Cudgen Lakes Sand Quarry

Environmental Monitoring - Surface Water

Project Approval (PA):	05_0103B
Environmental Protection Licence (EPL):	12385
Licensee:	Gales-Kingscliff Pty Limited
Licensee Address:	20 Ginahgulla Road Bellevue Hill, NSW 2023
Premises:	Cudgen Lakes Altona Drive Cudgen, NSW 2487
Licensee Website:	http://www.galeskingscliff.com.au/
Licensee Website - Monitoring Results:	https://www.galeskingscliff.com.au/reports
EPA Public Register:	https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers
Monitoring Month:	Mar-26
Report prepared on:	28/04/2026
Originator:	R.W. Corkery & Co. Pty Limited

Monitoring Requirements - Surface Water

EPL 12385 Requirements

Monitoring Points - Water and Land

EPL Condition	EPA Identification Number	Site ID	Type of Monitoring Point	Type of Discharge Point	Location Description*
P1.2	1	EPL 1	Water Quality Monitoring Point	Water Quality Monitoring Point	Dredge Pond South Spillway West
	2	EPL 2	Water Quality Monitoring Point	Water Quality Monitoring Point	Dredge Pond South Spillway East
** See 'Monitoring Map' tab.*					

Limit Conditions

EPL Condition	EPA Identification Number	Site ID	Pollutant	Units of Measure	50 Percentile Concentration Limit	90 Percentile Concentration Limit	3DGM Concentration Limit	100 Percentile Concentration Limit	Monitoring Frequency	Sampling Method
L2.4	1 & 2	EPL1 & EPL2	Oil & Grease	Visible	N/A	N/A	N/A	nil	Special Frequency 1*	Visual Inspection
			pH	pH	N/A	N/A	N/A	6.5 - 8.5	Special Frequency 1*	Probe
			Total Suspended Solids (TSS)	milligrams per litre (mg/L)	N/A	N/A	N/A	50	Special Frequency 1*	Grab Sample
**Special Frequency 1: sampling once <24 hours prior to; and, sampling the discharge daily during, each discharge event arising from rainfall of less than 82.5mm falling in total over a period of up to five days duration.*										

Management Plan Requirements - Soil and Water Management Plan

Version: ***September 2025***

Note: The Soil and Water Management Plan (SWMP) fulfils the requirement for a Surface Water Monitoring Program under Condition 21 of Schedule 3 of PA 05_0103.

Water Quality Objectives - Dredge Pond

Parameters	Units of Measure	Objective	Comment
pH	pH	6.5 - 9.7	Upper objective value reflects upper limit of recorded data.
Electrical Conductivity (EC)	micro Siemens per centimetre (µS/cm)	7250	Objective value reflects upper limit of recorded maximum of 7215 rounded up.
Dissolved Oxygen (DO)^	milligrams per litre (mg/L)	>6	Original objective value retained.
Turbidity*	NTU	<20	Original objective value retained.
Sodium (Na)	milligrams per litre (mg/L)	850	Objective value reflects upper limit of recorded maximum of 846 rounded up.
Magnesium (Mg)	milligrams per litre (mg/L)	130	Objective value reflects upper limit of recorded maximum of 126 rounded up.
Potassium (K)	milligrams per litre (mg/L)	<40	Original objective value retained.
Chloride (Cl)	milligrams per litre (mg/L)	1450	Objective value reflects upper limit of recorded maximum of 1420 rounded up.
Sulfate (SO4)	milligrams per litre (mg/L)	<800	Original objective value retained.
Bicarbonate (HCO3)	milligrams per litre (mg/L)	<400	Original objective value retained.
Aluminium (Al)	milligrams per litre (mg/L)	<0.5	Original objective value retained.
Arsenic (As)	milligrams per litre (mg/L)	<0.42	Derived from Australian and New Zealand Guidelines for Fresh and Marine Water Quality – 90% protection for freshwater species.
Filterable Iron (Fe)	milligrams per litre (mg/L)	<3.05	Objective reflects 80th percentile of previous monitoring within surface drains.
Ammonia (NH3)	milligrams per litre (mg/L)	<20	Original objective value retained.
^Applicable to surface samples only during periods of nil operation (i.e. when mixing action of dredging / pumping of water is not effecting surface oxygen levels). Does not apply to samples from surrounding surface water drains.			
**Applicable during discharge only.*			
~ Data recorded between September 2015 and April 2019.			

Monitoring Points - Parameters, Locations & Frequency

Occurrence	Frequency	Parameters	Units of Measure	Measurement Type	Sampling Method	Location ID
Operational Periods[1]	Twice Daily (prior to dredging & at cessation)	Standing Surface Water Level (Dredge Pond)	m AHD	Field	Calibrated height gauge, water level sensor or calibrated water level monitor	On Dredge
	Weekly	Temperature	degrees Celsius (°C)	Field	Probe	DP1, DP2, DP3, DP4
		pH	pH			
		Electrical Conductivity (EC)	micro Siemens per centimetre (µS/cm)			
		Oxygen Reduction Potential (ORP)	millivolts (mV)			
		Turbidity	NTU			
		Dissolved Oxygen (DO)	milligrams per litre (mg/L)			
		Oil and Grease	Present / Absent	Visual Inspection	Visual	
	Monthly	Total Phosphorous (P)	milligrams per litre (mg/L)	Laboratory	Grab Sample	DP1, DP2, DP3, DP4
		Total Nitrogen (N)	milligrams per litre (mg/L)			
		Orthophosphate (Reactive Phosphorous)	milligrams per litre (mg/L)			
		Ammonia Nitrogen	milligrams per litre (mg/L)			
		NOx Nitrogen	milligrams per litre (mg/L)			
		Oil and Grease	Present / Absent	Visual Inspection	Visual	
		Weather - Cloud Cover	Sunny / Overcast			
		Weather - Rain	Raining / Dry			
		Water Colour and Appearance	Cloudy / Clear			
		Odour	Present / Absent			
		Frothing	Present / Absent			
		Floating Debris	Present / Absent			
		Nuisance Organisms (e.g. Macrophytes, Phytoplankton Scum,	Present / Absent			
		Chlorophyll a	mg/m^3	Laboratory	Grab Sample (Composite)	Composite of DP1, DP2, DP3 & DP4
		Total Algal Cell Count	cells/mL			
		Total Algal Biovolume	mm^3/L			
		Potentially Toxic Cyanobacteria Cell Count	cells/mL			
		Potentially Toxic Cyanobacteria Biovolume	mm^3/L			
		Toxins (cytotoxic cylindrospermopsin)	micrograms per litre (µg/L)			
	Quarterly	Major Cations*	milligrams per litre (mg/L)	Laboratory	Grab Sample	DP1, DP2, DP3, DP4
		Major Anions**	milligrams per litre (mg/L)			
		Filterable Iron	milligrams per litre (mg/L)			
		Aluminium	milligrams per litre (mg/L)			
		Arsenic	milligrams per litre (mg/L)			
	6-Monthly (Summer & Winter)	Temperature	degrees Celsius (°C)	Field	Probe	DP1-1, DP1-2, etc. (at 1m depth and then every 2m depth interval to the pond base)
		pH	pH			
		Electrical Conductivity (EC)	micro Siemens per centimetre (µS/cm)			
		Oxygen Reduction Potential (ORP)	millivolts (mV)			
		Turbidity	NTU			
		Dissolved Oxygen (DO)	milligrams per litre (mg/L)			
		Oil and Grease	Present / Absent	Visual Inspection	Visual	
		Major Cations*	milligrams per litre (mg/L)	Laboratory	Grab Sample	
		Major Anions**	milligrams per litre (mg/L)			
		Filterable Iron	milligrams per litre (mg/L)			
		Aluminium	milligrams per litre (mg/L)			
		Arsenic	milligrams per litre (mg/L)			
		Total Phosphorous (P)	milligrams per litre (mg/L)			
		Total Nitrogen (N)	milligrams per litre (mg/L)			
		Orthophosphate (Reactive Phosphorous)	milligrams per litre (mg/L)			
		Ammonia Nitrogen	milligrams per litre (mg/L)			
		NOx Nitrogen	milligrams per litre (mg/L)			
		Chlorophyll a	mg/m^3			
		Total Algal Cell Count	cells/mL			
		Total Algal Biovolume	mm^3/L			
		Potentially Toxic Cyanobacteria Cell Count	cells/mL			
		Potentially Toxic Cyanobacteria Biovolume	mm^3/L			
		Toxins (cytotoxic cylindrospermopsin)	micrograms per litre (µg/L)			

Non-Operational Periods[2]	Quarterly	Temperature	degrees Celsius (°C)	Field	Probe	DP1, DP2, DP3, DP4
		pH	pH			
		Electrical Conductivity (EC)	micro Siemens per centimetre (µS/cm)			
		Oxygen Reduction Potential (ORP)	millivolts (mV)			
		Turbidity	NTU			
		Dissolved Oxygen (DO)	milligrams per litre (mg/L)			
		Total Phosphorous (P)	milligrams per litre (mg/L)	Laboratory	Grab Sample	
		Total Nitrogen (N)	milligrams per litre (mg/L)			
		Orthophosphate (Reactive Phosphorous)	milligrams per litre (mg/L)			
		Ammonia Nitrogen	milligrams per litre (mg/L)			
		NOx Nitrogen	milligrams per litre (mg/L)			
		Chlorophyll a	mg/m^3			
		Total Algal Cell Count	cells/mL			
		Total Algal Biovolume	mm^3/L			
		Potentially Toxic Cyanobacteria Cell Count	cells/mL			
		Potentially Toxic Cyanobacteria Biovolume	mm^3/L			
		Toxins (cytotoxic cylindrospermopsin)	micrograms per litre (µg/L)			
		Oil and Grease	Present / Absent	Visual Inspection	Visual	
		Weather - Cloud Cover	Sunny / Overcast			
		Weather - Rain	Raining / Dry			
		Water Colour and Appearance	Cloudy / Clear			
		Odour	Present / Absent			
		Frothing	Present / Absent			
		Floating Debris	Present / Absent			
		Nuisance Organisms (e.g. Macrophytes, Phytoplankton Scum,	Present / Absent			
	6-Monthly (Summer & Winter)	Temperature	degrees Celsius (°C)	Field	Probe	DP1-1, DP1-2, etc. (at 1m depth and then every 2m depth interval to the pond base)
		pH	pH			
		Electrical Conductivity (EC)	micro Siemens per centimetre (µS/cm)			
		Oxygen Reduction Potential (ORP)	millivolts (mV)			
		Turbidity	NTU			
		Dissolved Oxygen (DO)	milligrams per litre (mg/L)			
		Oil and Grease	Present / Absent	Visual Inspection	Visual	
		Major Cations*	milligrams per litre (mg/L)	Laboratory	Grab Sample	
		Major Anions**	milligrams per litre (mg/L)			
		Filterable Iron	milligrams per litre (mg/L)			
		Aluminium	milligrams per litre (mg/L)			
		Arsenic	milligrams per litre (mg/L)			
		Total Phosphorous (P)	milligrams per litre (mg/L)			
		Total Nitrogen (N)	milligrams per litre (mg/L)			
		Orthophosphate (Reactive Phosphorous)	milligrams per litre (mg/L)			
		Ammonia Nitrogen	milligrams per litre (mg/L)			
		NOx Nitrogen	milligrams per litre (mg/L)			
		Chlorophyll a	mg/m^3			
		Total Algal Cell Count	cells/mL			
		Total Algal Biovolume	mm^3/L			
		Potentially Toxic Cyanobacteria Cell Count	cells/mL			
		Potentially Toxic Cyanobacteria Biovolume	mm^3/L			
		Toxins (cytotoxic cylindrospermopsin)	micrograms per litre (µg/L)			

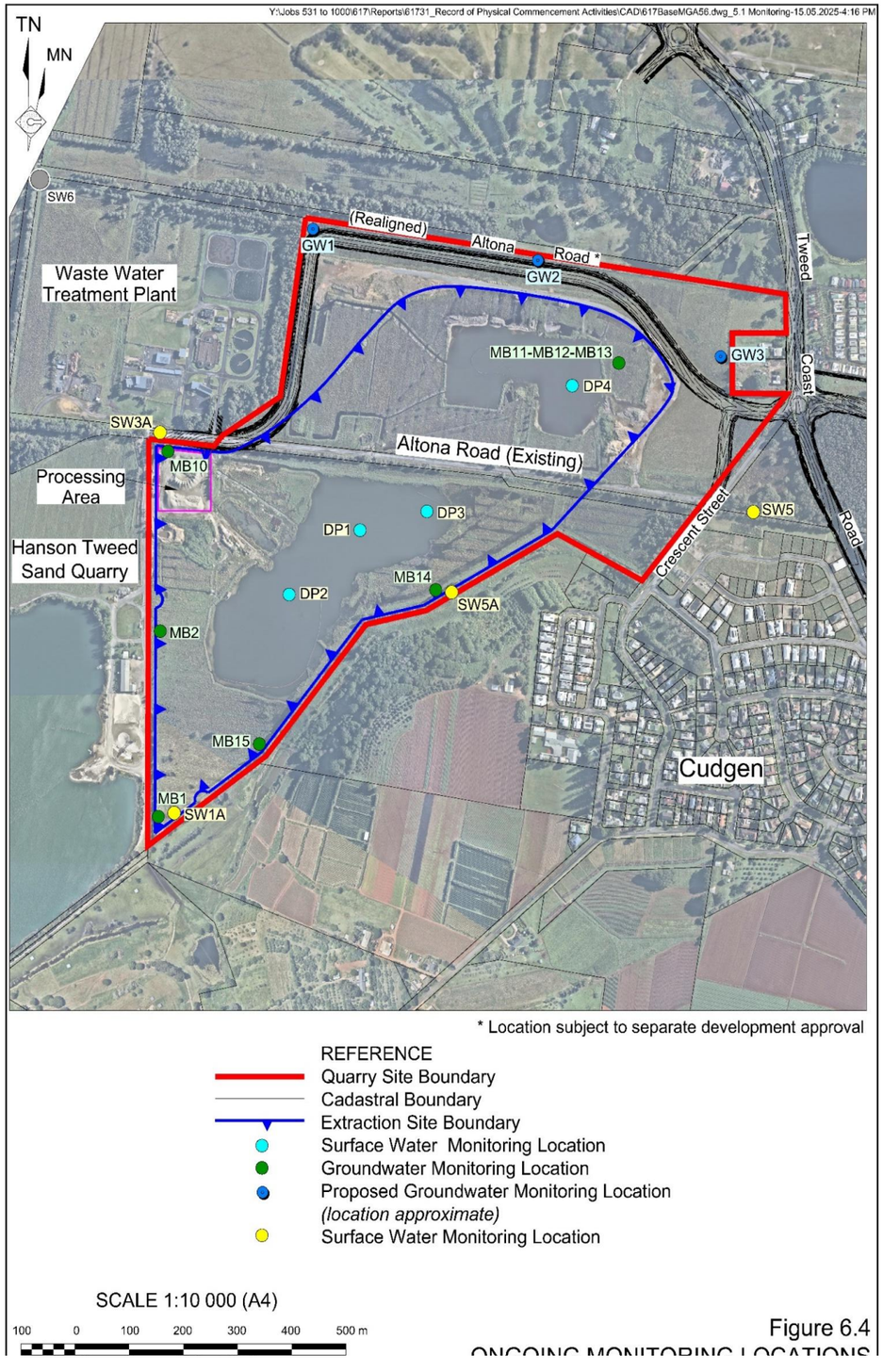
[1] Operational Periods = periods during which extraction and/or processing of material, and/or the placement of fines and/or VENM material, is occurring at the Quarry.

[2] Non-Operational Periods = periods during which no extraction, processing, fines placement or VENM placement activities are occurring. Note: for surface water monitoring purposes, non-operational periods also include periods during which transportation activities alone occur.

**Major Cations = Sodium, Calcium, Magnesium & Potassium*

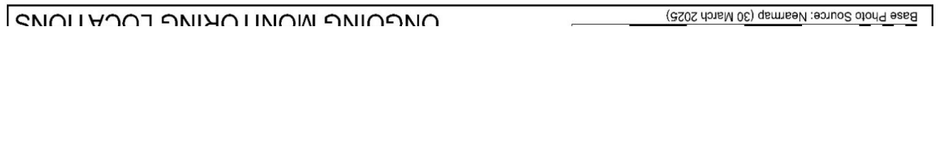
***Major Anions = Chloride, Sulfate & Bicarbonate*

Monitoring Location Map - Surface Water

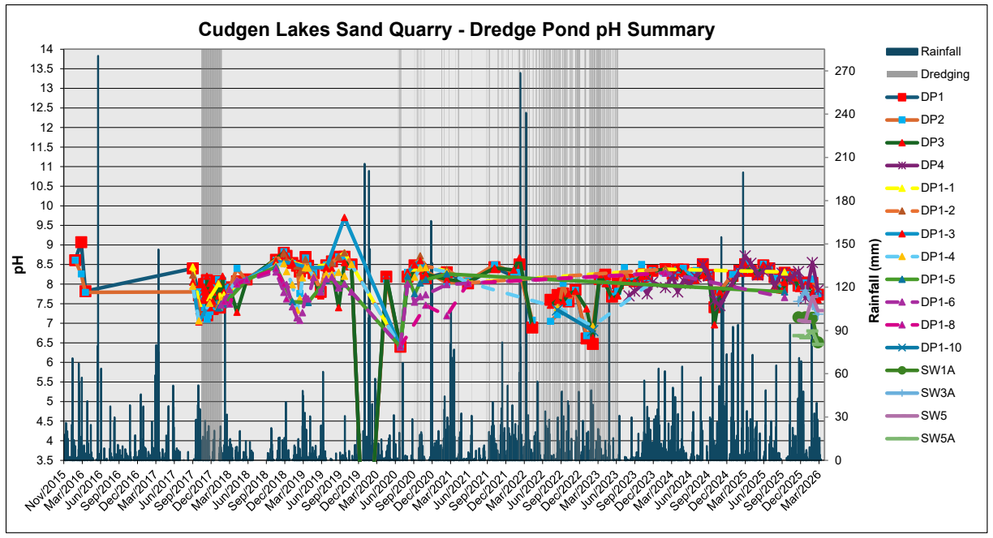


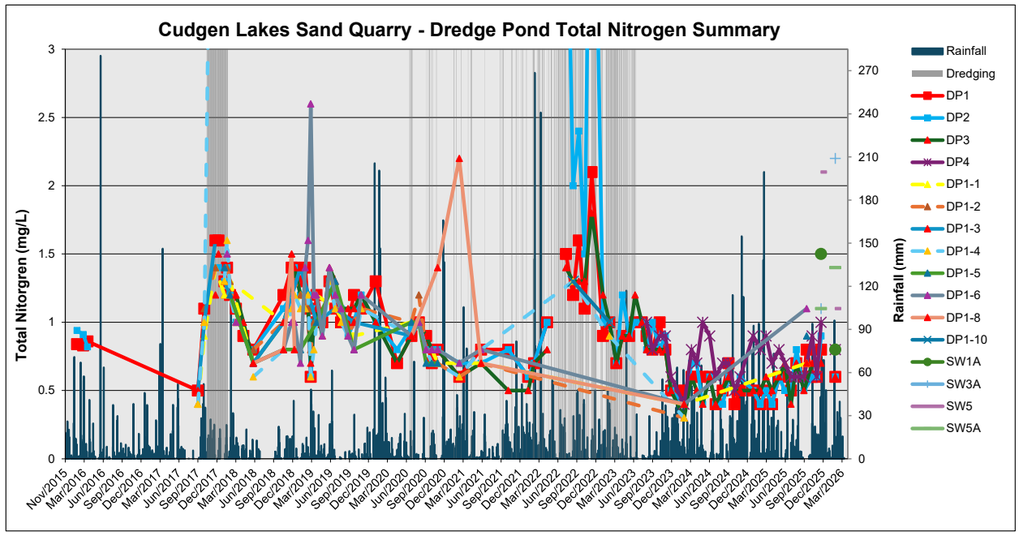
Monitoring Point Location Description

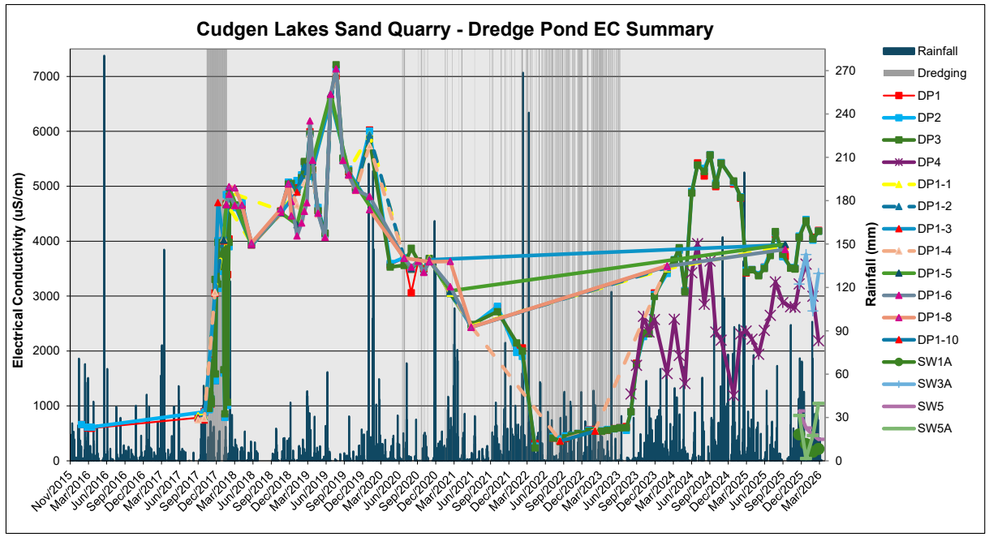
The three dredge pond monitoring locations are shown indicatively in the monitoring location map. The three locations include two edge locations (DP2 and DP3) and one in the approximate middle of the southern dredge pond (DP1) and northern dredge pond (DP4). All depth measurements are to be taken at location DP1 at a depth of 1m and then at 2m intervals to the current floor of the dredge pond. Given the changing size and shape of the dredge pond the precise location of each monitoring point will vary over time and will be selected by the monitoring consultant based upon the pond condition at the time of sampling.

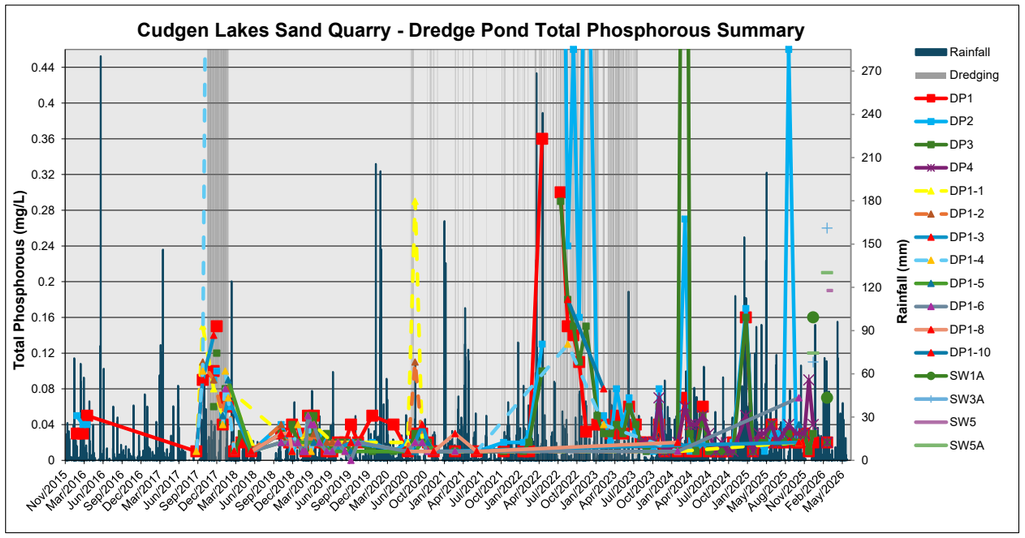

ONGOING MONITORING LOCATIONS
Base Photo Source: Nearmap (30 March 2025)

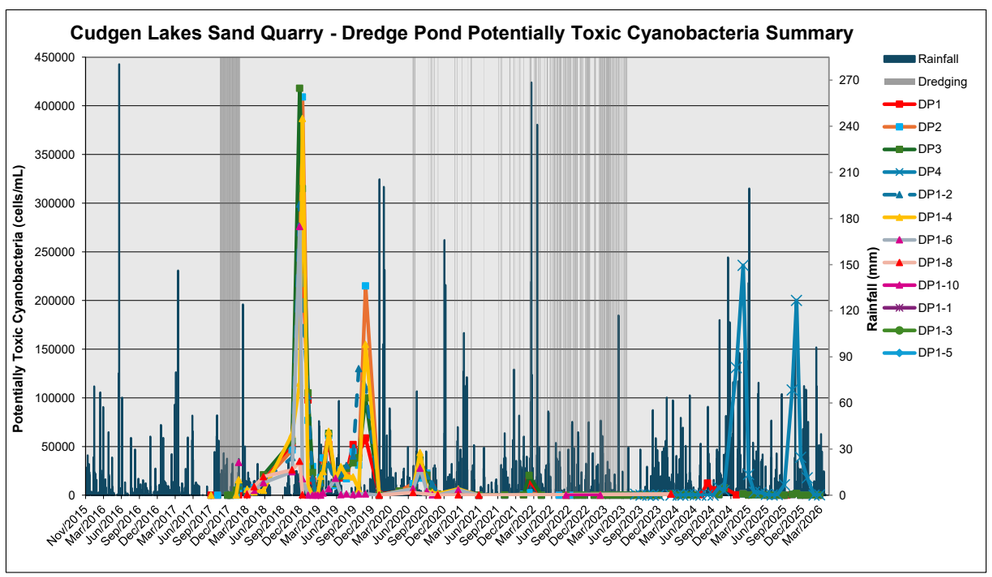
617 - CUDGEN LAKES SAND QUARRY
Surface Water Quality Monitoring Summary

