): **6416403.309**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Sandy, gravel, moist, loose, low plasticity, poorly sorted, heterogeneous.					DS	Y		0.0	LU_MW02_0.1	
					DS	Y			LU_MW02_0.4	
Sandstone			1							
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **12.0**	Final Water Level (m bgl): **1.543**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.3**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.21**
Driller: **Matt/Paul**	Casing Diam. (mm): **50**	Easting (MGA): **309635.849**
Drill Method: **NDD/PT/ AH**	Surface Completion: **Gatic**	Northing (MGA): **6416403.309**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **5/12/2013**	Total Depth (m): **12.0**	Final Water Level (m bgl): **1.543**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.3**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.21**
Driller: **Matt/Paul**	Casing Diam. (mm): **50**	Easting (MGA): **309635.849**
Drill Method: **NDD/PT/ AH**	Surface Completion: **Gatic**	Northing (MGA): **6416403.309**
Hole Type: **Monitoring Well**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
End of Log			13							
			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_MW03

ERM

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Drill Start Date: **4/12/2013**	Total Depth (m): **13.0**	Final Water Level (m bgl): **1.685**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.47**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.37**
Driller: **Matt/Paul**	Casing Diam. (mm): **50**	Easting (MGA): **309670.485**
Drill Method: **PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416426.263**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **11.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Fill, sand with some gravel, grey, moist, non plastic, very loose, poorly sorted, heterogeneous, no odour, no staining.					DS	Y			LU_MW03_0.2	
Sandstone			1							
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By: **HC**

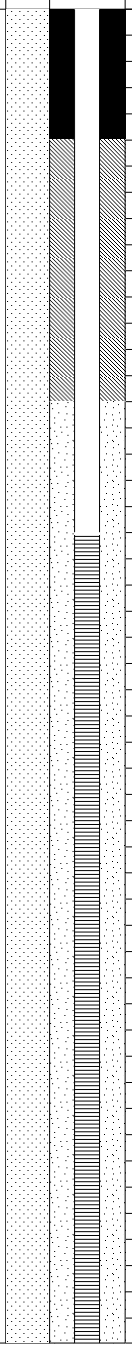
Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **4/12/2013**	Total Depth (m): **13.0**	Final Water Level (m bgl): **1.685**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.47**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.37**
Driller: **Matt/Paul**	Casing Diam. (mm): **50**	Easting (MGA): **309670.485**
Drill Method: **PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416426.263**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **11.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
										

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **4/12/2013**	Total Depth (m): **13.0**	Final Water Level (m bgl): **1.685**
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **133.47**
Drill Co: **Matrix**	Casing Type: **PVC**	Elevation (Case): **133.37**
Driller: **Matt/Paul**	Casing Diam. (mm): **50**	Easting (MGA): **309670.485**
Drill Method: **PT/SFA/AH**	Surface Completion: **Gatic**	Northing (MGA): **6416426.263**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **11.0**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
End of Log			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_SB01

ERM

ERM Australia Pty Ltd

Drill Start Date: **3/12/2013**	Total Depth (m): **0.3**	Final Water Level (m bgl):
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309608**
Drill Method: **PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6416438**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LU_SB01_0.1	
Sand Sand, grey, poorly sorted, coarse, gravel present										
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_SB02

ERM

ERM Australia Pty Ltd

Drill Start Date: **3/12/2013**	Total Depth (m): **0.7**	Final Water Level (m bgl):
Drill Finish Date: **5/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309614**
Drill Method: **PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6416412**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Fill Fill, sand with some gravel, grey, dry, non plastic, very loose, poorly sorted, heterogeneous, no odour, no stains. Refusal at 0.7 m bgs due to bedrock/ siltstone.					DS	Y		0	LU_SB02_0.1	
					DS	Y		0	LU_SB02_0.5	
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_SB04

ERM

ERM Australia Pty Ltd

Drill Start Date: **4/12/2013**	Total Depth (m): **0.5**	Final Water Level (m bgl):
Drill Finish Date: **4/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA): **309681**
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA): **6416420**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Concrete					DS	Y		0	LU_SB04_0.1	
Sand Sand, grey, firm, coarse, well sorted										
End of Log			1 2 3 4 5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LU_SB05

