

Hawkesbury Waste Management Facility - Yearly Summary for 2020/21

Licence number - 5293

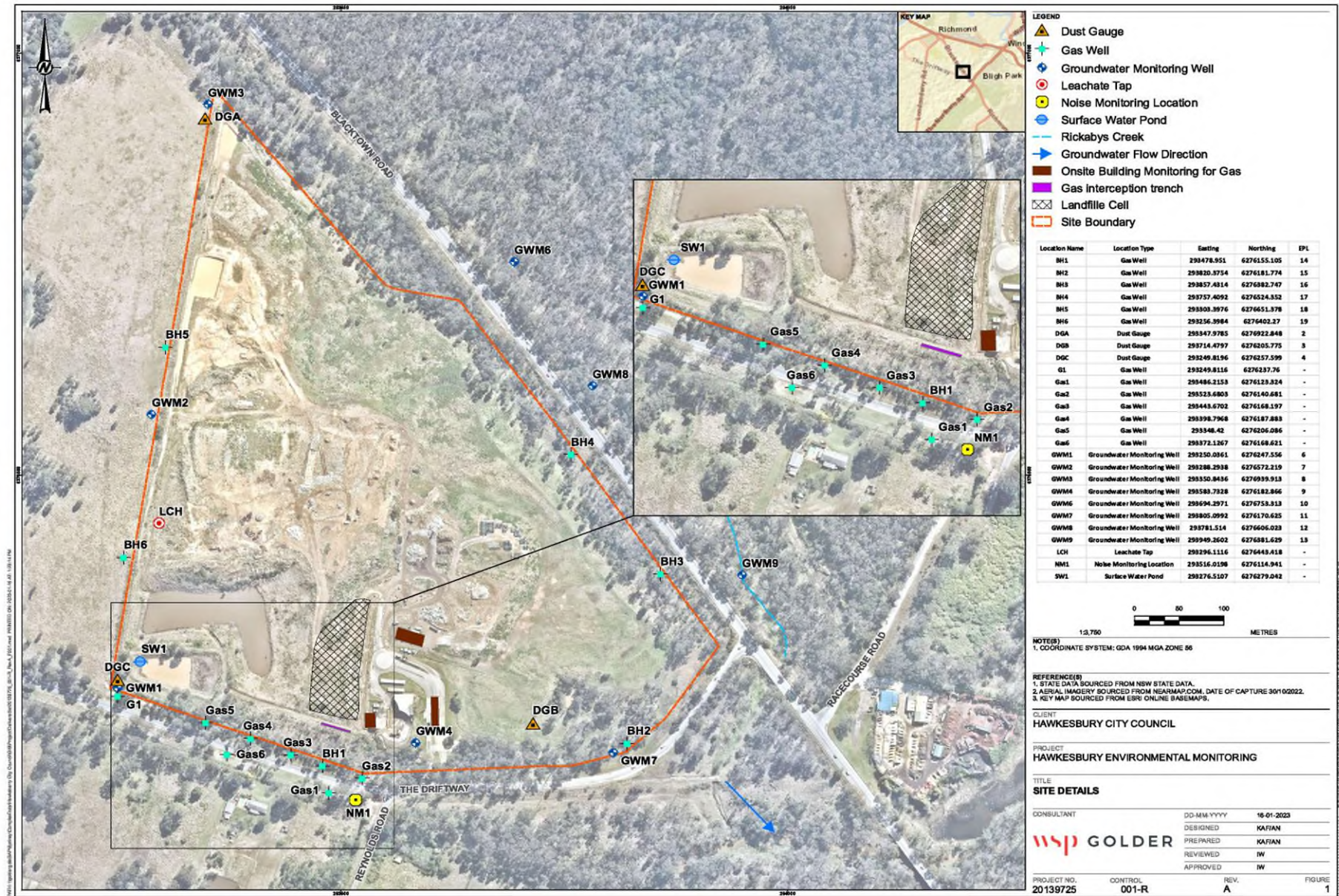
Hawkesbury Waste Management Facility - The Driftway, South Windsor NSW 2756 Licencee - Hawkesbury City Council

Public Register : <https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers>