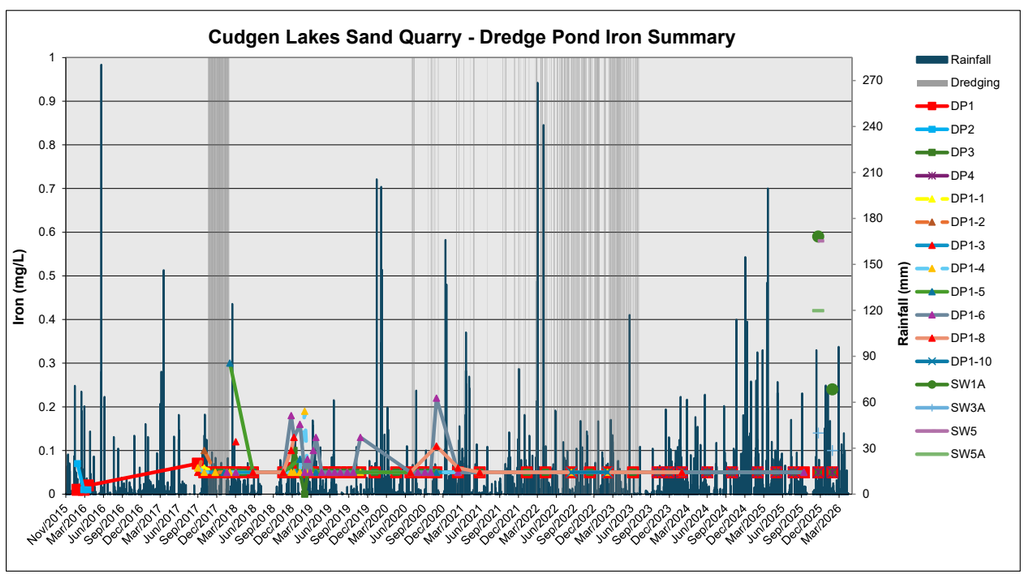












Site: DP1			Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °c	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	-	-	*6.5-9*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*		-	-	*<50000*	*<10*
Pre-Extraction	2015-11-30	Fine Sunny Approx 30mm rain previous week (BoM - Coolangatta)		24.5	8.47	591	6.12	148	8.8	4	2		24	11	7	120	20	57	0.19	0.002	0.01	0.04	0.02	0.81			0.81	0.02	0.02	860	**860**		
	2016-01-26	Fine, Clear, some algae, catttle & ducks		27.3	8.61	663	**5.87**	192	4.3	3.8	2	64	25	12	7	120	16	76	0.08	0.001	0.01	0.03	0.02	0.84			0.84	0.02	0.02	128	174		
	2016-02-25	Algae, ducks,low turbidity		25.8	**9.07**	601	6.04	104	1.7	2.1	4	69	26	12	8	120	15	58	0.04		0.01	0.03	0.02	0.83			0.83	0.02	0.02	4800	360		
	2016-03-17	Sample taken in 20cm of clear water. Surface chop caused by wind. Cattle surrounding dam. Water birds. Approx 80mm rain previous week (BoM - Coolangatta).		26.8	7.82	593	**5.97**	70	7	5.9	4	64	26	12	8	110	14	92	0.16	0.001	0.02	0.05	0.02	0.86			0.86	0.02	0.02	270	820		
	2017-09-04			26.2	8.4	786	9.24	132	5	0.9	5	132	33	21	8	236	57	98	0.06	0.001	0.07	0.01	0.01	0.5	0.01	0.02	0.5	0.02	0.02	40	10	5	2
	2017-10-05			28.3	7.71	901	7.36	48.7	68	**138**	5	95	46	17	7	182	40	130	0.03	0.001	0.05	0.09	0.01	1.1	0.01	0.03	1.1	0.01	0.03	320	1180		
	2017-10-08	Algae/chrorophyll only to lab		27.2	7.81	886	6.83	61.2		**156**																					5	10
2017/2018	2017-10-30	**Commencement of extraction**																															
	2017-10-30	Daily monitoring requirement for first 2 weeks of dredging.		23.4	8.0	1056	**4.23**	224																									
	2017-10-31	Daily monitoring requirement for first 2 weeks of dredging.		20.1	7.9	1069	**4.28**	210																									
	2017-11-01	Daily monitoring requirement for first 2 weeks of dredging.		22.1	7.9	1061	**4.25**	216																									
	2017-11-02	Daily monitoring requirement for first 2 weeks of dredging.		22.4	7.6	980	**2.78**	2.12																									
	2017-11-03	Daily monitoring requirement for first 2 weeks of dredging.		20.2	7.7	1142	**3.26**	206																									
	2017-11-06	Daily monitoring requirement for first 2 weeks of dredging.		22.4	7.6	1042	**4.18**	214																									
	2017-11-07	Daily monitoring requirement for first 2 weeks of dredging.		22.1	7.3	1031	**3.76**	210																									
	2017-11-08	Daily monitoring requirement for first 2 weeks of dredging.		21.9	8.0	1090	**3.93**	212																									
	2017-11-09	Daily monitoring requirement for first 2 weeks of dredging.		21.7	7.7	1052	**4.05**	209																									
	2017-11-10	Daily monitoring requirement for first 2 weeks of dredging.		21.5	7.9	1067	**4.02**	204																									
	2017-11-13	Daily monitoring requirement for first 2 weeks of dredging.		21.1	7.4	1767	**4.2**	132																									
	2017-11-14	Daily monitoring requirement for first 2 weeks of dredging.		21.7	8.1	1837	**4**	122																									
	2017-11-15	Daily monitoring requirement for first 2 weeks of dredging.		21	7.2	1795	**3.9**	134																									
	2017-11-21	Daily monitoring requirement for first 2 weeks of dredging.		21.5	7.4	1623	**4.6**	133																									
	2017-11-28			27.3	7.4	3058	**3.14**	50.4	55	**97**	5	454	110	72	19	874	197	237	0.01	0.001	0.05	0.1	0.01	1.6	0.01	0.12	1.5	0.32	0.12	110	2160	5	6
	2017-11-30	Weekly monitoring requirement.		21.6	7.6	1455	**4.8**	143																									
	2017-12-06	Weekly monitoring requirement.		22	7.8	3210	6.53	206																									
	2017-12-13	Weekly monitoring requirement.		22.9	7.8	3150	**3.95**	147																									
	2017-12-13	Birds on Dredge pond and surrounds		27	7.36	3991	**0.2**	107		**125.3**		563	121	89	22	992	261	234	0.01	0.001	0.05	0.15	0.01	1.6	0.01	0.01	1.6	0.16	0.01			5	**28**
	2017-12-20	Weekly monitoring requirement.		22.8	7.7	3550	**4.15**	157																									
	2018-01-11	Birds on Dredge pond and surrounds		30.9	8.07	4012	**2.17**	-0.7	12	**20.1**	5	628	136	97	24	1090	270	240	0.01	0.002	0.05	0.04	0.01	1.3	0.01	0.01	1.3	0.02	0.01	110	90	825	**13**
	2018-01-12	Weekly monitoring requirement.		21.8	7.7	1610	**4.16**	172																									
	2018-01-17	Weekly monitoring requirement.		20.9	7.4	797	**3.43**	116																									
	2018-01-23	Weekly monitoring requirement.		21.8	7.7	1569	**4.12**	168																									
	2018-01-24	Birds on Dredge pond and surrounds		27.4	7.54	4685	**3.27**	36.2		**55.2**		606	129	96	22	1240	296	223	0.01	0.002	0.05	0.07	0.01	1.4	0.01	0.02	1.4	0.21	0.02			355	**24**
	2018-01-31	Weekly monitoring requirement.		20.5	7.8	3391	**5.73**	161																									
	2018-02-07	Birds on Dredge pond and surrounds		26.6	7.72	4915	**5.21**	30.9		19.5	5	693	137	103	24	1350	315	264	0.01	0.002	0.05	0.06	0.01	1.2	0.01	0.01	1.2	0.1	0.01	20	40		**22**
	2018-02-07	Weekly monitoring requirement.		19.1	7.8	4040	**5.68**	111																									
	8/02/2018	**Last day of first extraction campaign.**																															
	2018-03-08	Water Birds on Dredge Pond, no algae visible, slight brown/green tinge to pond water, level		25	7.92	4642	**5.33**	63		10.1		602	126	93	22	1180	307	237	0.04	0.002	0.05	0.01	0.01	1.1	0.01	0.01	1.1	0.02	0.01			1940	**51**
	2018-04-13	Birds on Dredge pond and surrounds. Algae numbers significantly reduced. Field measurements, algae counts and chlorophyll only for vertical profile samples in dredge pond.		26	8.07	4659	7.37	134		0.6		636	134	100	24	1120	263	245	0.02	0.002	0.05	0.02	0.01	0.9	0.01	0.01	0.9	0.01	0.1			6980	**12**
	2018-05-31	Aquatic Birds on dredge pond		19.6	8.12	3960	**5.59**	61		6.8	5	663	135	101	23	1290	313	270	0.02	0.002	0.05	0.01	0.01	0.8	0.01	0.03	0.8	0.06	0.03	20	50	14900	9
2018/2019	2018-10-25			25.1	8.62	4553	6.59	80	5	15.2	5	671	121	100	22	1250	334	205	0.05	0.005	0.05	0.03	0.01	1.2	0.01	0.01	1.2	0.06	0.01	110	40	**50300**	**13**
	2018-12-03	S/W WIND TBC		27.6	8.8	5061	8.76	44.2	12	10.1		642	112	99	22	1310	301	188	0.03	0.001	0.06	0.02	0.01	1.4	0.01	0.02	1.4	0.02	0.02			**284000**	**15**
	2018-12-17			26.5	8.72	5048	9.92	13	7	11.3		686	107	99	24	1170	302	171	0.06	0.002	0.05	0.04	0.01	1.4	0.01	0.01	1.4	0.05	0.01			**247000**	**31**
	2019-01-15			29.4	8.54	4978	**4.93**	26.5	6	7.5	5	813	116	119	27	1320	298	148	0.02	0.002	0.05	0.02	0.01	1.3	0.01	0.01	1.3	0.05	0.01	270	410	**97700**	**15**
	2019-02-07	Aquatic Birds and Cattle. No algal scum on surface. No Oil and grease sampling. Hut mud DP1-8		28.8	8.47	5172	7.84	-43.6	18	10.3		691	94	98	22	1380	364	172	0.04	0.002	0.05	0.03	0.005	1.4	0.01	0.01	1.4	0.01	0.01			14900	10
	2019-02-21			27.8	8.32	5440	8.14	16.8	7	**23.8**		755	110	115	26	1380	328	161	0.03	0.002	0.05	0.01	0.001	1.1	0.01	0.01	1.1	0.06	0.01			5090	5
	2019-03-06	Cattle on site and near dredge pond. Aquatic birds on dredge pond. No visible algal scum		26.8	8.41	5352	8.93	-41.6	5	1.2		730	110	110	24	1390	323	194	0.02	0.002	0.05	0.05	0.008	0.6	0.01	0.01	0.6	0.01	0.01			1200	8
	2019-03-21			28.1	8.69	5995	**5.72**	-110	5	3.24		738	110	112	26	1340	296	171	0.03	0.002	0.05	0.03	0.001	1	0.01	0.01	1	0.02	0.01			13400	**11**
	2019-04-03			24.3	8.47	5298	**5.27**	109		8.2	5	757	124	117	24	1250	303	188	0.03	0.002	0.05	0.05	0.003	1.2	0.01	0.01	1.2	0.03	0.01	230	120	36800	9
	2019-05-01			23.4	8.28	4559	8.52	40.9	5	4.3		786	127	**123**	26	1310	297	189	0.01	0.002	0.05	0.02	0.001	1	0.01	0.01	1	0.03	0.01			**52000**	10
	2019-06-05			17.9	7.8	4140	6.9	57.2	6	-9.7		706	125	111	24	1300	292	226	0.01	0.002	0.05	0.01	0.004	1.3	0.02	0.04	1.2	0.37	0.06			12700	**12**
2019/2020	2019-07-03			18.7	8.48	**6549**	**5.17**	85		1.1	5	728	124	110	24	1290	256	226	0.01	0.001	0.05	0.01	0.001	1.1	0.02	0.11	1	0.13	0.13	430	1800	17700	**11**
	2019-07-31	Aquatic birds on drdge pond, no visible algal scum on dredge pond, no cattle on site.		18	8.58	**7007**	6.54	111.2	5	7.4		717	126	109	24	1330	311	216	0.01	0.001	0.05	0.02	0.001	1	0.01	0.1	0.9	0.03	0.1			21700	7
	2019-09-03	Water birds, yellow/brown water colour. Posible machine activity recently.		20.9	8.7	5475	7.4	123.1	5	8.2		721	122	110	23	1350	328	188	0.01	0.001	0.05	0.02	0.001	1	0.01	0.01	1	0.01	0.01			**52100**	8
	2019-10-02			25	8.7	5298	**5.3**	91.8	5	5.7	5	760	132	114	25	1370	308	193	0.01	0.002	0.05	0.04	0.001	1.2	0.01	0.01	1.2	0.02	0.01	10	10	42900	10
	2019-11-06	Aquatic birds present. Cattle present. Low water level		23	8.5	4974	8.8	115.5	5	5.7		735	105	109	25	1350	318	187	0.02	0.002	0.05	0.02	0.001	1.1	0.01	0.01	1.1	0.01	0.01			**58700**	**15**
	2020-01-15	Aquatic birds present. Cattle present. Low water level. pH meter calibration issue - spurious data		28.3	**10.6***	6025	8	72.3	5	3.1		**833**	121	**125**	28	**1400**	335	167	0.01	0.001	0.05	0.05	0.001	1.3	0.01	0.01	1.3	0.01	0.01	500	420	870	8
	2020-04-28	Land-based extraction commenced 16/04/20		24.6	8.19	3565	8.71	43.4	5	**20.8**	5	523	64	77	18	1000	183	134	0.01	0.002	0.05	0.04	0.001	0.7	0.01	0.01	0.7	0.03	0.01	20	100	4160	1
2020/2021	2020-07-07	Clear.		16.7	**6.4**	3691	9.1	124	5	2.8	5	581	85	88	20	1010	205	180	0.01	0.002	0.05	0.01	0.002	0.9	0.01	0.04	0.9	0.17	0.04	60	10	11800	
	2020-08-12	Clear		18.6	8.19	3061	10.5	82	9	6.6	5	546	88	83	19	1030	182	169	0.01	0.002	0.05	0.03	0.001	1	0.01	0.04	0.9	0.05	0.05	50	20	24600	8
	2020-09-16			21.4	8.48	3640	10.67	95.8	15	**55.43**	5	564	87	83	19	1080	197	148	0.01	0.002	0.05	0.03	0.002	0.9	0.01	0.01	0.9	0.02	0.01	10	30	21000	**13**
	2020-10-14			24.4	8.39	3503	9.85	62.1	8	13	5	553	96	82	19	1040	228	141	0.02	0.002	0.05	0.02	0.001	0.7	0.01	0.01	0.7	0.01	0.01			7510	1
	2020-11-11			24.4	8.15	3649	9.44	74.1	5	2.5		552	88	82	19	1070	233	143	0.03	0.002	0.05	0.01	0.001	0.8	0.01	0.01	0.8	0.06	0.01	30	280	1280	5
	2021-02-24	Clear		26.8	8.3	3061	8.35	69.8	5	6.1		436	77	67	15	905	192	126	0.03	0.002	0.05	0.01	0.001	0.6	0.01	0.01	0.6	0.01	0.01	640	280	3690	4
	2021-06-10	Clear		17.6	8.02	2465	8.8	50.6	5	4.35		392	70	56	14	762	165	136	0.02	0.002	0.05	0.01	0.001	0.8	0.02	0.04	0.7	0.2	0.06	30	10	5	2
2021/2022	2021-10-20	Clear		24.71	8.43	2791	6.95	-95.1		4.5												0.01	0.002	0.8	0.01	0.01	0.6	0.01	0.01			5	3
	2022-01-25	Clear		27.55	8.19	2084	6.13	-105.6		10	NV	341	72	48	12	659	142	122	0.02	0.001	0.05	0.01	0.001	0.6	0.01	0.01	0.6	0.04	0.01			330	2
	2022-02-22	Clear		28.54	8.5	2058	6.37	-115.7		11	NV											0.01	0.002	0.7	0.01	0.01	0.7	0.06	0.01			14900	2
	2022-04-27	Cloudy		22.76	6.89	318	6.58	-36.1		**28**	NV	41	14	6	3	75	21	33	0.02	0.001	0.05	0.36	0.004	1	0.01	0.18	0.8	0.05	0.15			5	5
	2022-05-23	Due to major flood event, high rainfall, and poor drainage the site was deemed inaccessible to undertake sampling during May 2022.																															

2022-06-22	Due to previous major flood events, ongoing rain and slow drainage, the site was deemed inaccessible to undertake sampling during June 2022.

2022/2023	2022-07-27	Cloudy, Turbid		15.7	7.60	416	6.12	126.0		**593.0**												0.30	0.004	1.5	0.01	0.33	1.2	0.01	0.33			5	5
	2022-08-31	Cloudy, Very Turbid		19.1	7.72	367	6.80	204.9		**410.0**		58	27	8	4	90	30	55	0.01	0.001	0.05	0.15	0.002	1.2	0.01	0.42	0.8	0.04	0.42			5	**11**
	2022-09-28	Cloudy, Turbid		23.2	7.76	408	6.77	-90.7		**312.0**												0.14	0.002	1.6			1.2	0.01	0.38			5	5
	2022-10-26	Cloudy, Turbid		26.4	7.56	454	**5.05**	106.9														0.11	0.003	1.1	0.01	0.39	0.7	0.01	0.39			5	2
	2022-11-29	Cloudy, Turbid		23.6	7.85	497	**4.21**	75.2		**187.0**		48	37	7	4	92	40	64	0.01	0.001	0.05	0.03	0.004	2.1	0.01	0.46	1.6	0.08	0.46			5	**22**
	2023-01-23	Cloudy, Turbid		26.9	6.61	569	8.00	164.3		**76.9**												0.04	0.001	0.9			0.5	0.01	0.42			5	5
	2023-02-23	Cloudy, Turbid		27.1	**6.47**	573	7.42	173.1		**54.0**		49	43	7	4	82	42	70	0.01	0.001	0.05	0.04	0.001	1.0	0.01	0.38	0.6	0.01	0.38			5	4
	2023-03-29	Cloudy, Turbid		26.1	8.13	541	**2.87**	-50.8		**92.6**												0.03	0.001	0.7			0.4	0.01	0.32			5	5
	2023-04-27	Cloudy, Turbid		21.6	8.24	558	8.16	-54.2		**92.8**												0.05	0.002	0.9	0.02	0.32	0.6	0.05	0.34			5	2
	2023-05-30	Cloudy, Turbid		19.3	7.68	587	**5.90**	-45.6		19.3												0.03	0.001	0.9	0.01	0.40	0.5	0.03	0.40			5	1
	2023-06-28	Cloudy, Turbid		16.4	8.02	605	**5.37**	-61.0		**91.1**		56	43	10	5	100	55	90	0.01	0.001	0.05	0.06	0.003	1.0	0.01	0.38	0.6	0.04	0.38			5	2
2023/2024	2023-07-31	Cloudy, Turbid		18.5	8.11	624	**5.98**	-68.3		**74.2**												0.04	0.001	1.0	0.01	0.36	0.6	0.02	0.36			5	4
	2023-08-23	Cloudy, Turbid		21.6	8.11	898	**4.19**	-77.4		**27.3**												0.02	0.001	0.9	0.01	0.36	0.5	0.07	0.36			5	3
	2023-09-20	Clear		22.7	8.07	1779	9.10	-70.9		8.3												0.02	0.001	0.8	0.05	0.30	0.5	0.03	0.35			5	1
	2023-10-25	Clear		25.2	8.22	2311	9.03	-71.5		**24.3**		277	103	52	13	560	245	135	0.01	0.001	0.05	0.02	0.001	1.0	0.01	0.30	0.7	0.23	0.31			5	2
	2023-11-22	Clear		25.9	8.18	2356	9.22	-81.2		8.4												0.04	0.001	0.8			0.5	0.02	0.25			5	4
	2023-12-19	Clear	7	29.3	8.34	3058	**5.89**	-90.9		7.1		423	138	72	18	763	322	165	0.01	0.001	0.05	0.01	0.003	0.5	0.01	0.01	0.5	0.10	0.01			5	10
	2024-02-21	Clear		29.3	8.38	3515	**5.69**	-82.2		3.4		457	137	69	19	884	318	160	0.01	0.001	0.05	0.01	0.001	0.5	0.01	0.09	0.4	0.01	0.09			1240	2
	2024-03-28	Clear Redox meter failed		25.4	8.26	3649	**4.07**			4.7												0.07	0.001	0.6	0.01	0.05	0.6	0.16	0.05			5	10
	2024-04-22	Clear		23.8	8.37	3849	**4.61**	-87.1		7.9												0.01	0.018	0.6	0.01	0.01	0.6	0.09	0.01			605	10
	2024-05-21	Clear		20.3	8.37	3102	8.18	-82.9		4.2												0.01	0.002	0.6	0.01	0.01	0.6	0.08	0.01			160	**18**
	2024-06-24	Clear	7.5	17.8	8.16	4884	8.11	-73.1		5.9		698	153	109	25	1280	407	188	0.01	0.001	0.05	0.06	0.007	0.6	0.01	0.01	0.6	0.08	0.60			160	**11**
2024/2025	2024-07-23	Clear	8	16.9	8.27	5426	7.57	-81.7		2.9												0.01	0.001	0.4	0.04	0.01	0.4	0.06	0.40			500	**18**
	2024-08-26	Clear	7.5	22.9	8.51	5187	8.47	-106.5		**21.0**												0.01	0.001	0.5	0.02	0.01	0.5	0.03	0.02			12500	8
	2024-09-24	Clear	7	22.4	8.23	5566	7.37	-96.3		3.7												0.01	0.002	0.7	0.04	0.01	0.7	0.01	0.04			5440	6
	2024-10-23	Clear	0.7	23.8	7.41	4994	9.66	95.1		0.7		686	139	110	26	1380	371	189	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.01	0.01			665	6
	2024-11-19	Clear	0.75	25.9	7.79	5432	7.39	119.5		4.5												0.02	0.001	0.5	0.01	0.01	0.5	0.01	0.01			7700	**13**
	2025-01-21	Clear	0.75	27.4	8.21	5043	**4.81**	-68.1		**31.0**												0.16	0.001	0.5	0.01	0.01	0.5	0.01	0.01			360	2
	2025-02-25	Clear	7.5	28.2	8.34	4782	**5.69**	-71.1		1.6		771	133	118	28	1340	336	169	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.01	0.01			1340	1
	2025-03-25	Clear	0.7	26.1	8.51	3421	**5.99**	-836.2		3.3												0.02	0.002	0.5	0.01	0.01	0.5	0.01	0.01			170	7
	2025-04-23	Clear	0.7	24.5	8.34	3483	6.68	-77.1		2.7												0.02	0.001	0.4	0.01	0.01	0.4	0.01	0.01			440	1
	2025-05-27	Clear	0.7	21.8	8.25	3391	**5.60**	-73.8		11.4		448	90	66	18	957	238	135	0.01	0.001	0.05	0.04	0.002	0.6	0.01	0.01	0.6	0.02	0.01			580	1
	2025-06-24	Clear	0.7	18.3	8.48	3530	**5.51**	-86.8		5.8												0.02	0.001	0.6	0.01	0.05	0.5	0.02	0.05			85	4
2025/2026	2025-07-24	Clear		17.1	8.40	3773	**5.11**	-83.7		6.4												0.02	0.002	0.5	0.02	0.02	0.5	0.01	0.04			100	7
	2025-08-19	Clear	0.7	17.1	8.18	4118	**4.64**	-80.6		0.8		565	94	79	21	1200	278	155	0.01	0.001	0.05	0.03	0.004	0.7	0.06	0.04	0.6	0.01	0.10			5	2
	2025-09-25	Clear	0.7	21.7	7.91	3732	9.39	139.4		0.0												0.02	0.006	0.6	0.01	0.01	0.6	0.12	0.01			5	1
	2025-10-08	Clear	0.7	24.3	8.29	3722	**4.90**	144.7		5.6		568	101	83	21	1140	259	154	0.01	0.001	0.05	0.02	0.001	0.8	0.01	0.01	0.8	0.08	0.01			5	3
	2025-11-04	Clear	0.7	25.9	8.24	3513	7.10	58.5		4.8												0.03	0.001	0.6	0.01	0.01	0.6	0.02	0.01			795	2
	2025-11-26	Clear	0.75	27.5	8.16	3506	**5.63**	-91.8		5.7												0.01	0.001	0.6	0.01	0.01	0.6	0.01	0.01			1780	7
	2025-12-17	Clear	0.75	26.4	7.96	4080	**4.27**	58.4		5.5		547	106	80	21	1150	236	162	0.01	0.002	0.05	0.02	0.001	0.8	0.01	0.01	0.8	0.03	0.01			25	2
	2026-01-20	Clear	0.75	27.6	8.04	4384	7.86	68.8		5.1																						40	2
	2026-02-24	Clear	0.75	28.3	8.03	4072	6.32	-83.1		1.1		649	116	93	24	1220	274	166	0.01	0.002	0.05	0.02	0.01	0.6	0.01	0.01	0.6	0.02	0.01			210	5
	2026-03-24	Clear	0.76	25.6	7.73	4197	**5.13**	-65.1		4.1																						5	1

Reporting Period (2025/2026)	**Average**	0.7	24.2	8.09	3910	6.04	6.6	0.0	3.9	0.0	582.25	104	83.75	22	1177.5	261.75	159.25	0.01	0.0015	0.05	0.02	0.00	0.65	0.02	0.02	0.64	0.04	0.03	0.0	0.0	297	3
	Maximum	0.8	28.3	8.40	4384	9.39	144.7	0.0	6.4	0.0	649	116	93	24	1220	278	166	0.01	0.002	0.05	0.03	0.01	0.80	0.06	0.04	0.80	0.12	0.10	0.0	0.0	1780	7
	Minimum	0.7	17.1	7.73	3506	**4.27**	-91.8	0.0	0.0	0.0	547	94	79	21	1140	236	154	0.01	0.001	0.05	0.01	0.00	0.50	0.01	0.01	0.50	0.01	0.01	0.0	0.0	5	1
All Results	**Average**	2.5	23.6	8.02	2992	6.16	42.5	10.3	**36.7**	4.6	519.4	96	77.7	19	953.3	229.946	161.43	0.03	0.00158	0.05	0.04	0.00	0.90	0.01	0.08	0.81	0.05	0.10	394.3	403.2	14301	8
	Maximum	8.0	30.9	**9.07**	**7007**	10.67	224.0	68.0	**593.0**	5.0	**833**	153	**125**	28	**1400**	407	270	0.19	0.005	0.07	0.36	0.02	2.10	0.06	0.46	1.60	0.37	0.60	4800.0	2160.0	**284000**	**51**
	80th Percentile	7.2	27.1	8.41	4864	8.16	143.0	10.8	**29.8**	5.0	726.6	128	110	24	1336	318	211.6	0.03	0.002	0.05	0.05	0.01	1.20	0.01	0.11	1.20	0.08	0.31	444.0	828.0	14300	**12**
	Median (50th Percentile)	0.8	23.7	8.11	3406	**5.94**	62.1	5.0	7.0	5.0	581	109	88.5	22	1130	266.5	166.5	0.01	0.002	0.05	0.02	0.00	0.85	0.01	0.01	0.70	0.02	0.02	110.0	120.0	440	6
	20th Percentile	0.7	20.6	7.70	917	**4.20**	-73.8	5.0	3.3	4.2	289.8	53	31.8	10	365.6	91	123.6	0.01	0.001	0.05	0.01	0.00	0.60	0.01	0.01	0.50	0.01	0.01	20.0	18.0	5	2
	Minimum	0.7	15.7	**6.40**	318	**0.20**	-836.2	1.7	-9.7	2.0	41	14	6	3	75	14	33	0.01	0.001	0.01	0.01	0.00	0.40	0.01	0.01	0.40	0.01	0.01	10.0	10.0	5	1

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data. NLM = No Longer Monitored

