

Environment Protection Licence Monitoring Data



Project name:	WestConnex – New M5	
Licensee	CPB Contractors Pty Limited	
Monitoring period	June 2017	
Website:	WestConnex – Explore the Route – New M5 (Beverly Hills to St Peters) – New M5 Resources	
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 KGD-1	1/06/2017	50	*0.4	6.5-8.5	8.1	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	1/06/2017	50	*11.0	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	1/06/2017	50	*3.1	6.5-8.5	7.4	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	2/06/2017	50	*6.8	6.5-8.5	7.4	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	2/06/2017	50	*1.0	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	3/06/2017	50	*1.3	6.5-8.5	6.6	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	3/06/2017	50	*8.9	6.5-8.5	7.0	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	4/06/2017	50	*1.5	6.5-8.5	6.5	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	4/06/2017	50	*3.1	6.5-8.5	7.4	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	5/06/2017	50	*2.4	6.5-8.5	6.8	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	5/06/2017	50	*1.6	6.5-8.5	7.0	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	6/06/2017	50	*1.8	6.5-8.5	6.8	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 ARN-2	6/06/2017	50	*3.4	6.5-8.5	7.0	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	6/06/2017	50	*0.2	6.5-8.5	6.8	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	6/06/2017	50	*0.3	6.5-8.5	7.7	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	7/06/2017	50	*3.9	6.5-8.5	7.3	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	7/06/2017	50	*1.3	6.5-8.5	7.7	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	7/06/2017	50	*1.6	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	8/06/2017	50	*1.7	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	8/06/2017	50	*1.9	6.5-8.5	7.0	None visible	None	Each discharge	Compliant
Water Treatment Plant WSW-2	8/06/2017	50	*2.6	6.5-8.5	7.9	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	8/06/2017	50	*2.0	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	9/06/2017	50	*1.9	6.5-8.5	7.3	None visible	None	Each discharge	Compliant
Sediment Basin WSW-1	9/06/2017	50	*25.0	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant WSW-2	9/06/2017	50	*9.1	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	9/06/2017	50	*6.1	6.5-8.5	7.9	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	9/06/2017	50	*7.0	6.5-8.5	6.6	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	10/06/2017	50	*4.1	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	10/06/2017	50	*5.3	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	11/06/2017	50	*2.5	6.5-8.5	7.1	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	11/06/2017	50	*8.4	6.5-8.5	7.4	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	12/06/2017	50	*3.5	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	12/06/2017	50	*2.6	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	13/06/2017	50	*4.3	6.5-8.5	7.6	None visible	None	Each discharge	Compliant
Water Treatment Plant WSW-2	13/06/2017	50	*4.4	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	13/06/2017	50	*3.1	6.5-8.5	7.1	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	14/06/2017	50	*9.7	6.5-8.5	7.1	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	14/06/2017	50	*1.6	6.5-8.5	6.7	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	14/06/2017	50	*4.96	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Sediment Basin SPI-1	14/06/2017	50	10.0	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	15/06/2017	50	*4.9	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Sediment Basin WSW-1	15/06/2017	50	*25.0	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	15/06/2017	50	*1.8	6.5-8.5	7.9	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	15/06/2017	50	*2.4	6.5-8.5	7.1	None visible	None	Each discharge	Compliant
Sediment Basin SPI-1	15/06/2017	50	20.0	6.5-8.5	7.3	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	16/06/2017	50	*3.3	6.5-8.5	7.1	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	16/06/2017	50	*5.7	6.5-8.5	7.7	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	17/06/2017	50	*4.8	6.5-8.5	6.9	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 KGD-1	17/06/2017	50	*1.6	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	17/06/2017	50	*2.9	6.5-8.5	7.0	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	18/06/2017	50	*3.9	6.5-8.5	6.6	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	18/06/2017	50	*4.5	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	19/06/2017	50	*7.3	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	19/06/2017	50	*4.4	6.5-8.5	6.9	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	20/06/2017	50	*3.8	6.5-8.5	7.1	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	20/06/2017	50	*3.6	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	20/06/2017	50	*1.7	6.5-8.5	7.7	None visible	None	Each discharge	Compliant
Sediment Basin SPI-1	20/06/2017	50	15.0	6.5-8.5	6.8	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	21/06/2017	50	*1.1	6.5-8.5	7.9	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	21/06/2017	50	*6.5	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	21/06/2017	50	*5.9	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Sediment Basin SPI-1	21/06/2017	50	10.0	6.5-8.5	7.4	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	22/06/2017	50	16.0	6.5-8.5	7.8	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	22/06/2017	50	*8.6	6.5-8.5	7.8	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	22/06/2017	50	*0.3	6.5-8.5	7.7	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	23/06/2017	50	*0.3	6.5-8.5	7.8	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 ARN-2	23/06/2017	50	*6.3	6.5-8.5	8.3	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	23/06/2017	50	*1.2	6.5-8.5	7.0	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	24/06/2017	50	*3.7	6.5-8.5	7.3	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	24/06/2017	50	*7.5	6.5-8.5	7.3	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	25/06/2017	50	*6.4	6.5-8.5	7.1	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	25/06/2017	50	*3.9	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	26/06/2017	50	*2.3	6.5-8.5	7.3	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	26/06/2017	50	*7.8	6.5-8.5	7.7	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	26/06/2017	50	*0.3	6.5-8.5	8.0	None visible	None	Each discharge	Compliant
Sediment Basin SPI-1	26/06/2017	50	*11.0	6.5-8.5	7.7	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	27/06/2017	50	*0.2	6.5-8.5	8.0	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	27/06/2017	50	19.0	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	27/06/2017	50	*7.0	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	28/06/2017	50	*0.7	6.5-8.5	7.3	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	28/06/2017	50	*6.3	6.5-8.5	7.4	None visible	None	Each discharge	Compliant
Water Treatment Plant KGD-1	28/06/2017	50	*0.3	6.5-8.5	7.8	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	28/06/2017	50	*9.0	6.5-8.5	7.1	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	29/06/2017	50	*5.3	6.5-8.5	7.5	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	29/06/2017	50	*1.3	6.5-8.5	7.1	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	29/06/2017	50	28.0	6.5-8.5	7.8	None visible	None	Each discharge	Compliant
Water Treatment Plant BED-1	30/06/2017	50	*1.0	6.5-8.5	7.5	None visible	None	Each discharge	Compliant
Water Treatment Plant ARN-2	30/06/2017	50	*4.4	6.5-8.5	7.2	None visible	None	Each discharge	Compliant
Water Treatment Plant SPI-2	30/06/2017	50	*8.5	6.5-8.5	7.0	None visible	None	Each discharge	Compliant

