

Lithgow Solid Waste Facility 2016-2017 Surface Water
 Sampling Frequency: Monthly during discharge
 Nil discharge: Jan, Feb, Mar, Apr, May 2016 and Jan, Feb 2017

Chem_Group	Chemical Name	Units	EQL	Lab_Report_Number					Location Code														
				ADWG 2015 Aesthetic	ADWG 2015 Health	ANZECC 2000 FW 95%	ANZECC 2000 Irrigation Criteria	ANZECC 2000 Stock Watering	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01
	a-BHC	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Aldrin	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Aldrin + Dieldrin	µg/L	0.5		0.3				-	-	-	-	<0.5	-	-	-	-	-	-	-	-		
	b-BHC	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	chlordane	µg/L	0.5		2	0.08			<1	<1	-	-	<0.5	-	<1	-	-	<1	<1	-	-		
	Chlordane (cis)	µg/L	0.5						-	-	-	-	<0.5	-	-	-	-	-	-	-	-		
	Chlordane (trans)	µg/L	0.5						-	-	-	-	<0.5	-	-	-	-	-	-	-	-		
	d-BHC	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	DDD	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	DDT	µg/L	0.1		9	0.01			<0.1	<0.1	-	-	<2	-	<0.1	-	-	<0.1	<0.1	-	-		
	DDT+DDE+DDD	µg/L	0.5						-	-	-	-	<0.5	-	-	-	-	-	-	-	-		
	Dieldrin	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Endosulfan I	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Endosulfan II	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Endosulfan sulphate	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Endrin	µg/L	0.1			0.02			<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Endrin aldehyde	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Endrin ketone	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	g-BHC (Lindane)	µg/L	0.1		10	0.2			<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Heptachlor	µg/L	0.1		0.3	0.09			<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Heptachlor epoxide	µg/L	0.1						<0.1	<0.1	-	-	<0.5	-	<0.1	-	-	<0.1	<0.1	-	-		
	Methoxychlor	µg/L	0.1						<0.1	<0.1	-	-	<2	-	<0.1	-	-	<0.1	<0.1	-	-		
	Toxaphene	mg/L	0.01			0.0002			<0.01	<0.01	-	-	-	-	<0.01	-	-	<0.01	<0.01	-	-		
Organophosphorous Pesticides	Azinophos methyl	µg/L	0.5		30	0.02			<2	<2	-	-	<0.5	-	<2	-	-	<2	<2	-	-		
	Bolstar (Sulprofos)	µg/L	2		10				<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Bromophos-ethyl	µg/L	0.5		10				-	-	-	-	<0.5	-	-	-	-	-	-	-	-		
	Carbophenothion	µg/L	0.5		0.5				-	-	-	-	<0.5	-	-	-	-	-	-	-	-		
	Chlorfenvinphos	µg/L	0.5		2				<2	<2	-	-	<0.5	-	<2	-	-	<2	<2	-	-		
	Chlorpyrifos	µg/L	0.5		10	0.01			<20	<20	-	-	<0.5	-	<20	-	-	<20	<20	-	-		
	Chlorpyrifos-methyl	µg/L	0.5						<2	<2	-	-	<0.5	-	<2	-	-	<2	<2	-	-		
	Coumaphos	µg/L	2						<20	<20	-	-	-	-	<20	-	-	<20	<20	-	-		
	Demeton-O	µg/L	2						<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Demeton-S	µg/L	20						<20	<20	-	-	-	-	<20	-	-	<20	<20	-	-		
	Diazinon	µg/L	0.5		4	0.01			<2	<2	-	-	<0.5	-	<2	-	-	<2	<2	-	-		
	Dichlorvos	µg/L	0.5		5				<2	<2	-	-	<0.5	-	<2	-	-	<2	<2	-	-		
	Dimethoate	µg/L	0.5		7	0.15			<2	<2	-	-	<0.5	-	<2	-	-	<2	<2	-	-		
	Disulfoton	µg/L	2		4				<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Ethion	µg/L	0.5		4				<2	<2	-	-	<0.5	-	<2	-	-	<2	<2	-	-		
	Ethoprop	µg/L	2		1				<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Fenitrothion	µg/L	2		7	0.2			<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Fensulfothion	µg/L	2		10				<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Fenthion	µg/L	0.5		7				<2	<2	-	-	<0.5	-	<2	-	-	<2	<2	-	-		
	Malathion	µg/L	0.5		70	0.05			<2	<2	-	-	<0.5	-	<2	-	-	<2	<2	-	-		
	Merphos	mg/L	0.002						<0.002	<0.002	-	-	-	-	<0.002	-	-	<0.002	<0.002	-	-		
	Methyl parathion	µg/L	2		0.7				<2	<2	-	-	<2	-	<2	-	-	<2	<2	-	-		
	Mevinphos (Phosdrin)	µg/L	2		5				<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Monocrotophos	µg/L	2		2				<2	<2	-	-	<2	-	<2	-	-	<2	<2	-	-		
	Naled (Dibrom)	µg/L	2						<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Omethoate	µg/L	2		1				<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Phorate	µg/L	2						<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Prothiofos	µg/L	0.5						-	-	-	-	<0.5	-	-	-	-	-	-	-	-		
	Pyrazophos	µg/L	2		20				<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Ronnel	µg/L	2						<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Stirophos	µg/L	2						-	-	-	-	-	-	-	-	-	-	-	-	-		
	Terbufos	µg/L	2		0.9				<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
	Trichloronate	µg/L	2						<2	<2	-	-	-	-	<2	-	-	<2	<2	-	-		
PAH/Phenols	Tetrachlorvinphos	mg/L	0.002		0.1				<0.002	<0.002	-	-	-	-	<0.002	-	-	<0.002	<0.002	-	-		
	Naphthalene	µg/L	10			16			<10	<10	-	-	-	-	<10	-	-	<10	<10	-	-		
	PAHs (Sum of total)	µg/L							-	-	-	-	-	-	-	-	-	-	-	-	-		
	Phenolics Total	µg/L	50						<50	<50	-	-	<50	<50	<50	-	-	<50	<50	-	-	<50	
Pesticides	Demeton (total)	µg/L	4						-	-	-	-	-	-	-	-	-	-	-	-	-		
	Demeton-S-methyl	µg/L	0.5						-	-	-	-	<0.5	-	-	-	-	-	-	-	-		
	Fenamiphos	µg/L	0.5		0.5				-	-	-	-	<0.5	-	-	-	-	-	-	-	-		
	Parathion	µg/L	2		20	0.004			<2	<2	-	-	<2	-	<2	-	-	<2	<2	-	-		
	Pirimiphos-methyl	mg/L	0.02		0.09				<0.02	<0.02	-	-	-	-	<0.02	-	-	<0.02	<0.02	-	-		
	Pirimiphos-ethyl	µg/L	0.5		0.5				-	-	-	-	<0.5	-	-	-	-	-	-	-	-		
	Profenofos	µg/L	2		0.3				-	-	-	-	-	-	-	-	-	-	-	-	-		
Phenolics	Phenols	mg/L							-	-	-	<0.05	-	-	-	-	-	-	-	-	-		
Polychlorinated Biphenyls	PCBs (Sum of total)																						