NV - Not visible

Site:	DP2		Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	-	-	*6.5-9.0*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*				*<50000*	*<10*
Pre-Extraction	2015-11-30	No sample collected due to equipment failure. Fine Sunny Approx 30mm rain previous week (BoM - Coolangatta).																															
	2016-01-26	Fine, clear, some algae, cattle & ducks		27.3	**8.61**	663	**5.87**	194	4.3	**4.7**	2	64	25	12	7	120	16	94	0.07	0.001	0.07	0.05	0.020	0.94			0.94	0.02	0.02	128	174		
	2016-02-25	Fine, clear, some algae, ducks		23.7	8.26	613	**3.75**	124	9	5.1	4	67	27	12	8	120	15	96	0.10	0.002	0.01	0.04	0.020	0.91			0.91	0.02	0.02	140	50		
	2016-03-17	Overcast, some algae, water birds, cattle		26.6	7.79	615	**3.43**	82	4.3	**3.5**	4	65	27	12	8	110	14	94	0.05	0.002	0.01	0.04	0.020	0.82			0.82	0.02	0.02	150	**340**		
	2017-10-08	Algae/chrorophyll only to lab		27.5	7.8	890	6.41	58.8		**143**																					5	9
2017/2018	2017-10-30	**Commencement of extraction**																															
	2017-10-30	Daily monitoring requirement for first 2 weeks of dredging.		23.3	7.7	932	**4.25**	230																									
	2017-10-31	Daily monitoring requirement for first 2 weeks of dredging.		20.3	7.7	1029	**4.01**	175																									
	2017-11-01	Daily monitoring requirement for first 2 weeks of dredging.		21.2	7.4	997	**4.11**	192																									
	2017-11-02	Daily monitoring requirement for first 2 weeks of dredging.		21.8	7.7	957	**2.77**	209																									
	2017-11-03	Daily monitoring requirement for first 2 weeks of dredging.		20.4	7.7	1158	**2.96**	204																									
	2017-11-06	Daily monitoring requirement for first 2 weeks of dredging.		22.4	7.6	1118	**4.1**	217																									
	2017-11-07	Daily monitoring requirement for first 2 weeks of dredging.		22	7.6	1098	**3.8**	211																									
	2017-11-08	Daily monitoring requirement for first 2 weeks of dredging.		21.9	7.6	1125	**3.9**	210																									
	2017-11-09	Daily monitoring requirement for first 2 weeks of dredging.		21.4	7.7	1065	**3.98**	204																									
	2017-11-10	Daily monitoring requirement for first 2 weeks of dredging.		21.6	7.8	1069	**3.92**	208																									
	2017-11-13	Daily monitoring requirement for first 2 weeks of dredging.		21.3	7.6	1762	**4.1**	134																									
	2017-11-14	Daily monitoring requirement for first 2 weeks of dredging.		21.5	8.1	1806	**4.3**	124																									
	2017-11-15	Daily monitoring requirement for first 2 weeks of dredging.		20.5	7.1	1769	**4.3**	178																									
	2017-11-21	Daily monitoring requirement for first 2 weeks of dredging.		21.4	7.2	1586	**4.7**	143																									
	2017-11-28								38		5	453	109	71	18	882	198	239	0.01	0.001	0.05	0.09	0.010	1.4	0.01	0.02	1.4	0.13	0.02	150	1180	5	9
	2017-11-30	Weekly monitoring requirement.		21.6	7.3	1458	**5**	154																									
	2017-12-06	Weekly monitoring requirement.		22	7.9	3290	6.28	199																									
	2017-12-13	Weekly monitoring requirement.		22.7	7.8	3140	**3.58**	144																									
	2017-12-13			27	7.42	4010	**0.19**	131		**88.9**		565	122	90	22	996	261	228	0.01	0.001	0.05	0.1	0.010	1.4	0.01	0.01	1.4	0.12	0.01			5	**40**
	2017-12-20	Weekly monitoring requirement.		23.3	7.7	3450	**3.88**	158																									
	2018-01-11			32	8.11	3998	6.8	-0.8	18	**22.1**	5	624	137	95	24	1080	274	241	0.01	0.002	0.05	0.05	0.010	1.3	0.01	0.01	1.3	0.01	0.01	130	120	1250	**12**
	2018-01-12	Weekly monitoring requirement.		21.7	7.6	1600	**4.1**	271																									
	2018-01-17	Weekly monitoring requirement.		20.9	7.4	791	**3.37**	153																									
	2018-01-23	Weekly monitoring requirement.		21.7	7.6	1560	**4.07**	265																									
	2018-01-24			29.1	7.78	4849	**4.88**	41.2		**34.4**		613	130	99	23	1250	298	220	0.01	0.002	0.05	0.08	0.010	1.4	0.01	0.05	1.4	0.21	0.05			6830	**24**
	2018-01-31	Weekly monitoring requirement.		22.3	8.1	1008	**5.02**	1322																									
	2018-02-07			27.3	7.88	4918	**5.35**	32.5		**23.8**	5	680	135	101	24	1340	305	260	0.02	0.002	0.05	0.06	0.010	1.2	0.01	0.02	1.2	0.04	0.02				**25**
	2018-02-07	Weekly monitoring requirement.		21.2	7.8	3900	**5.66**	206																									
	2018-02-08	**Last day of first extraction campaign.**																															
	2018-03-08			25.3	7.92	4614	7.43	63		17.6		584	123	90	21	1180	292	236	0.03	0.002	0.05	0.01	0.010	1	0.01	0.04	1	0.02	0.04			4020	**38**
	2018-04-13			26.2	8.4	4708	8.15	178		**104**																						7880	7
	2018-05-31			19.2	8.08	3929	**4.98**	61		7.1	5	628	127	95	22	1290	311	270	0.01	0.002	0.05	0.01	0.010	0.8	0.01	0.04	0.8	0.07	0.04	60	100	14300	8
2018/2019	2018-10-25			25.1	**8.61**	4535	8.71	82	10	12	5	674	119	100	22	1210	335	190	0.05	0.005	0.05	0.04	0.010	1.1	0.01	0.01	1.1	0.03	0.01	80	110	46500	**12**
	2018-12-03			27.9	**8.83**	5076	9.26	60.1	12	11.4		694	118	108	24	1320	303	181	0.05	0.002	0.05	0.02	0.01	1.2	0.01	0.02	1.2	0.02	0.02			**264000**	**18**
	2018-12-17			26.3	**8.71**	5037	9.65	28	9	9.2		688	107	99	23	1300	294	174	0.04	0.002	0.05	0.01	0.01	1.4	0.01	0.01	1.4	0.01	0.01			**409000**	**32**
	2019-01-15			30.5	**8.53**	5105	**5**	39.5	6	10.7	5	694	97	104	23	1310	297	139	0.03	0.002	0.05	0.02	0.01	1.2	0.01	0.01	1.2	0.05	0.01	180	460	**76800**	**13**
	2019-02-07			29	8.46	5208	7.72	-7.8	5	4.6		772	116	119	27	1370	317	171	0.02	0.002	0.05	0.01	0.005	1.2	0.01	0.01	1.2	0.05	0.01			29500	**12**
	2019-02-21			27.8	7.76	5410	7.76	41.5	5	**39.3**		774	109	116	26	1380	330	158	0.03	0.002	0.05	0.02	0.001	1.2	0.01	0.01	1.2	0.02	0.01			3970	6
	2019-03-06			27	8.43	5367	8.98	11.8	5	2.1		739	112	113	25	1360	318	190	0.02	0.002	0.05	0.05	0.01	0.6	0.01	0.01	0.6	0.01	0.01			835	7
	2019-03-21			28	**8.67**	5954	**5.65**	-109	5	3.22		731	110	110	25	1300	293	165	0.03	0.002	0.05	0.02	0.002	1	0.01	0.01	1	0.02	0.01			18100	6
	2019-04-03			24.8	8.47	5179	**5.24**	107	8	7.9	5	745	125	114	24	1250	299	178	0.04	0.002	0.05	0.03	0.001	1.1	0.01	0.01	1.1	0.02	0.01	240	140	38300	**12**
	2019-05-01			24	8.29	4616	8.78	51.9	5	4.7		782	126	119	26	1310	295	189	0.01	0.002	0.05	0.03	0.001	1	0.01	0.01	1	0.04	0.01			**61500**	9
	2019-06-05			18.4	7.8	4135	7.5	63.9	5	9.9		707	125	111	24	1280	309	224	0.01	0.002	0.05	0.02	0.002	1.3	0.02	0.05	1.2	0.36	0.07			9940	10
2019/2020	2019-07-03			18.6	8.49	**6564**	6.68	85	5	3	5	728	126	112	24	1260	261	227	0.01	0.001	0.05	0.01	0.001	1.2	0.02	0.11	1.1	0.14	0.13	80	140	26000	9
	2019-07-31			18.2	**8.53**	**7136**	6.24	117	5	7.3		719	124	109	24	1350	314	215	0.01	0.001	0.05	0.02	0.001	1.1	0.01	0.11	1	0.02	0.11			17000	8
	2019-09-03			21.4	**8.7**	5497	8.2	122.3	5	6.8		741	125	113	24	1350	330	186	0.01	0.001	0.05	0.02	0.001	0.9	0.01	0.01	0.9	0.02	0.01			44600	8
	2019-10-02			25.1	**8.7**	5312	6.7	80.4	5	5.8	5	755	131	114	25	1380	309	193	0.01	0.002	0.05	0.02	0.001	1	0.01	0.01	1	0.02	0.01	100	10	30800	10
	2019-11-06			23.1	8.5	4977	8.6	37.8	8	3.7		727	105	109	25	1340	319	190	0.02	0.002	0.05	0.02	0.001	1.2	0.01	0.01	1.2	0.02	0.01			**215000**	**14**
	2020-01-15	pH meter calibration issue - spurious data.		28.5	**9.1***	6007	8.2	-77.3	5	4.6		**844**	124	**126**	28	**1420**	322	162	0.01	0.002	0.05	0.02	0.001	1	0.01	0.01	1	0.01	0.01	820	590	5	7
	2020-04-28	Land-based extraction commenced 16/04/20		25.1	8.12	3594	8.81	53.3	5	**24.9**	5	525	64	77	18	1000	188	132	0.01	0.002	0.05	0.01	0.001	0.8	0.01	0.01	0.8	0.02	0.01	40	90	3700	2
2020/2021	2020-07-07	Cloudy.		17.1	**6.4**	3700	9	116	5	3.8	5	602	88	90	20	1020	221	174	0.01	0.002	0.05	0.02	0.006	0.96	0.01	0.04	0.9	0.18	0.04	60	20	11900	
	2020-08-12	Clear		18.4	8.3	3488	10.6	92	5	7.3	5	559	90	82	19	1020	182	168	0.01	0.001	0.05	0.01	0.001	1	0.01	0.04	0.9	0.04	0.05	30	10	17500	9
	2020-09-16			21.6	8.41	3636	10.59	85.1	5	**45.8**	5	570	87	84	19	1080	189	149	0.01	0.002	0.05	0.03	0.001	0.8	0.01	0.01	0.8	0.01	0.01	10	10	22600	**11**
	2020-10-14			24.7	**8.53**	3489	9.46	47.9	5	14.3	5	567	96	82	19	1040	232	136	0.02	0.002	0.05	0.02	0.001	0.8	0.01	0.01	0.8	0.01	0.01			4480	6
	2020-11-11			24.7	8.33	3677	9.31	-21.7	5	3		548	86	81	18	1060	236	143	0.03	0.002	0.05	0.01	0.001	0.8	0.01	0.01	0.8	0.01	0.01	10	180	1160	5
	2021-02-24	Clear		26.7	8.03	3050	8.15	67.4	5	5.6		433	77	65	16	901	194	127	0.04	0.002	0.05	0.01	0.004	0.7	0.01	0.01	0.7	0.2	0.01	620	180	4090	5
	2021-06-10	Clear		17.5	8.08	2451	9.02	78.6	5	3.38		392	69	56	14	782	163	136	0.01	0.002	0.05	0.01	0.001	0.7	0.02	0.04	0.6	0.18	0.06	10	50	5	2
2021/2022	2021-10-20	Clear (New channel NW)		25.52	8.49	2814	6.68	-98.5		5.7	NV											0.02	0.001	0.8	0.01	0.06	0.7	0.1	0.06			5	**11**
	2022-01-25			28.2	8.3	1975	6.43	-110.3		6.1	NV	325	74	48	12	630	140	122	0.02	0.001	0.05	0.02	0.001	0.6	0.01	0.01	0.6	0.04	0.01			946	4
	2022-02-22	Cloudy		30.25	8.3	1904	7.01	-104.6		**32**	NV											0.03	0.002	0.7	0.01	0.01	0.7	0.03	0.01			2590	4
	2022-04-27	Cloudy		22.93	7.08	271	7.1	-46.8		**41**	NV	37	14	6	2	64	22	36	0.01	0.001	0.05	0.13	0.003	1	0.01	0.14	0.9	0.01	0.14			5	5
	2022-05-23	Due to major flood event, high rainfall, and poor drainage the site was deemed inaccessible to undertake sampling during May 2022.																															
	2022-06-22	Due to previous major flood events, ongoing rain and slow drainage, the site was deemed inaccessible to undertake sampling during June 2022.																															

2022/2023	2022-07-27	Cloudy, Very Turbid		16.3	7.05	442	6.34	125.2		**1000.0**												0.96	0.004	4.6	0.01	0.35	4.2	0.1	0.35			5	5
	2022-08-31	Cloudy, Very Turbid		20.6	7.22	400	7.02	209.2		**615.0**		54	32	7	4	89	32	58	0.01	0.001	0.05	0.24	0.002	2.0	0.01	0.46	1.5	0.1	0.46			5	10
	2022-09-28	Cloudy, Very Turbid		22.6	8.02	454	6.97	-103.4		**966.0**												0.46	0.005	2.4			2.1	0.1	0.33			5	5
	2022-10-26	Cloudy, Turbid		25.1	7.53	463	**5.12**	111.9														0.16	0.003	1.5	0.01	0.37	1.1	0.0	0.37			5	2
	2022-11-29	Cloudy, Turbid		23.1	7.84	500	**4.25**	87.9		**759.0**		48	37	7	4	91	41	77	0.01	0.001	0.05	0.74	0.002	5.8	0.01	0.43	5.4	0.0	0.43			5	**22**
	2023-01-23	Cloudy, Turbid		27.0	6.68	561	8.00	158.3		**82.9**												0.05	0.001	1.0			0.6	0.0	0.42			5	5
	2023-02-23	Cloudy, Turbid		26.5	6.90	556	7.15	193.2		**68.5**		44	45	8	4	83	42	72	0.01	0.001	0.05	0.05	0.002	1.0	0.01	0.40	0.6	0.0	0.40			5	4
	2023-03-29	Cloudy, Turbid		26.1	8.15	548	**2.82**	-52.1		**86.1**												0.02	0.001	0.7			0.4	0.0	0.32			5	5
	2023-04-27	Cloudy, Turbid		21.1	8.01	571	8.63	-43.1		**177.1**												0.08	0.002	1.2	0.01	0.29	0.9	0.1	0.29			5	2
	2023-05-30	Cloudy, Turbid		18.9	7.69	583	7.08	-50.5		**82.5**												0.04	0.002	0.9	0.01	0.41	0.5	0.0	0.41			5	1
	2023-06-28	Cloudy, Turbid		16.8	7.82	603	**4.99**	-49.5		**113.0**		57	43	10	5	106	56	91	0.01	0.001	0.05	0.07	0.002	1.0	0.01	0.38	0.6	0.1	0.38			5	2
2023/2024	2023-07-31	Cloudy, Turbid		20.0	8.42	557	**5.80**	-79.8		**71.8**												0.03	0.001	1.0	0.01	0.36	0.6	0.0	0.36			5	4
	2023-08-23	Cloudy, Turbid		20.7	8.06	890	**4.11**	-74.3		**33.9**												0.02	0.001	0.8	0.01	0.37	0.4	0.0	0.37			5	3
	2023-09-20	Cloudy/Turbid		22.7	8.08	1754	10.25	-70.5		**23.1**												0.01	0.001	1.0	0.05	0.31	0.6	0.1	0.36			5	1
	2023-10-25	Clear		25.4	8.50	2265	10.13	-70.9		13.9		274	104	51	13	560	246	135	0.01	0.001	0.05	0.01	0.001	0.8	0.01	0.31	0.5	0.0	0.32			5	2
	2023-11-22	Clear		27.3	8.16	2319	10.06	-79.3		11.5												0.08	0.001	0.9			0.7	0.0	0.24			5	4
	2023-12-19	Clear	7	29.5	8.34	3030	**5.72**	-90.6		7.7		419	138	72	18	774	326	165	0.01	0.001	0.05	0.01	0.003	0.5	0.01	0.01	0.5	0.0	0.01			5	10
	2024-02-21	Clear		29.4	8.33	3414	**5.75**	-79.4		5.1		467	144	69	19	803	323	161	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.0	0.01			1240	2
	2024-03-28	Clear		25.0	8.27	3666	**5.61**			6.2												0.27	0.001	0.7	0.01	0.01	0.7	0.0	0.01			5	10
	2024-04-22	Clear		23.5	8.36	3838	**4.44**	-86.4		8.4												0.01	0.008	0.7	0.01	0.09	0.6	0.1	0.09			605	10
	2024-05-21	Clear		20.2	8.40	3102	8.56	-85.4		5.2												0.01	0.002	0.4	0.01	0.01	0.4	0.0	0.01			160	**18**
	2024-06-24	Clear	7.5	17.2	8.24	4906	8.08	-76.9		5.5		681	151	105	24	1280	406	189	0.01	0.001	0.05	0.02	0.004	0.6	0.01	0.02	0.6	0.1	0.60			160	**11**
2024/2025	2024-07-23	Clear	8	16.7	8.35	5387	7.89	-84.6		2.6												0.01	0.001	0.4	0.04	0.01	0.4	0.08	0.40				
	2024-08-26	Clear	7.5	22.5	8.33	5328	7.71	-99.5		1.6												0.01	0.001	0.4	0.02	0.01	0.4	0.02	0.02				
	2024-09-24	Clear	7	22.5	8.24	5575	7.59	-96.7		4.1												0.01	0.002	0.6	0.02	0.03	0.6	0.0	0.05				
	2024-10-23	Clear	0.7	23.7	7.59	5055	9.57	92.7		0.4		679	141	111	26	1360	387	165	0.01	0.001	0.05	0.01	0.001	0.5	0.01	0.01	0.5	0.0	0.01			665	6
	2024-11-19	Clear	0.75	25.9	7.82	5433	7.21	108.7		4.3												0.02	0.001	0.6	0.01	0.01	0.6	0.02	0.01			7700	**13**
	2025-01-21	Clear	0.75	27.5	8.25	5078	**5.39**	-69.7		1.9												0.17	0.001	0.5	0.01	0.01	0.5	0.02	0.01				
	2025-02-25	Clear	7.5	28.0	8.32	4809	6.26	-70.1		1.6		749	130	113	27	1360	359	167	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.01	0.01			1340	1
	2025-03-25	Clear	0.7	26.1	8.53	3473	6.54	-82.4		3.5												0.02	0.001	0.5	0.01	0.01	0.5	0.01	0.01			170	7
	2025-04-23	Clear	0.7	24.3	8.35	3486	7.12	-77.3		2.8												0.01	0.001	0.4	0.01	0.01	0.4	0.01	0.01			440	1
	2025-05-27	Clear	0.7	22.0	8.29	3390	6.46	-76.9		9.2		446	91	66	18	962	240	136	0.01	0.001	0.05	0.03	0.001	0.6	0.01	0.01	0.6	0.04	0.01			580	1
	2025-06-24	Clear	0.7	18.4	8.51	3527	6.01	-88.8		3.5												0.03	0.002	0.5	0.01	0.04	0.5	0.02	0.04			85	4
2025/2026	2025-07-24	Clear		17.0	8.36	3800	6.21	-82.2		7.3												0.02	0.001	0.5	0.02	0.02	0.5	0.06	0.04			100	7
	2025-08-19	Clear	0.7	17.1	8.15	4160	**4.73**	-78.8		0.3		569	96	79	21	1180	277	155	0.01	0.001	0.05	0.46	0.001	0.8	0.06	0.04	0.7	0.02	0.10			5	2
	2025-09-25	Clear	0.7	21.5	7.90	3718	8.98	144.3		0.0												0.02	0.005	0.5	0.01	0.01	0.5	0.06	0.02			5	1
	2025-11-04	Clear	0.7	25.9	8.24	3522	7.15	58.4		5.6												0.03	0.001	0.6	0.01	0.01	0.6	0.06	0.01			795	2
	2025-11-26	Clear	0.75	27.5	8.15	3509	**5.66**	-90.2		6.4												0.01	0.014	0.6	0.01	0.01	0.6	0.01	0.01			1780	7
	2025-12-17	Clear	0.75	26.1	7.91	4095	**4.18**	56.7		5.6		556	105	84	22	1140	237	163	0.01	0.002	0.05	0.03	0.001	0.9	0.01	0.01	0.9	0.10	0.01			25	2
	2026-01-20	Clear	0.75	27.7	8.03	4396	7.79	66.2		5.4																						40	2
	2026-02-24	Clear	0.75	28.4	8.13	4021	6.17	-87.3		0.7		648	114	91	24	1220	284	167	0.01	0.002	0.05	0.02	0.01	0.6	0.01	0.01	0.6	0.01	0.01			210	5
	2026-03-24	Clear	0.76	25.6	7.75	4183	**5.32**	-64.9		4.5																						5	1

Reporting Period (2025/2026)	**Average**	0.7	24.1	8.07	3934	6.24	-8.6	0.0	4.0	0.0	591.0	105	84.667	22	1180.0	266	161.67	0.01	0.00167	0.05	0.08	0.00	0.64	0.02	0.02	0.63	0.05	0.03	0.0	0.0	329	3
	Maximum	0.8	28.4	8.36	4396	8.98	144.3	0.0	7.3	0.0	648	114	91	24	1220	284	167	0.01	0.002	0.05	0.46	0.01	0.90	0.06	0.04	0.90	0.10	0.10	0.0	0.0	1780	7
	Minimum	0.7	17.0	7.75	3509	**4.18**	-90.2	0.0	0.0	0.0	556	96	79	21	1140	237	155	0.01	0.001	0.05	0.01	0.00	0.50	0.01	0.01	0.50	0.01	0.01	0.0	0.0	5	1
All Results	**Average**	2.6	23.6	8.01	3029	6.34	62.9	7.4	**61.8**	4.7	531.5	100	80.725	19	989.5	240.24	163.4	0.02	0.00165	0.05	0.07	0.00	1.00	0.01	0.08	0.92	0.05	0.11	159.9	208.1	18818	8
	Maximum	8.0	32.0	8.83	**7136**	10.60	1322.0	38.0	**1000.0**	5.0	**844**	151	**126**	28	**1420**	406	270	0.10	0.005	0.07	0.96	0.02	5.80	0.06	0.46	5.40	0.36	0.60	820.0	1180.0	**409000**	**40**
	80th Percentile	7.3	27.2	8.41	4916	8.20	158.3	8.8	**40.3**	5.0	729.8	127	111.6	25	1340	318.6	206.2	0.03	0.002	0.05	0.06	0.01	1.20	0.01	0.11	1.20	0.07	0.32	180.0	340.0	16460	**12**
	Median (50th Percentile)	0.8	23.3	8.09	3473	6.28	60.6	5.0	7.1	5.0	602	109	90	22	1180	284	165	0.01	0.002	0.05	0.02	0.00	0.90	0.01	0.01	0.80	0.02	0.02	100.0	120.0	580	7
	20th Percentile	0.7	20.6	7.69	965	**4.19**	-77.3	5.0	3.5	4.6	351.8	71	53	13	687.6	170.6	129	0.01	0.001	0.05	0.01	0.00	0.60	0.01	0.01	0.50	0.01	0.01	30.0	20.0	5	2
	Minimum	0.7	16.3	**6.40**	271	**0.19**	-110.3	4.3	0.0	2.0	37	14	6	2	64	14	36	0.01	0.001	0.01	0.01	0.00	0.40	0.01	0.01	0.40	0.01	0.01	10.0	10.0	5	1

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data. NLM = No Longer Monitored