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

Environment Protection Licence Monitoring Data

Monitoring Type: Dust Monitoring (EPL 4627)

Monitoring Point / EPA Identification point (EPL 4627)	Start Date	Finish Date	Dust Deposition g/m2/month	Comment
DG1/9	13/04/2017	-	-	Sample bottle was broken and sample lost mid-month.
DG2/10	13/04/2017	12/05/2017	10.6	
DG3/11	13/04/2017	12/05/2017	11.9	
DG4/12	13/04/2017	12/05/2017	10.6	

Monitoring Type: Groundwater Monitoring (EPL 4627)

Date Sampled: 31 May 2017 (MW1 monitored on 21 June 2017)	Monitoring Point					
Pollutant	2 (MW1)	3 (LDS-BH-3071)	4 (LDS-BH-3071a)	5 (LDS-BH-2023)	6 (MW4b)	Frequency (MP 2-6)
Standing Water Level (mBTOC)	11.4	9.5	2.3	15.4	14.6	Quarterly
Temperature (field) (°C)	19.1	18.6	20.7	18.4	19.6	Quarterly
pH (field) (pH units)	6.6	7.7	6.7	5.8	5.2	Quarterly
Electrical Conductivity (field) (µS/cm)	8380.0	2510.0	1518.0	11980.0	4670.0	Quarterly
Redox (field) (mV)	92.0	-134.0	59.0	-40.0	229.0	Quarterly
Dissolved Oxygen (field) (mg/L)	0.3	0.9	0.3	0.4	3.6	Quarterly
Total Organic Carbon (mg/L)	14.0	13.0	3.0	16.0	10.0	Quarterly
Total Dissolved Solids (mg/L)	470.0	4200.0	960.0	11000.0	2900.0	Quarterly