Lithgow Solid Waste Facility 2016-2017 Surface Water
 Sampling Frequency: Monthly during discharge
 Nil discharge: Jan, Feb, Mar, Apr, May 2016 and Jan, Feb 2017

				Location Code	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01
				WellCode															
				Sampled Date	16/06/2016	23/06/2016	14/07/2016	22/07/2016	22/07/2016	9/08/2016	7/09/2016	19/09/2016	23/09/2016	25/10/2016	24/11/2016	24/03/2017	27/03/2017		
				Sample ID	SW01	SW01	SW01		SW01	SW01	SW1			SW01	SW01	SW01	SW1		
				Lab_Report_Number	504652	505717	508123		ES1616239	511513	514982			521349	525426	24006002	539965		
				ADWG 2015 Aesthetic	ADWG 2015 Health	ANZECC 2000 FW 95%	ANZECC 2000 Irrigation Criteria	ANZECC 2000 Stock Watering											
Chem_Group	Chemical Name	Units	EQL																
SVOCs	EPN	µg/L	2						<2	<2	-	-	-	<2	-	-	<2	<2	-
TPH	TRH C10-C36 (Total) (after silica gel clean-up)	mg/L							-	-	-	-	-	-	-	-	-	-	-
	C10-C16	mg/L	0.05						<0.05	<0.05	-	-	<0.1	-	<0.05	-	<0.05	<0.05	-
	C16-C34	mg/L	0.1						0.5	<0.1	-	-	<0.1	-	<0.1	-	<0.1	<0.1	-
	C34-C40	mg/L	0.1						0.3	<0.1	-	-	<0.1	-	<0.1	-	<0.1	<0.1	-
	F2-NAPHTHALENE	mg/L	0.05						<0.05	<0.05	-	-	<0.1	-	<0.05	-	<0.05	<0.05	-
	C6 - C9	µg/L	20						<20	<20	-	-	-	-	<20	-	<20	<20	-
	C10 - C14	µg/L	50						50	<50	-	-	<50	-	<50	-	<50	<50	-
	C15 - C28	µg/L	100						100	<100	-	-	<100	-	<100	-	<100	<100	-
	C29-C36	µg/L	50						400	<100	-	-	<50	-	<100	-	<100	<100	-
	+C10 - C36 (Sum of total)	µg/L	50						550	<100	-	-	<50	-	<100	-	<100	<100	-
C10 - C40 (Sum of total)	µg/L	100						-	-	-	-	<100	-	-	-	-	-	-	
C6-C10	mg/L	0.02						<0.02	<0.02	-	-	-	-	<0.02	-	<0.02	<0.02	-	

Location Code	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01
Sampled Date	16/06/2016	23/06/2016	14/07/2016	22/07/2016	9/08/2016	7/09/2016	19/09/2016	23/09/2016	25/10/2016	24/11/2016
Field ID	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01
Lab Report	504652	505717	508123	ES1616239	511513	514982			521349	525426

Chemical Group	Chemical Name	Units	EQL	ADWG 2015 Aesthetic	ADWG 2015 Health	ANZECC 2000 FW 95%	ANZECC 2000 Irrigation Criteria	ANZECC 2000 Stock Watering	16/06/2016	23/06/2016	14/07/2016	22/07/2016	9/08/2016	7/09/2016	19/09/2016	23/09/2016	25/10/2016	24/11/2016	
Inorganics	Alkalinity (Bicarbonate as CaCO3)	mg/L	1						69	57	-	64	50	31	-	-	260	220	
	Alkalinity (Carbonate as CaCO3)	mg/L	1						<10	<10	-	<1	<5	<10	-	-	<10	<10	
	Nitrite + Nitrate as N	mg/L	0.01						-	-	-	6.41	-	-	-	-	-	-	-
	Alkalinity (Hydroxide) as CaCO3	µg/L	1000						-	-	-	<1000	-	-	-	-	-	-	-
	Alkalinity (total) as CaCO3	mg/L	1						69	57	-	64	50	31	-	-	260	-	
	Ammonia as N	mg/L	0.01	0.5		0.9			0.59	0.76	-	0.74	0.3	0.36	-	-	2.6	0.11	
	Anions Total	meq/L	0.01						-	-	-	3.33	-	-	-	-	-	-	-
	Cations Total	meq/L	0.01						-	-	-	3.23	-	-	-	-	-	-	-
	Chloride	mg/L	1	250			175		32	27	-	23	11	19	-	-	36	230	
	COD	mg/L	10						<20	<25	-	29	<25	<25	-	-	<25	-	
	Electrical conductivity *(lab)	µS/cm	1			125-2200	950		410	370	-	-	160	180	-	-	620	1200	
	Fluoride	mg/L	0.1		1.5				2	<0.5	<0.5	-	<0.1	<0.5	<0.5	-	<0.5	<0.5	
	Ionic Balance	%	0.01						-	-	-	1.5	-	-	-	-	-	-	-
	Nitrate (as N)	mg/L	0.01		50	0.159			90	7.4	8.1	-	6.29	1.2	1.8	-	1.5	0.96	
	Nitrite (as N)	mg/L	0.01							-	-	-	0.12	-	-	-	-	-	
	pH (Lab)	pH_Units	0.1	6.5-8.5			6.5-8.5	5-9	7.3	7.7	6.9	-	6.8	7.1	6.55	6.09	8.3	7.8	
	Phosphate total (P)	mg/L	0.05						0.06	0.06	-	-	<0.05	0.07	-	-	<0.05	<0.05	
	Sodium	mg/L	0.5	180			115		33	24	-	-	9.1	11	-	-	27	97	
	Sodium (Filtered)	mg/L	1	180			115		-	-	-	22	-	-	-	-	-	-	
	Sulphate	mg/L	5						-	-	-	-	-	18	-	-	11	53	
Sulphate as S	mg/L	2	250	500			1000	19	17	-	-	5	-	-	-	-	-		
Sulfate as SO4 - Turbidimetric (Filtered)	mg/L	1						-	-	-	46	-	-	-	-	-	-		
TDS	mg/L	10	600				2000	-	-	-	-	-	-	-	-	-	660		
TOC	mg/L	1						12	<5	-	10	<5	<5	-	-	5.6	11		
Tokuthion	mg/L	0.002						<0.002	<0.002	-	-	-	<0.002	-	-	<0.002	<0.002		
TSS	mg/L	1						35	19	6.5	-	8	5.9	-	-	7.2	2.6		
Metals	Aluminium	mg/L	0.01			0.055	5	5	1.3	0.88	-	3.41	0.29	0.28	-	-	0.13	-	
	Calcium	mg/L	0.5					1000	37	30	-	-	11	14	-	-	58	67	
	Calcium (Filtered)	mg/L	1					1000	-	-	-	30	-	-	-	-	-	-	
	Chromium (hexavalent)	mg/L	0.001		0.05	0.001			<0.001	<0.001	-	<0.01	<0.005	<0.001	-	-	<0.001	<0.001	
	Chromium (III+VI)	mg/L	0.001			0.1		1	0.003	0.001	-	0.003	<0.001	<0.001	-	-	<0.001	<0.001	
	Iron	mg/L	0.05	0.3		0.2		20	2.2	1.1	-	3.81	0.13	0.25	-	-	0.22	0.36	
	Magnesium	mg/L	0.5						9.3	6.7	-	-	3.1	4.3	-	-	13	28	
	Magnesium (Filtered)	mg/L	1						-	-	-	7	-	-	-	-	-	-	
	Manganese	mg/L	0.001	0.1	0.5	1.9	0.2		0.032	0.02	-	0.07	0.019	0.017	-	-	0.033	0.8	
	Phosphorus	mg/L	0.01			0.05			-	-	-	0.21	-	-	-	-	-	-	
Potassium	mg/L	0.5						14	8.2	-	-	3.2	4.4	-	-	19	40		
Potassium (Filtered)	mg/L	1						-	-	-	8	-	-	-	-	-	-		
Organochlorine Pesticides	4,4-DDE	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	a-BHC	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	Aldrin	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	Aldrin + Dieldrin	µg/L	0.5		0.3				-	-	-	-	-	-	-	-	-	-	
	b-BHC	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	Chlordane	µg/L	0.5		2	0.08			<1	<1	-	<0.5	-	<1	-	-	<1	<1	
	Chlordane (cis)	µg/L	0.5						-	-	-	<0.5	-	-	-	-	-	-	
	Chlordane (trans)	µg/L	0.5						-	-	-	<0.5	-	-	-	-	-	-	
	d-BHC	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	DDD	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	DDT	µg/L	0.1		9	0.01			<0.1	<0.1	-	<2	-	<0.1	-	-	<0.1	<0.1	
	DDT+DDE+DDD	µg/L	0.5						-	-	-	<0.5	-	-	-	-	-	-	
	Dieldrin	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	Endosulfan I	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	Endosulfan II	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	Endosulfan sulphate	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	Endrin	µg/L	0.1			0.02			<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	Endrin aldehyde	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	Endrin ketone	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	g-BHC (Lindane)	µg/L	0.1		10	0.2			<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
Heptachlor	µg/L	0.1		0.3	0.09			<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1		
Heptachlor epoxide	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1		
Methoxychlor	µg/L	0.1						<0.1	<0.1	-	<2	-	<0.1	-	-	<0.1	<0.1		
Toxaphene	mg/L	0.01			0.0002			<0.01	<0.01	-	-	-	<0.01	-	-	<0.01	<0.01		