NV - Not visible

Site:		DP3	Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	-	-	*6.5-9.0*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*		*<1000/100*	*<230/100*	*<50000*	*<10*
Pre-Extraction	2017-10-08	Algae/chrorophyll only to lab		27.3	7.87	898	7.17	63.4		139																						5	7
2017/2018	2017-10-30	**Commencement of extraction**																															
	2017-10-30	Daily monitoring requirement for first 2 weeks of dredging.		23.5	7.8	956	4.8	225																									
	2017-10-31	Daily monitoring requirement for first 2 weeks of dredging.		19.4	7.9	1266	4.83	184																									
	2017-11-01	Daily monitoring requirement for first 2 weeks of dredging.		20.5	7.9	1170	4.83	195																									
	2017-11-02	Daily monitoring requirement for first 2 weeks of dredging.		21.9	7.6	1119	2.17	211																									
	2017-11-03	Daily monitoring requirement for first 2 weeks of dredging.		20.7	7.7	1202	3.46	205																									
	2017-11-06	Daily monitoring requirement for first 2 weeks of dredging.		22.5	7.6	1117	4.1	219																									
	2017-11-07	Daily monitoring requirement for first 2 weeks of dredging.		22	7.6	1098	3.82	209																									
	2017-11-08	Daily monitoring requirement for first 2 weeks of dredging.		21.9	7.6	1128	3.88	212																									
	2017-11-09	Daily monitoring requirement for first 2 weeks of dredging.		21.7	7.6	1043	3.94	210																									
	2017-11-10	Daily monitoring requirement for first 2 weeks of dredging.		21.7	7.8	1073	3.97	211																									
	2017-11-13	Daily monitoring requirement for first 2 weeks of dredging.		21.1	7.6	1783	4.2	136																									
	2017-11-14	Daily monitoring requirement for first 2 weeks of dredging.		21.7	8.2	1784	4.8	120																									
	2017-11-15	Daily monitoring requirement for first 2 weeks of dredging.		21.3	7.4	1790	4.1	132																									
	2017-11-21	Daily monitoring requirement for first 2 weeks of dredging.		21.4	7.7	1752	5.3	136																									
	2017-11-28			30.5	8.02	3304	8.66	28.6	16	11.7	5	456	104	73	18	845	192	241	0.02	0.001	0.05	0.06	0.010	1.20	0.01	0.01	1.2	0.02	0.01	260	1620	5	3
	2017-11-30	Weekly monitoring requirement.		21.7	7.4	1584	4.9	129																									
	2017-12-06	Weekly monitoring requirement.		22	7.9	3260	6.31	199																									
	2017-12-13	Weekly monitoring requirement.		22.6	7.8	3220	3.67	153																									
	2017-12-13			28.7	7.89	3977	0.19	92		31.4		562	120	89	22	994	249	225	0.01	0.001	0.05	0.12	0.010	1.50	0.01	0.01	1.5	0.21	0.01			5	25
	2017-12-20	Weekly monitoring requirement.		23.3	7.5	3540	3.57	161																									
	2018-01-11			30.8	8.04	3935	2.14	-0.5	14	25.5	5	612	135	95	24	1090	272	240	0.01	0.002	0.05	0.04	0.010	1.20	0.01	0.01	1.2	0.01	0.01	130	260	5200	16
	2018-01-12	Weekly monitoring requirement.		21.7	7.7	1660	4.3	180																									
	2018-01-17	Weekly monitoring requirement.		20.8	7.5	857	3.4	145																									
	2018-01-23	Weekly monitoring requirement.		21.7	7.7	1620	4.21	178																									
	2018-01-24			27.4	7.53	4665	2.75	5.3	53.7			592	127	94	22	1260	300	224	0.01	0.002	0.05	0.08	0.010	1.50	0.01	0.06	1.4	0.23	0.06			9200	13
	2018-01-31	Weekly monitoring requirement.		23.3	8.2	1068	2.55	168																									
	2018-02-07	Depth 4.7m		26.4	7.52	4786	4.83	28		26.3	5	681	136	101	25	1350	307	266	0.01	0.002	0.05	0.08	0.010	1.30	0.01	0.01	1.3	0.14	0.01				25
	2018-02-07	Weekly monitoring requirement.		20.9	7.8	3980	5.08	201																									
	2018-02-08	**Last day of first extraction campaign.**																															
	2018-03-08			25.1	7.91	4661	5.15	49		11.4		613	127	93	22	1190	249	241	0.03	0.002	0.05	0.01	0.010	1.20	0.01	0.06	1.1	0.01	0.06			1400	48
	2018-04-13			26.2	7.28	4564	7.17	166		0.7		609	131	97	22	1160	322	246	0.02	0.002	0.05	0.03	0.010	1.00	0.01	0.01	1	0.02	0.01			4970	10
	2018-05-31			19.6	8.09	3959	6.08	53		7.9	5	633	127	96	22	1300	311	273	0.01	0.002	0.05	0.01	0.010	0.70	0.01	0.03	0.7	0.06	0.03	50	80	20900	8
2018/209	2018-10-25			24.9	8.65	4541	6.87	79	10	14.8	5	690	121	101	22	1200	323	194	0.05	0.005	0.05	0.03	0.010	1.00	0.01	0.01	1	0.04	0.01	120	50	55600	13
	2018-12-03			27.5	8.81	5042	9.25	116	14	12.4		656	110	100	22	1320	300	180	0.04	0.001	0.05	0.02	0.01	1.2	0.01	0.01	1.2	0.06	0.01			418000	18
	2018-12-17			26.5	8.72	5054	9.71	18	6	10.8		686	107	99	23	1180	300	170	0.04	0.002	0.1	0.04	0.01	1.4	0.01	0.01	1.4	0.05	0.01			315000	32
	2019-01-15			28.9	8.5	4938	4.94	69.5	13	7.3	5	679	96	103	23	1320	302	137	0.03	0.001	0.05	0.02	0.01	1.2	0.01	0.01	1.2	0.05	0.01	90	150	105000	16
	2019-02-07			28.3	8.44	5156	7.62	-70.5	ND	3.1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	0.005	1.2	0.01	0.02	1.2	0.05	0.02			23200	8
	2019-02-21			28	8.36	5452	8.02	28.8	5	31.6		767	111	115	26	1390	331	154	0.03	0.002	0.05	0.01	0.001	1.1	0.01	0.01	1.1	0.01	0.01			3960	5
	2019-03-06			26.7	8.36	5335	9.04	16.2	5	0.6		721	110	110	24	1380	320	188	0.02	0.002	0.05	0.05	0.006	0.7	0.01	0.01	0.7	0.02	0.01			1040	7
	2019-03-21			27.7	8.46	5954	5.74	-94.8	5	3.21		745	110	112	26	1290	293	162	0.03	0.002	0.05	0.02	0.001	1	0.01	0.01	1	0.01	0.01			12100	9
	2019-04-03			25	8.44	5291	4.91	197	10	7.8	5	746	126	114	24	1240	302	170	0.02	0.002	0.05	0.05	0.002	1.1	0.01	0.01	1.1	0.05	0.01	330	270	27500	9
	2019-05-01			23.2	8.19	4553	7.72	-62	5	6.1		800	127	119	25	1300	294	188	0.01	0.002	0.05	0.02	0.001	0.9	0.01	0.01	0.9	0.04	0.01			63600	10
	2019-06-05			18.4	7.7	4147	7.4	73	6	-9.7		710	128	110	24	1270	306	224	0.01	0.002	0.05	0.03	0.002	1.4	0.02	0.04	1.3	0.36	0.06			11900	11
2019/2020	2019-07-03			19.7	8.39	6587	7.05	87	5	1.8	5	733	125	108	24	1280	249	224	0.01	0.001	0.05	0.01	0.001	1.3	0.02	0.14	1.1	0.14	0.16	50	40	19800	10
	2019-07-31			18.4	8.39	7215	6.6	95.8	5	9.1		702	125	110	24	1330	304	212	0.01	0.001	0.05	0.02	0.001	1.1	0.01	0.11	1	0.01	0.11			27600	7
	2019-09-03			20.8	7.4	5514	9.5	116.4	5	9.6		738	124	111	23	1340	333	175	0.01	0.001	0.05	0.02	0.001	1.1	0.01	0.01	1.1	0.03	0.01			33200	14
	2019-10-02			24.5	8.55	5283	5.9	95.3	5	5.3	5	754	129	113	24	1390	312	194	0.01	0.002	0.05	0.01	0.001	1.1	0.01	0.01	1.1	0.01	0.01	60	40	38400	10
	2019-11-06			22.7	8.5	4938	8.8	126.8	5	5.4		734	106	109	25	1290	318	187	0.02	0.002	0.05	0.02	0.001	1.2	0.01	0.01	1.2	0.02	0.01			100000	15
	2020-01-15	pH meter calibration issue - spurious data.		27.2	13.4*	5864	8	54.2	5	3		846	118	126	28	1400	316	163	0.02	0.001	0.05	0.01	0.001	1	0.01	0.01	1	0.02	0.01	120	80	5	9
	2020-04-28	Land-based extraction commenced 16/04/20.		24.2	8.21	3530	8.83	48.8	5	-2.4	5	531	64	78	18	1000	187	130	0.01	0.002	0.05	0.01	0.001	0.7	0.01	0.01	0.7	0.01	0.01	20	80	4260	3
2020/2021	2020-07-07	Clear.		16.7	6.4	3560	9.3	132	5	2.1	5	590	87	89	20	1020	216	174	0.01	0.002	0.05	0.01	0.005	0.9	0.01	0.02	0.9	0.16	0.02	70	10	5360	
	2020-08-12	Clear		17.8	8.03	3871	10.4	93	5	8.1	5	552	89	85	19	1030	183	165	0.02	0.002	0.05	0.03	0.001	1	0.01	0.04	1	0.05	0.05	20	30	36000	9
	2020-09-16			21.5	8.4	3639	10.5	137	8	95	5	572	87	85	19	1080	191	148	0.01	0.002	0.05	0.02	0.001	0.9	0.01	0.01	0.9	0.11	0.01	10	10	20500	11
	2020-10-14			23.7	8.38	3497	9.7	86.1	5	10.8	5	573	97	84	20	1030	230	141	0.03	0.002	0.05	0.02	0.001	0.8	0.01	0.01	0.8	0.01	0.01			6380	6
	2020-11-11			24.2	8.25	3687	9.35	87.9	5	2.9		549	88	82	19	1040	235	142	0.03	0.002	0.05	0.01	0.001	0.8	0.01	0.01	0.8	0.03	0.01	10	130	915	6
	2021-02-24	Clear		26.6	8.12	3047	8.35	-180.1	5	4		440	77	67	16	903	195	126	0.03	0.002	0.05	0.01	0.001	0.6	0.01	0.01	0.6	0.01	0.01	80	40	4000	5
	2021-06-10	Clear		18	8.05	2483	8.93	49.6	5	35.21		393	70	57	14	779	164	136	0.01	0.002	0.05	0.01	0.001	0.7	0.02	0.04	0.6	0.2	0.06	10	20	5	2
2021/2022	2021-10-20	Clear		23.95	8.41	2718	7.7	-93.4		2.1	NV											0.01	0.002	0.5	0.01	0.01	0.5	0.01	0.01			180	2
	2022-01-25			27.44	8.36	2148	6.55	-113.1		14	NV	338	73	47	12	654	141	120	0.02	0.001	0.05	0.01	0.001	0.5	0.01	0.04	0.5	0.02	0.04			355	2
	2022-02-22	Clear		28.93	8.67	1998	6.65	-125.6		12	NV											0.02	0.002	0.7	0.01	0.01	0.7	0.03	0.01			20400	1
	2022-04-27	Cloudy		22.94	6.94	236	6.43	-39.1		45	NV	46	13	6	3	71	21	35	0.01	0.001	0.05	0.1	0.003	0.8	0.01	0.16	0.6	0.01	0.16			5	5
	2022-05-23	Due to major flood event, high rainfall, and poor drainage the site was deemed inaccessible to undertake sampling during May 2022.																															
	2022-06-22	Due to previous major flood events, ongoing rain and slow drainage, the site was deemed inaccessible to undertake sampling during June 2022.																															

2022/2023	2022-07-27	Cloudy		16.16	7.46	415	6.02	128.6		**627**												0.29	0.002	1.4	0.01	0.32	1.1	0.01	0.32				
	2022-08-31	Cloudy, Very Turbid		20.37	7.59	351	6.93	211.3		**413**		52	24	7	3	89	30	49	0.01	0.001	0.05	0.18	0.001	1.3	0.01	0.43	0.9	0.02	0.43			5	**12**
	2022-09-28	Cloudy, Turbid		21.64	7.55	420	6.86	-80.2		**309**												0.15	0.005	1.3			0.9	0.01	0.37				
	2022-10-26	Cloudy, Turbid		26.8	7.75	457	**4.77**	106.4														0.11	0.003	1.3	0.01	0.39	0.9	0.01	0.39			5	2
	2022-11-29	Cloudy, Turbid		23.42	7.82	497	**4.37**	85.5		**201**		49	37	7	4	86	36	64	0.01	0.001	0.05	0.15	0.005	1.8	0.01	0.45	1.3	0.01	0.45			5	**22**
	2023-01-23	Cloudy, Turbid		26.6	7.37	539	7.94	79.06		**79.15**												0.05	0.001	1.2			0.8	0.01	0.42			5	5
	2023-02-23	Cloudy, Turbid		25.9	6.63	548	7.29	153.7		**54.04**		48	43	7	4	84	41	71	0.01	0.001	0.05	0.03	0.001	1	0.01	0.39	0.6	0.02	0.39			5	4
	2023-03-29	Cloudy, Turbid, Frothin on shore		26.1	8.24	541	**3.12**	-56.1		**86.8**												0.03	0.001	0.7			0.4	0.01	0.31			5	5
	2023-04-27	Cloudy, Turbid		21.5	8.01	559	8.19	-42.1		**95.5**												0.04	0.003	0.9	0.01	0.34	0.6	0.02	0.34			5	2
	2023-05-30	Cloudy, Turbid		18.84	7.63	586	6.47	-46.2		**75.2**												0.03	0.001	0.9	0.01	0.41	0.5	0.01	0.41			5	1
	2023-06-28	Cloudy, Turbid		16.99	7.7	602	**4.82**	-44.7		**82.9**		58	44	10	5	98	55	90	0.01	0.001	0.05	0.06	0.003	1.2	0.01	0.38	0.8	0.07	0.38			5	2
2023/2024	2023-07-31	Cloudy, Turbid		18.62	8.1	604	**5.85**	-72.6		**71.63**												0.04	0.001	1	0.01	0.36	0.6	0.02	0.36			5	4
	2023-08-23	Cloudy, Turbid		21.97	8.05	893	**3.81**	-74.8		**23.9**												0.02	0.001	0.8	0.01	0.35	0.5	0.02	0.35			5	3
	2023-09-20	Clear		21.85	8.06	1758	6.59	-70.7		7.2												0.01	0.001	0.8	0.04	0.31	0.4	0.02	0.35			5	1
	2023-10-25	Clear		25.72	8.2	2332	9.62	-72.3		12.7		275	106	50	14	564	244	136	0.03	0.001	0.05	0.02	0.001	0.8	0.01	0.3	0.5	0.08	0.31			5	2
	2023-11-22	Clear		26.12	8.2	2315	9.81	-84.4		6.5												0.06	0.001	0.8			0.6	0.02	0.25			5	4
	2023-12-19	Clear	7	30.01	8.33	2996	6.49	-90.3		6.9		426	139	72	18	758	312	166	0.01	0.001	0.05	0.01	0.004	0.5	0.01	0.01	0.5	0.55	0.01			5	10
	2024-02-21	Clear		28.77	8.38	3487	6.03	-82.1		4.5		470	142	70	19	906	324	160	0.01	0.001	0.05	0.01	0.001	0.3	0.01	0.01	0.3	0.01	0.01			1240	2
	2024-03-28	Clear		25.52	8.35	3656	**4.88**			5.2												1.29	0.001	0.6	0.01	0.01	0.6	0.02	0.01			5	10
	2024-04-22	Clear		23.55	8.41	3881	**5.36**	-88.5		7.3												0.03	0.003	0.5	0.01	0.01	0.5	0.05	0.01			605	10
	2024-05-21	Clear		20.07	8.27	3079	7.77	-77.5		3.7												0.01	0.002	0.4	0.01	0.01	0.4	0.04	0.01			160	**18**
	2024-06-24	Clear	7.5	17.99	8.13	4877	7.99	-73.4		6.7		702	155	109	25	1290	405	190	0.01	0.001	0.05	0.05	0.001	0.6	0.01	0.01	0.6	0.09	0.6			160	**11**
2024/2025	2024-07-23	Clear	8	20.0	8.10	5386	7.69	-72.9		3.9												0.01	0.001	0.4	0.04	0.01	0.4	0.07	0.40				
	2024-08-26	Clear	7.5	22.9	8.23	5270	7.33	-93.1		2.3												0.01	0.001	0.5	0.02	0.01	0.5	0.02	0.02				
	2024-09-24	Clear	7	22.65	8.26	5572	8.09	-97.5		3.7												0.01	0.002	0.6	0.02	0.03	0.5	0.01	0.05				
	2024-10-23	Clear	0.7	23.8	6.96	5024	9.58	95.5		0.49		666	137	108	25	**1400**	381	186	0.01	0.001	0.05	0.01	0.001	0.5	0.01	0.01	0.5	0.01	0.01			665	6
	2024-11-19	Clear	0.75	25.87	7.8	5421	7.22	113.5		4.1												0.01	0.001	0.5	0.01	0.01	0.5	0.01	0.01			7700	**13**
	2025-01-21	Clear	0.75	27.21	7.96	5098	**5.37**	-56.1		2.1												0.16	0.001	0.5	0.01	0.01	0.5	0.01	0.01				
	2025-02-25	Clear	7.5	28.25	8.32	4797	**5.36**	-70.4		2.2		716	129	113	26	1370	347	173	0.01	0.001	0.05	0.01	0.001	0.5	0.01	0.01	0.5	0.01	0.01			1340	1
	2025-03-25	Clear	0.7	26.19	8.5	3435	**5.87**	-82.7		2.8												0.02	0.002	0.6	0.01	0.01	0.6	0.01	0.01			170	7
	2025-04-23	Clear	0.7	24.49	8.31	3479	6.59	-78.4		2.3												0.02	0.003	0.5	0.01	0.03	0.5	0.02	0.03			440	1
	2025-05-27	Clear	0.7	22.25	8.24	3372	6.26	-72.9		11.1		461	94	67	18	964	229	135	0.01	0.001	0.05	0.04	0.002	0.6	0.01	0.03	0.6	0.02	0.03			580	1
	2025-06-24	Clear	0.7	18.36	8.49	3503	**5.98**	-86.3		6.8												0.02	0.001	0.7	0.01	0.07	0.6	0.03	0.07			85	4
2025/2026	2025-07-24	Clear		17.52	8.4	3740	**5.52**	-84.1		6.8												0.02	0.001	0.4	0.01	0.03	0.4	0.01	0.04			100	7
	2025-08-19	Clear	0.7	17.37	7.95	4177	6.42	-74.5		6.7		574	95	81	21	1170	275	155	0.01	0.001	0.05	0.03	0.001	0.7	0.05	0.04	0.6	0.04	0.09			5	2
	2025-09-25	Clear	0.7	22.5	7.84	3762	9.03	143.8		0.57												0.02	0.002	0.5	0.01	0.01	0.5	0.03	0.01			5	1
	2025-11-04	Clear	0.7	25.89	8.23	3509	7.09	57.5		4.3												0.03	0.001	0.7	0.01	0.01	0.7	0.01	0.01			795	2
	2025-11-26	Clear	0.75	27.53	8.16	3493	**5.48**	-88.4		5.3												0.01	0.002	0.7	0.01	0.01	0.7	0.01	0.01			1780	7
	2025-12-17	Clear	0.75	26.3	7.89	4073	**4.28**	62.1		5.1		555	104	82	21	1140	240	162	0.01	0.002	0.05	0.03	0.001	0.7	0.01	0.01	0.7	0.02	0.01			25	2
	2026-01-20	Clear	0.75	27.56	7.99	4374	7.85	69.7		5																						40	2
	2026-02-24	Clear	0.75	28.24	7.76	4040	6.04	-69.7		1.5		642	115	91	24	1220	279	168	0.01	0.002	0.05	0.02	0.01	0.6	0.01	0.01	0.6	0.02	0.01			210	5
	2026-03-24	Clear	0.76	25.51	7.6	4181	**5.12**	-65.6		5.3																						5	1

Reporting Period (2025/2026)	**Average**	0.7	24.3	7.98	3928	6.31	-5.5	0.0	4.5	0.0	590.3	105	84.6667	22	1176.67	264.667	161.67	0.01	0.0017	0.05	0.02	0.00	0.61	0.02	0.02	0.60	0.02	0.03	0.0	0.0	329	3
	Maximum	0.8	28.2	8.40	4374	9.03	143.8	0.0	6.8	0.0	642	115	91	24	1220	279	168	0.01	0.002	0.05	0.03	0.01	0.70	0.05	0.04	0.70	0.04	0.09	0.0	0.0	1780	7
	Minimum	0.7	17.4	7.60	3493	**4.28**	-88.4	0.0	0.6	0.0	555	95	81	21	1140	240	155	0.01	0.001	0.05	0.01	0.00	0.40	0.01	0.01	0.40	0.01	0.01	0.0	0.0	5	1
All Results	**Average**	2.6	23.5	7.97	3109	6.25	47.0	8.7	**36.8**	5.0	557.15	104	84.4167	20	1038.65	251.375	168.75	0.02	0.0016	0.05	0.05	0.00	0.88	0.01	0.08	0.79	0.05	0.11	89.4	181.9	19344	8
	Maximum	8.0	30.8	8.81	**7215**	10.50	225.0	53.7	**627.0**	5.0	**846**	155	**126**	28	**1400**	405	273	0.05	0.005	0.10	1.29	0.01	1.80	0.05	0.45	1.50	0.55	0.60	330.0	1620.0	**418000**	**48**
	80th Percentile	7.3	26.9	8.37	4889	8.03	153.3	11.2	**32.3**	5.0	723.4	128	110	24	1322	318.4	224	0.03	0.002	0.05	0.05	0.01	1.20	0.01	0.12	1.10	0.05	0.31	126.0	216.0	20420	**12**
	Median (50th Percentile)	0.8	23.3	8.03	3493	6.26	62.8	5.0	6.9	5.0	610.5	110	93.5	22	1175	286	169	0.01	0.002	0.05	0.02	0.00	0.80	0.01	0.01	0.70	0.02	0.01	65.0	65.0	580	7
	20th Percentile	0.7	20.7	7.60	1093	**4.30**	-73.8	5.0	2.9	5.0	437.2	85	67	18	831.8	190.2	135.8	0.01	0.001	0.05	0.01	0.00	0.56	0.01	0.01	0.50	0.01	0.01	14.0	24.0	5	2
	Minimum	0.7	16.2	**6.40**	236	**0.19**	-180.1	5.0	-9.7	5.0	46	13	6	3	71	21	35	0.01	0.001	0.05	0.01	0.00	0.30	0.01	0.01	0.30	0.01	0.01	10.0	10.0	5	1

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data. NLM = No Longer Monitored
NV - Not visible

Site:	DP4		Physical									Major Cations & Anions							Metals			Nutrients									Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	*-*	*-*	*6.5-9.0*	*<6192*	*>6*			*<20*		*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*				*<50000*	*<10*
2023/2024	2023-07-31	New northern dredge pond location Cloudy, Turbid		20.31	7.92	686	**5.25**	-56.8		**116**		62	63	16	6	101	94	107	0.01	0.001	0.05	0.04	0.001	1.1	0.01	0.32	0.8	0.06	0.32			5	2
	2023-08-23	Cloudy, Turbid		22.55	7.7	1218	**3.99**	-54.4		**71.3**												0.02	0.001	1	0.01	0.31	0.7	0.11	0.31			900	2
	2023-09-20	Cloudy/Turbid, Frothing on bank		23.65	7.82	1740	9.77	-56.9		**22.9**												0.02	0.001	0.8	0.05	0.23	0.5	0.09	0.28			5	1
	2023-10-25	Clear		26.27	7.97	2632	9.47	-68.5		**20.1**		296	136	58	16	604	320	180	0.01	0.001	0.05	0.02	0.001	0.9	0.03	0.26	0.6	0.07	0.29			5	4
	2023-11-22	Cloudy, Turbid	0	26.43	7.75	2347	9.52	-54.3		13.7												0.07	0.001	0.9			0.7	0.04	0.24			5	5
	2023-12-19	Cloudy, Turbid	-3.5	30.2	8.05	2574	6.78	-75.7		12.4		337	141	63	16	625	334	186	0.01	0.001	0.05	0.01	0.004	0.6	0.01	0.01	0.6	0.01	0.01			5	**12**
	2024-02-21	Cloudy, Turbid		28.15	7.91	1591	6.73	-53.1		17.5		202	114	37	11	399	234	134	0.15	0.001	0.05	0.02	0.002	0.4	0.01	0.01	0.4	0.01	0.01			125	4
	2024-03-28	Cloudy, Turbid		23.81	8.21	2578	**4.55**			17.6												0.06	0.001	0.8	0.01	0.01	0.8	0.01	0.01			5	8
	2024-04-22	Cloudy, Turbid		22.51	7.8	1920	**5.05**	-53.8		**47.5**												0.04	0.004	0.7	0.01	0.01	0.7	0.06	0.01			5	7
	2024-05-21	Cloudy, Turbid		19.25	8.09	1408	8.7	-63.8		12.6												0.04	0.004	1	0.01	0.01	1	0.02	0.01			750	9
	2024-06-24	Clear	-1	17.42	8.02	3428	9.57	-61.2		10.6		437	150	73	18	546	355	200	0.01	0.001	0.05	0.05	0.001	0.9	0.01	0.01	0.9	0.02	0.9			295	6
2024/2025	2024-07-23	Cloudy	4	16.3	8.18	3956	8.22	-72.6		4.6												0.03	0.009	0.6	0.02	0.01	0.6	0.01	0.90			5	2
	2024-08-26	Cloudy		23.9	8.49	2850	7.63	-109.1		9.1												0.01	0.001	0.7	0.01	0.01	0.7	0.02	0.01			5	2
	2024-09-24	Cloudy	-1	23.91	8.21	3638	7.81	-94.5		8.4												0.02	0.003	0.7	0.01	0.01	0.7	0.03	0.01			80	4
	2024-10-23	Cloudy	-0.1	24.6	7.58	2346	9.51	115.7		5.63		279	90	49	13	565	202	128	0.07	0.001	0.05	0.01	0.001	0.5	0.01	0.01	0.5	0.01	0.01			7940	10
	2024-11-19	Cloudy	-0.2	25.6	7.45	2199	7.12	92.4		9.3												0.01	0.003	0.6	0.01	0.01	0.6	0.03	0.01			4680	8
	2025-01-21	Slightly Cloudy		29.6	8.03	1189	6.01	-60.6		9.2												0.05	0.001	0.9	0.01	0.01	0.9	0.03	0.01			**131000**	2
	2025-02-25	Slightly Cloudy	0.1	27.4	8.32	2313	**5.95**	-68.9		9.9		305	78	50	12	642	184	120	0.01	0.001	0.05	0.01	0.001	0.8	0.01	0.01	0.8	0.01	0.01			**236000**	2
	2025-03-25	Slightly Cloudy		26.0	8.72	2364	6.67	-94.8		9.9												0.03	0.003	0.9	0.01	0.09	0.8	0.01	0.09			21200	**28**
	2025-04-23	Slightly Cloudy	0.45	24.5	8.53	2217	6.89	-84.6		10.3												0.03	0.001	0.7	0.01	0.02	0.7	0.03	0.02			3060	7
	2025-05-27	Clear	-0.1	22.6	8.23	1941	7.13	-72.7		**26.6**		235	81	35	11	516	160	126	0.01	0.001	0.05	0.04	0.001	0.8	0.04	0.01	0.8	0.02	0.01			2760	3
	2025-06-24	Clear	0	19.2	8.33	2375	**5.40**	-79.2		**24.7**												0.02	0.001	0.7	0.01	0.02	0.7	0.01	0.02			855	**15**
2025/2026	2025-07-24	Clear		17.7	8.41	2652	6.64	-82.5		6.8												0.03	0.002	0.6	0.01	0.01	0.6	0.01	0.01			240	**24**
	2025-08-19	Clear	0.2	17.4.3	7.95	3259	**5.22**	-70.9		0.2		411	100	60	17	873	246	176	0.01	0.001	0.05	0.04	0.003	0.6	0.02	0.01	0.6	0.02	0.01			645	6
	2025-09-25	Slightly Cloudy	0.35	21.8	8.28	2885	9.95	90.5		1.1												0.03	0.003	0.6	0.01	0.01	0.6	0.03	0.01			10700	2
	2025-11-04	Slightly Cloudy	0.3	26.4	8.12	2807	7.64	-16.5		15.5												0.03	0.001	0.9	0.01	0.01	0.9	0.01	0.01			**108000**	7
	2025-11-26	Slightly Cloudy	0.25	27.7	8.25	2796	**5.78**	-92.8		**32.2**												0.09	0.02	0.6	0.01	0.01	0.6	0.01	0.01			**200000**	**21**
	2025-12-17	Slightly Cloudy	0	25.8	8.32	3222	**3.98**	-2.9		17.9		423	107	65	17	868	207	167	0.02	0.001	0.05	0.04	0.002	1.0	0.01	0.01	1.0	0.06	0.01			38900	4
	2026-01-20	Slightly Cloudy	-0.1	27.6	7.64	3583	**4.83**	-64.6		7.7																						17800	5
	2026-02-24	Slightly turbid	0.2	29.1	8.55	2998	7.79	-112.8		13.8		470	107	68	19	916	235	165	0.02	0.002	0.05	0.02	0.01	0.8	0.01	0.01	0.8	0.04	0.01			5	2
	2026-03-24	Slightly turbid	0.25	24.9	7.84	2188	**4.78**	-70.1		**30.5**																						380	2