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Pollutant	Monitoring Point					Frequency (MP 2-6)
	2 (MW1)	3 (LDS-BH-3071)	4 (LDS-BH-3071a)	5 (LDS-BH-2023)	6 (MW4b)	
Chloride (mg/L)	98.0	2100.0	43.0	5600.0	1300.0	Quarterly
Sulphate (mg/L)	52.0	140.0	390.0	530.0	490.0	Quarterly
Sodium (Na) (mg/L)	120.0	1300.0	82.0	4400.0	1300.0	Quarterly
Potassium (I) Ion (mg/L)	15.0	36.0	26.0	45.0	11.0	Quarterly
Calcium (II) Ion (mg/L)	38.0	250.0	250.0	130.0	14.0	Quarterly
Magnesium (II) Ion (mg/L)	5.0	11.0	23.0	390.0	61.0	Quarterly
Ammonia as N (mg/L)	1.7	3.5	0.11	0.92	0.15	Quarterly
Total Alkalinity (Carbonate and Bicarbonate) (mg/L)	140.0	47.0	500.0	180.0	71.0	Quarterly
pH (pH units)	7.2	9.6	6.9	6.0	5.6	Quarterly

Pollutant	Monitoring Point	
	7 (LP1)	Frequency (MP 7)
Temperature (field) (°C)	14.0	Quarterly
pH (field) (pH units)	6.7	Quarterly
Electrical Conductivity (field) (µS/cm)	5640.0	Quarterly
Redox (field) (mV)	-29.0	Quarterly
Dissolved Oxygen (field) (mg/L)	3.05	Quarterly
Electrical Conductivity (µS/cm)	5700.0	Quarterly

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Date Sampled: 31 May 2017 (MW1 monitored on 21 June 2017)	Monitoring Point	
	Pollutant	7 (LP1)
pH (pH units)	7.1	Quarterly
Biological Oxygen Demand (mg/L)	10.0	Quarterly
Total Dissolved Solids (mg/L)	3300.0	Quarterly
Ammonia as N (mg/L)	93.0	Quarterly
Total Alkalinity (Carbonate and Bicarbonate) (mg/L)	2000.0	Quarterly
Chloride (mg/L)	730.0	Quarterly
Sulphate (mg/L)	56.0	Quarterly
Sodium (Na) (mg/L)	970.0	Quarterly
Potassium (I) Ion (mg/L)	190.0	Quarterly
Calcium (II) Ion (mg/L)	200.0	Quarterly
Magnesium (II) Ion (mg/L)	81.0	Quarterly
Fluoride, F (mg/L)	0.3	Quarterly
Nitrate as N in water (mg/L)	<0.005	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)	23.0	Quarterly
Total Organic Carbon (mg/L)	84.0	Quarterly
TRH C6 - C9 (µg/L)	<10	Quarterly

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Date Sampled: 31 May 2017 (MW1 monitored on 21 June 2017)	Monitoring Point	
	Pollutant	7 (LP1)
TRH C6 - C10 (µg/L)	730.0	Quarterly
Benzene (µg/L)	<1	Quarterly
Toluene (µg/L)	<1	Quarterly
Ethylbenzene (µg/L)	<1	Quarterly
m+p-xylene (µg/L)	<2	Quarterly
o-xylene (µg/L)	<1	Quarterly
TRH C10 - C14 (µg/L)	260.0	Quarterly
TRH C15 - C28 (µg/L)	910.0	Quarterly
TRH C29 - C36 (µg/L)	<100	Quarterly
TRH >C10 - C16 (µg/L)	410.0	Quarterly
TRH >C10 - C16 less Naphthalene (F2) (µg/L)	410.0	Quarterly
TRH >C16 - C34 (µg/L)	740.0	Quarterly
TRH >C34 - C40 (µg/L)	<100	Quarterly
Naphthalene (µg/L)	1.0	Quarterly
Acenaphthylene (µg/L)	<1	Quarterly
Acenaphthene (µg/L)	<1	Quarterly
Fluorene (µg/L)	<1	Quarterly
Phenanthrene (µg/L)	<1	Quarterly

