

Environment Protection Licence Monitoring Data



Project name:	WestConnex – New M5	
Licensee	CPB Contractors Pty Limited	
Monitoring period	November 2018	
Website:	https://www.westconnex.com.au/NewM5Environment	
Environment Protection licence number/s:	20772	4627
Premise addresses	WestConnex New M5, between Beverly Hills and St Peters, Beverly Hills NSW 2209	New M5 St Peters Interchange, 10-16 Albert Street, St Peters NSW 2044

Monitoring Type: Water Discharge Monitoring

Discharge/Monitoring Point	Date sampled	Total suspended solids		pH		Oil & Grease		Monitoring frequency	Comment
		Licence limit	Result	Licence limit	Result	Licence limit	Result		
Water Treatment Plant BED-1	1/11/2018	50	*1.62	6.5-8.5	7.7	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	1/11/2018	50	*2.30	6.5-8.5	7.90	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	2/11/2018	50	*2.92	6.5-8.5	6.85	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	2/11/2018	50	*3.50	6.5-8.5	8.07	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	3/11/2018	50	*5.42	6.5-8.5	7.16	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	3/11/2018	50	*3.0	6.5-8.5	8.10	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	4/11/2018	50	*1.27	6.5-8.5	7.17	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	4/11/2018	50	*2.90	6.5-8.5	8.11	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	5/11/2018	50	*3.72	6.5-8.5	7.38	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	5/11/2018	50	*5.0	6.5-8.5	8.11	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	6/11/2018	50	*1.90	6.5-8.5	7.29	None visible	None	Each discharge	Compliant

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Discharge/Monitoring Point	Date sampled	Total suspended solids		pH		Oil & Grease		Monitoring frequency	Comment
		Licence limit	Result	Licence limit	Result	Licence limit	Result		
Water Treatment Plant SPI-2	6/11/2018	50	*5.10	6.5-8.5	8.11	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	7/11/2018	50	*1.38	6.5-8.5	7.15	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	7/11/2018	50	*5.40	6.5-8.5	8.08	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	8/11/2018	50	*1.4	6.5-8.5	7	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	8/11/2018	50	*6.0	6.5-8.5	8.11	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	9/11/2018	50	*1.9	6.5-8.5	7.13	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	9/11/2018	50	*6.10	6.5-8.5	7.35	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	10/11/2018	50	*2.0	6.5-8.5	7.11	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	10/11/2018	50	*5.50	6.5-8.5	6.91	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	11/11/2018	50	*1.5	6.5-8.5	7.16	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	11/11/2018	50	*5.40	6.5-8.5	6.87	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	12/11/2018	50	*1.7	6.5-8.5	7.13	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	12/11/2018	50	*5.30	6.5-8.5	7.02	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	13/11/2018	50	*7.10	6.5-8.5	6.8	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	13/11/2018	50	*2.5	6.5-8.5	7.88	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	13/11/2018	50	*2.27	6.5-8.5	8.09	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	14/11/2018	50	*16.71	6.5-8.5	7.43	None visible	None	Each discharge	Compliant

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Discharge/Monitoring Point	Date sampled	Total suspended solids		pH		Oil & Grease		Monitoring frequency	Comment
		Licence limit	Result	Licence limit	Result	Licence limit	Result		
Water Treatment Plant BED-1	14/11/2018	50	*1.8	6.5-8.5	7.13	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	14/11/2018	50	*18.20	6.5-8.5	6.59	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	15/11/2018	50	*7.35	6.5-8.5	7.31	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	15/11/2018	50	*2.20	6.5-8.5	7.03	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	15/11/2018	50	*18.30	6.5-8.5	6.50	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	16/11/2018	50	*9.20	6.5-8.5	7.31	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	16/11/2018	50	*2.15	6.5-8.5	8.20	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	16/11/2018	50	*22.0	6.5-8.5	7.78	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	16/11/2018	50	*29.90	6.5-8.5	8.21	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	17/11/2018	50	*7.90	6.5-8.5	7.51	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	17/11/2018	50	*2.65	6.5-8.5	7.14	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	17/11/2018	50	*16.10	6.5-8.5	8.32	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	18/11/2018	50	*4.54	6.5-8.5	7.27	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	18/11/2018	50	*1.77	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	18/11/2018	50	*6.30	6.5-8.5	8.31	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	19/11/2018	50	*10.63	6.5-8.5	6.89	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	19/11/2018	50	*1.7	6.5-8.5	7.17	None visible	None	Each discharge	Compliant