Location Code	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01
Sampled Date	16/06/2016	23/06/2016	14/07/2016	22/07/2016	9/08/2016	7/09/2016	19/09/2016	23/09/2016	25/10/2016	24/11/2016
Field ID	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01
Lab Report	504652	505717	508123	ES1616239	511513	514982			521349	525426

Chemical Group	Chemical Name	Units	EQL	ADWG 2015 Aesthetic	ADWG 2015 Health	ANZECC 2000 FW 95%	ANZECC 2000 Irrigation Criteria	ANZECC 2000 Stock Watering	Sampling Data										
									16/06/2016	23/06/2016	14/07/2016	22/07/2016	9/08/2016	7/09/2016	19/09/2016	23/09/2016	25/10/2016	24/11/2016	
Organophosphorous Pesticides	Azinophos methyl	µg/L	0.5		30	0.02			<2	<2	-	<0.5	-	<2	-	-	<2	<2	
	Bolstar (Sulprofos)	µg/L	2		10				<2	<2	-	-	-	<2	-	-	<2	<2	
	Bromophos-ethyl	µg/L	0.5		10				-	-	-	<0.5	-	-	-	-	-	-	
	Carbophenothion	µg/L	0.5		0.5				-	-	-	<0.5	-	-	-	-	-	-	
	Chlorfenvinphos	µg/L	0.5		2				<2	<2	-	<0.5	-	<2	-	-	<2	<2	
	Chlorpyrifos	µg/L	0.5		10	0.01			<20	<20	-	<0.5	-	<20	-	-	<20	<20	
	Chlorpyrifos-methyl	mg/L	0.0005						<0.002	<0.002	-	<0.0005	-	<0.002	-	-	<0.002	<0.002	
	Coumaphos	µg/L	20						<20	<20	-	-	-	<20	-	-	<20	<20	
	Demeton-O	µg/L	2						<2	<2	-	-	-	<2	-	-	<2	<2	
	Demeton-S	µg/L	20						<20	<20	-	-	-	<20	-	-	<20	<20	
	Diazinon	µg/L	0.5			4	0.01			<2	<2	-	<0.5	-	<2	-	-	<2	<2
	Dichlorvos	µg/L	0.5			5				<2	<2	-	<0.5	-	<2	-	-	<2	<2
	Dimethoate	µg/L	0.5			7	0.15			<2	<2	-	<0.5	-	<2	-	-	<2	<2
	Disulfoton	µg/L	2			4				<2	<2	-	-	-	<2	-	-	<2	<2
	Ethion	µg/L	0.5			4				<2	<2	-	<0.5	-	<2	-	-	<2	<2
	Ethoprop	µg/L	2			1				<2	<2	-	<2	-	<2	-	-	<2	<2
	Fenitrothion	µg/L	2			7	0.2			<2	<2	-	-	-	<2	-	-	<2	<2
	Fensulfotiothion	µg/L	2			10				<2	<2	-	-	-	<2	-	-	<2	<2
	Fenthion	µg/L	0.5			7				<2	<2	-	<0.5	-	<2	-	-	<2	<2
	Malathion	µg/L	0.5			70	0.05			<2	<2	-	<0.5	-	<2	-	-	<2	<2
	Merphos	mg/L	0.002							<0.002	<0.002	-	-	-	<0.002	-	-	<0.002	<0.002
	Methyl parathion	µg/L	2			0.7				<2	<2	-	<2	-	<2	-	-	<2	<2
	Mevinphos (Phosdrin)	µg/L	2			5				<2	<2	-	-	-	<2	-	-	<2	<2
Monocrotophos	µg/L	2			2				<2	<2	-	<2	-	<2	-	-	<2	<2	
Naled (Dibrom)	µg/L	2							<2	<2	-	-	-	<2	-	-	<2	<2	
Omethoate	µg/L	2			1				<2	<2	-	-	-	<2	-	-	<2	<2	
Phorate	µg/L	2							<2	<2	-	-	-	<2	-	-	<2	<2	
Prothiofos	µg/L	0.5							-	-	-	<0.5	-	-	-	-	-	-	
Pyrazophos	µg/L	2			20				<2	<2	-	<2	-	<2	-	-	<2	<2	
Ronnel	µg/L	2							<2	<2	-	-	-	<2	-	-	<2	<2	
Terbufos	µg/L	2			0.9				<2	<2	-	<2	-	<2	-	-	<2	<2	
Trichloronate	µg/L	2							<2	<2	-	-	-	<2	-	-	<2	<2	
Tetrachlorvinphos	mg/L	0.002			0.1				<0.002	<0.002	-	-	-	<0.002	-	-	<0.002	<0.002	
PAH/Phenols	Naphthalene	µg/L	10			16			<10	<10	-	-	-	<10	-	-	<10	<10	
	Phenolics Total	µg/L	50						<50	<50	-	<50	<50	<50	-	-	<50	<50	
Pesticides	Demeton-S-methyl	µg/L	0.5						-	-	-	<0.5	-	-	-	-	-	-	
	Fenamiphos	µg/L	0.5		0.5				-	-	-	<0.5	-	-	-	-	-	-	
	Parathion	µg/L	2		20	0.004			<2	<2	-	<2	-	<2	-	-	<2	<2	
	Pirimiphos-methyl	mg/L	0.02		0.09				<0.02	<0.02	-	-	-	<0.02	-	-	<0.02	<0.02	
	Pirimiphos-ethyl	µg/L	0.5		0.5				-	-	-	<0.5	-	-	-	-	-	-	
Phenolics	Phenols	mg/L							-	-	-	<0.05	-	-	-	-	-	-	
SVOCS	EPN	µg/L	2						<2	<2	-	<2	-	<2	-	-	<2	<2	
Halogenated Benzenes	Hexachlorobenzene	µg/L	0.1						<0.1	<0.1	-	<0.5	-	<0.1	-	-	<0.1	<0.1	
	TRH C6-C10	mg/L	0.02						<0.02	<0.02	-	-	-	<0.02	-	-	<0.02	<0.02	
TRH Fractions	TRH >C10-C16	mg/L	0.05						<0.05	<0.05	-	<0.1	-	<0.05	-	-	<0.05	<0.05	
	TRH >C16-C34	mg/L	0.1						0.5	<0.1	-	<0.1	-	<0.1	-	-	<0.1	<0.1	
	TRH >C34-C40	mg/L	0.1						0.3	<0.1	-	<0.1	-	<0.1	-	-	<0.1	<0.1	
	TRH C10 - C40 (Sum of total)	µg/L	100						-	-	-	<100	-	-	-	-	-	-	
	F1 - TRH C6-C10 less BTEX	mg/L	0.02						<0.02	<0.02	-	-	-	<0.02	-	-	<0.02	<0.02	
	F2 - TRH >C10-C16 less Naphthalene	mg/L	0.05						<0.05	<0.05	-	<0.1	-	<0.05	-	-	<0.05	<0.05	
TPH Fractions	TPH C6 - C9	µg/L	20						<20	<20	-	<20	-	<20	-	-	<20	<20	
	TPH C10 - C14	µg/L	50						50	<50	-	<50	-	<50	-	-	<50	<50	
	TPH C15 - C28	µg/L	100						100	<100	-	<100	-	<100	-	-	<100	<100	
	TPH C29-C36	µg/L	50						400	<100	-	<50	-	<100	-	-	<100	<100	
	TPH C10 - C36 (Sum of total)	µg/L	50						550	<100	-	<50	-	<100	-	-	<100	<100	