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Date Sampled: 31 May 2017 (MW1 monitored on 21 June 2017)	Monitoring Point	
	Pollutant	7 (LP1)
Anthracene (µg/L)	<1	Quarterly
Fluoranthene (µg/L)	<1	Quarterly
Pyrene (µg/L)	<1	Quarterly
Benzo(a)anthracene (µg/L)	<1	Quarterly
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)	1.4	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

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Date Sampled: 31 May 2017 (MW1 monitored on 21 June 2017)	Monitoring Point	
	Pollutant	7 (LP1)
Aldrin (µg/L)	<0.2	Quarterly
Heptachlor Epoxide (µg/L)	<0.2	Quarterly
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

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Date Sampled: 31 May 2017 (MW1 monitored on 21 June 2017)	Monitoring Point	
	Pollutant	7 (LP1)
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-Total (µg/L)	<10	Quarterly
Arsenic-Total (µg/L)	3.0	Quarterly
Barium-Total (µg/L)	1400.0	Quarterly
Cadmium-Total (µg/L)	<0.1	Quarterly
Chromium-Total (µg/L)	7.0	Quarterly
Hexavalent Chromium, Cr6+ (µg/L)	<0.05	Quarterly
Cobalt-Total (µg/L)	3.0	Quarterly
Copper-Total (µg/L)	5.0	Quarterly
Lead-Total (µg/L)	<1	Quarterly
Manganese-Total (µg/L)	340.0	Quarterly

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Date Sampled: 31 May 2017 (MW1 monitored on 21 June 2017)	Monitoring Point	
	7 (LP1)	Frequency (MP 7)
Pollutant		
Mercury-Total (µg/L)	<0.05	Quarterly
Zinc-Total (µg/L)	18.0	Quarterly

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Monitoring Type: Odour Monitoring (EPL 4627)

Date	Monitoring Start Time	Monitoring Finish Time	Surveyor	Wind Direction	Locations															Comments
					OM1			OM2			OM3			OM4			OM5			
					Odour (OU)	H ₂ S(ppb)	NH ₃ (ppm)	Odour (OU)	H ₂ S (ppb)	NH ₃ (ppm)	Odour (OU)	H ₂ S (ppb)	NH ₃ (ppm)	Odour (OU)	H ₂ S(ppb)	NH ₃ (ppm)	Odour (OU)	H ₂ S (ppb)	NH ₃ (ppm)	
1/06/2017			SEMA	S	7	-	-	ND	-	-	ND	-	-	ND	-	-	-	-	-	Sulphide odour detected. Reported to EPA.
2/06/2017			SEMA	SW	7	-	-	ND	-	-	ND	-	-	ND	-	-	-	-	-	Sulphide odour detected. Reported to EPA.
3/06/2017			SEMA	S	<2	<0.1	ND	ND	<1	ND	ND	<1	ND	ND	<1	ND	-	-	-	Odour characterised as odorant and sulphide. Compliant.
4/06/2017			SEMA	SSE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	No detection at all locations.
5/06/2017			SEMA	SSE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	No detection at all locations.
6/06/2017			SEMA	SSE	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Thunderstorm and localised flooding prevented monitoring at OM2, OM3 & OM4.
7/06/2017			SEMA	S	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	No detection at all locations.
8/06/2017			SEMA	SE	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	No detection at all locations.
9/06/2017			SEMA	SSE	<2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	Odour characterised as orange citrus, slight sulphur and asian greens. Compliant.
10/06/2017			SEMA	SSE	<2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<2	ND	ND	OM1 and OM5 odour characterised as citrus odorant, sulphur and asian greens. Compliant.
11/06/2017			SEMA	S	ND	ND	ND	ND	ND	ND	ND	<1	ND	ND	ND	ND	ND	ND	ND	Odour characterised as cabbage and slight sulfur. Compliant.
12/06/2017			SEMA	S	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Odour characterised as sulphide, odourant and detergent. Compliant.
13/06/2017			SEMA	S	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Odour characterised as grey water and sulphuric acid. Compliant.
14/06/2017			SEMA	ENE	ND	ND	ND	<2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Odour characterised as grey water, amines and urea. Compliant.
15/06/2017			SEMA	ENE	ND	ND	ND	<2	ND	ND	2	2	ND	ND	ND	ND	ND	ND	ND	OM3 laundry detergent and odorant odour characteristics. H2S detected at OM3 coinciding with an older diesel powered truck passing (non-CDS-JV). Compliant.
16/06/2017			SEMA	SSW	ND	ND	ND	ND	ND	ND	ND	ND	ND	<2	ND	ND	ND	ND	ND	OM4 grey water and odorant odour characteristics. Compliant.
17/06/2017			SEMA	SSW	<2	ND	ND	ND	ND	ND	ND	ND	ND	<2	ND	ND	<2	ND	ND	OM1 and OM4 light grey water and sweet odorant odour characteristics. Compliant.
18/06/2017			SEMA	SSW	<2	ND	ND	ND	ND	ND	ND	ND	ND	<2	ND	ND	ND	ND	ND	OM1 and OM4 odours ranged from NIL detects to (<) 2 odour characterised as detergent. Compliant.
19/06/2017			SEMA	S	ND	ND	ND	ND	ND	ND	ND	ND	ND	<2	ND	ND	ND	ND	ND	OM1 and OM4 odours ranged from NIL detects to (<) 2 odour characterised as detergent. Compliant.