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Discharge/Monitoring Point	Date sampled	Total suspended solids		pH		Oil & Grease		Monitoring frequency	Comment
		Licence limit	Result	Licence limit	Result	Licence limit	Result		
Water Treatment Plant SPI-2	19/11/2018	50	*21.20	6.5-8.5	8.03	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	20/11/2018	50	*40.0	6.5-8.5	6.77	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	20/11/2018	50	*2.4	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	20/11/2018	50	*14.40	6.5-8.5	7.78	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	21/11/2018	50	*24.0	6.5-8.5	7.3	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	21/11/2018	50	*3.0	6.5-8.5	6.95	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	21/11/2018	50	*1.0	6.5-8.5	7.06	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	21/11/2018	50	*1.30	6.5-8.5	6.96	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	22/11/2018	50	*5.20	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	22/11/2018	50	*2.2	6.5-8.5	6.86	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	22/11/2018	50	*1.5	6.5-8.5	7.7	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	22/11/2018	50	*2.40	6.5-8.5	8.05	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	23/11/2018	50	*10.7	6.5-8.5	7.12	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	23/11/2018	50	*5.2	6.5-8.5	6.76	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	23/11/2018	50	*2.4	6.5-8.5	8.06	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	23/11/2018	50	*10.30	6.5-8.5	8.06	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	24/11/2018	50	*3.90	6.5-8.5	7.36	None visible	None	Each discharge	Compliant

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Discharge/Monitoring Point	Date sampled	Total suspended solids		pH		Oil & Grease		Monitoring frequency	Comment
		Licence limit	Result	Licence limit	Result	Licence limit	Result		
Water Treatment Plant BED-1	24/11/2018	50	*5.4	6.5-8.5	6.6	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	24/11/2018	50	*4.8	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	24/11/2018	50	*10.50	6.5-8.5	8.14	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	25/11/2018	50	*2.5	6.5-8.5	7	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	25/11/2018	50	*3.40	6.5-8.5	8.27	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	26/11/2018	50	*1.30	6.5-8.5	7.11	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	26/11/2018	50	*9.2	6.5-8.5	7.07	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	26/11/2018	50	*7.0	6.5-8.5	7.95	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	27/11/2018	50	*3.48	6.5-8.5	7.31	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	27/11/2018	50	*6.4	6.5-8.5	7.33	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	27/11/2018	50	*10.0	6.5-8.5	7.7	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	27/11/2018	50	*3.6	6.5-8.5	8.34	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	28/11/2018	50	*17.36	6.5-8.5	7.08	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	28/11/2018	50	*3.0	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	28/11/2018	50	*10.39	6.5-8.5	8.19	None visible	None	Each discharge	Compliant
Sediment Basin SPI-3	29/11/2018	50	*35	6.5-8.5	7.6	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	29/11/2018	50	*8.73	6.5-8.5	6.62	None visible	None	Each discharge	Compliant

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Discharge/Monitoring Point	Date sampled	Total suspended solids		pH		Oil & Grease		Monitoring frequency	Comment
		Licence limit	Result	Licence limit	Result	Licence limit	Result		
Water Treatment Plant BED-1	29/11/2018	50	*0.8	6.5-8.5	7.41	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	29/11/2018	50	*16.9	6.5-8.5	8.07	None visible	None	Each discharge	Compliant
Sediment Basin SPI-3	30/11/2018	50	*10	6.5-8.5	8.3	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	30/11/2018	50	*34.10	6.5-8.5	7.27	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	30/11/2018	50	*2.9	6.5-8.5	7.39	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	30/11/2018	50	*21.1	6.5-8.5	6.85	None visible	None	Each discharge	Compliant

* A correlation between TSS and Turbidity has been established. Including a safety factor, the turbidity limit is 50NTU.