Reporting Period (2025/2026)	**Average**	0.2	25.1	8.15	2932	6.29	-47.0	0.0	14.0	0.0	434.6667	105	64.3	18	885.7	229.3333	169.3	0.02	0.001333	0.05	0.04	0.01	0.73	0.01	0.01	0.73	0.03	0.01	0.0	0.0	41852	8
	Maximum	0.4	29.1	8.55	3583	9.95	90.5	0.0	**32.2**	0.0	470	107	68	19	916	246	176	0.02	0.002	0.05	0.09	0.02	1.00	0.02	0.01	1.00	0.06	0.01	0.0	0.0	**200000**	**24**
	Minimum	-0.1	17.7	7.64	2188	**3.98**	-112.8	0.0	0.2	0.0	411	100	60	17	868	207	165	0.01	0.001	0.05	0.02	0.00	0.60	0.01	0.01	0.60	0.01	0.01	0.0	0.0	5	2
All Results	**Average**	0.0	24.2	8.09	2448	6.91	-51.7	0.0	19.9	0.0	314.3	106	52.2	14	605.0	233.7	153.5	0.03	0.001091	0.05	0.03	0.00	0.76	0.01	0.05	0.71	0.03	0.12	0.0	0.0	25366	7
	Maximum	4.0	30.2	8.72	3956	9.95	115.7	0.0	**116.0**	0.0	470	150	73	19	916	355	200	0.15	0.002	0.05	0.09	0.02	1.10	0.05	0.32	1.00	0.11	0.90	0.0	0.0	**236000**	**28**
	80th Percentile	0.3	27.6	8.33	3132	9.16	-53.2	0.0	**25.8**	0.0	431.4	139	66.8	18	871	328.4	183.6	0.05	0.001	0.05	0.04	0.00	0.90	0.01	0.03	0.80	0.06	0.28	0.0	0.0	19840	10
	Median (50th Percentile)	0.0	24.6	8.09	2375	6.78	-66.6	0.0	12.6	0.0	305	107	58	16	604	234	165	0.01	0.001	0.05	0.03	0.00	0.80	0.01	0.01	0.70	0.02	0.01	0.0	0.0	645	5
	20th Percentile	-0.2	20.6	7.81	1812	**5.12**	-84.2	0.0	8.0	0.0	215.2	79	35.8	11	445.8	169.6	122.4	0.01	0.001	0.05	0.02	0.00	0.60	0.01	0.01	0.60	0.01	0.01	0.0	0.0	5	2
	Minimum	-3.5	16.3	7.45	686	**3.98**	-112.8	0.0	0.2	0.0	62	63	16	6	101	94	107	0.01	0.001	0.05	0.01	0.00	0.40	0.01	0.01	0.40	0.01	0.01	0.0	0.0	5	1

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data. NLM = No Longer Monitored
NV - Not visible

Site: DP1-1			Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	-	-	*6.5-9.0*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*		*<1000/100*	*<230/100*	*<50000*	*<10*
Pre - Extraction	2017-09-04			21.5	8.44	824	7.01	121	5	**3.9**		129	33	20	8	236	56	98	0.05	0.001	0.06	0.01	0.01	0.4	0.01	0.01	0.4	0.02	0.01	10	10	5	1
	2017-10-05			24	7.51	819	**4.51**	54.4	62	**149**		98	46	17	7	179	39	128	0.07	0.001	0.06	0.15	0.01	0.9	0.01	0.03	0.9	0.16	0.03	480	840		
2017/2018	2017-10-30	**Commencement of extraction**																															
	2017-11-28			26.9	7.65	3066	**3.11**	19.4	53	**85**		456	110	72	18	877	281	237	0.01	0.001	0.05	0.08	0.01	1.4	0.01	0.01	1.4	0.29	0.01	180	100		
	2018-01-11			30.6	8.01	3997	**2.16**	-2	10	**22.1**	5	624	135	96	24	1100	224	239	0.01	0.002	0.05	0.05	0.01	1.2	0.01	0.01	1.2	0.02	0.01	60	120		
	2018-01-24			27.5	7.51	4693	**2.88**	37.3		**53.6**																							
	2018-05-31			19.5	8.12	3959	**5.19**	61		6.9	5	627	128	95	22	1280	290	274	0.01	0.002	0.05	0.02	0.01	0.7	0.01	0.03	0.7	0.06	0.03	40	80	16800	8
	2018-02-07			26.4	7.72	4894	**5.17**	27.8		17.8	5	766	153	114	27	1350	308	263	0.01	0.002	0.05	0.08	0.01	1.3	0.01	0.01	1.3	0.11	0.01	90	80		
	2018-02-08	**Last day of first extraction campaign.**																															
2018 / 2019	2018-10-25			24.9	8.62	4559	**5.93**	80	7	13.8	5	680	121	102	22	1220	334	193	0.05	0.005	0.05	0.03	0.01	1	0.01	0.01	1	0.05	0.01	90	50		
	2019-01-15			28.9	8.56	4899	**4.85**	13.5	5	8	5	693	98	104	24	1320	288	139	0.03	0.002	0.05	0.02	0.01	1.2	0.01	0.01	1.2	0.05	0.01	190	370		
	2019-04-03			24.6	8.44	5300	**4.84**	96.9	8	7.5	5	735	125	112	24	1240	298	173	0.03	0.002	0.05	0.04	0.002	1.2	0.01	0.01	1.2	0.04	0.01	340	160		
2019 / 2020	2019-07-03			18.7	8.49	**6553**	**5.75**	85	5	4.4	5	729	125	110	24	1270	248	221	0.01	0.001	0.05	0.02	0.001	1.1	0.01	0.12	1	0.13	0.13	100	140		
	2019-10-02			24.2	8.8	5286	6.5	65.9	5	7.7	5	758	131	115	25	1380	315	189	0.01	0.002	0.05	0.02	0.001	0.9	0.01	0.01	0.9	0.01	0.01	10	10		
	2020-01-15	Aquatic birds present. Cattle present. Low water level. pH meter calibration issue - spurious data		28.4	**10.2***	5940	8	82.3	5	3		**838**	122	**121**	28	**1410**	316	164	0.01	0.001	0.05	0.02	0.002	1.1	0.01	0.01	1.1	0.03	0.01	350	270		
2020/2021	2020-07-07	Clear.		16.8	**6.4**	3694	9.1	121	5	2.6	5	602	87	90	20	1020	195	183	0.01	0.002	0.05	0.02	0.007	1	0.01	0.04	1	0.104	0.04	120	10		
	2020-08-12	Clear		18	8.3	3490	10.5	90	5	6.6	5	552	91	85	19	1020	185	162	0.01	0.001	0.05	0.29	0.001	1	0.01	0.04	1	0.04	0.05	20	10		
	2020-09-16			21.4	8.41	3640	10.71	94.5	6	**60.1**	5	565	87	83	18	1080	193	149	0.03	0.002	0.05	0.02	0.001	0.8	0.01	0.01	0.8	0.01	0.01	10	10		
	2020-10-14			24.5	8.63	3510	9.78	67.6	5	15.3	5	566	98	83	20	1040	230	139	0.03	0.002	0.05	0.02	0.001	0.8	0.01	0.01	0.8	0.02	0.01				6
	2020-11-11			24.6	8.44	3691	9.5	77.4	5	2.4		534	86	80	18	1050	238	145	0.03	0.002	0.05	0.01	0.001	0.7	0.01	0.01	0.7	0.01	0.01	70	240		
	2021-02-24	Clear		26.7	8.34	3053	8.56	20.5	5	4.8		439	78	66	16	905	195	126	0.03	0.002	0.05	0.01	0.007	0.7	0.01	0.01	0.7	0.01	0.01	220	180		
	2021-06-10	Clear		17.5	8.04	2456	8.79	53.1	5	3.75		400	72	58	14	767	166	136	0.01	0.002	0.05	0.01	0.001	0.7	0.02	0.04	0.6	0.18	0.06	20	40		
2021/2022	N/A																																
2022/2023	2022-08-31	Cloudy, Very Turbid		18.59	7.64	353	6.79	212.4		**428**		53	24	7	3	88	30	50	0.01	0.001	0.05	0.16	0.004	1.1	0.01	0.43	0.7	0.01	0.43			5	10
	2023-02-23	Cloudy, Turbid		27	6.5	568	7.5	200.3		**57.64**		49	43	7	4	84	42	71	0.01	0.001	0.05	0.04	0.001	1	0.01	0.41	0.6	0.02	0.41			5	4
2023/2024	2024-02-21	Clear		29.53	8.38	3499	**5.49**	-81.8		4.9		492	152	73	20	891	326	160	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.02	0.01			1240	2
2025/2026	2025-10-08	Clear		24.38	8.31	3908	**3.56**	135.3		2.9		576	103	84	22	1140	258	92	0.01	0.001	0.05	0.02	0.001	0.7	0.01	0.01	0.7	0.03	0.01			5	1
	2026-02-24	Clear		28.5	8.2	4057	**5.32**	-91.8		0.4		637	113	92	23	1220	278	165	0.01	0.002	0.05	0.01	0.01	0.6	0.01	0.01	0.6	0.01	0.01			**91200**	**14**

Reporting Period (2025/2026)	**Average**	-	26.4	8.31	3908	**3.56**	135.3	0.0	2.9	0.0	576	103	84	22	1140	258	92	0.01	0.001	0.05	0.02	0.001	0.7	0.01	0.01	0.7	0.03	0.01	0	0	5	1
	Maximum	-	28.5	8.31	3908	**3.56**	135.3	0.0	2.9	0.0	576	103	84	22	1140	258	92	0.01	0.001	0.05	0.02	0.001	0.7	0.01	0.01	0.7	0.03	0.01	0	0	5	1
	Minimum	-	24.4	8.31	3908	**3.56**	135.3	0.0	2.9	0.0	576	103	84	22	1140	258	92	0.01	0.001	0.05	0.02	0.001	0.7	0.01	0.01	0.7	0.03	0.01	0	0	5	1
All Results	**Average**	-	24.3	8.04	3732	6.49	70.1	12	**42.1**	5	538	101	81	19	987	227	165	0.02	0.002	0.05	0.05	0.005	1.0	0.01	0.06	0.9	0.06	0.06	141	159	3611	5
	Maximum	-	30.6	8.80	**6553**	10.71	212.4	62	**428.0**	5	**838**	153	**121**	28	**1410**	334	274	0.07	0.005	0.06	0.29	0.010	1.4	0.02	0.43	1.4	0.29	0.43	480	840	16800	10
	80th Percentile	-	28.2	8.50	4899	9.10	121.0	9	**57.6**	5	730	129	110	24	1288	309	224	0.03	0.002	0.05	0.08	0.010	1.2	0.01	0.04	1.2	0.11	0.05	244	246	10576	9
	Median (50th Percentile)	-	24.6	8.31	3693	6.22	72.5	5	7.6	5	566	98	84	20	1050	238	160	0.01	0.002	0.05	0.02	0.002	1.0	0.01	0.01	0.9	0.03	0.01	90	90	5	4
	20th Percentile	-	18.9	7.61	2456	**4.51**	20.5	5	3.8	5	346	67	50	13	661	144	120	0.01	0.001	0.05	0.01	0.001	0.7	0.01	0.01	0.7	0.01	0.01	18	10	5	1
	Minimum	-	16.8	**6.40**	353	**2.16**	-81.8	5	2.4	5	49	24	7	3	84	30	50	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.01	0.01	10	10	5	1

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data. NLM = No Longer Monitored

Site: DP1-2			Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
	Objectives		*-*	*-*	*6.5-9.0*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*		*<1000/100*	*<230/100*	*<50000*	*<10*
Pre-Extraction	2017-09-04			20.1	8.23	787	6.86	126	5	**1.9**		134	33	21	8	237	57	97	0.04	0.001	0.05	0.01	0.01	0.4	0.01	0.02	0.4	0.02	0.02	40	10	5	2
	2017-10-05			23	7.32	798	**3.32**	63.8	46	**166**		96	46	17	7	176	44	131	0.11	0.001	0.1	0.11	0.01	1.1	0.01	0.02	1.1	0.17	0.02	450	1010		
2017/2018	2017-10-30	**Commencement of extraction**																															
	2017-11-28			26.8	7.53	3048	**3.21**	19	53	**99**		454	108	72	18	878	198	238	0.01	0.001	0.05	0.09	0.01	1.4	0.01	0.01	1.4	0.3	0.01	60	130		
	2018-01-11			28.3	7.49	4114	**2.17**	-0.9	13	**23.2**	5	648	136	100	24	1130	281	242	0.01	0.002	0.05	0.05	0.01	1.4	0.01	0.01	1.4	0.31	0.01	30	50	5	8
	2018-01-24			27.4	7.5	4679	**2.31**	33		**70.2**		685	146	110	26	1250	301	223	0.01	0.002	0.05	0.07	0.01	1.4	0.01	0.01	1.4	0.12	0.01			12700	**30**
	2018-02-07			26.2	7.61	4903	6.96	21		**23.6**	5	693	138	102	25	1350	311	265	0.01	0.002	0.05	0.08	0.01	1.3	0.01	0.02	1.3	0.12	0.02	40	60		
	2018-02-08	**Last day of first extraction campaign**																															
	2018-03-08			24.8	7.89	4658	**3.29**	61		14.9		600	125	92	22	1180	229	240	0.03	0.002	0.05	0.01	0.01	1	0.01	0.02	1	0.01	0.02			2360	**29**
	2018-04-13			24.9	8.11	4663	6.7	113		7.1																						5160	7
	2018-05-31			19.4	8.12	3944	**5.95**	61		7.8	5	634	128	96	22	1270	290	270	0.01	0.002	0.05	0.01	0.01	0.8	0.01	0.05	0.7	0.07	0.05	40	90	14200	8
2018/2019	2018-10-25			24.7	8.61	4524	6.54	79	8	15.2	5	673	119	100	22	1230	329	196	0.05	0.005	0.05	0.04	0.01	1	0.01	0.01	1	0.03	0.01	120	50	38800	**13**
	2018-12-03			27.3	8.78	5056	8.53	67.7	13	9.6		643	110	99	22	1320	306	180	0.03	0.001	0.05	0.02	0.01	1.2	0.01	0.01	1.2	0.09	0.01			**299000**	**16**
	2018-12-17			26.2	8.61	5022	8.78	-11	9	9.6		686	106	99	23	1170	282	175	0.04	0.002	0.05	0.01	0.01	1.3	0.01	0.01	1.3	0.12	0.01			**199000**	**32**
	2019-01-15			29	8.55	4913	7.26	1.8	6	9.5	5	693	97	104	23	1310	300	135	0.03	0.002	0.05	0.02	0.01	1.2	0.01	0.01	1.2	0.04	0.01	180	170	**102000**	**16**
	2019-02-07			28.4	8.46	5153	7.75	-77.5	9	6.1		776	117	118	27	1350	314	162	0.02	0.002	0.05	0.02	0.005	1.2	0.01	0.01	1.2	0.02	0.01			17600	**12**
	2019-02-21			23.7	8.29	5351	7.98	-4.8	5	**22.5**		766	110	114	26	1380	345	154	0.03	0.002	0.05	0.01	0.001	1.1	0.01	0.01	1.1	0.05	0.01			3430	6
	2019-03-06			26.1	8.38	5268	8.95	-7.5	5	2.4		733	113	111	25	1360	321	189	0.02	0.002	0.05	0.05	0.005	0.8	0.01	0.01	0.8	0.01	0.01			955	7
	2019-03-21			27.8	8.63	5968	**5.77**	-106	8	3.22		732	110	111	25	1290	287	161	0.03	0.002	0.05	0.01	0.001	1	0.01	0.01	1	0.01	0.01			13100	9
	2019-04-03			24.9	8.43	5300	**4.23**	92	13	6.7	5	721	124	111	24	1240	301	177	0.03	0.001	0.05	0.03	0.001	1	0.01	0.01	1	0.04	0.01	120	110	29300	**11**
	2019-05-01			23.1	8.25	4518	8.14	19.6	5	4.5		726	120	110	24	1290	286	189	0.01	0.002	0.05	0.02	0.003	1	0.01	0.01	1	0.04	0.01			31400	**13**
	2019-06-05			17.9	7.8	4096	6.8	57.7	5	-9.8		724	133	115	26	1270	302	225	0.01	0.002	0.05	0.02	0.003	1.3	0.02	0.04	1.2	0.36	0.06			13200	**12**
2019 / 2020	2019-07-03			18.5	8.47	**6558**	**5.65**	85	5	1.6	5	706	123	106	24	1260	252	224	0.03	0.001	0.05	0.02	0.001	1.1	0.02	0.11	1	0.14	0.13	90	60	22000	**11**
	2019-07-31			17.9	8.54	**7123**	**5.65**	109.2	5	5.2		733	129	113	24	1340	312	217	0.01	0.001	0.05	0.02	0.001	1.1	0.01	0.11	1	0.01	0.11			30500	8
	2019-09-03			19.7	8.7	5468	7.3	127	5	7.3		780	127	**120**	25	1340	333	188	0.01	0.001	0.05	0.02	0.001	0.9	0.01	0.01	0.9	0.02	0.01			40300	8
	2019-10-02			24	8.8	5278	6	65.5	6	7.4	5	761	131	114	25	1370	308	190	0.01	0.002	0.05	0.02	0.001	1	0.01	0.01	1	0.01	0.01	40	20	**130000**	10
	2019-11-06	Aquatic birds present. Cattle present. Low water		22.7	8.5	4942	8.7	117.1	13	3.9		735	105	109	25	1320	319	186	0.02	0.002	0.05	0.02	0.001	1.1	0.01	0.01	1.1	0.03	0.01			**111000**	**13**
	2020-01-15	Aquatic birds present. Cattle present. Low water level. pH meter calibration issue - spurious data		27.4	**12.6***	5934	7.9	90.1	5	4.3		**831**	121	**123**	28	**1410**	315	162	0.01	0.002	0.05	0.01	0.002	1	0.01	0.01	1	0.03	0.01	350	460	5	8
2020/2021	2020-07-07	Clear.		16.8	**6.4**	3692	9.1	119	5	3	5	586	86	88	20	1010	217	175	0.01	0.002	0.05	0.01	0.004	1	0.01	0.04	1	0.24	0.04	80	10	7160	
	2020-08-12	Clear		17	8.3	3494	10.4	90	5	7.6	5	544	87	82	18	1030	182	170	0.01	0.002	0.05	0.11	0.001	1.2	0.01	0.04	1.1	0.04	0.05	20	10	20600	**12**
	2020-09-16			21	8.5	3633	10.72	95.7	5	**33.5**	5	570	88	84	19	1080	193	149	0.01	0.001	0.05	0.02	0.001	0.8	0.01	0.01	0.8	0.02	0.01	10	10	19600	9
	2020-10-14			23.5	8.72	3496	9.78	68.1	5	13.5	5	578	100	85	20	1040	231	142	0.02	0.002	0.05	0.02	0.001	0.8	0.01	0.01	0.8	0.01	0.01			11600	6
	2020-11-11			23.7	8.45	3675	9.49	76.6	5	2.9		551	88	82	19	1060	236	144	0.03	0.002	0.05	0.01	0.001	0.7	0.01	0.01	0.7	0.01	0.01	40	120	1260	6
	2021-02-24	Clear		26.6	8.37	3084	8.92	35.2	5	4.6		441	78	66	16	910	197	126	0.03	0.002	0.05	0.01	0.001	0.6	0.01	0.01	0.6	0.01	0.01	120	120	6260	5
	2021-06-10	Clear		17.3	8.03	2438	8.77	57.5		3.92		397	71	58	14	787	164	134	0.01	0.002	0.05	0.01	0.001	0.7	0.02	0.04	0.6	0.18	0.06	40	20	5	2
2021/2022	N/A																																
2022/2023	2022-08-31	Cloudy, Very Turbid		17.69	7.44	367	6.77	208.1		**448**		51	24	7	3	89	31	49	0.01	0.001	0.05	0.15	0.002	1.2	0.01	0.45	0.8	0.01	0.45			5	10
	2023-02-23	Cloudy, Turbid		26.4	7.1	553	7.24	220.4		**44.56**		50	43	8	4	86	42	71	0.01	0.001	0.05	0.04	0.002	1	0.01	0.38	0.6	0.01	0.38			5	3
2023/2024	2024-02-21	Clear		28.81	8.38	3520	**4.04**	-82.1		5.4		454	140	67	19	910	318	162	0.01	0.001	0.05	0.01	0.001	0.3	0.01	0.01	0.3	0.01	0.01			1240	2
Reporting Period (2023/2024)	**Average**		-	28.8	8.38	3520	**4.04**	-82.1	ND	5.4	ND	454	140	67	19	910	318	162	0.01	0.001	0.05	0.01	0.001	0.3	0.01	0.01	0.3	0.01	0.01	ND	ND	1240	2
	Maximum		-	28.8	8.38	3520	**4.04**	-82.1	ND	5.4	ND	454	140	67	19	910	318	162	0.01	0.001	0.05	0.01	0.001	0.3	0.01	0.01	0.3	0.01	0.01	ND	ND	1240	2
	Minimum		-	28.8	8.38	3520	**4.04**	-82.1	ND	5.4	ND	454	140	67	19	910	318	162	0.01	0.001	0.05	0.01	0.001	0.3	0.01	0.01	0.3	0.01	0.01	ND	ND	1240	2
All Results	**Average**		-	23.6	8.15	4167	6.89	58.1	10	**30.3**	5	588	105	89	21	1078	250	175	0.02	0.002	0.05	0.03	0.005	1.0	0.01	0.04	1.0	0.08	0.05	104	139	35871	**11**
	Maximum		-	29.0	8.80	**7123**	10.72	220.4	53	**448.0**	5	**831**	146	**123**	28	**1410**	345	270	0.11	0.005	0.10	0.15	0.010	1.4	0.02	0.45	1.4	0.36	0.45	450	1010	**299000**	**32**
	80th Percentile		-	27.4	8.60	5291	8.86	111.5	13	**23.4**	5	733	129	113	25	1340	315	224	0.03	0.002	0.05	0.05	0.010	1.2	0.01	0.04	1.2	0.14	0.05	132	138	39100	**13**
	Median (50th Percentile)		-	24.4	8.37	4591	7.10	64.7	5	7.4	5	673	110	100	23	1240	287	175	0.01	0.002	0.05	0.02	0.002	1.0	0.01	0.01	1.0	0.03	0.01	50	60	13100	9
	20th Percentile		-	18.9	7.55	3248	**4.80**	0.2	5	3.5	5	454	86	68	18	910	194	136	0.01	0.001	0.05	0.01	0.001	0.8	0.01	0.01	0.7	0.01	0.01	38	10	765	6
	Minimum		-	16.8	**6.40**	367	**2.17**	-106.0	5	-9.8	5	50	24	7	3	86	31	49	0.01	0.001	0.05	0.01	0.001	0.3	0.01	0.01	0.3	0.01	0.01	10	10	5	2

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data. NLM = No Longer Monitored

Site: DP1-3			Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	Electrical Conductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	-	-	*6.5-9.0*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*		*<1000/100*	*<230/100*	*<50000*	*<10*
Pre-Extraction	4/09/2017			19.1	8.05	769	6.02	125	6	3.4		130	33	21	8	236	57	96	0.04	0.001	0.05	0.01	0.01	0.5	0.02	0.01	0.5	0.02	0.03	20	20	5	2
	5/10/2017			22.8	7.03	743	**3.12**	76.6	48	**163**		96	48	17	7	174	43	134	0.01	0.001	0.05	0.09	0.01	1	0.01	0.02	1	0.19	0.02	400	**770**		
2017/2018	30/10/2017	**Commencement of extraction**																															
	28/11/2017			27.1	7.54	3053	**3.09**	18.1	88	**113**		456	110	72	18	881	221	244	0.01	0.001	0.05	0.14	0.01	1.6	0.01	0.09	1.5	0.3	0.09	170	120		
	13/12/2017			27.6	7.56	4703	**2.49**	31.1																									
	11/01/2018			27.9	7.45	4008	**1.07**	-14	12	**24.2**	5	640	133	99	24	1120	277	253	0.01	0.002	0.05	0.04	0.01	1.3	0.01	0.01	1.3	0.3	0.01	10	10		
	7/02/2018			27.7	7.53	4916	**4.54**	26		**39.5**	5	682	133	100	24	1370	309	262	0.01	0.002	0.05	0.07	0.01	1.2	0.01	0.02	1.2	0.21	0.02	10	30		
	8/02/2018	**Last day of first extraction campaign.**																															
	31/05/2018			19.3	8.12	3927	8.59	60.7			5	634	128	96	22	1270	284	270	0.01	0.002	0.05	0.01	0.01	0.7	0.01	0.03	0.7	0.08	0.03	30	90	25500	8
2018 / 2019	25/10/2018			22.3	8.58	4510	7.17	84	11	11.7	5	687	122	102	22	1240	330	200	0.05	0.005	0.05	0.03	0.01	1	0.01	0.01	1	0.02	0.01	40	10		
	15/01/2019			28.8	8.53	4894	**4.5**	24.1	8	9.8	5	698	98	105	24	1310	301	138	0.03	0.002	0.05	0.02	0.01	1.4	0.01	0.01	1.4	0.05	0.01	220	140		
	3/04/2019			24.9	8.42	5308	**4.53**	83	8	6.2	5	745	127	115	25	1200	288	181	0.03	0.002	0.05	0.02	0.001	1	0.01	0.01	1	0.04	0.01	190	190		
2019 / 2020	3/07/2019			18.2	8.42	6577	**5.41**	85	5	5.4	5	721	124	110	24	1270	252	227	0.01	0.001	0.05	0.01	0.001	1.1	0.02	0.11	1	0.14	0.13	40	90		
	2/10/2019			23.3	9.7	5262	6	59.8	5	5.5	5	765	132	115	25	1380	306	190	0.02	0.002	0.05	0.02	0.001	1	0.01	0.01	1	0.02	0.01	30	10		
2020/2021	7/07/2020	Clear.		16.7	6.4	3691	9	117	5	3.1	5	609	90	91	21	1020	199	178	0.02	0.002	0.05	0.01	0.004	0.9	0.01	0.04	0.9	0.19	0.04	70	10		
	12/08/2020	Clear		17.1	8.3	3494	10.4	89	5	8.2	5	537	89	83	18	1020	182	166	0.01	0.002	0.05	0.02	0.001	1	0.02	0.03	1	0.05	0.05	40	20		
	16/09/2020			20.8	8.49	3624	10.78	97.3	5	**27.63**	5	573	89	86	19	1090	191	151	0.01	0.001	0.05	0.04	0.002	0.8	0.01	0.01	0.8	0.01	0.01	170	910		
	14/10/2020			23.4	8.6	3501	9.26	89.6	5	13.8	5	562	92	83	20	1040	227	140	0.03	0.002	0.05	0.02	0.002	0.8	0.01	0.01	0.8	0.01	0.01				
	11/11/2020			23.2	8.42	3662	9.08	81.8	5	3		548	88	82	19	1060	236	147	0.03	0.002	0.05	0.01	0.005	0.8	0.01	0.01	0.8	0.01	0.01	40	80		
2021/2022	N/A																																
2022/2023	N/A																																
2025/2026	2025-10-08	Clear		22.93	8.04	3933	2.4	139.6		15.4		556	100	81	21	1130	258	77	0.01	0.001	0.05	0.02	0.001	0.7	0.01	0.03	0.7	0.04	0.03			5	1
	2026-02-24	Clear		27.29	7.97	4119	4.74	-77.6		3.4		651	119	94	23	1240	289	170	0.01	0.001	0.05	0.02	0.01	0.6	0.01	0.01	0.6	0.06	0.01			250	6