Environment Protection Licence Monitoring Data



Date	Monitoring Start Time	Monitoring Finish Time	Surveyor	Wind Direction	Locations															Comments	
					OM1			OM2			OM3			OM4			OM5				
					Odour (OU)	H ₂ S(ppb)	NH ₃ (ppm)	Odour (OU)	H ₂ S (ppb)	NH ₃ (ppm)	Odour (OU)	H ₂ S (ppb)	NH ₃ (ppm)	Odour (OU)	H ₂ S(ppb)	NH ₃ (ppm)	Odour (OU)	H ₂ S (ppb)	NH ₃ (ppm)		
20/06/2017			SEMA	SSE	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	OM2 odour characterised as grey water and tallow. Compliant.
21/06/2017			SEMA	S	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	1	ND	ND	ND	ND	ND	OM4 odour characterised as grey water, sulphide and burnt max phosphorus. Compliant.
22/06/2017			SEMA	SE	<2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<2	ND	ND	ND	OM1 and OM4 (<) 2 odour characterised as amines and compost characteristics. Compliant.
23/06/2017			SEMA	WNW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No detection at all locations.
24/06/2017			SEMA	WSW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No detection at all locations.
25/06/2017			SEMA	WSW	ND	ND	ND	ND	ND	ND	<2	ND	ND	ND	ND	ND	ND	ND	ND	ND	OM3 odours ranged from Nil to <2 characterised as grey water and tallow. Compliant.
26/06/2017			SEMA	SSE	ND	ND	ND	<2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	OM2 odours ranged from Nil to < 2 characterised as grey water and sulphide. OM3, upwind from site, odour ranged to <2 characterised as grey water.
27/06/2017			SEMA	S	ND	ND	ND	ND	ND	ND	ND	ND	ND	<2	ND	ND	ND	ND	ND	ND	OM4 odours ranged from Nil detects to <2 characterised as fresh cut wood chip/green vegetation compost. Compliant.
28/06/2017	2:45:00 PM	3:50:00 PM	SEMA	N	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No detection at all locations.
29/06/2017	2:35:00 PM	3:45:00 PM	SEMA	NNW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	No detection at all locations.
30/06/2017	2:40:00 PM	3:50:00 PM	SEMA	S	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	OM1 odours ranged from 2 to 4 characterised as sulfur oxides. Reported to EPA.

¹ND = Non-detect ²All monitoring locations are surveyed/ day ³Refer to monitoring map attached



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

Rev	Description	Date	Approved
A	Preliminary Issue	18/03/2016	
B	Modified Premise Area Boundary	11/06/2016	
C	Modified Premise Area Boundary	15/11/2016	
D	Modified Premise Area Boundary and Discharge Point	20/12/2016	
E	ALF boundary modification	01/02/2017	