Monitoring Type: Dust Monitoring (EPL 4627)

Monitoring Point / EPA Identification point (EPL 4627)	Start Date	Finish Date	Dust Deposition g/m2/month	Comment
SG01	10/10/2018	12/11/2018	4.6	SG01
SG02	10/10/2018	12/11/2018	6.2	SG02
SG03	10/10/2018	12/11/2018	6.7	SG03
SG04	10/10/2018	12/11/2018	18.4	SG04

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Monitoring Type: Ground Water Monitoring (EPL 4627)

Monitoring Point:		2 (MW1)	3 (LDS-BH-3071)	4 (LDS-BH-3071a)	5 (LDS-BH-2023)	6 (MW4b)	Sample frequency
Date Sampled:		26 Nov 18	26 Nov 18	26 Nov 18	26 Nov 18	26 Nov 18	
Parameters	Units						
Standing Water Level	mBTOC	Destroyed	15.49	2.35	Dry	13.4	Quarterly
Temperature (field)	deg c	Destroyed	21.5	22.3	Dry	23.5	Quarterly
pH (field)	pH units	Destroyed	7.46	6.79	Dry	6.04	Quarterly
Electrical Conductivity	uS/cm	Destroyed	173.6	1269	Dry	3956	Quarterly
Redox (field)	mV	Destroyed	55.2	23	Dry	63.1	Quarterly
Dissolved Oxygen (field)	mg/L	Destroyed	1.95	1.09	Dry	0.96	Quarterly
Total Organic Carbon	mg/L	Destroyed	6	31	Dry	16	Quarterly
Total Dissolved Solids	mg/L	Destroyed	89	670	Dry	2300	Quarterly
Chloride	mg/L	Destroyed	24	57	Dry	910	Quarterly
Sulphate	mg/L	Destroyed	10	160	Dry	410	Quarterly
Sodium (Na)	mg/L	Destroyed	16	55	Dry	800	Quarterly
Potassium (I) Ion	mg/L	Destroyed	3.8	21	Dry	7.6	Quarterly
Calcium (II) Ion	mg/L	Destroyed	13	190	Dry	8.1	Quarterly
Magnesium (II) Ion	mg/L	Destroyed	1	19	Dry	42	Quarterly
Ammonia as N	mg/L	Destroyed	0.016	<0.005	Dry	0.13	Quarterly
Total Alkalinity	mg/L	Destroyed	47	490	Dry	110	Quarterly
pH	pH Units	Destroyed	6.1	6.7	Dry	6	Quarterly
Total Phenolics	mg/L	nt	<0.05	<0.05	nt	<0.05	Yearly
Nitrate as N	mg/L	nt	0.7	0.97	nt	<0.005	Yearly
Nitrite as N	mg/L	nt	<0.005	<0.005	nt	<0.005	Yearly

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Monitoring Point:		2 (MW1)	3 (LDS-BH-3071)	4 (LDS-BH-3071a)	5 (LDS-BH-2023)	6 (MW4b)	Sample frequency
Date Sampled:		26 Nov 18	26 Nov 18	26 Nov 18	26 Nov 18	26 Nov 18	
Parameters	Units						
Fluoride	mg/L	nt	<0.1	1.1	nt	1.5	Yearly
Aluminium	mg/L	nt	<10	<10	nt	40	Yearly
Arsenic	mg/L	nt	<1	4	nt	<1	Yearly
Barium	mg/L	nt	33	55	nt	20	Yearly
Hexavalent Chromium	mg/L	nt	<0.005	<0.005	nt	<0.005	Yearly
Cadmium	mg/L	nt	<0.1	5.9	nt	<0.1	Yearly
Chromium	mg/L	nt	<1	<1	nt	<1	Yearly
Cobalt	mg/L	nt	<1	2	nt	11	Yearly
Copper	mg/L	nt	4	42	nt	1	Yearly
Lead	mg/L	nt	<1	3	nt	<1	Yearly
Manganese	mg/L	nt	7	130	nt	1500	Yearly
Mercury	mg/L	nt	<0.05	<0.05	nt	<0.05	Yearly
Zinc	mg/L	nt	19	3400	nt	27	Yearly
Naphthalene	ug/L	nt	<1	<1	nt	<1	Yearly
Acenaphthylene	ug/L	nt	<1	<1	nt	<1	Yearly
Acenaphthene	ug/L	nt	<1	<1	nt	<1	Yearly
Fluorene	ug/L	nt	<1	<1	nt	<1	Yearly
Phenanthrene	ug/L	nt	<1	<1	nt	<1	Yearly
Anthracene	ug/L	nt	<1	<1	nt	<1	Yearly
Fluoranthene	ug/L	nt	<1	<1	nt	<1	Yearly
Pyrene	ug/L	nt	<1	<1	nt	<1	Yearly
Benzo(a)anthracene	ug/L	nt	<1	<1	nt	<1	Yearly
Chrysene	ug/L	nt	<1	<1	nt	<1	Yearly