Licence Period - 25th July - 24th July

LOR = Limit of Reporting

NT = Not Tested



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Monitoring Point 14 - BH1

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	4.5	2	9.4	9.6	4.9	0.3
Methane	% v/v	Monthly	10.7	0.6	0.6	0	0.1	0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	2.8	2.4	13.2	4	14.3	10.3
Methane	% v/v	Monthly	0	0	0.5	0.3	0	0

Monitoring Point 15 - BH2

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled
			10/02/2021	26/05/2021
			Date Obtained	Date Obtained
			10/02/2021	26/05/2021
			Sample Code	Sample Code
Carbon Dioxide	% v/v	Every 6 Months	6.5	8.2
Methane	% v/v	Every 6 Months	0	0

Monitoring Point 16 - BH3

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled
			10/02/2021	26/05/2021
			Date Obtained	Date Obtained
			10/02/2021	26/05/2021
			Sample Code	Sample Code
Carbon Dioxide	% v/v	Every 6 Months	3.3	6.8
Methane	% v/v	Every 6 Months	0	0

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Monitoring Point 17 - BH4

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled
			10/02/2021	26/05/2021
			Date Obtained	Date Obtained
			10/02/2021	26/05/2021
			Sample Code	Sample Code
Carbon Dioxide	% v/v	Every 6 Months	1	0
Methane	% v/v	Every 6 Months	0	0

Monitoring Point 18 - BH5

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	17.1	14	17	15	19.3	22.3
Methane	% v/v	Monthly	21.7	15.8	14.1	0	6.4	15.3

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	24.5	23	1.9	20.4	4.3	4
Methane	% v/v	Monthly	14.8	14.2	0	10.3	1.7	1.3

Monitoring Point 19 - BH6

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	14.6	14.3	1.4	9.1	7.1	18.3
Methane	% v/v	Monthly	5.1	4.1	1.9	0	0	7.4

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			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	7.2	5.9	1.9	22.2	22.1	12.1
Methane	% v/v	Monthly	0.3	0	8.6	33.8	29.7	19.8

Monitoring Point 20 - G1

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021	
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	
			24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021	
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	
Carbon Dioxide	% v/v	Monthly	Well not installed						4.9
Methane	% v/v	Monthly							0

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	NT	0	0	NT	0	0
Methane	% v/v	Monthly	NT	0	0	NT	0	0

Point 21 - Gas2

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

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			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

Point 22 - Gas3

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

Point 23 - Gas4

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

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			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

Point 24- Gas 6

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

Point 25 - Gas interception trench

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

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			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

RW1

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			11/08/2020	11/09/2020	7/10/2020	4/11/2020	3/12/2020	13/01/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			24/08/2020	25/09/2020	7/10/2020	10/11/2020	10/12/2020	15/01/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

			Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			10/02/2021	12/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained	Date Obtained
			10/02/2021	21/03/2021	16/04/2021	26/05/2021	25/06/2021	13/07/2021
			Sample Code	Sample Code	Sample Code	Sample Code	Sample Code	Sample Code
Carbon Dioxide	% v/v	Monthly	Well not installed					
Methane	% v/v	Monthly						

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Monitoring Point 2 - DGA

Pollutant	Unit	Monitoring Frequency	Start Date	Start Date	Start Date	Start Date
					4/11/2020	10/02/2021
			Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Sample Code	Sample Code	Sample Code	Sample Code
						EN2104592-001
Particulates deposited Matter	g/m ² /month	Quarterly	NT	NT	1.5	1.2

Monitoring Point 3 - DGB

Pollutant	Unit	Monitoring Frequency	Start Date	Start Date	Start Date	Start Date
					4/11/2020	10/02/2021
			Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Sample Code	Sample Code	Sample Code	Sample Code
						EN2104592-002
Particulates deposited Matter	g/m ² /month	Quarterly	NT	NT	2.9	8.6

Monitoring Point 4 - DGC

Pollutant	Unit	Monitoring Frequency	Start Date	Start Date	Start Date	Start Date
					4/11/2020	10/02/2021
			Data Collection Date	Data Collection Date	Data Collection Date	Data Collection Date
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Sample Code	Sample Code	Sample Code	Sample Code
						EN2104592-003
Particulates deposited Matter	g/m ² /month	Quarterly	NT	NT	2.4	2.4