Chem_Group	ChemName	Units	EQL	ADWG 2015 Aesthetic	ADWG 2015 Health	ANZECC 2000 FW 95%	ANZECC 2000 Irrigation Criteria	ANZECC 2000 Stock Watering	LocCode	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01
									Sampled_Date	16/06/2016	23/06/2016	14/07/2016	22/07/2016	25/07/2016	25/07/2016	9/08/2016	7/09/2016	19/09/2016	23/09/2016	
									Field_ID	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01
Inorganics	Alkalinity (Bicarbonate as CaCO3)	mg/L	1							69	57	-	64	64		50	31	-	-	
	Alkalinity (Carbonate as CaCO3)	mg/L	1							<10	<10	-	<1	<1		<5	<10	-	-	
	Nitrite + Nitrate as N	mg/L	0.01							-	-	-	6.41	6.41				-	-	
	Alkalinity (Hydroxide) as CaCO3	µg/L	1000							-	-	-	<1000	<1000				-	-	
	Alkalinity (total) as CaCO3	mg/L	1							69	57	-	64	64		50	31	-	-	
	Ammonia as N	mg/L	0.01	0.5		0.9				0.59	0.76	-	0.74	0.74		0.3	0.36	-	-	
	Anions Total	meq/L	0.01							-	-	-	3.33	3.33				-	-	
	Cations Total	meq/L	0.01							-	-	-	3.23	3.23				-	-	
	Chloride	mg/L	1	250			175			32	27	-	23	23		11	19	-	-	
	COD	mg/L	10							<20	<25	-	29	29		<25	<25	-	-	
	Electrical conductivity *(lab)	uS/cm	1			125-2200	950			410	370	-	384	384		160	180	-	-	
	Fluoride	mg/L	0.1		1.5				2	<0.5	<0.5	-	<0.1	<0.1		<0.5	<0.5	-	-	
	Ionic Balance	%	0.01							-	-	-	1.5	1.5				-	-	
	Nitrate (as N)	mg/L	0.01		50	0.159			90	7.4	8.1	-	6.29	6.29		1.2	1.8	-	-	
	Nitrite (as N)	mg/L	0.01							-	-	-	0.12	0.12				-	-	
	pH (Lab)	pH_Units	0.1	6.5-8.5			6.5-8.5		5-9	7.3	7.7	6.9	6.61	7.1	6.61	6.83	7.1	6.55	6.09	
	Phosphate total (P)	mg/L	0.05							0.06	0.06	-	-	-		<0.05	0.07	-	-	
	Sodium	mg/L	0.5	180			115			33	24	-	22	22		9.1	11	-	-	
	Sulphate as S	mg/L	2	250	500				1000	19	17	-	15.18	15.18		5	18	-	-	
TOC	mg/L	1							12	<5	-	10	10		<5	<5	-	-		
TSS	mg/L	1							35	19	6.5	118	9	9	8	5.9	22	12		
Tokuthion	mg/L	0.002							<0.002	<0.002	-	-	-				<0.002	-	-	
Metals	Aluminium	mg/L	0.01			0.055	5	5	1.3	0.88	-	3.41	3.41		0.29	0.28	-	-		
	Calcium	mg/L	0.5					1000	37	30	-	30	30		11	14	-	-		
	Chromium (hexavalent)	mg/L	0.001		0.05	0.001			<0.001	<0.001	-	<0.01	<0.01		<0.005	<0.001	-	-		
	Chromium (III+VI)	mg/L	0.001				0.1	1	0.003	0.001	-	0.003	0.003		<0.001	<0.001	-	-		
	Iron	mg/L	0.05	0.3			0.2	20	2.2	1.1	-	3.81	3.81		0.13	0.25	-	-		
	Magnesium	mg/L	0.5						9.3	6.7	-	7	7		3.1	4.3	-	-		
	Manganese	mg/L	0.001	0.1	0.5	1.9	0.2		0.032	0.02	-	0.07	0.07		0.019	0.017	-	-		
	Phosphorus	mg/L	0.01				0.05		0.06	0.06	-	0.21	0.21		0.07		-	-		
	Potassium	mg/L	0.5						14	8.2	-	8	-		3.2	4.4	-	-		
Organochlorine Pesticides	4,4-DDE	µg/L	0.1						<0.1	<0.1	-	-	<0.5		<0.1		-	-		
	a-BHC	µg/L	0.1						<0.1	<0.1	-	-	<0.5		<0.1		-	-		
	Aldrin	µg/L	0.1						<0.1	<0.1	-	-	<0.5		<0.1		-	-		
	Aldrin + Dieldrin	µg/L	0.5		0.3				-	-	-	-	<0.5		-		-	-		
	b-BHC	µg/L	0.1						<0.1	<0.1	-	-	<0.5		<0.1		-	-		
	chlordane	µg/L	0.5		2	0.08			<1	<1	-	-	<0.5		<1		-	-		
	Chlordane (cis)	µg/L	0.5						-	-	-	-	<0.5		-		-	-		
	Chlordane (trans)	µg/L	0.5						-	-	-	-	<0.5		-		-	-		
	d-BHC	µg/L	0.1						<0.1	<0.1	-	-	<0.5		<0.1		-	-		
	DDD	µg/L	0.1						<0.1	<0.1	-	-	<0.5		<0.1		-	-		
	DDT	µg/L	0.1		9	0.01				<0.1	<0.1	-	-	<2		<0.1		-	-	
	DDT+DDE+DDD	µg/L	0.5							-	-	-	-	<0.5		-		-	-	
	Dieldrin	µg/L	0.1							<0.1	<0.1	-	-	<0.5		<0.1		-	-	
	Endosulfan I	µg/L	0.1							<0.1	<0.1	-	-	<0.5		<0.1		-	-	
	Endosulfan II	µg/L	0.1							<0.1	<0.1	-	-	<0.5		<0.1		-	-	
	Endosulfan sulphate	µg/L	0.1							<0.1	<0.1	-	-	<0.5		<0.1		-	-	
	Endrin	µg/L	0.1			0.02				<0.1	<0.1	-	-	<0.5		<0.1		-	-	
	Endrin aldehyde	µg/L	0.1							<0.1	<0.1	-	-	<0.5		<0.1		-	-	
	Endrin ketone	µg/L	0.1							<0.1	<0.1	-	-	<0.5		<0.1		-	-	
g-BHC (Lindane)	µg/L	0.1							<0.1	<0.1	-	-	<0.5		<0.1		-	-		
Heptachlor	µg/L	0.1		10	0.2				<0.1	<0.1	-	-	<0.5		<0.1		-	-		
Heptachlor epoxide	µg/L	0.1		0.3	0.09				<0.1	<0.1	-	-	<0.5		<0.1		-	-		
Methoxychlor	µg/L	0.1							<0.1	<0.1	-	-	<2		<0.1		-	-		
Toxaphene	mg/L	0.01			0.0002				<0.01	<0.01	-	-	-		<0.01		-	-		



2016 Surface Water Retention Pond Analytical Results
 Sampling Frequency: Monthly During Discharge
 Nil Discharge: Jan, Feb, Mar, Apr and May

Lithgow Solid Waste Facility
 Lithgow City Council

LocCode	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01
Sampled_Date	16/06/2016	23/06/2016	14/07/2016	22/07/2016	25/07/2016	25/07/2016	9/08/2016	7/09/2016	19/09/2016	23/09/2016
Field_ID	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01	SW01