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Monitoring Point:		2 (MW1)	3 (LDS-BH-3071)	4 (LDS-BH-3071a)	5 (LDS-BH-2023)	6 (MW4b)	Sample frequency
Date Sampled:		26 Nov 18	26 Nov 18	26 Nov 18	26 Nov 18	26 Nov 18	
Parameters	Units						
Benzo(b,j+k)fluoranthene	ug/L	nt	<2	<2	nt	<2	Yearly
Benzo(a)pyrene	ug/L	nt	<1	<1	nt	<1	Yearly
Indeno(1,2,3-c,d)pyrene	ug/L	nt	<1	<1	nt	<1	Yearly
Dibenzo(a,h)anthracene	ug/L	nt	<1	<1	nt	<1	Yearly
Benzo(g,h,i)perylene	ug/L	nt	<1	<1	nt	<1	Yearly
HCB	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
alpha-BHC	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
gamma-BHC	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
beta-BHC	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Heptachlor	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
delta-BHC	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Aldrin	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Heptachlor Epoxide	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
gamma-Chlordane	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
alpha-Chlordane	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Endosulfan I	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
pp-DDE	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Dieldrin	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Endrin	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
pp-DDD	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Endosulfan II	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
pp-DDT	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly

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Monitoring Point:		2 (MW1)	3 (LDS-BH-3071)	4 (LDS-BH-3071a)	5 (LDS-BH-2023)	6 (MW4b)	Sample frequency
Date Sampled:		26 Nov 18	26 Nov 18	26 Nov 18	26 Nov 18	26 Nov 18	
Parameters	Units						
Endrin Aldehyde	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Endosulfan Sulphate	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Methoxychlor	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Azinphos-methyl (Guthion)	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Bromophos ethyl	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Chlorpyrifos	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Chlorpyrifos-methyl	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Diazinon	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Dichlorovos	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Dimethoate	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Ethion	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Fenitrothion	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Malathion	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Parathion	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
Ronnel	ug/L	nt	<0.2	<0.2	nt	<0.2	Yearly
TRH C6 - C9	ug/L	nt	<10	<10	nt	<10	Yearly
TRH C6 - C10	ug/L	nt	<10	<10	nt	<10	Yearly
Benzene	ug/L	nt	<1	<1	nt	<1	Yearly
Toluene	ug/L	nt	<1	<1	nt	<1	Yearly
Ethylbenzene	ug/L	nt	<1	<1	nt	<1	Yearly
m+p-xylene	ug/L	nt	<2	<2	nt	<2	Yearly
o-xylene	ug/L	nt	<1	<1	nt	<1	Yearly

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Monitoring Point:		2 (MW1)	3 (LDS-BH-3071)	4 (LDS-BH-3071a)	5 (LDS-BH-2023)	6 (MW4b)	Sample frequency
Date Sampled:		26 Nov 18	26 Nov 18	26 Nov 18	26 Nov 18	26 Nov 18	
Parameters	Units						
TRH C10 - C14	ug/L	nt	<50	<50	nt	<50	Yearly
TRH C15 - C28	ug/L	nt	<100	<100	nt	<100	Yearly
TRH C29 - C36	ug/L	nt	<100	<100	nt	<100	Yearly
TRH >C10 - C16	ug/L	nt	<50	<50	nt	<50	Yearly
TRH >C10 - C16 less Naphthalene (F2)	ug/L	nt	<50	<50	nt	<50	Yearly
TRH >C16 - C34	ug/L	nt	<100	<100	nt	<100	Yearly
TRH >C34 - C40	ug/L	nt	<100	<100	nt	<100	Yearly

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Monitoring Type: Leachate Analytical Results (EPL 4627)