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Monitoring Point 1 - LCH

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105055-009	ES2120298-008
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	2210	1500
Aluminium	mg/L	Yearly				1.44
Arsenic	mg/L	Yearly				0.017
Barium	mg/L	Yearly				0.357
Benzene	mg/L	Yearly				0.003
Biochemical oxygen demand	mg/L	Yearly				15
Cadmium	mg/L	Yearly				<0.0001
Calcium	mg/L	Quarterly	NT	NT	53	20
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	1150	565
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.012
Conductivi	µS/cm	Quarterly	NT	NT	7,420	4680
Copper	mg/L	Yearly				0.044
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				0.8
Lead	mg/L	Yearly				0.01
Magnesium	mg/L	Quarterly	NT	NT	133	38
Manganese	mg/L	Yearly				0.206
Mercury	mg/L	Yearly				<0.001
Nitrate	mg/L	Quarterly	NT	NT	0.1	NT
Nitrite	mg/L	Quarterly	NT	NT	0.75	NT
Nitrogen (ammonia)	mg/L	Quarterly	NT	NT	nt	197
Organochlorine pesticides	mg/L	Yearly				<LOR
Orgnochlorine pesticides	mg/L	Yearly				<LOR
pH	pH	Quarterly	NT	NT	6.88	7.96
Phosphate	mg/L	Yearly				NT
Phosphorus (total)	mg/L	Quarterly	NT	NT	1.34	3.22
Potassium	mg/L	Quarterly	NT	NT	122	124
Sodium	mg/L	Quarterly	NT	NT	1120	538
Sulfate	mg/L	Quarterly	NT	NT	17	<1
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.032
Total dissolved solids	mg/L	Quarterly	NT	NT	4120	2360
Total Iron	mg/L	Yearly				6.48
Total organic carbon	mg/L	Yearly				NT
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				0.03
C10-C14	mg/L	Yearly				0.43
C15-C28	mg/L	Yearly				0.73
C29-C36	mg/L	Yearly				<100
C10-C36 (Sum)	mg/L	Yearly				1.13
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				0.03
Zinc	mg/L	Yearly				0.072

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Monitoring Point 5 - SW1

Pollutant	Unit	Monitoring Frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-010	ES2120298-010
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	308	221
Ammonia	mg/L	Quarterly	NT	NT	0.25	<0.01
Biochemical oxygen demand	mg/L	Quarterly	NT	NT	<2	2
Sulfate	mg/L	Quarterly	NT	NT	43	20
Total Phenolics	mg/L	Yearly				<0.05

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Monitoring Point 6 - GWM1

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-001	ES2120298-001
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	300	312
Aluminium	mg/L	Yearly				6.26
Ammonia	mg/L	Quarterly	NT	NT	0.02	<0.01
Arsenic	mg/L	Yearly				0.002
Barium	mg/L	Yearly				0.103
Benzene	mg/L	Yearly				<0.001
Biochemical oxygen demand	mg/L	Yearly				2
Cadmium	mg/L	Yearly				0.0004
Calcium	mg/L	Quarterly	NT	NT	92	105
Carbonate	mg/L	Quarterly	NT	NT	<1	<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	4320	4150
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.008
Conductivity	µS/cm	Quarterly	NT	NT	13400	12300
Copper	mg/L	Yearly				0.011
Ethyl benzene	mg/L	Yearly				<0.02
Fluoride	mg/L	Yearly				0.8
Lead	mg/L	Yearly				0.012
Magnesium	mg/L	Quarterly	NT	NT	319	318
Manganese	mg/L	Yearly				0.108
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				<0.01
Organochlorine pesticides	mg/L	Yearly				<LOR
Organophosphate pesticides	mg/L	Yearly				<LOR
pH	pH	Quarterly	NT	NT	6.9	6.91
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.29	0.46
Potassium	mg/L	Quarterly	NT	NT	2	5
Salinity	mg/L	Quarterly	NT	NT	7720	7030
Sodium	mg/L	Quarterly	NT	NT	2190	1980
Sulfate	mg/L	Quarterly	NT	NT	291	302
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.008
Total dissolved solids	mg/L	Quarterly	NT	NT	9000	8790
Total organic carbon	mg/L	Yearly				6
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc	mg/L	Yearly				0.038