ADWG 2015 Aesthetic	ADWG 2015 Health	ANZECC 2000 FW 95%	ANZECC 2000 Irrigation Criteria	ANZECC 2000 Stock Watering
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Chem_Group	ChemName	Units	EQL	ADWG 2015 Aesthetic	ADWG 2015 Health	ANZECC 2000 FW 95%	ANZECC 2000 Irrigation Criteria	ANZECC 2000 Stock Watering	16/06/2016	23/06/2016	14/07/2016	22/07/2016	25/07/2016	25/07/2016	9/08/2016	7/09/2016	19/09/2016	23/09/2016
Organophosphorous Pesticides	Azinophos methyl	µg/L	0.5		30	0.02			<2	<2	-	-	<0.5	<2	-	-	-	-
	Bolstar (Sulprofos)	µg/L	2		10				<2	<2	-	-	-	<2	-	-	-	-
	Bromophos-ethyl	µg/L	0.5		10				-	-	-	-	<0.5	-	-	-	-	-
	Carbophenothion	µg/L	0.5		0.5				-	-	-	-	<0.5	-	-	-	-	-
	Chlorfenvinphos	µg/L	0.5		2				<2	<2	-	-	<0.5	<2	-	-	-	-
	Chlorpyrifos	µg/L	0.5		10	0.01			<20	<20	-	-	<0.5	<20	-	-	-	-
	Chlorpyrifos-methyl	mg/L	0.0005						<0.002	<0.002	-	-	<0.0005	<0.002	-	-	-	-
	Coumaphos	µg/L	2						<20	<20	-	-	-	<20	-	-	-	-
	Demeton-O	µg/L	2						<2	<2	-	-	-	<2	-	-	-	-
	Demeton-S	µg/L	20						<20	<20	-	-	-	<20	-	-	-	-
	Diazinon	µg/L	0.5			4	0.01			<2	<2	-	-	<0.5	<2	-	-	-
	Dichlorvos	µg/L	0.5			5				<2	<2	-	-	<0.5	<2	-	-	-
	Dimethoate	µg/L	0.5			7	0.15			<2	<2	-	-	<0.5	<2	-	-	-
	Disulfoton	µg/L	2			4				<2	<2	-	-	-	<2	-	-	-
	Ethion	µg/L	0.5			4				<2	<2	-	-	<0.5	<2	-	-	-
	Ethoprop	µg/L	2			1				<2	<2	-	-	-	<2	-	-	-
	Fenitrothion	µg/L	2			7	0.2			<2	<2	-	-	-	<2	-	-	-
	Fensulfothion	µg/L	2			10				<2	<2	-	-	-	<2	-	-	-
	Fenthion	µg/L	0.5			7				<2	<2	-	-	<0.5	<2	-	-	-
	Malathion	µg/L	0.5			70	0.05			<2	<2	-	-	<0.5	<2	-	-	-
	Merphos	mg/L	0.002							<0.002	<0.002	-	-	-	<0.002	-	-	-
	Methyl parathion	µg/L	2			0.7				<2	<2	-	-	<2	<2	-	-	-
	Mevinphos (Phosdrin)	µg/L	2			5				<2	<2	-	-	-	<2	-	-	-
	Monocrotophos	µg/L	2			2				<2	<2	-	-	<2	<2	-	-	-
	Naled (Dibrom)	µg/L	2							<2	<2	-	-	-	<2	-	-	-
	Omethoate	µg/L	2			1				<2	<2	-	-	-	<2	-	-	-
	Phorate	µg/L	2							<2	<2	-	-	-	<2	-	-	-
	Prothiofos	µg/L	0.5							-	-	-	-	<0.5	-	-	-	-
Pyrazophos	µg/L	2			20				<2	<2	-	-	-	<2	-	-	-	
Ronnel	µg/L	2							<2	<2	-	-	-	<2	-	-	-	
Stirophos	µg/L	2							-	-	-	-	-	-	-	-	-	
Terbufos	µg/L	2			0.9				<2	<2	-	-	-	<2	-	-	-	
Trichloronate	µg/L	2							<2	<2	-	-	-	<2	-	-	-	
Tetrachlorvinphos	mg/L	0.002			0.1				<0.002	<0.002	-	-	-	<0.002	-	-	-	
PAH/Phenols	Naphthalene	µg/L	10			16			<10	<10	-	-	-	<10	-	-	-	
	Phenolics Total	µg/L	50						<50	<50	-	<50	<50	<50	-	-	-	
Pesticides	Demeton (total)	µg/L	4						-	-	-	-	-	-	-	-	-	
	Demeton-S-methyl	µg/L	0.5						-	-	-	-	<0.5	-	-	-	-	
	Fenamiphos	µg/L	0.5		0.5				-	-	-	-	<0.5	-	-	-	-	
	Parathion	µg/L	2		20	0.004			<2	<2	-	-	<2	<2	-	-	-	
	Pirimiphos-methyl	mg/L	0.02		0.09				<0.02	<0.02	-	-	-	<0.02	-	-	-	
	Pirimphos-ethyl	µg/L	0.5		0.5				-	-	-	-	<0.5	-	-	-	-	
Profenofos	µg/L	2		0.3				-	-	-	-	-	-	-	-	-		
Phenolics	Phenols	mg/L							-	-	-	<0.05	-	<0.05	-	-	-	
SVOCs	EPN	µg/L	2						<2	<2	-	-	-	<2	-	-	-	
BTEX	C6-C10 less BTEX (F1)	mg/L	0.02						<0.02	<0.02	-	-	-	<0.02	-	-	-	
Halogenated Benzenes	Hexachlorobenzene	µg/L	0.1						<0.1	<0.1	-	-	<0.5	<0.1	-	-	-	
TPH	C10-C16	mg/L	0.05						<0.05	<0.05	-	-	<0.1	<0.05	-	-	-	
	C16-C34	mg/L	0.1						0.5	<0.1	-	-	<0.1	<0.1	-	-	-	
	C34-C40	mg/L	0.1						0.3	<0.1	-	-	<0.1	<0.1	-	-	-	
	F2-NAPHTHALENE	mg/L	0.05						<0.05	<0.05	-	-	<0.1	<0.05	-	-	-	
	C6 - C9	µg/L	20						<20	<20	-	-	-	<20	-	-	-	
	C10 - C14	µg/L	50						50	<50	-	-	<50	<50	-	-	-	
	C15 - C28	µg/L	100						100	<100	-	-	<100	<100	-	-	-	
	C29-C36	µg/L	50						400	<100	-	-	<50	<100	-	-	-	
	+C10 - C36 (Sum of total)	µg/L	50						550	<100	-	-	<50	<100	-	-	-	