Monitoring Point:		7 (LP1)	Sample frequency
Date Sampled:		26 Nov 18	
Parameters	Units		
Temperature (field)	deg c	28	Quarterly
pH (field)	pH units	7.14	Quarterly
Electrical Conductivity (field)	uS/cm	8546	Quarterly
Redox (field)	mV	-94	Quarterly
Dissolved Oxygen (field)	mg/L	1.93	Quarterly
Electrical Conductivity	µS/cm	7800	Quarterly
pH	pH units	7.4	Quarterly
Biological Oxygen Demand	mg/L	11	Quarterly
Total Dissolved Solids	mg/L	3800	Quarterly
Ammonia as N	mg/L	170	Quarterly
Total Alkalinity (Carbonate and Bicarbonate)	mg/L	2900	Quarterly
Chloride	mg/L	1000	Quarterly
Sulphate	mg/L	23	Quarterly
Sodium (Na)	mg/L	1200	Quarterly
Potassium (I) Ion	mg/L	210	Quarterly

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Monitoring Point:		7 (LP1)	Sample frequency
Date Sampled:		26 Nov 18	
Parameters	Units		
Calcium (II) Ion	mg/L	87	Quarterly
Magnesium (II) Ion	mg/L	65	Quarterly
Fluoride, F	mg/L	0.6	Quarterly
Nitrate as N in water	mg/L	<0.01	Quarterly
Nitrite as N in water	mg/L	<0.005	Quarterly
Total Phenolics (as Phenol)	mg/L	<0.05	Quarterly
Total Suspended Solids	mg/L	8	Quarterly
Total Organic Carbon	mg/L	160	Quarterly
TRH C6 - C9	µg/L	49	Quarterly
TRH C6 - C10	µg/L	67	Quarterly
Benzene	µg/L	4	Quarterly
Toluene	µg/L	<1	Quarterly
Ethylbenzene	µg/L	2	Quarterly
m+p-xylene	µg/L	3	Quarterly
o-xylene	µg/L	2	Quarterly
Naphthalene	µg/L	23	Quarterly

Environment Protection Licence Monitoring Data

Monitoring Point:		7 (LP1)	Sample frequency
Date Sampled:		26 Nov 18	
Parameters	Units		
TRH C10 - C14	µg/L	530	Quarterly
TRH C15 - C28	µg/L	1200	Quarterly
TRH C29 - C36	µg/L	<100	Quarterly
TRH >C10 - C16	µg/L	690	Quarterly
TRH >C10 - C16 less Naphthalene (F2)	µg/L	660	Quarterly
TRH >C16 - C34	µg/L	1100	Quarterly
TRH >C34 - C40	µg/L	<100	Quarterly
Naphthalene	µg/L	16	Quarterly
Acenaphthylene	µg/L	<1	Quarterly
Acenaphthene	µg/L	<1	Quarterly
Fluorene	µg/L	<1	Quarterly
Phenanthrene	µg/L	<1	Quarterly
Anthracene	µg/L	<1	Quarterly
Fluoranthene	µg/L	<1	Quarterly
Pyrene	µg/L	<1	Quarterly
Benzo(a)anthracene	µg/L	<1	Quarterly

Environment Protection Licence Monitoring Data

Monitoring Point:		7 (LP1)	Sample frequency
Date Sampled:		26 Nov 18	
Parameters	Units		
Chrysene	µg/L	<1	Quarterly
Benzo(b,j+k)fluoranthene	µg/L	<2	Quarterly
Benzo(a)pyrene	µg/L	<1	Quarterly
Indeno(1,2,3-c,d)pyrene	µg/L	<1	Quarterly
Dibenzo(a,h)anthracene	µg/L	<1	Quarterly
Benzo(g,h,i)perylene	µg/L	<1	Quarterly
Benzo(a)pyrene TEQ	µg/L	<5	Quarterly
Total +ve PAH's	µg/L	16	Quarterly
HCB	µg/L	<0.2	Quarterly
alpha-BHC	µg/L	<0.2	Quarterly
gamma-BHC	µg/L	<0.2	Quarterly
beta-BHC	µg/L	<0.2	Quarterly
Heptachlor	µg/L	<0.2	Quarterly
delta-BHC	µg/L	<0.2	Quarterly
Aldrin	µg/L	<0.2	Quarterly
Heptachlor Epoxide	µg/L	<0.2	Quarterly