ERM Australia Pty Ltd

Drill Start Date: **5/01/2013**	Total Depth (m): **0.2**	Final Water Level (m bgl):
Drill Finish Date: **11/12/2013**	Hole Diam. / Width (mm): **300**	Elevation (Ground): **0**
Drill Co: **Matrix**	Casing Type:	Elevation (Case): **0**
Driller:	Casing Diam. (mm):	Easting (MGA):
Drill Method: **NDD**	Surface Completion: **Backfilled**	Northing (MGA):
Hole Type:	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Bitumen								0		
Fill										
End of Log			1							
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JK**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW01

ERM

ERM Australia Pty Ltd

Drill Start Date: **11/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl):
Drill Finish Date: **11/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Scott**	Casing Diam. (mm):	Easting (MGA): **306798**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6421039**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0					0	LV_MW01_0.05	
Silty Sand Light brown, dry, loose, fine grained, no odours or staining								0.1		
Sandy Silty Clay (reworked), minor gravels, red brown, dry, some rootlet inclusions, no odours or staining					DS	Y			LV_MW01_0.45	
Clay (Natural), red with brown and grey mottling, moist, (becoming highly weathered sandstone) (shale inclusions, laminated), no odours or staining, becoming harder with depth			1					0.1		
Shale Sandstone, red brown and red, dry, laminated, hard, no odours or staining, variable weathering with depth, grey with red mottling from 0.75m bgl.										
Sandstone Dry, yellow/ light brown, fine grained, well sorted			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW01

ERM
ERM Australia Pty Ltd

Drill Start Date: **11/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl):
Drill Finish Date: **11/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type:	Elevation (Case): **0**
Driller: **Scott**	Casing Diam. (mm):	Easting (MGA): **306798**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6421039**
Hole Type: **Soil Bore**	Water Strike (m bgl):	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
Shale Grey, dry			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC/TA**
Checked By:

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **18/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **307748**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6419605**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Sand Silty, brown, dry, well compacted, poorly sorted, no odour/staining.								0.2		
Clay Brown, stiff, moderate plasticity, no odour/staining (reworked natural material).					DS	Y		0.3	LV_MW02_0.5	
			1					0.1		
Shale Pale brown, dry, moderately weathered.					DS	Y		0	LV_MW02_1.7	
			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **18/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **307748**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6419605**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
Shale Grey, dry, hard, moderately weathered.			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW02

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **15.0**	Final Water Level (m bgl):
Drill Finish Date: **18/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **307748**
Drill Method: **NDD/PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6419605**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **4.255**
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **141.1**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **141.58**
Driller: **Jay**	Casing Diam. (mm): **50**	Easting (MGA): **308245.84**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6417856.769**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Sand Silty, pale brown, dry, well compacted, poorly sorted, no odours, no staining.								0.1		
Clay Sandy, orange brown, dry, firm, becoming stiff, moderate plasticity, no staining, no odour, occasional shale gravels from 1.0m bgl.					DS	Y		0.3	LV_MW03_0.5	
			1					0.2		
					US	Y		0.1	LV_MW03_1.8	
Shale Pale orange brown, dry, moderately weathered, no odour/staining.			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW03

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **8.0**	Final Water Level (m bgl): **4.255**
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **141.1**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **141.58**
Driller: **Jay**	Casing Diam. (mm): **50**	Easting (MGA): **308245.84**
Drill Method: **NDD/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6417856.769**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **7.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
Shale Grey, dry, hard, slightly weathered.			7							
End of Log			8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **10.3**	Final Water Level (m bgl): **3.501**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **132.99**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.61**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **308816.448**
Drill Method: **HA/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6415027.322**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Coal Fill					DS	Y		0.2	LV_MW04_0.1	
Clay Brown, ,moist, stiff, low-plasticity, homogenous, No staining, no odour. Colour change to orange brown at 0.9 m bgl. Colour change to grey with red and orange brown mottling at 1.3 m bgl.			1		DS	Y		0.1	LV_MW04_0.5	
Coal Fill			2							
Shale Weathered, (shale gravel), becoming moist from 6.5m bgl.					DS	Y		0	LV_MW04_2.2	
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW04

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **10.3**	Final Water Level (m bgl): **3.501**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **132.99**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.61**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **308816.448**
Drill Method: **HA/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6415027.322**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Shale Grey, dry, moderately weathered.			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW04

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **10.3**	Final Water Level (m bgl): **3.501**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **132.99**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **133.61**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **308816.448**
Drill Method: **HA/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6415027.322**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **6.5**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
End of Log			11 12 13 14 15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW05