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Monitoring Point 7 - GWM2

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-002	ES2120298-002
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	308	331
Aluminium	mg/L	Yearly				10.8
Ammonia	mg/L	Quarterly	NT	NT	<0.01	<0.01
Arsenic	mg/L	Yearly				0.004
Barium	mg/L	Yearly				0.114
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				2
Cadmium	mg/L	Yearly				0.0001
Calcium	mg/L	Quarterly	NT	NT	117	124.00
Carbonate	mg/L	Quarterly	NT	NT	<1	<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	1700	4470
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.014
Conductivity	µS/cm	Quarterly	NT	NT	14600	13100
Copper	mg/L	Yearly				0.011
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				0.6
Lead	mg/L	Yearly				0.014
Magnesium	mg/L	Quarterly	NT	NT	320	305
Manganese	mg/L	Yearly				0.243
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				0.01
Organochlorine pesticides	mg/L	Yearly				<LOR
Organophosphate pesticides	mg/L	Yearly				<LOR
pH	pH	Quarterly	NT	NT	7.1	6.92
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.58	0.52
Potassium	mg/L	Quarterly	NT	NT	<1	2.00
Salinity	mg/L	Quarterly	NT	NT	8470	7530
Sodium	mg/L	Quarterly	NT	NT	2400	2140.00
Sulfate	mg/L	Quarterly	NT	NT	293	298
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.016
Total dissolved solids	mg/L	Quarterly	NT	NT	9740	9290
Total organic carbon	mg/L	Yearly				<1
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc	mg/L	Yearly				0.051

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Monitoring Point 8 - GWM3

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-003	ES2120298-003
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	542	539
Aluminium	mg/L	Yearly				6.17
Ammonia	mg/L	Quarterly	NT	NT	<0.01	<0.01
Arsenic	mg/L	Yearly				0.002
Barium	mg/L	Yearly				0.101
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				2
Cadmium	mg/L	Yearly				<0.0001
Calcium	mg/L	Quarterly	NT	NT	112	131
Carbonate	mg/L	Quarterly	NT	NT	<1	<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	7220	6700
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.007
Conductivity	µS/cm	Quarterly	NT	NT	22200	19700
Copper	mg/L	Yearly				0.007
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				0.4
Lead	mg/L	Yearly				0.006
Magnesium	mg/L	Quarterly	NT	NT	578	587
Manganese	mg/L	Yearly				0.133
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				0.09
Organochlorine pesticides	mg/L	Yearly				<LOR
Organophosphate pesticides	mg/L	Yearly				<LOR
pH	pH	Quarterly	NT	NT	7.18	7.11
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.08	0.17
Potassium	mg/L	Quarterly	NT	NT	2	6
Salinity	mg/L	Quarterly	NT	NT	1340	1170
Sodium	mg/L	Quarterly	NT	NT	3800	3470
Sulfate	mg/L	Quarterly	NT	NT	594	598
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				NT
Total dissolved solids	mg/L	Quarterly	NT	NT	15200	14000
Total organic carbon	mg/L	Yearly				<1
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc	mg/L	Yearly				0.056

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Monitoring Point 9 - GWM4

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-004	ES2120298-004
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	95	93
Aluminium	mg/L	Yearly				7.39
Ammonia	mg/L	Quarterly	NT	NT	<0.01	<0.01
Arsenic	mg/L	Yearly				0.002
Barium	mg/L	Yearly				0.13
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				2
Cadmium	mg/L	Yearly				0.0003
Calcium	mg/L	Quarterly	NT	NT	22	27
Carbonate	mg/L	Quarterly	NT	NT	<1	<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	4200	3940
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.054
Conductivity	µS/cm	Quarterly	NT	NT	12,300	11200
Copper	mg/L	Yearly				0.013
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				0.2
Lead	mg/L	Yearly				0.014
Magnesium	mg/L	Quarterly	NT	NT	323	319
Manganese	mg/L	Yearly				0.023
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				<0.01
Organochlorine pesticides	mg/L	Yearly				<LOR
Organophosphate pesticides	mg/L	Yearly				<LOR
pH	pH	Quarterly	NT	NT	6.36	6.31
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.08	0.28
Potassium	mg/L	Quarterly	NT	NT	<1	1
Salinity	mg/L	Quarterly	NT	NT	7030	6360
Sodium	mg/L	Quarterly	NT	NT	1990	1820
Sulfate	mg/L	Quarterly	NT	NT	144	145
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.01
Total dissolved solids	mg/L	Quarterly	NT	NT	7980	8220
Total organic carbon	mg/L	Yearly				2
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc	mg/L	Yearly				0.023