Pre-Extraction 2017/2018	**Average**	-	21.0	7.54	756	**4.57**	100.8	27	**83.2**	ND	113	41	19	8	205	50	115	0.03	0.001	0.05	0.05	0.010	0.8	0.02	0.02	0.8	0.11	0.03	210	395	5	2
	Maximum	-	22.8	8.05	769	6.02	125.0	48	**163.0**	ND	130	48	21	8	236	57	134	0.04	0.001	0.05	0.09	0.010	1.0	0.02	0.02	1.0	0.19	0.03	400	770	5	2
	Minimum	-	27.1	7.45	3053	**1.07**	-14.0	12	24.2	5	456	110	72	18	881	221	244	0.01	0.001	0.05	0.04	0.010	1.2	0.01	0.01	1.2	0.21	0.01	10	10	-	-
Reporting Period (2025/2026)	**Average**	-	25.1	8.01	4026.00	3.57	31.0	0	9.4	0	604	110	88	22	1185	274	124	0.01	0.001	0.05	0.02	0.006	0.7	0.01	0.02	0.7	0.05	0.02	0	0	128	4
	Maximum	-	27.3	8.04	4119.00	4.74	139.6	0	15.4	0	651	119	94	23	1240	289	170	0.01	0.001	0.05	0.02	0.010	0.7	0.01	0.03	0.7	0.06	0.03	0	0	250	6
	Minimum	-	22.9	7.97	3933.00	2.40	-77.6	0	3.4	0	556	100	81	21	1130	258	77	0.01	0.001	0.05	0.02	0.001	0.6	0.01	0.01	0.6	0.04	0.01	0	0	5	1
All Results	**Average**	-	23.2	8.06	3931	5.90	63.0	15	26.8	5	572	103	86	20	1058	236	179	0.02	0.002	0.05	0.03	0.006	1.0	0.01	0.03	1.0	0.10	0.03	99	167	6440	4
	Maximum	-	28.8	9.70	6577	10.78	139.6	88	163.0	5	765	133	115	25	1380	330	270	0.05	0.005	0.05	0.14	0.010	1.6	0.02	0.11	1.5	0.30	0.13	400	910	25500	8
	80th Percentile	-	27.6	8.53	4916	9.08	97.3	12	32.4	5	703	129	106	24	1278	302	246	0.03	0.002	0.05	0.05	0.010	1.2	0.01	0.03	1.2	0.19	0.04	186	180	25500	8
	Median (50th Percentile)	-	23.2	8.12	3933	5.41	81.8	6	9.8	5	622	105	93	22	1125	255	174	0.01	0.002	0.05	0.02	0.008	1.0	0.01	0.01	1.0	0.05	0.02	40	80	128	4
	20th Percentile	-	19.1	7.53	3494	3.09	24.1	5	3.4	5	521	89	79	18	992	189	137	0.01	0.001	0.05	0.01	0.001	0.7	0.01	0.01	0.7	0.02	0.01	22	10	5	1
	Minimum	-	16.7	6.40	743	1.07	-77.6	5	3.0	5	96	33	17	7	174	43	77	0.01	0.001	0.05	0.01	0.001	0.5	0.01	0.01	0.5	0.01	0.01	10	10	5	1

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data

Site:	DP1-4		Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	-	-	*6.5-9.0*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*		*<1000/100*	*<230/100*	*<50000*	*<10*
Pre-Ex	2017-09-04			17.9	7.95	746	**5.57**	125	7	4.8		131	33	20	8	234	57	97	0.05	0.001	0.06	0.01	0.01	0.4	0.02	0.02	0.4	0.04	0.04			5	2
	2017-10-05			22.7	7.06	777	**1.79**	81.1	61	**166**		90	46	17	6	173	43	134	0.01	0.001	0.05	0.1	0.01	1	0.01	0.02	1	0.2	0.02	290	850		
2017/2018	2017-10-30	**Commencement of extraction**																															
	2017-11-28			26.8	7.51	3072	**2.85**	17	2660	**102**		451	108	72	18	883	224	236	0.01	0.001	0.05	1.81	0.01	7.3	0.01	0.01	7.3	0.24	0.01	100	220		
	2017-12-13																																
	2018-01-11			28.1	7.42	4052	**0.68**	-20	7	**22**	5	636	134	100	24	1130	269	240	0.01	0.002	0.05	0.04	0.01	1.3	0.01	0.01	1.3	0.33	0.01	10	10	250	6
	2018-01-24			27.8	7.59	4729	**2.49**	23		**101**		681	146	108	25	1250	300	222	0.01	0.002	0.05	0.1	0.01	1.6	0.01	0.03	1.6	0.24	0.03			15900	**22**
	2018-02-07			25.3	7.57	4981	**4.57**	24		**58.7**	5	710	140	106	26	1380	308	260	0.02	0.002	0.05	0.07	0.01	1.2	0.01	0.02	1.2	0.2	0.02	70	70		
	2018-02-08	**Last day of first extraction campaign**																															
	2018-03-08			24.3	7.85	4651	**3.37**	53		14.2		602	127	93	22	1190	285	238	0.03	0.002	0.05	0.01	0.01	1	0.01	0.01	1	0.01	0.01			6120	**30**
	2018-04-13			24.9	8.1	4651	6.16	131		8.7																						3380	5
	2018-05-31			19.2	8.11	3931	**5.65**	60.3		7.7	5	629	129	95	22	1270	286	261	0.01	0.002	0.05	0.01	0.01	0.6	0.01	0.02	0.6	0.06	0.02	40	80	4980	8
2018/2019	2018-10-25			21.1	8.48	4493	**5.24**	88	6	11.7	5	674	121	102	22	1250	332	210	0.05	0.005	0.05	0.02	0.01	0.8	0.01	0.01	0.8	0.04	0.01	20	10	**62800**	**14**
	2018-12-03			25.8	8.52	5015	**5.15**	40.5	8	4.3		624	108	97	22	1310	305	201	0.03	0.001	0.05	0.02	0.01	1.1	0.01	0.01	1.1	0.06	0.01			**115000**	**15**
	2018-12-17			25.2	8.32	4925	**3.15**	-54	8	3.8		690	110	100	24	1180	289	176	0.03	0.002	0.05	0.01	0.01	1.2	0.01	0.01	1.2	0.05	0.01			**387000**	**30**
	2019-01-15			27.1	7.98	4657	**0.33**	-206.6	5	5.3	5	684	103	102	23	1290	301	190	0.02	0.002	0.05	0.04	0.01	1.1	0.01	0.01	1.1	0.05	0.01	10	20	9170	9
	2019-02-07			23.4	7.33	4450	**0.78**	-209.4	14	**33.4**		710	128	103	22	1250	286	264	0.02	0.002	0.19	0.02	0.005	1.1	0.01	0.01	1.1	0.05	0.01			225	**89**
	2019-02-21			24.8	7.63	5070	**0.91**	-219.7	5	**39.5**		765	111	114	25	1360	333	187	0.02	0.002	0.05	0.03	0.004	1.2	0.01	0.01	1.2	0.05	0.01			155	**18**
	2019-03-06			24.6	8.16	5090	6.35	-103	5	3.1		731	112	110	24	1350	306	206	0.02	0.002	0.05	0.05	0.005	0.6	0.01	0.01	0.6	0.01	0.01			760	**12**
	2019-03-21			26.8	8.42	5953	**4.18**	-34	5	3.22		752	111	113	26	1290	288	178	0.03	0.002	0.05	0.01	0.002	0.8	0.01	0.01	0.8	0.02	0.01			19500	6
	2019-04-03			24.5	8.41	5301	**4.46**	74.4	5	7.5	5	748	128	114	24	1230	292	181	0.02	0.002	0.05	0.02	0.003	1	0.01	0.01	1	0.06	0.01	110	120	24200	10
	2019-05-01			22.8	8.2	4491	7.64	7.9	5	4.6		783	131	**121**	26	1300	286	188	0.01	0.002	0.05	0.02	0.001	0.9	0.01	0.01	0.9	0.03	0.01			**65600**	**11**
	2019-06-05			17.8	7.8	4086	6.8	58.8	5	-9.8		714	128	112	25	1280	297	226	0.01	0.002	0.05	0.01	0.002	1.3	0.02	0.04	1.2	0.37	0.06			16600	10
2019/2020	2019-07-03			18.2	8.25	**6627**	**4.67**	85	5	2.9	5	733	127	110	24	1280	260	229	0.01	0.001	0.05	0.01	0.001	1.1	0.02	0.12	1	0.17	0.14	100	430	29400	7
	2019-07-31			17.5	8.25	**7103**	**4.89**	111.9	5	7.5		704	122	107	24	1340	311	231	0.01	0.001	0.05	0.02	0.001	1	0.01	0.14	0.9	0.04	0.14			20000	8
	2019-09-03			18.4	8.3	5479	**5.1**	137.6	5	5.7		741	125	112	24	1340	328	216	0.01	0.001	0.05	0.01	0.002	0.9	0.01	0.01	0.9	0.02	0.01			18700	9
	2019-10-02			20.5	8.2	5192	**3.2**	46.2	5	1.3	5	752	128	111	25	1330	296	230	0.01	0.002	0.05	0.01	0.001	0.8	0.01	0.01	0.8	0.01	0.01	10	10	6080	6
	2019-11-06	Aquatic birds present. Cattle present. Low water level		22.5	8.5	4917	8.4	98.1	6	5.9		739	106	109	25	1310	318	190	0.02	0.002	0.05	0.02	0.001	1.1	0.01	0.01	1.1	0.01	0.01			**155000**	**15**
	2020-01-15	pH meter calibration issue - spurious data.		26.7	**10***	5738	7.7	89.2	5	4		**833**	123	**124**	28	**1410**	322	164	0.01	0.001	0.05	0.02	0.005	1	0.01	0.01	1	0.01	0.01	420	140	5	10
Reporting Period (2021/2	2020-07-07	Clear.		16.6	**6.4**	3695	9	115	5	2.8	5	605	88	91	20	1020	197	175	0.01	0.002	0.05	0.01	0.004	0.9	0.01	0.04	0.9	0.15	0.04	40	10	6860	
	2020-08-12	Clear		16.8	8.2	3496	9.6	89	12	7.6	5	535	91	82	19	1020	182	166	0.01	0.002	0.05	0.02	0.001	1	0.01	0.04	0.9	0.06	0.05	50	10	43800	8
	2020-09-16			19.4	8.18	3629	8.41	108.1	5	**23.42**	5	575	88	85	19	1080	191	174	0.01	0.001	0.05	0.02	0.001	0.8	0.01	0.01	0.8	0.06	0.01	20	80	4170	**11**
	2020-10-14			21	8.41	3445	**5.64**	94.8	5	16.1	5	563	94	82	19	1030	224	171	0.01	0.002	0.05	0.02	0.001	0.7	0.01	0.01	0.7	0.01	0.01			2940	5
	2020-11-11			22.9	8.42	3659	8.96	75.1	5	3.1		544	87	81	19	1050	232	146	0.03	0.002	0.05	0.01	0.003	0.7	0.01	0.01	0.7	0.04	0.01	20	50	1560	7
	2021-02-24	Clear		25.7	8.31	3095	8.07	50.6	5	3.7		430	76	65	16	911	198	128	0.03	0.002	0.05	0.01	0.004	0.6	0.01	0.01	0.6	0.1	0.01	140	80	6390	7
	2021-06-10	Clear		17.4	8.04	2448	8.73	62.8		3.88		390	69	56	14	758	163	138	0.01	0.002	0.05	0.01	0.001	0.8	0.02	0.04	0.7	0.23	0.06	10	70	5	3
2021/2022	N/A																																
2022/2023	2022-08-31	Cloudy, Very Turbid		16.98	7.4	370	6.73	206.1		**371**		52	25	7	3	92	30	49	0.01	0.001	0.05	0.13	0.002	1.3	0.01	0.48	0.8	0.02	0.48			5	10
	2023-02-23	Cloudy, Turbid		26.2	6.92	556	6.92	243.9		**65.64**		48	43	7	4	85	42	71	0.01	0.001	0.05	0.04	0.002	0.9	0.01	0.39	0.5	0.02	0.39			5	2
2023/2024	2024-02-21	Clear		27.9	8.31	3541	**5.13**	-77.2		8.3		483	145	71	20	912	325	163	0.01	0.001	0.05	0.01	0.001	0.3	0.01	0.01	0.3	0.01	0.01			1240	3

Reporting Period (2023/2024)	**Average**	-	23.7	7.54	1489	6.26	124.3	NS	**148.3**	NS	194	71	28	9	363	132	94	0.01	0.001	0.05	0.06	0.002	0.8	0.01	0.29	0.5	0.02	0.29	NS	NS	417	5
	Maximum	-	27.9	8.31	3541	6.92	243.9	NS	**371.0**	NS	483	145	71	20	912	325	163	0.01	0.001	0.05	0.13	0.002	1.3	0.01	0.48	0.8	0.02	0.48	NS	NS	1240	10
	Minimum	-	17.0	6.92	370	**5.13**	-77.2	NS	8.3	NS	48	25	7	3	85	30	49	0.01	0.001	0.05	0.01	0.001	0.3	0.01	0.01	0.3	0.01	0.01	NS	NS	5	2
All Results	**Average**	-	22.7	7.96	4114	**5.26**	40.9	106	**31.2**	5	587	105	89	20	1073	249	187	0.02	0.002	0.05	0.08	0.005	1.1	0.01	0.05	1.1	0.09	0.05	86	133	31146	**13**
	Maximum	-	28.1	8.52	**7103**	9.60	243.9	2660	**371.0**	5	**833**	146	**124**	28	**1410**	333	264	0.05	0.005	0.19	1.81	0.010	7.3	0.02	0.48	7.3	0.37	0.48	420	850	**387000**	**89**
	80th Percentile	-	26.5	8.39	5151	7.92	110.4	8	**37.1**	5	741	128	112	25	1326	310	231	0.03	0.002	0.05	0.04	0.010	1.2	0.01	0.04	1.2	0.19	0.05	122	172	32280	**15**
	Median (50th Percentile)	-	23.2	8.16	4492	**5.20**	61.6	5	7.5	5	674	111	100	22	1250	286	188	0.01	0.002	0.05	0.02	0.004	1.0	0.01	0.01	0.9	0.05	0.01	40	70	6120	9
	20th Percentile	-	18.0	7.52	3235	**2.97**	-28.4	5	3.4	5	457	87	71	18	911	192	149	0.01	0.001	0.05	0.01	0.001	0.7	0.01	0.01	0.7	0.01	0.01	10	10	211	6
	Minimum	-	16.6	**6.40**	370	**0.33**	-219.7	5	-9.8	5	48	25	7	3	85	30	49	0.01	0.001	0.05	0.01	0.001	0.3	0.01	0.01	0.3	0.01	0.01	10	10	5	2

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data

Site:	DP1-5		Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	-	-	*6.5-9.0*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*		*<1000/100*	*<230/100*	*<50000*	*<10*
2017/2018	30/10/2017	**Commencement of extraction**																															
	11/01/2018			28.2	7.39	4020	**0.47**	-4.9	19	**26.1**	5	645	135	99	24	1120	229	245	0.01	0.002	0.05	0.05	0.01	1.4	0.01	0.01	1.4	0.35	0.01	40	50		
	24/01/2018			27.4	7.49	4671	**2.74**	36.7		**84**																							
	7/02/2018			25.5	7.48	4979	**4.08**	20		**112**	5	704	146	104	26	1370	309	268	0.11	0.002	0.3	0.09	0.01	1.2	0.01	0.02	1.2	0.18	0.02	60	60		
	8/02/2018	**Last day of first extraction campaign.**																															
	31/05/2018			19.3	8.11	3936	**5.07**	59.4		6.5	5	626	127	95	22	1280	282	270	0.01	0.002	0.05	0.01	0.01	0.7	0.01	0.03	0.7	0.07	0.03	30	90	22300	8
2018 / 2019	25/10/2018			20.5	8.44	4517	**5.22**	89	5	4.6	5	667	121	100	22	1250	338	214	0.05	0.005	0.05	0.02	0.01	0.8	0.01	0.01	0.8	0.03	0.01	10	30		
	15/01/2019			23.9	7.55	4302	**0.36**	-220	5	4.2	5	653	114	99	22	1270	290	232	0.01	0.002	0.08	0.02	0.01	0.8	0.01	0.01	0.8	0.05	0.01	20	150		
	3/04/2019			23.5	7.53	5451	**0.59**	-104.5	7	5.5	5	742	127	111	24	1240	293	180	0.03	0.002	0.05	0.02	0.001	1	0.01	0.01	1	0.04	0.01	120	100		
2019 / 2020	3/07/2019			17.9	8.1	6687	**2.46**	85	5	2.2	5	728	127	110	24	1320	257	232	0.01	0.001	0.05	0.01	0.001	1.3	0.02	0.1	1.2	0.29	0.12	330	360		
	2/10/2019			19.4	8	5221	**1.5**	36.4	5	2.6	5	764	132	117	25	1360	303	231	0.01	0.002	0.05	0.01	0.001	0.8	0.01	0.01	0.8	0.02	0.01	80	40		
2020/2021	7/07/2020	Clear.		16.7	6.4	3693	8.8	115	5	2.6	5	587	85	88	20	1020	196	174	0.01	0.002	0.05	0.01	0.004	1	0.01	0.04	1	0.14	0.04	50	20		
	12/08/2020	Clear		16.9	8.2	3499	9.5	89	5	7.8	5	544	89	82	19	1020	185	171	0.01	0.002	0.05	0.01	0.001	1	0.02	0.03	0.9	0.05	0.05	30	20		
	16/09/2020			18.1	7.75	3635	**5.86**	120	5	**24.61**	5	550	85	81	18	1080	192	177	0.01	0.001	0.05	0.02	0.001	0.7	0.01	0.01	0.7	0.01	0.02	10	20		
	14/10/2020			19.3	8.03	3442	**2.56**	47.8	5	**20.5**	5	569	95	84	19	1030	219	172	0.06	0.002	0.05	0.02	0.001	0.7	0.01	0.01	0.7	0.05	0.01				
	11/11/2020			22.1	8.11	3654	**4.61**	83	5	2.8		540	88	82	19	1040	231	159	0.02	0.002	0.05	0.01	0.001	0.7	0.01	0.01	0.7	0.01	0.01	20	100		
	24/02/2021	Clear		25.5	8.26	3095	7.48	52.2		5.1																							
2021/2022	N/A																																
2022/2023	N/A																																
2025/2026	2025-10-08	Slightly Turbid		21.71	7.8	3944	**1.15**	139.3		**57.9**		562	101	83	21	1110	257	75	0.01	0.001	0.05	0.04	0.001	0.9	0.01	0.08	0.8	0.07	0.08			5	2
	2026-02-24	Clear		26.4	7.84	4228	**2.42**	-69.6		8.3		668	119	97	24	1260	289	171	0.01	0.001	0.05	0.02	0.01	0.6	0.03	0.01	0.6	0.14	0.01			5	8
Reporting Period (2025/2026)	**Average**		-	24.1	7.82	4086	1.79	34.9	0	33.1	0	615	110	90	23	1185	273	123	0.01	0.001	0.05	0.03	0.006	0.8	0.02	0.05	0.7	0.11	0.05	0	0	5	5
	Maximum		-	26.4	7.84	4228	2.42	139.3	0	57.9	0	668	119	97	24	1260	289	171	0.01	0.001	0.05	0.04	0.010	0.9	0.03	0.08	0.8	0.14	0.08	0	0	5	8
	Minimum		-	21.7	7.80	3944	1.15	-69.6	0	8.3	0	562	101	83	21	1110	257	75	0.01	0.001	0.05	0.02	0.001	0.6	0.01	0.01	0.6	0.07	0.01	0	0	5	2
All Results	**Average**		-	21.9	7.79	4293	3.82	33.8	6	22.2	5	637	113	95	22	1185	258	198	0.02	0.002	0.07	0.02	0.005	0.9	0.01	0.03	0.9	0.10	0.03	67	87	7437	6
	Maximum		-	28.2	8.44	6687	9.50	139.3	19	112.0	5	764	146	117	26	1370	338	270	0.11	0.005	0.30	0.09	0.010	1.4	0.03	0.10	1.4	0.35	0.12	330	360	22300	8
	80th Percentile		-	25.9	8.15	5076	6.51	99.4	6	38.8	5	723	131	109	24	1312	301	242	0.05	0.002	0.05	0.04	0.010	1.2	0.02	0.04	1.2	0.17	0.05	96	120	ND	ND
	Median (50th Percentile)		-	21.7	7.84	4020	2.74	52.2	5	6.5	5	645	119	97	22	1240	257	180	0.01	0.002	0.05	0.02	0.001	0.8	0.01	0.01	0.8	0.05	0.01	35	55	5	8
	20th Percentile		-	18.0	7.49	3581	0.93	-30.8	5	2.7	5	552	88	82	19	1032	201	171	0.01	0.001	0.05	0.01	0.001	0.7	0.01	0.01	0.7	0.02	0.01	16	20	ND	ND
	Minimum		-	16.7	6.40	3095	0.36	-220.0	5	2.2	5	540	85	81	18	1020	185	75	0.01	0.001	0.05	0.01	0.001	0.6	0.01	0.01	0.6	0.01	0.01	10	20	5	2

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data

Site: DP1-6			Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	Electrical Conductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	-	-	*6.5-9.0*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*		*<1000/100*	*<230/100*	*<50000*	*<10*
2017/2018	2017-10-30	**Commencement of extraction**																															
	2018-01-24			27.4	7.47	4667	**2.09**	34.4		**95**		605	131	97	23	1250	302	220	0.01	0.002	0.05	0.08	0.01	1.5	0.01	0.01	1.5	0.21	0.01			33600	**21**
	2018-02-07			24.8	7.56	4858	**1.11**	23.1		10																							
	2018-02-08	**Last day of first extraction campaign.**																															
	2018-03-08			24.3	7.85	4651	**3.37**	53		14.2		630	133	96	23	1230	238	252	0.02	0.002	0.05	0.01	0.01	1	0.01	0.01	1	0.01	0.01			1220	**39**
	2018-04-13			24.9	8.09	4655	6.34	138		4.3																						5030	5
	2018-05-31			19.4	8.1	3942	**5.38**	59		7.1	5	630	127	95	22	1280	283	271	0.01	0.002	0.05	0.01	0.01	0.7	0.01	0.03	0.7	0.07	0.03	50	70	12900	8
2018/2019	2018-10-25			19.6	8.31	4531	**3.12**	82	5	3.1	5	710	124	105	23	1270	344	220	0.05	0.005	0.05	0.02	0.01	0.8	0.01	0.01	0.8	0.03	0.01	70	20	24100	8
	2018-12-03			21.6	7.79	5041	**2.31**	-130	10	2.3		637	122	100	22	1310	287	275	0.02	0.002	0.18	0.02	0.01	1	0.01	0.01	1	0.11	0.01			276000	8
	2018-12-17			23.4	7.99	4724	**1.5**	-130	5	2.1		654	122	95	23	1140	276	225	0.02	0.001	0.13	0.02	0.01	1	0.01	0.01	1	0.04	0.01			16900	5
	2019-01-15			21.8	7.42	4098	**0.3**	-276.5	5	2.3	5	648	121	98	22	1240	278	265	0.01	0.002	0.16	0.02	0.01	0.7	0.01	0.01	0.7	0.04	0.01	30	90	5	4
	2019-02-07			20.2	7.14	4332	**0.11**	-268.3	19	2.3		731	148	114	25	1270	274	302	0.01	0.002	0.05	0.01	0.005	1.4	0.01	0.01	1.4	0.56	0.01			75	2
	2019-02-21			20.6	7.07	4545	**0.45**	-219.7	5	16		728	137	111	25	1310	271	304	0.01	0.002	0.08	0.01	0.001	1.6	0.01	0.01	1.6	0.83	0.01			5	5
	2019-03-06			21.3	7.27	4701	**0.64**	-313	5	3.4		692	133	107	23	1320	196	342	0.01	0.002	0.05	0.05	0.005	2.6	0.01	0.01	2.6	1.43	0.01			5	4
	2019-03-21			24.4	7.69	6192	**0.56**	-53	5	3.37		751	120	115	26	1340	283	239	0.02	0.002	0.1	0.04	0.002	1.2	0.01	0.01	1.2	0.14	0.01			5	**14**
	2019-04-03			24	7.62	5477	**0.21**	-38.7	9	12.2	5	733	132	113	24	1260	311	217	0.02	0.002	0.13	0.04	0.003	1.2	0.01	0.01	1.2	0.04	0.01	60	80	2110	**46**
	2019-05-01			22.8	8.17	4511	7.4	-7.4	6	5.9		786	130	118	26	1310	287	187	0.02	0.002	0.05	0.02	0.001	0.9	0.01	0.01	0.9	0.03	0.01			6590	**11**
	2019-06-05			17.7	7.8	4071	6.9	63.5	5	-9.7		722	130	113	25	1280	294	218	0.01	0.002	0.05	0.01	0.003	1.4	0.02	0.04	1.3	0.38	0.06			17400	10
2019/2020	2019-07-03			18.1	8.13	**6676**	**2.41**	86	5	1.6	5	724	125	110	24	1300	255	234	0.01	0.001	0.05	0.01	0.001	1.2	0.02	0.1	1.1	0.33	0.12	260	210	580	5
	2019-07-31			17.5	8.18	**7141**	**1.92**	114.4	5	9.9		672	118	102	23	1320	313	232	0.01	0.001	0.05	0.02		1.1	0.01	0.12	1	0.19	0.12			1180	6
	2019-09-03			17.8	7.9	5473	**2.7**	153	5	2.7		730	123	110	23	1330	316	218	0.01	0.002	0.05	0.01	0.001	0.9	0.01	0.03	0.9	0.17	0.03			590	4
	2019-10-02			20.1	8	5207	**1.46**	5	5	1.3	5	736	129	112	24	1350	303	242	0.01	0.002	0.05	0.01	0.001	0.8	0.01	0.01	0.8	0.02	0.01	90	40	1180	2
	2019-11-06			18.8	7.8	4932	**1.5**	-154.9	5	-3.1		702	108	104	24	1250	281	256	0.01	0.002	0.13	0.02	0.001	1.2	0.01	0.01	1.2	0.42	0.01			1320	3
	2020-01-15	pH meter calibration issue - spurious data.		21.8	10.7*	4817	**1.3**	-162.4	5	12.9		791	124	119	27	1360	302	186	0.01	0.001	0.05	0.15	0.025	1.3	0.01	0.01	1.3	0.02	0.01	10	20	5	**149**
2020/2021	2020-07-07	Clear.		16.7	**6.4**	3691	9	114	5	2.7	5	596	87	90	20	1020	194	175	0.01	0.002	0.05	0.01	0.002	0.9	0.01	0.03	0.9	0.14	0.03	50	10	6780	
	2020-08-12	Clear		17	8	3529	7.8	93	5	11.5	5	547	89	82	19	1020	188	168	0.02	0.002	0.05	0.02	0.001	1	0.03	0.02	1	0.15	0.05	10	20	27700	5
	2020-09-16			17.5	7.54	3635	**3.38**	122.1	5	**20.94**	5	562	87	83	19	1080	192	177	0.01	0.001	0.05	0.02	0.001	0.8	0.02	0.01	0.8	0.09	0.02	10	10	3810	6
	2020-10-14			18.3	7.68	3431	**1.19**	-99.8	5	16.1	5	526	90	79	18	1020	216	176	0.02	0.002	0.05	0.01	0.001	0.8	0.01	0.01	0.8	0.25	0.01			360	8
	2020-11-11			19.3	7.73	3638	**2.33**	-109.5	5	5.2		541	86	82	19	1040	219	170	0.01	0.002	0.22	0.01	0.001	0.8	0.01	0.01	0.8	0.14	0.01	60	160	125	5
	2021-02-24	Clear		25.1	7.99	3173	**4.89**	55.6	5	5.7		450	80	68	16	936	199	136	0.02	0.002	0.05	0.01	0.001	0.7	0.01	0.01	0.7	0.02	0.01	60	20	5380	7
	2021-06-10	Clear		17.2	8.02	2431	8.51	63.1		3.95		403	72	58	15	774	168	134	0.01	0.001	0.05	0.01	0.001	0.8	0.02	0.04	0.7	0.2	0.06	10	60	5	1
2021/2022	N/A																																
2022/2023	2022-08-31	Cloudy, Very Turbid		16.68	7.4	363	6.51	205.1		**394**		50	24	7	3	90	31	50	0.01	0.001	0.05	0.14	0.002	1.2	0.01	0.46	0.7	0.01	0.46			5	10
	2023-02-23	Cloudy, Turbid		25.9	7.25	548	6.93	248.4		**61.67**		47	43	7	4	86	42	71	0.01	0.001	0.05	0.03	0.001	1	0.01	0.4	0.6	0.01	0.4			5	3
2023/2024	2024-02-21	Clear		27.79	8.29	3543	**4.74**	-76.5		8.2		460	142	68	19	910	330	164	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.02	0.01			1240	3
2025/2026	2025-10-08	Turbid		21.52	7.66	3851	**0.41**	129		**119**		566	102	83	21	1120	259	76	0.01	0.001	0.05	0.07	0.001	1.1	0.01	0.09	1	0.03	0.09			5	4