ERM

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Drill Start Date: **12/12/2013**	Total Depth (m): **5.6**	Final Water Level (m bgl): **3.975**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **139.32**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **140.05**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **308371.451**
Drill Method: **HA/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6415027.315**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.7**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Topsoil Grassed, roots					DS	Y		0.3	LV_MW05_0.1	
Clay Brown, moist, soft, non-plastic, homogenous, No odour, no staining, dry and friable from 1.0m bgl.					DS	Y		0.1	LV_MW05_0.5	
			1							
Gravelly Clay Brown, firm, non-plastic, friable, no odour, no staining			2							
					US	Y		0.4	LV_MW05_2.7	
			3							
			4					0.6		
Gravelly Clay Dark brown, wet, low plasticity, with coarse mud stone gravel.			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW05

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **5.6**	Final Water Level (m bgl): **3.975**
Drill Finish Date: **16/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **139.32**
Drill Co: **Numac**	Casing Type: **PVC**	Elevation (Case): **140.05**
Driller: **Eric**	Casing Diam. (mm): **50**	Easting (MGA): **308371.451**
Drill Method: **HA/PT/SFA**	Surface Completion: **Monument**	Northing (MGA): **6415027.315**
Hole Type: **Monitoring Well**	Water Strike (m bgl): **4.7**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
End of Log			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **TA/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW06

ERM

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Drill Start Date: **10/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl):
Drill Finish Date: **11/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Scott**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **305865**
Drill Method: **HA/PT/SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6420241**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Gravelly Sand Light brown, dry, medium dense, fine sand with some medium coarse to coarse gravels, well sorted, homogenous, no odour, no staining. Becoming moist from 0.2m					DS	Y		0	LV_MW06_0.05	
Clayey sand Light brown, moist, medium dense, fine, well sorted, sub rounded, no odour, no staining.					DS	Y		0	LV_MW06_0.8	
Sandstone Light brown, dine grained, dry, well sorted, no odour, no staining.			1							
			2							
			3							
Shale Grey, dry			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **GP/TA**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW06

ERM

ERM Australia Pty Ltd

Drill Start Date: **10/12/2013**	Total Depth (m): **10.0**	Final Water Level (m bgl):
Drill Finish Date: **11/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Scott**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **305865**
Drill Method: **HA/PT/SFA**	Surface Completion: **Backfilled**	Northing (MGA): **6420241**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			6							
			7							
			8							
			9							
			10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **GP/TA**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **16.0**	Final Water Level (m bgl):
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **305986**
Drill Method: **HA/PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6418827**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Ground Surface			0							
Sand Some silt, brown, dry, well sorted, no odour, no staining.					DS	Y		0	LV_MW07_0.05	
Clay Orange/Brown, dry, firm, becoming stiff, moderate plasticity, no odour, no staining.								0.1		
Clay Pale orange, sandy with occasional shale/siltstone gravels, dry, stiff, low plasticity, no odour, no staining, grading to weathered siltstone.			1							
Shale Brown/orange, moderately weathered, dry.			2							
			3							
			4							
			5							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **16.0**	Final Water Level (m bgl):
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **305986**
Drill Method: **HA/PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6418827**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
Shale Grey, dry hard, moderately weathered.			6 7 8 9 10							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **16.0**	Final Water Level (m bgl):
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **305986**
Drill Method: **HA/PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6418827**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			11							
			12							
			13							
			14							
			15							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC/JG**
Checked By: **HC**

Client: **Macquarie Generation**
Project No.: **0224198 - Liddell**
Project Name: **Project Symphony - Liddell**
Site Name: **Liddell Power Station**
Site Address: **New England Highway, Muswellbrook, NSW**

ID: LV_MW07

ERM

ERM Australia Pty Ltd

Drill Start Date: **12/12/2013**	Total Depth (m): **16.0**	Final Water Level (m bgl):
Drill Finish Date: **17/12/2013**	Hole Diam. / Width (mm): **250**	Elevation (Ground): **0**
Drill Co: **Numac**	Casing Type: **Not Applicable**	Elevation (Case): **0**
Driller: **Eric**	Casing Diam. (mm): **Not Applicable**	Easting (MGA): **305986**
Drill Method: **HA/PT/SFA/AH**	Surface Completion: **Backfilled**	Northing (MGA): **6418827**
Hole Type: **Soil Bore**	Water Strike (m bgl): **Not Applicable**	

Lithology	Symbol	Well	Depth (m)	Recovery	Sample Type	Analysed	PPT (kPa)	PID (ppm)	Sample Details	Remarks
			16							
End of Log			17 18 19 20							

NOTE: This bore log is for environmental purposes only and is not intended to provide geotechnical information.

Log By: **HC/JG**
Checked By: **HC**