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Monitoring Point 10 - GWM6

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	11/02/2021	26/05/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-006	ES2120298-006
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	148	30
Aluminium	mg/L	Yearly				NT
Ammonia	mg/L	Quarterly	NT	NT	0.06	0.2
Arsenic	mg/L	Yearly				NT
Barium	mg/L	Yearly				NT
Benzene	mg/L	Yearly				NT
Biochemical oxygen demand	mg/L	Yearly				<2
Cadmium	mg/L	Yearly				NT
Calcium	mg/L	Quarterly	NT	NT	30	12
Carbonate	mg/L	Quarterly	NT	NT	<1	NT
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	76	26
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				NT
Cobalt	mg/L	Yearly				NT
Conductivity	µS/cm	Quarterly	NT	NT	577	172
Copper	mg/L	Yearly				NT
Ethyl benzene	mg/L	Yearly				NT
Fluoride	mg/L	Yearly				NT
Lead	mg/L	Yearly				NT
Magnesium	mg/L	Quarterly	NT	NT	16	4
Manganese	mg/L	Yearly				NT
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				NT
Organochlorine pesticides	mg/L	Yearly				<LOR
Organophosphate pesticides	mg/L	Yearly				<LOR
pH	pH	Quarterly	NT	NT	7.00	6.71
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.04	<0.01
Potassium	mg/L	Quarterly	NT	NT	<1	2
Salinity	mg/L	Quarterly	NT	NT	280	172
Sodium	mg/L	Quarterly	NT	NT	71	14
Sulfate	mg/L	Quarterly	NT	NT	16	7
Toluene	mg/L	Yearly				NT
Total chromium	mg/L	Yearly				NT
Total dissolved solids	mg/L	Quarterly	NT	NT	460	112
Total organic carbon	mg/L	Yearly				NT
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				NT
C10-C14	mg/L	Yearly				NT
C15-C28	mg/L	Yearly				NT
C29-C36	mg/L	Yearly				NT
C10-C36 (Sum)	mg/L	Yearly				NT
Total Phenolics	mg/L	Yearly				NT
Xylene	mg/L	Yearly				NT
Zinc	mg/L	Yearly				NT

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Monitoring Point 11 - GWM7

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-007	ES2120298-007
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	176	176
Aluminium	mg/L	Yearly				9.21
Ammonia	mg/L	Quarterly	NT	NT	<0.01	<0.01
Arsenic	mg/L	Yearly				0.05
Barium	mg/L	Yearly				0.281
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				2
Cadmium	mg/L	Yearly				0.003
Calcium	mg/L	Quarterly	NT	NT	58	78
Carbonate	mg/L	Quarterly	NT	NT	<1	<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	3730	3700
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.007
Conductivity	µS/cm	Quarterly	NT	NT	11,100	10600
Copper	mg/L	Yearly				0.012
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				NT
Lead	mg/L	Yearly				0.016
Magnesium	mg/L	Quarterly	NT	NT	221	252
Manganese	mg/L	Yearly				0.535
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				<0.01
Organochlorine pesticides	mg/L	Yearly				<LOR
Organophosphate pesticides	mg/L	Yearly				<LOR
pH	pH	Quarterly	NT	NT	6.60	6.51
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.43	0.61
Potassium	mg/L	Quarterly	NT	NT	<1	<1
Salinity	mg/L	Quarterly	NT	NT	6300	5990
Sodium	mg/L	Quarterly	NT	NT	1850	1710
Sulfate	mg/L	Quarterly	NT	NT	108	122
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.012
Total dissolved solids	mg/L	Quarterly	NT	NT	7580	7660
Total organic carbon	mg/L	Yearly				<1
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc	mg/L	Yearly				0.023