Reporting Period (2025/2026)	**Average**	-	27.8	8.29	3543	**4.74**	-76.5	NS	8.2	NS	460	142	68	19	910	330	164	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.02	0.01	NS	NS	1240	3
	Maximum	-	27.8	8.29	3543	**4.74**	-76.5	NS	8.2	NS	460	142	68	19	910	330	164	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.02	0.01	NS	NS	1240	3
	Minimum	-	27.8	8.29	3543	**4.74**	-76.5	NS	8.2	NS	460	142	68	19	910	330	164	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.02	0.01	NS	NS	1240	3
All Results	**Average**	-	21.1	7.73	4288	**3.39**	-10.2	6	**22.8**	5	606	111	92	21	1123	249	211	0.01	0.002	0.07	0.03	0.005	1.1	0.01	0.05	1.0	0.20	0.05	59	62	14394	**14**
	Maximum	-	27.8	8.31	**7141**	9.00	248.4	19	**394.0**	5	791	148	119	27	1360	344	342	0.05	0.005	0.22	0.15	0.025	2.6	0.03	0.46	2.6	1.43	0.46	260	210	276000	**149**
	80th Percentile	-	24.6	8.10	5107	6.67	114.2	5	14.9	5	731	132	113	25	1318	303	263	0.02	0.002	0.12	0.04	0.010	1.3	0.01	0.04	1.3	0.31	0.06	74	104	15300	**11**
	Median (50th Percentile)	-	20.4	7.80	4538	**2.37**	28.8	5	5.5	5	651	123	99	23	1255	277	219	0.01	0.002	0.05	0.02	0.002	1.0	0.01	0.01	1.0	0.13	0.01	50	40	1220	6
	20th Percentile	-	17.6	7.41	3537	**0.92**	-140.0	5	2.3	5	529	87	80	19	1020	194	168	0.01	0.001	0.05	0.01	0.001	0.8	0.01	0.01	0.7	0.02	0.01	10	18	5	3
	Minimum	-	16.7	**6.40**	363	**0.11**	-313.0	5	-9.7	5	47	24	7	3	86	31	50	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.01	0.01	10	10	5	1

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data

Site: DP1-8			Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	Electrical Conductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	-	-	*6.5-9.0*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*		*<1000/100*	*<230/100*	*<50000*	*<10*
2017/2018	2017-10-30	**Commencement of extraction**																															
	2018-02-07			25.7	7.55	4994	**4.64**	18		**153**																				40	80		
	2018-03-08			24.7	7.49	4973	**0.72**	15.3		7.4		633	134	97	23	1240	176	262	0.04	0.002	0.12	0.01	0.01	1.2	0.01	0.01	1.2	0.04	0.01			540	**26**
	2018-04-13			25	8	4656	6.03	102		6.9																						8790	6
	2018-02-08	**Last day of first extraction campaign.**																															
	2018-05-31			19.6	8.11	3968	**5.71**	57		7.7	5	633	129	95	22	1270	306	271	0.01	0.002	0.05	0.01	0.01	0.7	0.01	0.03	0.7	0.06	0.03	110	170	19100	9
2018/2019	2018-10-25			26.1	8.39	4586	**4.64**	78	5	4.6	5	677	122	101	22	1260	333	221	0.05	0.005	0.05	0.03	0.01	0.8	0.01	0.01	0.8	0.01	0.01	10	90	26000	**13**
	2018-12-03			22.8	8	5042	**4.02**	-111	8	5.2		633	116	99	22	1330	284	294	0.02	0.002	0.1	0.03	0.01	1.5	0.01	0.01	1.5	0.59	0.01			34800	8
	2018-12-17			21.3	7.62	4463	**0.64**	-162	5	1.4		640	118	93	22	1120	264	259	0.02	0.001	0.13	0.01	0.01	0.8	0.01	0.01	0.8	0.01	0.01			405	2
	2019-02-07																																
	2019-02-21	Hit Bottom																															
2019/2020	2020-01-15	pH meter calibration issue - spurious data.		19.6	**9.9***	4577	**1.1**	-246.3	5	3.5		759	132	111	25	1290	229	258	0.01	0.001	0.05	0.04	0.015	2.4	0.01	0.01	2.4	1.22	0.01	60	270	5	6
2020/2021	2020-07-07	Clear.		16.7	**6.4**	3692	8.8	116	5	3.2	5	608	88	91	20	1020	196	175	0.01	0.002	0.05	0.01	0.001	0.9	0.01	0.04	0.9	0.13	0.04	50	10	2680	
	2020-11-11			18	7.46	3625	**1.79**	-185.4	5	3.1		520	83	79	18	1060	212	207	0.01	0.002	0.11	0.01	0.002	1.4	0.01	0.01	1.4	0.17	0.01	40	190	5	2
	2021-02-24	Clear		20.9	7.19	3632	**0.9**	-233.7	5	14.6		517	91	80	19	1050	178	218	0.02	0.004	0.06	0.03	0.003	2.2	0.01	0.01	2.2	1.3	0.01	120	280	390	**34**
	2021-06-10	Clear		17.2	8.02	2434	8.57	62.6		3.97		402	71	58	15	774	170	139	0.01	0.002	0.05	0.01	0.001	0.7	0.02	0.04	0.6	0.2	0.06	10	20	5	1
2021/2022	N/A																																
2022/2023	2022-08-31	Cloudy, Very Turbid		16.7	7.22	371	6.57	205.5		**443**		52	26	7	4	92	31	49	0.01	0.001	0.05	0.17	0.003	1.4	0.01	0.44	1	0.01	0.44			5	10
	2023-02-23	Cloudy, Turbid		25.2	6.62	545	**5.47**	207.4		**106.23**		42	44	7	4	87	41	73	0.01	0.001	0.05	0.04	0.002	0.9	0.01	0.44	0.5	0.01	0.44			5	2
2023/2024	2024-02-21	Clear		27.69	8.28	3552	**4.37**	-76.2		6.8		466	139	69	18	905	331	167	0.01	0.001	0.05	0.02	0.001	0.4	0.01	0.01	0.4	0.02	0.01			1240	3
Reporting Period (2023/2024)	**Average**		-	27.7	8.28	3552	**4.37**	-76.2	NS	6.8	NS	466	139	69	18	905	331	167	0.01	0.001	0.05	0.02	0.001	0.4	0.01	0.01	0.4	0.02	0.01	NS	NS	1240	3
	Maximum		-	27.7	8.28	3552	**4.37**	-76.2	NS	6.8	NS	466	139	69	18	905	331	167	0.01	0.001	0.05	0.02	0.001	0.4	0.01	0.01	0.4	0.02	0.01	NS	NS	1240	3
	Minimum		-	27.7	8.28	3552	**4.37**	-76.2	NS	6.8	NS	466	139	69	18	905	331	167	0.01	0.001	0.05	0.02	0.001	0.4	0.01	0.01	0.4	0.02	0.01	NS	NS	1240	3
All Results	**Average**		-	21.8	7.54	3674	**4.26**	-10.2	5	**51.4**	5	506	99	76	18	961	212	199	0.02	0.002	0.07	0.03	0.006	1.2	0.01	0.08	1.1	0.29	0.08	55	139	6712	9
	Maximum		-	27.7	8.39	5042	8.80	207.4	8	**443.0**	5	759	139	111	25	1330	333	294	0.05	0.005	0.13	0.17	0.015	2.4	0.02	0.44	2.4	1.30	0.44	120	280	34800	**34**
	80th Percentile		-	25.6	8.04	4910	6.46	113.2	6	**87.9**	IS	647	132	99	22	1274	311	264	0.02	0.002	0.11	0.04	0.010	1.6	0.01	0.12	1.6	0.72	0.14	112	272	19100	**16**
	Median (50th Percentile)		-	21.3	7.55	3968	**4.64**	18.0	5	6.8	5	608	116	91	20	1060	212	218	0.01	0.002	0.05	0.02	0.003	0.9	0.01	0.01	0.9	0.06	0.01	45	130	473	6
	20th Percentile		-	17.4	7.08	2658	**0.94**	-180.7	5	3.3	IS	332	66	48	13	638	144	126	0.01	0.001	0.05	0.01	0.001	0.7	0.01	0.01	0.6	0.01	0.01	10	18	5	2
	Minimum		-	16.7	**6.40**	371	**0.64**	-246.3	5	1.4	5	42	26	7	4	87	31	49	0.01	0.001	0.05	0.01	0.001	0.4	0.01	0.01	0.4	0.01	0.01	10	10	5	1

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data

Site: DP1-10			Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	Electrical Conductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml	Potentially Toxic Cyanobacteria	Chlorophyll a
		Objectives	-	-	*6.5-9.0*	*<6192*	*>6*			*<20*	*10*	*<813*		*<119*	*<40*	*<1390*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*							*<20*		*<1000/100*	*<230/100*	*<50000*	*<10*
2022/2023	31/08/2022	Cloudy, Very Turbid		16.95	7.34	359	6.5	215.1		**514**		54	27	8	4	90	31	50	0.01	0.001	0.05	0.18	0.004	1.3	0.01	0.44	0.9	0.01	0.44			5	10
	23/02/2023	Cloudy, Turbid		25.1	6.81	542	5.46	203.2		103.46		49	44	8	4	85	41	73	0.01	0.001	0.05	0.08	0.003	1	0.01	0.43	0.6	0.01	0.43			5	2
Reporting Period (2022/2023)		**Average**	-	21.0	7.08	451	**5.98**	209.2	NS	**308.7**	NS	52	36	8	4	88	36	62	0.01	0.001	0.05	0.13	0.004	1.2	0.01	0.44	0.8	0.01	0.44	NS	NS	5	6
		Maximum	-	25.1	7.34	542	6.50	215.1	NS	**514.0**	NS	54	44	8	4	90	41	73	0.01	0.001	0.05	0.18	0.004	1.3	0.01	0.44	0.9	0.01	0.44	NS	NS	5	10
		Minimum	-	17.0	6.81	359	**5.46**	203.2	NS	**103.5**	NS	49	27	8	4	85	31	50	0.01	0.001	0.05	0.08	0.003	1.0	0.01	0.43	0.6	0.01	0.43	NS	NS	5	2
All Results		**Average**	-	21.0	7.08	451	**5.98**	209.2	NS	**308.7**	NS	52	36	8	4	88	36	62	0.01	0.001	0.05	0.13	0.004	1.2	0.01	0.44	0.8	0.01	0.44	NS	NS	5	6
		Maximum	-	25.1	7.34	542	6.50	215.1	NS	**514.0**	NS	54	44	8	4	90	41	73	0.01	0.001	0.05	0.18	0.004	1.3	0.01	0.44	0.9	0.01	0.44	NS	NS	5	10
		80th Percentile	-	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS
		Median (50th Percentile)	-	21.0	7.08	451	**5.98**	209.2	NS	**308.7**	NS	52	36	8	4	88	36	62	0.01	0.001	0.05	0.13	0.004	1.2	0.01	0.44	0.8	0.01	0.44	NS	NS	5	6
		20th Percentile	-	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS	IS
		Minimum	-	17.0	6.81	359	**5.46**	203.2	NS	**103.5**	NS	49	27	8	4	85	31	50	0.01	0.001	0.05	0.08	0.003	1.0	0.01	0.43	0.6	0.01	0.43	NS	NS	5	2

Red and **bold** values exceed the objective value for that analyte. IS - Insufficient data for statistical analysis. NS = No Sample Required. ND = No Data

Site:	SW1A		Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae	
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal colforms cells/ml	Enterococci cells/ml
		Objectives	*-*	*-*	*6.5-8.5*	*<3000*	*>6*			*5-20*	*10*	*<500*		*<100*	*<40*	*<1000*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*	*0.01*	*<0.005*	*0.35*				*<20*	*0.01*	*<1000/100*	*<230/100*
Pre-Extraction	28/02/2005																				7.58										
	8/03/2005																				25										
	8/03/2006																														
	10/05/2006																				0.24										
	5/06/2006																				0.17										
	13/07/2007																				0.18										
	26/10/2007																				0.88										
	30/11/2015	Fine sunny. Drain overgrown with rushes etc., Gambusia and floating weed present. Approx 30mm rain week previous	0.27	26.8	7.2	407	5.22	163	23	14	2	38	20	9.4	5	74	4.3	86	0.02	0.001	0.67	0.15	0.02	1.1			1.1	0.02	0.02	470	1160
	26/01/2016	Fine, overcast. Slightly turbid, rushes, gambusia present. Approx 1mm rain previous week (BoM - Coolangatta)	0.07	23	6.71	439	0.45	196	57	19	2	41	22	11	5	75	3.4	94	0.03	0.001	1.02	0.17	0.02	1.95			1.95	0.02	0.02	180	2560
	25/02/2016	Low flow, rushes.	0.05	25.2	6.52	652	2.13	129	29	32	4	51	26	11	7	120	6.2	94	0.17		1.62	0.47	0.02	4.27			4.25	0.02	0.02	290	270
	17/03/2016	High water level, slight turbidity. No Algae. Channel overgrown, 80mm rain previous week (BoM - Coolangatta).	0.77	23.5	6.89	234	0.24	25.6	31	17	4	17	14	4.9	9	29	14	45	0.45	0.002	1.88	0.56	0.12	2.07			2.07	0.08	0.02	2040	4160
	4/09/2017	No flow some reeds, few floating aquatic plants, minor organic scum, no salvinia	0.57	18.7	6.88	189	2.45	124	13	10.7	5	21	8	6	1	28	1	52	0.02	0.001	3.13	0.1		0.6	0.01	0.01	0.6	0.01	0.009	30	80
	5/10/2017	Organic scum, floating aquatic plants, reeds, debris	0.79	21.2	6.34	399	1.37	-16.6	24	29.3	5	39	18	12	6	67	66	41	0.01	0.001	2.94	0.16	0.01	1	0.01	0.009	1	0.08	0.01	1960	1430
2017/2018	30/10/2017	**Commencement of extraction**																													
	30/10/2017	Daily monitoring requirement for first 2 weeks of dredging.		23.3	6.8	169	3.93	220																							
	31/10/2017	Daily monitoring requirement for first 2 weeks of dredging.		19.7	7.0	201.4	3.54	148																							
	1/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.1	6.9	187.8	3.65	176																							
	2/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.9	6.9	260	2.96	195																							
	3/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		19.6	6.7	206	2.83	191																							
	6/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		22.1	6.9	201	4.9	205																							
	7/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.7	7.1	182.4	5.01	165																							
	8/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		22.1	7.0	186.9	4.96	153																							
	9/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		22	7.2	191.6	4.93	188																							
	10/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.5	6.9	187.5	3.89	196																							
	13/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.7	7.5	186	3.94	126																							
	14/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.3	7.4	215	3.85	111																							
	15/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		18.9	7.3	179	3.79	165																							
	21/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.4	7.4	174	3.59	155																							
	28/11/2017	Low level, no flow, reeds, organic matter, few floating aquatic plants	0.6	26.2	6.87	208	1.7	22.3	12	23.4	5	25	8	5	2	33	6	53	0.01	0.001	0.45	0.16	0.01	2.2	0.01	0.85	1.3	0.02	0.85	160	3650
	30/11/2017	Weekly monitoring requirement.		20.6	7.3	212	3.7	126																							
	6/12/2017	Weekly monitoring requirement.		21.9	7.5	315	6.15	186																							
	13/12/2017	Weekly monitoring requirement.		21.5	7.6	472	3.26	151																							
	20/12/2017	Weekly monitoring requirement.		20.1	8	532	3.04	134																							
	11/01/2018	Very low level, organic scum, few floating aquatic plants, sedge	0.86	27.5	7.17	468	2.3	-83	27	6.5	5	59	22	12	4	90	10	87	0.01	0.001	0.46	0.16	0.01	1.9	0.01	0.21	1.7	0.05	0.21	290	160
	12/01/2018	Weekly monitoring requirement.		21	7.2	219	4	166																							
	17/01/2018	Weekly monitoring requirement.		19.9	6.9	107	3.15	136																							
	23/01/2018	Weekly monitoring requirement.		21	7.2	213	3.95	164																							
	31/01/2018	Weekly monitoring requirement.		19.8	7.8	342	3.89	203																							
	7/02/2018	Many reeds and organic matter, no floating aquatic plants, slightly turbid, no scum or sheen	0.84	22.9	6.38	2599	5.59	55		23.6	5	334	92	49	15	682	232	130	0.05	0.001	1.04	0.18	0.02	1.6	0.01	0.01	1.6	0.2	0.01	370	640
	8/02/2018	**Last day of first extraction campaign.**																													
2020	28/04/2020	Debris, Aquatic weeds		21.7	6.5	227	2.34	-77	119	128.7	5	26	9	6	2	38	6	54	0.01	0.001	0.45	0.23	0.004	1.1	0.01	0.01	1.1	0.06	0.01	1560	1010
2020/2021	7/07/2020	Cloudy, algae,reeds.	0.51	15.8	6.7	346	1.2	20	41	26	5	47	13	9	2	49	2	94	0.01	0.001	4.59	0.26	0.006	1.8	0.01	0.02	1.8	0.12	0.02		
	12/08/2020	Clear	0.45	16.6	6.4	241	2.6	75	10	21.2	5	27	14	7	3	37	7	64	0.01	0.001	0.1	0.17	0.001	1.4	0.01	0.01	1.4	0.02	0.01		
	16/09/2020		0.525	20.3	6.78	3145	4.87	55.4	10	81.23	5	27	22	10	5	41	8	89	0.01	0.001	0.06	0.14	0.001	0.8	0.01	0.01	0.8	0.02	0.01	120	450
	14/10/2020		0.61	19.1	7.05	308.6	3.6	-10.5	20	54.6	5	27	27	11	2	36	1	118	0.01	0.001	0.46	0.23	0.001	1.4	0.01	0.01	1.4	0.02	0.01		
	11/11/2020		0.59	22.1	6.85	377.9	2.65	-23.1	29	37.1		33	26	12	3	51	1	111	0.01	0.001	1.58	0.18	0.002	0.2	0.01	0.01	0.2	0.01	0.01	40	6000
	10/06/2021	Clear/Brown, Twigs and leaves floating on surface, Drain choked by macro	0.58	14.6	6.74	295.3	2.46	-96.6		58.91																					
2021/2025	N/A																														
2025/2026	17/12/2025	Lots of algae and sludge	0.3	23.47	7.15	482	2.64	-55.5		10.1		24	22	6	3	40	2	78	0.01	0.001	0.59	0.16	0.006	1.5	0.01	0.01	1.5	0.06	0.01		
	20/01/2026	Lots of algae and sludge	0.38	24.93	7.15	307	7.94	11.9		3.5																					
	24/02/2026	Lots of algae and sludge	0.41	25.66	7.14	164	1.11	-30.3		9.7		27	16	7	3	36	6	68	0.01	0.001	0.24	0.07	0.01	0.8	0.01	0.01	0.8	0.11	0.01		
	24/03/2026	Lots of algae and sludge	0.45	23.4	6.51	217	2.24	10.2		3.9																					

Reporting Period (2025/2026)	**Average**	0.39	24.4	6.99	292.5	3.48	-15.9	0	6.8	0.0	26	19	7	3	38	4.0	73	0.01	0.001	0.42	0.12	0.01	1.2	0.01	0.01	1.15	0.09	0.01	0	0
	Maximum	0.45	25.66	7.15	482.0	7.94	11.9	0	10.1	0	27	22	7	3	40	6	78	0.01	0.001	0.59	0.16	0.01	1.5	0.01	0.01	1.5	0.11	0.01	0	0
	Minimum	0.3	23.4	6.51	164.0	1.11	-55.5	0	3.5	0	24	16	6	3	36	2	68	0.01	0.001	0.24	0.07	0.006	0.8	0.01	0.01	0.8	0.06	0.01	0	0
All Results	**Average**	0.51	21.5	7.01	401	3.38	98.9	32	30.5	4	51	22.294	11	5	90	22	80	0.050	0.001	2.41	0.209	0.016	1.51	0.01	0.09	1.45	0.05	0.07	626	1798
	Maximum	0.86	27.5	8.00	3145	7.94	220.0	119	128.7	5	334	92	49	15	682	232	130	0.450	0.002	25.00	0.560	0.120	4.27	0.01	0.85	4.25	0.20	0.85	2040	6000
	80th Percentile	0.77	23.4	7.30	420	4.88	186.8	41	51.1	5	49	26	12	6	81	12	101	0.038	0.001	2.98	0.242	0.020	2.00	0.01	0.06	1.86	0.09	0.02	1720	3854
	Median (50th Percentile)	0.53	21.4	6.95	223	3.57	131.5	26	22.3	5	27	20	9	3	41	6	86	0.010	0.001	0.67	0.170	0.010	1.40	0.01	0.01	1.40	0.02	0.01	290	1085
	20th Percentile	0.30	19.8	6.71	187	2.28	1.9	12	9.8	4	25	11.4	6	2	35	2	53	0.010	0.001	0.23	0.146	0.001	0.80	0.01	0.01	0.80	0.02	0.01	88	226
	Minimum	0.05	14.6	6.34	107	0.24	-96.6	10	3.5	2	17	8	5	1	28	1	41	0.010	0.001	0.06	0.070	0.001	0.20	0.01	0.01	0.20	0.01	0.01	30	80

ND = No Data ID = Insufficient Data for Statistical Analysis

Site:		SW3A	Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae	
	Sample Date	Comments/ Flow	Water Level m AHD	Temp °C	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml
		Objectives	*-*	*-*	*6.5-8.5*	*<3000*	*>6*			*5-20*	*10*	*<500*		*<100*	*<40*	*<1000*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*	*0.01*	*<0.005*	*0.35*				*<20*	*0.01*	*<1000/100*	*<230/100*
Pre-Extraction	30/11/2015	Fine Sunny Aprox 30mm rain week previous Gambusia, Rushes	0.193	26.1	7.3	1540	3.61	180	21	11	2	166	67	35	12	320	37	250	0.03	0.004	0.75	0.64	0.19	2.1			2.1	0.02	0.02	360	250
	26/01/2016	Fine, Slightly turbid, gambusia, no flow west	0.048	29.5	8.02	2983	7.19	198	18	15	2	336	87	52	18	650	19	350	0.04	0.005	0.28	0.62	0.21	2.5			2.5	0.02	0.02	2410	720
	25/02/2016	No flow west due to sediment blockage at drain, no salvinia present, small floating macrophytes	0.113	27.1	6	5470	9	-2	130	13	4	808	161	108	31	1700	148	260	0.01	0.003	0.36	0.39	0.08	2.73			2.73	0.02	0.02	270	360
	17/03/2016	Water level much higher than previous, slight oily appearance of water surface, tadpoles, high turbidity. Approx 80mm rain (2) previous week	0.613	23.4	6.7	552	1.47	62.7	18	17	4	76	13	9.3	5	110	15	51	0.75	0.001	0.86	0.23	0.07	1.6			1.6	0.02	0.02	880	3880
	4/09/2017	No flow, blocked under culvert, no scum, few reeds, few floating aquatic plants, gambusia	0.88	22.7	8.07	1277	6.68	104	15	6.5	5	148	108	58	18	234	145	360	0.02	0.002	0.92	0.25		2.4	0.01	0.03	2.4	0.02	0.03	140	10
	5/10/2017	Green tinge, slightly turbid, few reeds, few floating plants, some leaves	0.84	25.1	7.45	1366	5.99	55	36	21.7	5	113	106	48	22	224	265	157	0.02	0.002	0.29	0.58	0.08	3.5	0.07	0.07	3.4	0.16	0.14	1010	1240
2017/2018	30/10/2017	**Commencement of extraction**																													
	30/10/2017	Daily monitoring requirement for first 2 weeks of dredging.		23.8	7.2	15.6	4.9	2.53																							
	31/10/2017	Daily monitoring requirement for first 2 weeks of dredging.		19.6	7.7	186.5	5.05	164																							
	1/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.4	7.4	173.4	5.01	186																							
	2/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.7	8.0	215.0	4.63	212																							
	3/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		19.8	7.5	238.0	2.59	208																							
	6/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.8	7.0	176.4	4.73	204																							
	7/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		22	7.0	191.0	4.65	208																							
	8/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.9	7.0	187.0	3.77	217																							
	9/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.7	7.0	193.0	4.15	213																							
	10/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.6	7.1	189.0	4.04	207																							
	13/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.3	7.8	194	4.01	143																							
	14/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.3	8	202.1	4.6	141																							
	15/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		18.5	7.5	204.8	2.52	177																							
	21/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.7	7.7	200.1	4	155																							
	28/11/2017	Low level, organic matter	0.77	27.8	7.43	3202	4.48	-11.8	11	2.3	5	470	103	74	18	911	273	214	0.01	0.002	0.11	0.12	0.01	1.5	0.01	0.01	1.5	0.03	0.02	1400	1400
	30/11/2017	Weekly monitoring requirement.		20.6	7.7	182	4.2	136																							
	6/12/2017	Weekly monitoring requirement.		22.1	7.9	319	6.21	192																							
	13/12/2017	Weekly monitoring requirement.		21.8	7.7	519	3.35	142																							
	20/12/2017	Weekly monitoring requirement.		21.5	7.6	224	3.09	153																							
	11/01/2018	Dry at sampling point, small ponded area downstream, water birds																													
	12/01/2018	Weekly monitoring requirement.		21.2	7.5	182	4.19	170																							
	17/01/2018	Weekly monitoring requirement.		20.1	7.1	73	3.33	120																							
	23/01/2018	Weekly monitoring requirement.		21.2	7.5	176	4.15	167																							
	31/01/2018	Weekly monitoring requirement.		21.5	7.9	334	4.68	213																							
	7/02/2018	Some ponded water, no flow, below measuring stake,no floating aquatic plants, no scum or sheen		24.6	3.99	1741	5.99	339		16.7	5	63	163	51	10	80	775	1	8.69	0.005	59.8	0.1	0.01	2.3	0.01	0.01	2.3	0.63	0.01	10	60
	8/02/2018	**Last day of first extraction campaign.**																													
2020	28/04/2020	Aquatic Weeds		22.8	6.8	609	3.1	31.6	14	107.2	5	74	24	14	4	127	15	114	0.01	0.001	0.2	0.08	0.02	0.9	0.01	0.01	0.9	0.02	0.01	90	540
2020/2021	7/07/2020		0.74	15.7	6.4	1044	4.8	109	5	2.8	5	139	52	27	6	218	83	152	0.01	0.001	0.2	0.05	0.011	1	0.01	0.02	1	0.08	0.02		
	12/08/2020	Clear	0.78	18	6.8	746	5.1	67.5	5	12.7	5	95	38	19	5	160	62	109	0.01	0.001	0.17	0.09	0.001	1.2	0.01	0.01	1.2	0.01	0.01		
	16/09/2020	Algae on surface, clear	0.725	20.8	7.13	1091	6.8	137.9	22	128.88	5	134	61	26	7	234	68	196	0.01	0.001	0.3	0.12	0.008	0.8	0.01	0.01	0.8	0.01	0.01	10	130
	14/10/2020		0.86	22.1	7.19	1539	7.4	85.5	34	89.6	5	196	95	43	14	365	36	346	0.03	0.003	0.4	1.09	0.118	3	0.01	0.02	3	0.06	0.02		
	11/11/2020		0.75	20	7.31	1374	4.73	15.9	15	8.9		152	80	38	10	293	51	284	0.01	0.002	0.55	0.62	0.135	1.6	0.01	0.01	1.6	0.07	0.01	10	160
	24/02/2021	Brown/cloudy	0.52	25.5	6.7	599	2.24	-4.3	7	44.6		71	27	13	4	135	26	85	0.03	0.001	0.58	0.16	0.007	1	0.01	0.01	1	0.03	0.01		
2021/2025	N/A																														
2025/2026	17/12/2025	Milky/grey colour, heavily vegetated	0.57	22.84	7.56	3219	1.48	-72.1		126		362	157	64	15	793	191	286	0.01	0.001	0.14	0.11	0.055	1.1	0.01	0.01	1.1	0.12	0.01		
	20/01/2026	Milky/grey colour, heavily vegetated	0.63	23.61	7.84	3758	0.66	-224.5		143																					
	24/02/2026	Milky/grey colour, heavily vegetated	0.6	26.4	7.47	2730	0.23	-48.3		104		368	152	60	15	790	168	261	0.02	0.001	0.1	0.26	0.206	2.2	0.01	0.01	2.2	1.4	0.01		
	24/03/2026	Milky/grey colour, heavily vegetated	0.62	22.79	7.23	3414	0.19	-34.1		35.4																					