	C10 - C40 (Sum of total)	µg/L	100						-	-	-	-	<100	-	-	-	-	
C6-C10	mg/L	0.02						<0.02	<0.02	-	-	-	<0.02	-	-	-		

City of Lithgow Council
Lithgow Solid Waste Facility
Geordie St, Lithgow NSW 2790
EPL 6004
Waste Disposal (application to land)

Sampling EPA Point 1 (Groundwater MB1)
Sampling Frequency (where liquid is present)

Date Sampled	Date Analysed	Date Published	pH (pH units)	Electrical Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L)	Sulphate (mg/L)	Chloride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Aluminium (mg/L)	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Manganese (mg/L)	Iron (mg/L)	Hexavalent Chromium (mg/L)	Fluoride (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Phosphorus (mg/L)	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Total Phenolics (mg/L)	Organochlorine Pesticides (mg/L)	Organophosphorus Pesticides (mg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C10 µg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C40 µg/L)	Standing Water Level (m RL)		
30-Oct-12																																	
17-Apr-13																																	
23-Oct-13																																934.84	
2-Apr-14																																	
2-Jun-14																																	
21-Oct-14																																	935.75
21-Apr-15																																	
12-Oct-15																																	

Sampling Point 2 (Groundwater MB5)
Sampling Frequency (where liquid is present)

Date Sampled	Date Analysed	Date Published	pH (pH units)	Electrical Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L)	Sulphate (mg/L)	Chloride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Aluminium (mg/L)	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Manganese (mg/L)	Iron (mg/L)	Hexavalent Chromium (mg/L)	Fluoride (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Phosphorus (mg/L)	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Total Phenolics (mg/L)	Organochlorine Pesticides (mg/L)	Organophosphorus Pesticides (mg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C10 µg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C40 µg/L)	Standing Water Level (m RL)		
24-Apr-12	26-Sep-12		7.03	1700	1100	419	108	248	108	43	147	76	<0.01	0.687	<0.001	0.02	1.88	<0.05	<0.010	0.1	9.66	1.59	0.07	10	41	<0.05	<0.0135	<0.014			913.19		
30-Oct-12	16-Jan-13		7.31	1840	1200	446	40	326	113	42	137	68	2.4	0.626	<0.001	0.015	1.36	5.76	<0.01	<0.1	12.5	0.16	0.09	8	54	<0.05	<0.0135	<0.014			912.45		
17-Apr-13	20-May-13		7.37	1390	904	337	43	196	83	28	114	75	1.7	0.365	<0.001	0.006	0.912	1.77	<0.01	<0.1	11.7	0.36	0.12	2	33	<0.05	<0.0135	<0.014			912.87		
23-Oct-13	29-Nov-13		6.83	1740	1130	457	38	265	107	37	131	67	0.07	0.652	<0.001	0.015	1.34	7.06	<0.01	<0.1	8.15	0.89	0.02	10	39	<0.05	<0.01	<0.014			912.30		
2-Apr-14																																	911.76
2-Jun-14	28-Jul-14		6.63	1780	1160	427	40	262	130	36	137	72	0.03	0.451	0.002	0.006	1.06	0.6	<0.01	0.1	14.8	18.1	0.29	7	27	<0.05	<0.010	<0.014			911.78		
21-Oct-14	31-Oct-14		6.72	995	647	273	29	134	62	20	91	53	<0.01	0.225	<0.001	0.003	0.622	<0.05	<0.01	<0.1	2.34	6.09	0.15	7	13	<0.05	<0.010	<0.014			911.93		
21-Apr-15	19-May-15		6.86	1530	994	369	18	262	99	32	110	66	<0.01	0.416	<0.001	0.005	0.975	0.47	<0.01	<0.1	3.5	4.54	0.08	5	14	<0.05	<0.01	<0.014	<20	<100	912.18		
12-Oct-15	12-Nov-15		6.63	1600	1040	375	43	254	104	35	119	64	<0.01	0.464	<0.001	0.006	1.1	1.77	<0.01	<0.1	6.42	0.93	0.03	7	30	<0.05	<0.015	<0.014	<50	<100	912.4		