Scale

1:30000

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Client

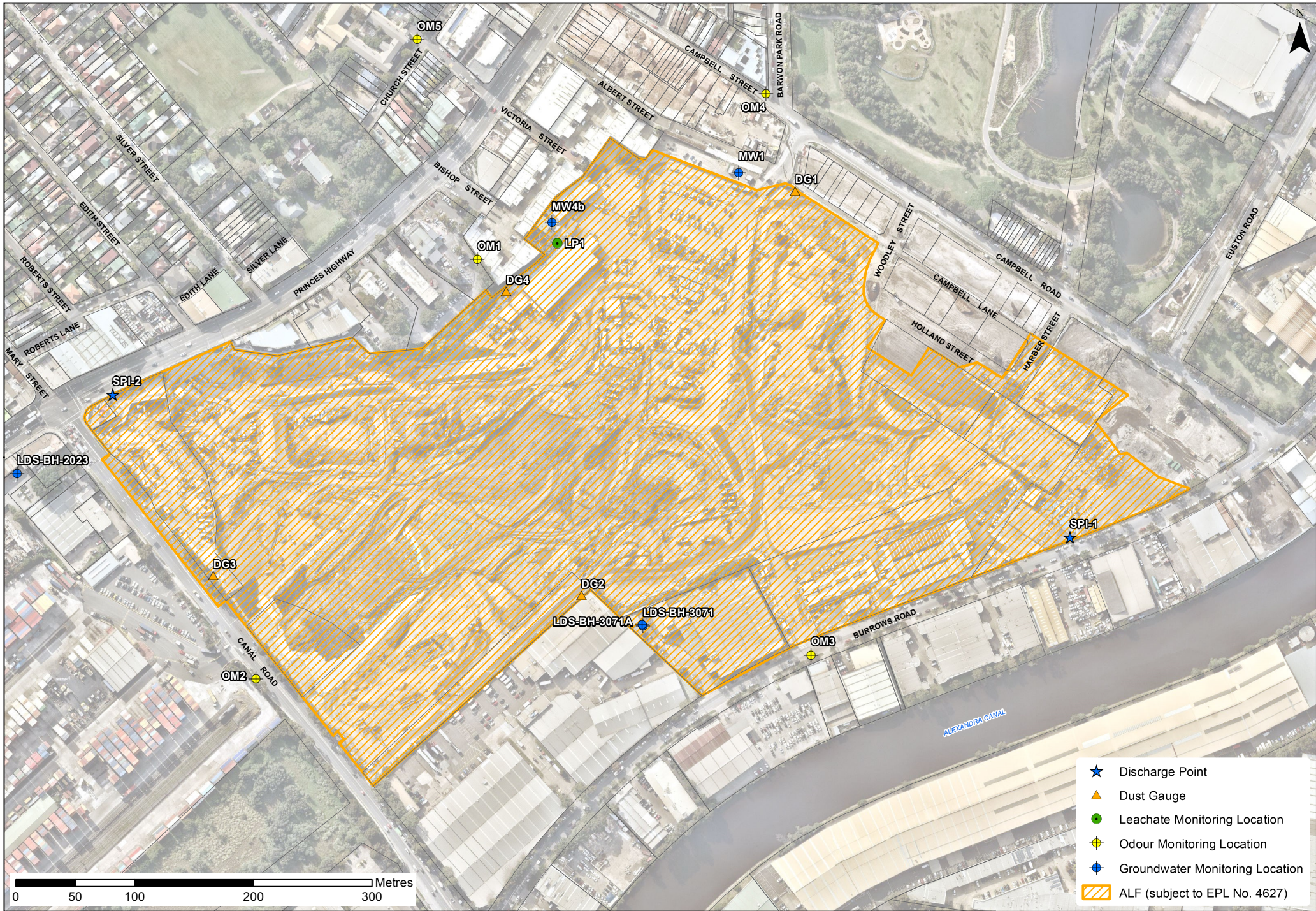
Status			
For information Only - NOT FOR CONSTRUCTION			
Original Size	A3	Drawn by	PB
Coordinate System	MGA ZONE 56	Requested by	DL
Height Datum	AHD	Date Printed	01-Feb-17
Filename:	Premise_Overview_rev.mxd		

WestConnex New M5

WESTCONNEX New M5

Premise Map Overview

DOCUMENT NUMBER
M5N-ES-MAP-PWD-0001-08



- ★ Discharge Point
- ▲ Dust Gauge
- Leachate Monitoring Location
- ⊕ Odour Monitoring Location
- ⊕ Groundwater Monitoring Location
- ▨ ALF (subject to EPL No. 4627)