Reporting Period (2025/2026)	Average	0.605	23.9	7.53	3280.3	0.64	-94.75	0	102.1	0	365	155	62.0	15	792	180	274	0.02	0.00	0.12	0.19	0.131	1.65	0.01	0.01	1.7	0.76	0.01	0	0
	Maximum	0.630	26.4	8	3758	1.48	-34.1	0	143	0	368	157	64	15	793	191	286	0.02	0.001	0.14	0.26	0.206	2.2	0.01	0.01	2.2	1.4	0.01	0	0
	Minimum	0.570	22.79	7.23	2730.0	0.19	-224.5	0	35.4	0	362	152	60	15	790	168	261	0.01	0.001	0.1	0.11	0.055	1.1	0.01	0.01	1.1	0.12	0.01	0	0
All Results	Average	0.60	22.2	7.27	1045	4.22	118.0	25	47.7	4	222	87.882	43	13	432	140	204	0.571	0.002	3.88	0.324	0.076	1.85	0.0146	0.02	1.84	0.16	0.02	599	795
	Maximum	0.88	29.5	8.07	5470	9.00	339.0	130	143.0	5	808	163	108	31	1700	775	360	8.690	0.005	59.80	1.090	0.210	3.50	0.07	0.07	3.40	1.40	0.14	2410	3880
	80th Percentile	0.80	24.3	7.76	1661	5.63	206.4	34	107.2	5	364	154	62	18	791	221	310	0.034	0.003	0.79	0.620	0.168	2.59	0.01	0.02	2.59	0.14	0.02	1244	1336
	Median (50th Percentile)	0.63	21.8	7.43	334	4.20	142.5	17	17.0	5	148	87	43	12	234	68	214	0.020	0.002	0.30	0.230	0.063	1.60	0.01	0.01	1.60	0.03	0.02	270	360
	20th Percentile	0.39	20.3	6.96	187	2.79	19.0	7	8.9	4	75	33.6	17	5	132	23	99	0.010	0.001	0.16	0.096	0.009	1.00	0.01	0.01	1.00	0.02	0.01	10	88
	Minimum	0.05	15.7	3.99	16	0.19	-224.5	5	2.3	2	63	13	9	4	80	15	1	0.010	0.001	0.10	0.050	0.001	0.80	0.01	0.01	0.80	0.01	0.01	10	10

ND = No Data ID = Insufficient Data for Statistical Analysis

Site: SW5			Physical									Major Cations & Anions							Metals			Nutrients								Bacteria / Algae	
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	ElectricalConductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml
		Objectives	-	-	*6.5-8.5*	*<3000*	*>6*			*5-20*	*10*	*<500*		*<100*	*<40*	*<1000*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*	*0.01*	*<0.005*	*0.35*				*<20*	*0.01*	*<1000/100*	*<230/100*
Pre-Extraction	30/11/2015	Fine Sunny Approx 30mm rain previous week (BoM - Coolangatta) Salvinia	0.232	24.3	7.12	1042	**3.12**	174	28	**21**	2	137	26	20	7	220	28	150	0.02	0.001	0.59	**0.45**	**0.14**	**3.35**			3.35	0.02	**0.02**	140	**510**
	26/01/2016	Fine, Level very low, extensive salvinia	0.072	28.1	6.83	1158	**0.33**	197	50	12	2	168	36	25	8	260	15	220	0.08	0.001	0.25	**0.22**	**0.02**	**2.44**			2.44	0.02	**0.02**	10	80
	25/02/2016	Low flow,extensive salvinia sp., sulfide odour	0.102	23.8	7.3	1808	**1.15**	-196	58	**25**	4	255	42	31	14	410	25	250	0.38	0.002	0.46	**0.16**	**0.05**	**2.47**			2.42	0.33	**0.05**	230	130
	17/03/2016	Extensive salvinia (95% coverage, 5% of salvinia brown/dead), high water level, Turbid, Approx 80mm rain previous week (BoM - Coolangatta).	0.652	23.5	**6.33**	267	**0.15**	-87	14	11	4	29	13	5.5	5	44	24	32	0.38	0.001	1.38	**0.2**	**0.04**	**1.44**			1.44	0.02	**0.02**	430	**1760**
	4/09/2017	No flow, organic scum, debris, no salvinia	0.73	21	7.51	1434	**2.81**	135	24	17.5	5	235	53	40	10	424	68	192	0.04	0.001	2.15	**0.23**		**2.7**			0.01	0.01	**2.7**	30	120
	5/10/2017	Some organic scum, slightly turbid, no flow, leaves & debris, no salvinia or reeds	0.64	20.4	6.57	1561	**2.06**	65.2	10	15.5	5	144	77	40	9	282	316	52	0.01	0.001	0.42	**0.06**	**0.01**	**2**	0.01	0.08	1.9	0.98	**0.09**	410	**800**
2017/2018	30/10/2017	**Commencement of extraction**																													
	30/10/2017	Daily monitoring requirement for first 2 weeks of dredging.		23.8	6.76	252	**3.31**	227																							
	31/10/2017	Daily monitoring requirement for first 2 weeks of dredging.		19.7	6.97	337	**3.76**	151																							
	1/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.2	6.86	298	**3.64**	178																							
	2/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.7	7.1	281	**3.29**	200																							
	3/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.4	6.86	266	**1.65**	194																							
	6/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.9	6.84	284	**3.27**	196																							
	7/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		22	6.95	236	**3.46**	174																							
	8/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		22.2	7.15	217	**3.38**	183																							
	9/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		22	7.1	196	**3.36**	194																							
	10/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.5	7	194.6	**3.96**	211																							
	13/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.4	7.4	184		129																							
	14/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.3	7.8	472	**4.6**	126																							
	15/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		18.7	7.1	184	**2.9**	162																							
	21/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.7	7.3	223	**4.6**	130																							
	28/11/2017		0.52	23.1	7.5	1721	**0.57**	-2.4	39	**46.7**	5	265	75	46	11	520	119	218	0.01	0.001	0.08	**0.08**	**0.01**	**2.1**	0.01	0.12	2	0.82	**0.12**	460	**520**
	30/11/2017	Weekly monitoring requirement.		20.3	7.4	174	**3.5**	148																							
	6/12/2017	Weekly monitoring requirement.		21.9	7.69	307	6.08	194																							
	13/12/2017	Weekly monitoring requirement.		21.8	7.74	541	**3.48**	158																							
	20/12/2017	Weekly monitoring requirement.		21.2	7.56	1768	**3.61**	162																							
	11/01/2018	Low flow, algae, organic matter	0.61	27.4	7.98	**3902**	10.79	3.6		11.9	5	**579**	190	96	23	**1020**	352	304	0.01	0.002	0.12	**0.14**	**0.01**	**2.2**	0.01	0.01	2.2	0.01	0.01	90	**370**
	12/01/2018	Weekly monitoring requirement.		21.2	7.2	339	**3.64**	173																							
	17/01/2018	Weekly monitoring requirement.		20.1	6.9	532	**3.76**	144																							
	23/01/2018	Weekly monitoring requirement.		21.15	7.2	349	**3.64**	171.7																							
	31/01/2018	Weekly monitoring requirement.		21.1	7.5	1480	**4.37**	198																							
	7/02/2018	Slightly turbid, higher level than last round, few floating aquatic plants, no scum or sheen, organic matter in water	0.59	21.2	7.33	**4296**	**4.47**	-12		**21.8**	5	**530**	171	90	18	**1050**	395	267	0.01	0.002	0.52	**0.12**	**0.01**	**1.4**	0.01	0.01	1.4	0.09	0.01	180	**530**
	8/02/2018	**Last day of first extraction campaign.**																													
2020	28/04/2020	Melaluca sp on banks		21.2	6.73	1233	**5.91**	68	5	**75.9**	5	104	95	32	6	166	218	155	0.01	0.001	0.26	**0.03**	**0.01**	**1.1**	0.01	0.01	1.1	0.1	0.01	140	**590**
2020/2021	7/07/2020		0.615	14.7	**6.4**	1754	6.3	138	5	**3.7**	5	228	108	48	10	377	189	230	0.01	0.001	0.37	**0.04**	0.002	**0.9**	0.01	0.01	0.9	0.12	0.01		
	13/08/2020	Clear	0.57	17	7	1377	6.4	54	15	12.1	5	175	73	34	8	306	139	179	0.01	0.001	0.54	**0.64**	0.003	**4.2**	0.01	0.05	4.2	0.04	**0.05**		
	16/09/2020	clear, macrophytes/algae mat on bottom of drain, no film	0.6	18.8	6.9	1575	**3.8**	199	8	**38**	5	194	87	43	9	360	159	217	0.01	0.001	0.62	**0.12**	**0.013**	**3.3**	0.01	0.01	3.3	0.06	0.01	20	120
	14/10/2020		0.71	18.1	7.85	2162	**5.1**	-38.1	9	**42.7**	5	140	348	69	9	214	692	338	0.01	0.001	0.16	**0.08**	**0.015**	**1**	0.01	0.01	1	0.12	0.01		
	11/11/2020		0.67	18.2	7.09	1863	**4.16**	119.11	5	6.7		216	133	47	11	395	209	254	0.01	0.001	0.59	**0.12**	**0.026**	**1.4**	0.01	0.01	1.4	0.12	0.01	110	60
	24/02/2021	Brown/clear	0.27	23.1	7.7	356	**2.75**	56.7		**28.3**		28	31	8	2	45	46	58	0.06	0.001	1.42	**0.11**	0.001	**1.1**	0.01	0.04	1.1	0.03	**0.04**	**1080**	**1840**
2021/2025	N/A																														
2025/2026	17/12/2025	Algae and sludge in water, heavily vegetated	0.42	22.65	7.07	908	1.51	-39.8		31.2		51	48	14	4	92	25	170	0.01	0.001	**0.58**	0.75	**0.043**	**2.1**	0.01	0.01	2.1	0.15	0.01		
	20/01/2026	Algae and sludge in water, heavily vegetated	0.42	24.28	7.04	597	1.41	-20.7		2.2																					
	24/02/2026	Algae and sludge in water, heavily vegetated	0.45	26.37	7.68	471	1.97	-64.3		9.4		47	49	13	4	68	21	151	0.02	0.001	**1.09**	0.19	**0.042**	**1.1**	0.01	0.01	1.1	0.13	0.01		
	24/03/2026	Algae and sludge in water, heavily vegetated	0.41	23.5	7.32	391	1.52	-36.4		6.1																					

Reporting Period (2025/2026)	**Average**	0.425	24.2	7.28	591.8	**1.60**	-40.30	0	12.2	0	49	49	13.5	4	80	23	161	**0.02**	0.00	**0.84**	**0.47**	**0.043**	**1.60**	0.01	0.01	1.6	0.14	**0.01**	0	**0**
	Maximum	0.450	26.37	8	908	1.97	-20.7	0	31.2	0	51	49	14	4	92	25	170	**0.02**	0.001	**1.09**	**0.75**	**0.043**	**2.1**	0.01	0.01	2.1	0.15	**0.01**	**0**	**0**
	Minimum	0.410	22.65	**7.04**	391.0	**1.41**	-64.3	0	**2.2**	0	47	48	13	4	68	21	151	0.01	0.001	0.58	**0.19**	**0.042**	**1.1**	0.01	0.01	1.1	0.13	0.01	0	0
All Results	**Average**	0.49	21.6	7.18	928	**3.50**	120.0	21	**21.9**	4	196	91.944	39	9	347	169	191	0.061	0.001	0.64	**0.208**	**0.026**	**2.02**	0.01	0.03	1.85	0.18	**0.18**	256	**572**
	Maximum	0.73	28.1	7.98	**4296**	10.79	227.0	58	**75.9**	5	**579**	348	96	23	**1050**	692	338	0.380	0.002	2.15	**0.750**	**0.140**	**4.20**	0.01	0.12	4.20	0.98	**2.70**	**1080**	**1840**
	80th Percentile	0.65	23.5	7.53	1633	**4.55**	194.0	41	**36.6**	5	257	140.6	52	12	443	323	257	0.064	0.001	1.15	**0.274**	**0.042**	**2.82**	0.01	0.06	2.61	0.19	**0.06**	436	**992**
	Median (50th Percentile)	0.57	21.3	7.11	472	**3.48**	149.5	14	16.5	5	172	74	37	9	294	129	205	0.010	0.001	0.53	**0.130**	**0.013**	**2.05**	0.01	0.01	1.67	0.10	**0.02**	140	**510**
	20th Percentile	0.27	20.2	6.86	246	**1.78**	13.7	5	7.2	4	50	35	14	5	87	25	132	0.010	0.001	0.23	**0.076**	**0.007**	**1.10**	0.01	0.01	1.08	0.02	0.01	28	112
	Minimum	0.07	14.7	**6.33**	174	**0.15**	-64.3	5	**2.2**	2	28	13	6	2	44	15	32	0.010	0.001	0.08	**0.030**	0.001	**0.90**	0.01	0.01	0.01	0.01	0.01	10	60

ND = No Data ID = Insufficient Data for Statistical Analysis

Site:	SW5A		Physical								Major Cations & Anions							Metals			Nutrients								Bacteria / Algae	
	Sample Date	Comments/ Flow	Water Level m AHD	Temp °C	pH	Electrical Conductivity uS/cm	Dissolved Oxygen mol/L	Redox mV	Total Suspended Solids mg/L	Turbidity NTU	Oil & Grease mg/L	Sodium mg/L	Calcium mg/L	Magnesium mg/L	Potassium mg/L	Chloride mg/L	Sulfate mg/L	Bicarbonate mg/L	Aluminium mg/L	Arsenic mg/L	Iron (filterable) mg/L	Total Phosphorous mg/L	Reactive Phosphorous mg/L	Total Nitrogen mg/L	Nitrite mg/L	Nitrate mg/L	TKN mg/L	Ammonia mg/L	NOx mg/L	Faecal coliforms cells/ml	Enterococci cells/ml
		Objectives	-	-	*6.5-8.5*	*<3000*	*>6*			*5-20*	*10*	*<500*		*<100*	*<40*	*<1000*	*<800*	*<400*	*<0.5*	*<0.42*	*<20*	*0.01*	*<0.005*	*0.35*				*<20*	*0.01*	*<1000/100*	*<230/100*
Pre-Extraction	30/11/2015	Fine Sunny channel overgrown, rushes Approx 30mm rain previous week (BoM - Coolangatta)	0.27	26.6	7.02	330	**4.21**	164	9.5	**4.5**	2	32	15	8.3	5	57	9.6	72	0.02	0.001	0.64	**0.11**	**0.02**	**0.87**			0.87	0.02	**0.02**	100	**970**
	26/01/2016	Fine, Channel very overgrown, organic matter	0.05	22.7	6.71	369	**0.48**	199	8.8	5.3	2	37	16	8.7	5	73	6.8	70	0.01	0.001	0.187	**0.11**	**0.02**	**1.12**			1.12	0.02	**0.02**	350	**3120**
	25/02/2016	Algae, reeds noted	0.05	24.6	6.71	341	**1.3**	144	16	7.6	4	33	19	9	5	49	5.8	94	0.03		0.55	**0.26**	**0.02**	**1.93**			1.91	0.02	**0.02**	890	**1950**
	17/03/2016	Gambusia, high water level, slight turbidity. Approx 80mm rain previous week (BoM - Coolangatta).	0.76	23.3	6.5	129	**0.39**	19	17	**26**	4	13	5.9	3	5	16	11	20	**1.18**	0.001	1.12	**0.21**	**0.04**	**1.46**			1.46	0.02	**0.02**	960	**2910**
	4/09/2017	No flow, heavy reed growth, organic matter, minor scum, no salvinia	0.545	18.9	6.65	187	**1.38**	79	19	11.2	5	25	7	5	0.9	29	1	50	0.04	0.001	5.14	**0.22**		**1.1**			0.01	0.01	**1.1**	10	80
	5/10/2017	Drain clogged with reeds, few floating aquatic plants, debris	0.76	21.2	6.58	245	**1.25**	54.6	12	5.2	5	29	12	8	4	39	28	50	0.01	0.001	0.82	**0.23**	**0.05**	**1.2**			0.01	0.01	**1.2**	170	**790**
2017/2018	30/10/2017	**Commencement of extraction**																													
	30/10/2017	Daily monitoring requirement for first 2 weeks of dredging.		23.5	6.8	231	**4.01**	2.26																							
	31/10/2017	Daily monitoring requirement for first 2 weeks of dredging.		19.6	7.0	282	**3.45**	141																							
	1/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.1	7.0	274	**3.98**	163																							
	2/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.8	7.1	231	**3.41**	194																							
	3/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		19.2	6.9	267	**2.53**	186																							
	6/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		22.1	7.0	237	**3.75**	198																							
	7/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.8	6.6	197	**4.03**	184																							
	8/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.8	6.8	216	**4.37**	205																							
	9/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.7	6.9	204	**3.98**	203																							
	10/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.7	7.0	198	**4.11**	2.02																							
	13/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.7	7.7	188		134																							
	14/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		21.1	7.9	198	**4.7**	140																							
	15/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		19	7.4	181	**3.14**	147																							
	21/11/2017	Daily monitoring requirement for first 2 weeks of dredging.		20.4	7.6	174	**4.3**	140																							
	28/11/2017	Low level, no flow, reeds, algae, scum	0.7	24.8	7.38	294	**2.52**	-69.3	14	**23.7**	5	36	18	9	2	43	11	105	0.01	0.001	0.31	**0.3**	**0.01**	**1.9**	0.01	0.01	1.9	0.04	0.01	430	**730**
	30/11/2017	Weekly monitoring requirement.		20.4	7.4	165	**3.9**	127																							
	6/12/2017	Weekly monitoring requirement.		21.8	**4.6**	287	**5.98**	189																							
	13/12/2017	Weekly monitoring requirement.		21.7	7.8	552	**3.53**	148																							
	20/12/2017	Weekly monitoring requirement.		21.2	7.3	784	**2.37**	147																							
	11/01/2018	Very low level, organic scum, few floating aquatic plants, sedge	0.82	25.5	7.15	1224	**1.1**	-84.2	36	8.1	5	164	63	27	8	301	92	132	0.01	0.001	0.06	**0.25**	**0.06**	**1.3**	0.01	0.01	1.3	0.01	0.01	650	**740**
	12/01/2018	Weekly monitoring requirement.		21	7.2	254	**3.87**	147																							
	17/01/2018	Weekly monitoring requirement.		19.9	6.8	92	**3.06**	90																							
	23/01/2018	Weekly monitoring requirement.		21	7.2	246	**3.81**	144																							
	31/01/2018	Weekly monitoring requirement.		20.9	6.7	661	**3.35**	155																							
	7/02/2018	Thick aquatic reeds, no sheen, or scum	0.79	22.4	7.41	**3865**	8.28	58		**3.7**	5	495	166	82	18	997	410	208	0.01	0.001	0.06	**0.12**	**0.01**	**1**	0.01	0.01	1	0.01	0.01	**2640**	**1400**
	8/02/2018	**Last day of first extraction campaign.**																													
2020	28/04/2020	Aquatic Weeds		23.5	**6.4**	311	**1.82**	-52	10	**131**	5	30	14	8	2	45	15	66	0.01	0.001	0.84	**0.13**	**0.01**	**1.2**	0.01	0.01	1.2	0.06	0.01	270	**1880**
2020/2021	7/07/2020	Clear, algae, reeds.	0.51	14	6.7	340	**2**	51	12	10	5	43	16	8	1	50	19	75	0.01	0.001	0.19	**0.22**	**0.01**	**1.2**	0.01	0.01	1.2	0.07	0.01		
	12/08/2020	Clear	0.44	15.6	7.1	343	**2.7**	3.9	13	**86**	5	41	16	9	2	56	22	63	0.03	0.001	0.18	**0.42**	0.002	**1.9**	0.01	0.01	1.9	0.03	0.01		
	16/09/2020	macrophytes/film	0.5	19.4	6.86	450.7	**3.33**	-47.7	22	**442.14**	5	54	22	13	3	73	20	110	0.01	0.001	0.92	**0.13**	0.002	**0.7**	0.01	0.01	0.7	0.03	0.01	150	110
	14/10/2020		0.59	19	7.23	366.5	**4.62**	-18	25	**112.4**	5	50	20	10	1	68	1	102	0.01	0.001	0.95	**0.21**	0.001	**1**	0.01	0.01	1	0.04	0.01		
	11/11/2020		0.22	22.7	7.19	330.4	**3.15**	-32.4	34	**30.6**			16	10	1	53	1	76	0.01	0.001	2.19	**0.24**	0.001	**1.4**	0.01	0.01	1.4	0.01	0.01	110	130
	24/02/2021	Brown/slightly cloudy	0.16	23.9	7.01	190	**2.17**	-90.7		19.8		19	10	5	2	26	7	36	0.08	0.001	3.44	**0.13**	**0.018**	**1.1**	0.01	0.01	1.1	0.07	0.01	**1140**	**1460**
	10/06/2021	Clear/Brown, Twigs and leaves floating on surface, Drain choked by macro	0.57	14.1	6.83	351	**3.54**	21.9		**174**																					
2021/2025	N/A																														
2025/2026	17/12/2025	Algae and sludge in water, heavily vegetated	0.51	22.73	6.68	825	**1.42**	-50.2		5.6		63	31	15	6	97	25	137	0.02	0.001	0.42	0.12	**0.02**	**1.1**	0.01	0.01	1.1	0.05	0.01		
	20/01/2026	Algae and sludge in water, heavily vegetated	0.54	23.32	6.63	43	**0.43**	-36.1		5.3																					
	24/02/2026	Algae and sludge in water, heavily vegetated	0.54	23.62	6.8	461	**0.12**	-7.6		28.3		56	28	14	5	87	18	123	0.07	0.001	1.27	0.21	**0.066**	**1.4**	0.01	0.01	1.4	0.18	0.01		
	24/03/2026	Algae and sludge in water, heavily vegetated	0.53	23.17	6.46	1047	**0.08**	14.7		18.7																					

Reporting Period (2025/2026)	**Average**	0.530	23.2	6.64	594.0	**0.51**	-19.80	0	14.5	0	60	30	14.5	6	92	22	130	**0.05**	0.00	**0.85**	**0.17**	**0.043**	**1.25**	0.01	0.01	1.3	0.12	**0.01**	0	**0**
	Maximum	0.540	23.62	7	1047	1.42	14.7	0	28.3	0	63	31	15	6	97	25	137	**0.07**	0.001	**1.27**	**0.21**	**0.066**	**1.4**	0.01	0.01	1.4	0.18	**0.01**	**0**	**0**
	Minimum	0.510	22.73	**6.46**	43.0	**0.08**	-50.2	0	**5.3**	0	56	28	14	5	87	18	123	0.02	0.001	0.42	**0.12**	**0.020**	**1.1**	0.01	0.01	1.1	0.05	0.01	0	0
All Results	**Average**	0.49	21.3	6.95	422	**3.00**	81.6	18	**55.2**	4	72	27.494	14	4	120	39	88	0.087	0.001	1.07	**0.201**	**0.021**	**1.27**	0.01	0.01	1.14	0.04	**0.14**	605	**1252**
	Maximum	0.82	26.6	7.90	**3865**	8.28	205.0	36	**442.1**	5	495	166	82	18	997	410	208	**1.180**	0.001	5.14	**0.420**	**0.066**	**1.93**	0.01	0.01	1.91	0.18	**1.20**	**2640**	**3120**
	80th Percentile	0.75	23.4	7.32	453	**4.06**	168.0	25	**101.8**	5	59	28.6	14	5	89	26	125	0.046	0.001	1.45	**0.252**	**0.044**	**1.55**	0.01	0.01	1.55	0.06	**0.02**	996	**2142**
	Median (50th Percentile)	0.54	21.7	6.95	274	**3.34**	127.0	15	18.7	5	37	16	9	4	55	13	76	0.010	0.001	0.73	**0.210**	**0.018**	**1.20**	0.01	0.01	1.16	0.03	0.01	350	**970**
	20th Percentile	0.23	19.6	6.67	190	**1.35**	-20.9	10	5.3	4	27	11.6	7	1	37	5	50	0.010	0.001	0.19	**0.120**	0.002	**1.00**	0.01	0.01	0.84	0.01	0.01	108	126
	Minimum	0.05	14.0	**4.60**	43	**0.08**	-90.7	9	**3.7**	2	13	5.9	3	1	16	1	20	0.010	0.001	0.06	**0.110**	0.001	**0.70**	0.01	0.01	0.01	0.01	0.01	10	80

ND = No Data ID = Insufficient Data for Statistical Analysis