Environment Protection Licence Monitoring Data

Monitoring Point:		7 (LP1)	Sample frequency
Date Sampled:		26 Nov 18	
Parameters	Units		
gamma-Chlordane	µg/L	<0.2	Quarterly
alpha-Chlordane	µg/L	<0.2	Quarterly
Endosulfan I	µg/L	<0.2	Quarterly
pp-DDE	µg/L	<0.2	Quarterly
Dieldrin	µg/L	<0.2	Quarterly
Endrin	µg/L	<0.2	Quarterly
pp-DDD	µg/L	<0.2	Quarterly
Endosulfan II	µg/L	<0.2	Quarterly
pp-DDT	µg/L	<0.2	Quarterly
Endrin Aldehyde	µg/L	<0.2	Quarterly
Endosulfan Sulphate	µg/L	<0.2	Quarterly
Methoxychlor	µg/L	<0.2	Quarterly
Azinphos-methyl (Guthion)	µg/L	<0.2	Quarterly
Bromophos ethyl	µg/L	<0.2	Quarterly
Chlorpyrifos	µg/L	<0.2	Quarterly
Chlorpyrifos-methyl	µg/L	<0.2	Quarterly

Environment Protection Licence Monitoring Data

Monitoring Point:		7 (LP1)	Sample frequency
Date Sampled:		26 Nov 18	
Parameters	Units		
Diazinon	mg/L	<0.2	Quarterly
Dichlorovos	µg/L	<0.2	Quarterly
Dimethoate	µg/L	<0.2	Quarterly
Ethion	µg/L	<0.2	Quarterly
Fenitrothion	µg/L	<0.2	Quarterly
Malathion	µg/L	<0.2	Quarterly
Parathion	µg/L	<0.2	Quarterly
Ronnel	µg/L	<0.2	Quarterly
Aluminium	µg/L	<10	Quarterly
Arsenic	µg/L	5	Quarterly
Barium	µg/L	2000	Quarterly
Cadmium	µg/L	<0.1	Quarterly
Chromium	µg/L	11	Quarterly
Hexavalent Chromium, Cr6+	mg/L	<0.05	Quarterly
Cobalt	µg/L	4	Quarterly
Copper	µg/L	4	Quarterly

Environment Protection Licence Monitoring Data

Monitoring Point:		7 (LP1)	Sample frequency
Date Sampled:		26 Nov 18	
Parameters	Units		
Lead	µg/L	<1	Quarterly
Manganese	µg/L	92	Quarterly
Mercury	µg/L	<0.05	Quarterly
Zinc	µg/L	24	Quarterly

NOTES:

nt = Not Tested



- ★ Discharge Point
- Railway Station
- ALF (subject to EPL No. 4627)
- Deed Boundary
- Premised Area

Rev	Description	Date	Approved
M	Added Discharge Point	08/01/2019	
S	Modified premised area boundary	13/11/2018	
R	Premised Area boundary modification	04/10/2018	
Q	ALF and Premised Area boundary modification	04/09/2018	
P	Modified Premise Area Boundary	12/07/2018	
O	ALF Boundary and Premise Area modification	03/07/2018	
N	Premised Area boundary modification	20/06/2018	

Scales

1:36000

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Client

Status			
For Information Only - NOT FOR CONSTRUCTION			
Original Size	A3	Drawn	PB
Coordinate System	MGA ZONE 56	Requested by	CG
Height Datum	AHD	Date Printed	8/01/2019
Filename:	Premise_Overview_revT.mxd		

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Premise Map Overview

DOCUMENT NUMBER



- ★ Discharge Point
- ▲ Dust Gauge
- Leachate Monitoring Location
- ⊕ Groundwater Monitoring Location
- ALF (subject to EPL No. 4627)
- Deed Boundary
- Premised Area

Rev	Description	Date	Approved
P	Added Discharge Point	08/01/2018	
O	Modified premised area boundary	04/10/2018	
N	ALF Boundary and Premise Area modification	04/09/2018	
M	ALF Boundary and Premise Area modification	03/07/2018	
L	Modified premised area boundary	14/03/2018	
K	ALF and Premised Area boundary modification	06/12/2017	
J	Premised Area boundary modification	20/09/2017	

Scale

0 100 m

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Client

Status
For Information Only - NOT FOR CONSTRUCTION

Original Size	A3	Drawn	PB
Coordinate System	MGA ZONE 56	Requested by	CG
Height Datum	AHD	Date Printed	8/01/2019
Filename:	Premise_SPI_RevP.mxd		

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Premise Map
St Peters Interchange

DOCUMENT NUMBER