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Monitoring Point 12 - GWM8

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES2105056-008	ES2120298-008
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	445	357
Aluminium	mg/L	Yearly				5.15
Ammonia	mg/L	Quarterly	NT	NT	0.03	0.06
Arsenic	mg/L	Yearly				0.002
Barium	mg/L	Yearly				0.17
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				<2
Cadmium	mg/L	Yearly				0.0002
Calcium	mg/L	Quarterly	NT	NT	127	115
Carbonate	mg/L	Quarterly	NT	NT	<1	<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	5330	4820
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.065
Conductivity	µS/cm	Quarterly	NT	NT	16,800	14000
Copper	mg/L	Yearly				0.01
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				0.5
Lead	mg/L	Yearly				0.006
Magnesium	mg/L	Quarterly	NT	NT	389	326
Manganese	mg/L	Yearly				1.62
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				0.01
Organochlorine pesticides	mg/L	Yearly				<LOR
Organophosphate pesticides	mg/L	Yearly				<LOR
pH	pH	Quarterly	NT	NT	7.30	6.95
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.04	0.12
Potassium	mg/L	Quarterly	NT	NT	2	4
Salinity	mg/L	Quarterly	NT	NT	9860	8090
Sodium	mg/L	Quarterly	NT	NT	2930	2280
Sulfate	mg/L	Quarterly	NT	NT	257	283
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.006
Total dissolved solids	mg/L	Quarterly	NT	NT	10800	9680
Total organic carbon	mg/L	Yearly				9
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc	mg/L	Yearly				0.078

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Monitoring Point 13 - GWM9

Pollutant	Unit	Monitoring frequency	Date Sampled	Date Sampled	Date Sampled	Date Sampled
			Aug 2020	Nov 2020	10/02/2021	26/05/2021
			Date Data Obtained	Date Data Obtained	Date Data Obtained	Date Data Obtained
			Sample Code	Sample Code	Sample Code	Sample Code
					ES21056-009	ES2120298-009
Alkalinity (as calcium carbonate)	mg/L	Quarterly	NT	NT	644	141
Aluminium	mg/L	Yearly				25.3
Ammonia	mg/L	Quarterly	NT	NT	0.05	0.74
Arsenic	mg/L	Yearly				0.009
Barium	mg/L	Yearly				0.295
Benzene	mg/L	Yearly				<0.01
Biochemical oxygen demand	mg/L	Yearly				2
Cadmium	mg/L	Yearly				0.0003
Calcium	mg/L	Quarterly	NT	NT	116	16
Carbonate	mg/L	Quarterly	NT	NT		<1
Chemical oxygen demand	mg/L	Yearly				NT
Chloride	mg/L	Quarterly	NT	NT	6140	732
Chlorinated volatile compound	mg/L	Yearly				NT
Chromium (hexavalent)	mg/L	Yearly				<0.01
Cobalt	mg/L	Yearly				0.072
Conductivity	µS/cm	Quarterly	NT	NT	19,400	2710
Copper	mg/L	Yearly				0.033
Ethyl benzene	mg/L	Yearly				<0.002
Fluoride	mg/L	Yearly				0.4
Lead	mg/L	Yearly				0.077
Magnesium	mg/L	Quarterly	NT	NT	381	41
Manganese	mg/L	Yearly				0.743
Mercury	mg/L	Yearly				<0.0001
Nitrogen Oxides	mg/L	Yearly				0.03
Organochlorine pesticides	mg/L	Yearly				<LOR
Organophosphate pesticides	mg/L	Yearly				<LOR
pH	pH	Quarterly	NT	NT	7.43	7.14
Phosphate	mg/L	Yearly				NT
Phosphorus (Total)	mg/L	Quarterly	NT	NT	0.68	2.04
Potassium	mg/L	Quarterly	NT	NT	5	11
Salinity	mg/L	Quarterly	NT	NT	1150	1400
Sodium	mg/L	Quarterly	NT	NT	3590	423
Sulfate	mg/L	Quarterly	NT	NT	366	60
Toluene	mg/L	Yearly				<0.002
Total chromium	mg/L	Yearly				0.039
Total dissolved solids	mg/L	Quarterly	NT	NT	12100	1740
Total organic carbon	mg/L	Yearly				8
Total petroleum hydrocarbons C6-C9	mg/L	Yearly				<0.02
C10-C14	mg/L	Yearly				<0.05
C15-C28	mg/L	Yearly				<0.1
C29-C36	mg/L	Yearly				<0.05
C10-C36 (Sum)	mg/L	Yearly				<0.05
Total Phenolics	mg/L	Yearly				<0.05
Xylene	mg/L	Yearly				<0.002
Zinc	mg/L	Yearly				1.49

Pollutant Monitoring - Correction Log

EPL No: 5293

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