Note no TRH detected

Note no TRH detected

Sampling Point 3 (Groundwater MB6-B)
Sampling Frequency (where liquid is present)

Date Sampled	Date Analysed	Date Published	pH (pH units)	Electrical Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L)	Sulphate (mg/L)	Chloride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Aluminium (mg/L)	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Manganese (mg/L)	Iron (mg/L)	Hexavalent Chromium (mg/L)	Fluoride (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Phosphorus (mg/L)	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Total Phenolics (mg/L)	Organochlorine Pesticides (mg/L)	Organophosphorus Pesticides (mg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C10 µg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C40 µg/L)	Standing Water Level (m RL)
24-Apr-12	26-Sep-12		7.28	2750	1790	895	96	270	202	59	250	144	0.01	0.554	0.002	0.014	0.949	0.1	<0.010	0.5	3.86	45.6	0.2	43	146	<0.05	<0.0135	<0.014			939.57
30-Oct-12	16-Jan-13		7.36	2730	1770	877	46	383	188	68	225	117	0.36	0.784	0.003	0.013	3.22	39.2	<0.01	0.2	8.42	0.06	0.4	48	221	<0.05	<0.0135	<0.014			932.40
17-Apr-13	20-May-13		7.56	5770	3750	1180	132	934	363	111	572	236	0.11	0.553	0.003	0.027	1.68	9.92	<0.01	0.3	12.6	41.8	0.16	57	260	<0.05	<0.0135	<0.014			933.49
23-Oct-13	29-Nov-13		6.56	2410	1570	665	112	356	148	60	207	104	0.35	0.296	0.002	0.013	2.28	36.6	<0.01	0.2	1.63	0.11	0.42	27	78	<0.05	<0.01	<0.014			933.07
2-Apr-14	26-May-14		6.83	4510	2930	854	186	702	323	86	462	139	0.4	0.392	0.002	0.012	1.91	9.43	<0.01	0.3	1.6	0.07	0.1	39	140	<0.05	<0.01	<0.014			936.04
21-Oct-14	31-Oct-14		6.77	4010	2610	1160	152	635	196	96	497	154	0.02	0.367	0.001	0.012	1.67	9.77	<0.01	0.2	0.27	0.36	0.05	32	98	<0.05	<0.01	<0.014			935.63
21-Apr-15	19-May-15		6.4	1820	1180	580	45	265	110	64	129	54	0.01	0.308	0.001	0.002	2.78	45.9	<0.01	0.2	1.59	<0.01	0.54	14	75	0.06	<0.01	<0.014	<20	<100	932.06
12-Oct-15	12-Nov-15		6.68	1230	800	314	36	166	74	58	69	21	<0.01	0.578	<0.001	0.002	3.26	46.5	<0.01	0.2	1.28	0.07	0.16	5	31	<0.05	<0.015	<0.014	<50	<100	934.86

Sampling Point 4 (Groundwater MB9)
Sampling Frequency (where liquid is present)

Date Sampled	Date Analysed	Date Published	pH (pH units)	Electrical Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L)	Sulphate (mg/L)	Chloride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Aluminium (mg/L)	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Manganese (mg/L)	Iron (mg/L)	Hexavalent Chromium (mg/L)	Fluoride (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Phosphorus (mg/L)	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Total Phenolics (mg/L)	Organochlorine Pesticides (mg/L)	Organophosphorus Pesticides (mg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C10 µg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C40 µg/L)	Standing Water Level (m RL)		
24-Apr-12	26-Sep-12		7.21	840	546	306	12	51	42	16	48	55	0.05	0.256	<0.001	0.023	5.2	16.7	<0.010	0.1	15.1	3.92	0.13	5	27	<0.05	<0.0135	<0.014			916.85		
30-Oct-12	16-Jan-13		7.24	779	506	280	5	58	51	17	32	34	0.11	0.283	<0.001	0.029	5.59	38	<0.01	0.1	11.7	0.03	0.07	5	28	<0.05	<0.0135	<0.014			915.62		
17-Apr-13																																	
23-May-13	3-Jun-13		7.36	844	549	276	12	62	42	16	44	50	0.13	0.265	<0.001	0.016	3.95	11.9	<0.01	<0.1	13.2	0.75	0.13	12	67	<0.05	<0.0135	<0.014			916.15		
23-Oct-13	29-Nov-13		6.59	592	385	207	14	53	30	14	32	23	0.22	0.305	0.001	0.019	3.02	10.6	<0.01	<0.1	6.52	0.05	0.02	3	13	<0.05	<0.01	<0.014			915.35		
2-Apr-14	26-May-14		6.38	472	307	105	22	51	18	14	36	11	0.03	0.18	<0.001	0.015	1.44	2.86	<0.01	<0.1	2.43	0.07	0.04	2	11	<0.05	<0.01	<0.014			915.29		
21-Oct-14	31-Oct-14		6.55	736	476	251	20	75	36	16	49	34	0.04	0.228	<0.001	0.014	2.68	10.4	<0.01	<0.1	8.28	0.06	0.07	4	12	<0.05	<0.01	<0.014			915.82		
21-Apr-15	19-May-15		6.47	650	422	263	10	56	42	16	31	22	0.04	0.224	<0.001	0.022	3.55	28.4	<0.01	<0.1	7.35	0.06	0.14	2	26	<0.05	<0.01	<0.014	<20	<100	915.82		
12-Oct-15	12-Nov-15		6.73	587	382	212	11	43	46	14	26	19	<0.01	0.243	<0.001	0.024	3.56	35.9	<0.01	<0.1	7.27	0.01	0.14	4	20	<0.05	<0.015	<0.014	<50	<100	916.86		

Note no TRH detected

Sampling Point 5 (Groundwater MB10)
Sampling Frequency (where liquid is present)

Date Sampled	Date Analysed	Date Published	pH (pH units)	Electrical Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L)	Sulphate (mg/L)	Chloride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Aluminium (mg/L)	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Manganese (mg/L)	Iron (mg/L)	Hexavalent Chromium (mg/L)	Fluoride (mg/L)	Ammonia as N (mg/L)	Nitrate as N (mg/L)	Phosphorus (mg/L)	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Total Phenolics (mg/L)	Organochlorine Pesticides (mg/L)	Organophosphorus Pesticides (mg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C10 µg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C40 µg/L)	Standing Water Level (m RL)
24-Apr-12	26-Sep-12		6.62	120	78	27	12	12	6	5																					

Sampling Point 8 (Groundwater MB14)

Sampling Frequency (where liquid is present)			Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual
Date Sampled	Date Analysed	Date Published	pH (pH units)	Electrical Conductivity (µS/cm)	Total Dissolved Solids (mg/L)	Alkalinity (mg/L)	Sulphate (mg/L)	Chloride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Aluminium (mg/L)	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Manganese (mg/L)	Iron (mg/L)	Hexavalent Chromium (mg/L)	Fluoride (mg/L)	Ammonia as N (mg/NL)	Nitrate as N (mg/NL)	Phosphorus (mg/L)	Total Organic Carbon (mg/L)	Chemical Oxygen Demand (mg/L)	Total Phenolics (mg/L)	Organochlorine Pesticides (mg/L)	Organophosphorus Pesticides (mg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C10 µg/L)	Total Recoverable Hydrocarbons (NEPM 2013) (C6-C40 µg/L)	Standing Water Level (m RL)			
24-Apr-12	26-Sep-12		7.15	786	511	317	50	39	95	35	21	10	0.03	0.096	<0.001	<0.001	0.219	6.38	<0.010	0.1	0.21	0.02	0.03	4	13	<0.05	<0.0135	<0.014			897.90			
30-Oct-12	16-Jan-13		7.48	793	515	318	44	41	91	34	19	10	0.02	0.103	<0.001	<0.001	0.231	6.95	<0.01	<0.1	0.23	0.03	0.03	3	9	<0.05	<0.0135	<0.014			897.46			
17-Apr-13	20-May-13		7.73	817	531	352	40	32	102	33	21	13	0.03	0.089	<0.001	<0.001	0.1	1.81	<0.01	0.1	0.28	<0.01	0.01	1	24	<0.05	<0.0135	<0.014			897.66			
22-Oct-13	29-Nov-13		7.33	820	533	355	38	35	98	30	16	11	0.02	0.089	<0.001	<0.001	0.089	1.76	<0.01	0.1	0.2	0.09	0.04	6	9	<0.05	<0.01	<0.014			897.48			
2-Apr-14	26-May-14		7.39	255	166	74	12	8	25	8	6	3	<0.01	0.024	<0.001	<0.001	0.023	<0.05	<0.01	0.1	0.11	0.24	<0.01	<1	<5	<0.05	<0.01	<0.014			897.37			
21-Oct-14	31-Oct-14		7.37	790	514	360	41	40	101	35	22	11	<0.01	0.078	<0.001	<0.001	0.095	1.8	<0.01	0.3	0.21	0.06	0.03	3	<10	<0.05	<0.01	<0.014			897.60			
21-Apr-15	19-May-15		7.2	776	504	360	40	44	97	32	17	9	<0.01	0.08	<0.001	<0.001	0.089	1.12	<0.01	0.1	0.19	<0.01	0.02	2	<10	<0.05		<100		897.30				
12-Oct-15	12-Nov-15		7.56	766	498	313	44	33	98	33	16	9	< 0.01	0.096	< 0.001	< 0.001	0.074	1.17	< 0.01	0.1	0.22	< 0.01	< 0.01	2	11	< 0.05	<0.015	<0.014	< 50	< 100	897.51			

*Note no TRH detected

Sampling Point 9 (Leachate LW1)

Sampling Frequency (where liquid is present)			Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual	Biannual
Date Sampled	Date Analysed	Date Published	pH (pH units)	Alkalinity (mg/L)	Sulphate (mg/L)	Chloride (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Potassium (mg/L)	Manganese (mg/L)	Iron (mg/L)	Fluoride (mg/L)	Ammonia as N (mg/NL)	Nitrate as N (mg/NL)	Total Organic Carbon (mg/L)	Total Phenolics (mg/L)																
24-Apr-12	26-Sep-12		7.65	1490	58	245	117	48	98	55	0.134	0.11	<0.1	0.14	5.87	10	<0.05																
30-Oct-12	Dry																																
17-Apr-13	20-May-13		7.65	288	44	202	89	33	109	66	0.491	0.48	<0.1	1.96	3.41	6	<0.05																
23-Oct-13	Dry																																
2-Apr-14	26-May-14		7.74	227	30	266	87	36	106	48	0.144	0.05	<0.1	0.06	4.12	6	*																
2-Jun-14	28-Jul-14																<0.05																
21-Apr-15	19-May-15																																
12-Oct-15	12-Nov-15		7.49	266	36	271	90	35	110	49	0.096	< 0.05	0.1	0.04	3.63	5	< 0.05																

Sampling Point 10 (Accumulated gas)

Sampling Frequency			Biannual
Date Sampled	Date Analysed	Date Published	Presence of Methane >1.25% (v/v)?
24-Apr-12	26-Sep-12		No
31-May-12	26-Sep-12		No
13-Jun-12	26-Sep-12		No
18-Jul-12	26-Sep-12		No
15-Aug-12	26-Sep-12		No
6-Sep-12	16-Jan-13		No
30-Oct-12	16-Jan-13		No
19-Nov-12	16-Jan-13		No
23-Dec-12	16-Jan-13		No
29-Jan-13	20-May-13		No
19-Feb-13	20-May-13		No
7-Mar-13	20-May-13		No
17-Apr-13	20-May-13		No
23-May-13	30-May-13		No
13-Jun-13	10-Jul-13		No
26-Jul-13	28-Aug-13		No
29-Aug-13	28-Aug-13		No
22-Sep-13	29-Nov-13		No
23-Oct-13	29-Nov-13		No
12-Nov-13	29-Nov-13		No
18-Dec-13	25-Feb-14		No
16-Jan-14	25-Feb-14		No
13-Feb-14	25-Feb-14		No
10-Mar-14	26-May-14		No
2-Apr-14	26-May-14		No
15-May-14	26-May-14		No
02-Jun-14	28-Jul-14		No
01-Jul-14	28-Jul-14		No