



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:	Jun-26
Report prepared on:	17/07/2026
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
	Monthly	Temperature	degrees Celsius (°C)	Field	Probe	SW1A, SW3A, SW5A, SW5, DP1, DP2, DP3, DP4 (Surface)
		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			
	Quarterly	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)			
		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)	
		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)			
		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)				
	6-Monthly (Summer & Winter)	Temperature	degrees Celsius (°C)	Field	Probe	DP1 Depth Samples (central pond location) (at 1m depth and then 2m depth intervals to base of dredge pond)
		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)	Laboratory	Grab Sample	
		Oil and Grease	Present / Absent			
		Major Cations*	milligrams per litre (mg/L)			
		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	SW1A, SW3A, SW5A, SW5, DP1, DP2, DP3, DP4 (Surface)	
		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	SW1A, SW3A, SW5A, SW5, DP1, DP2, DP3 (Surface) DP1 Depth Samples (central pond location) (at 1m depth and then 2m depth intervals to base of dredge pond)	
		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)				

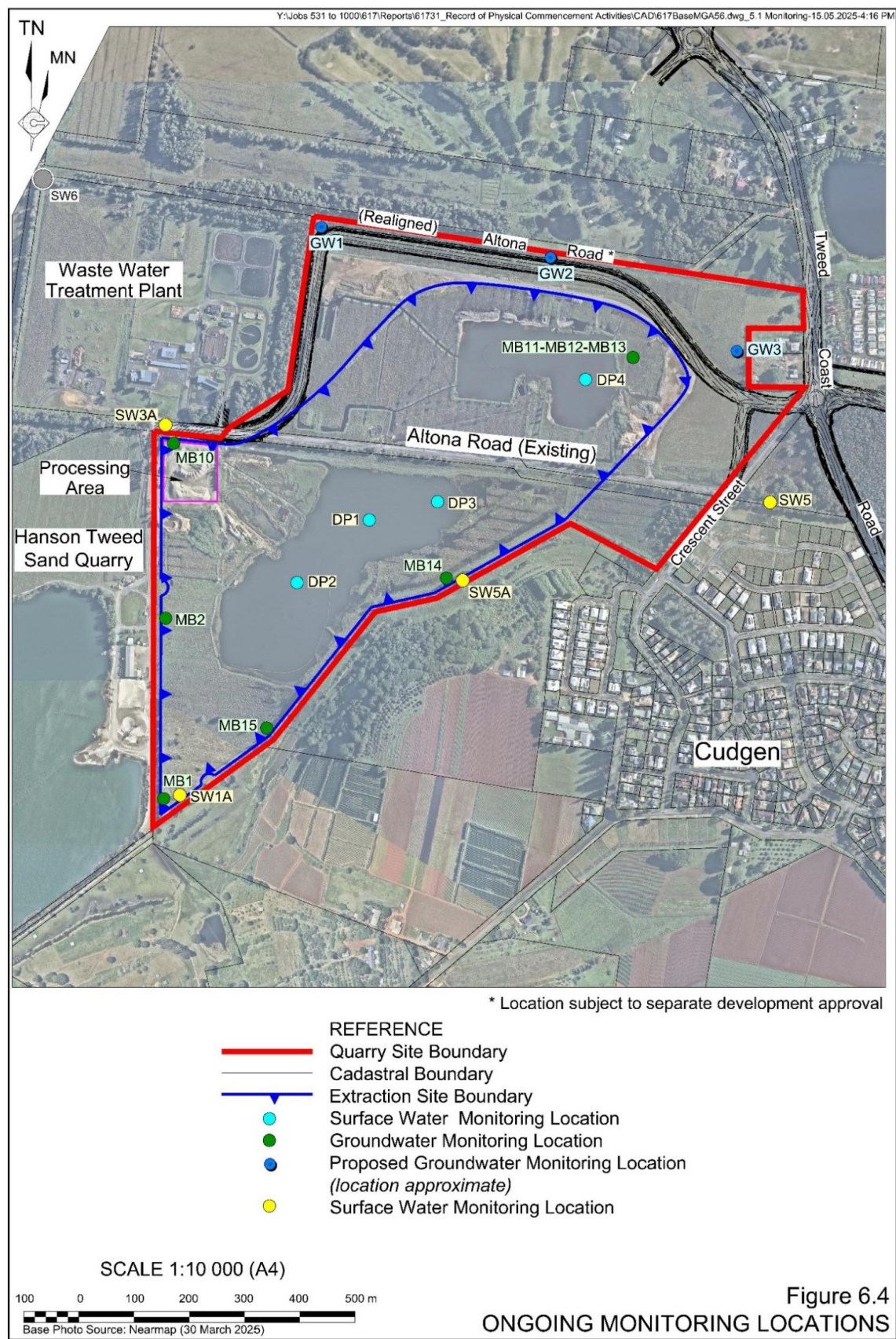
¹ Operational Periods = periods during which extraction and/or processing of material, and/or the placement of fines and/or VENM material, is occurring at the Quarry.

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

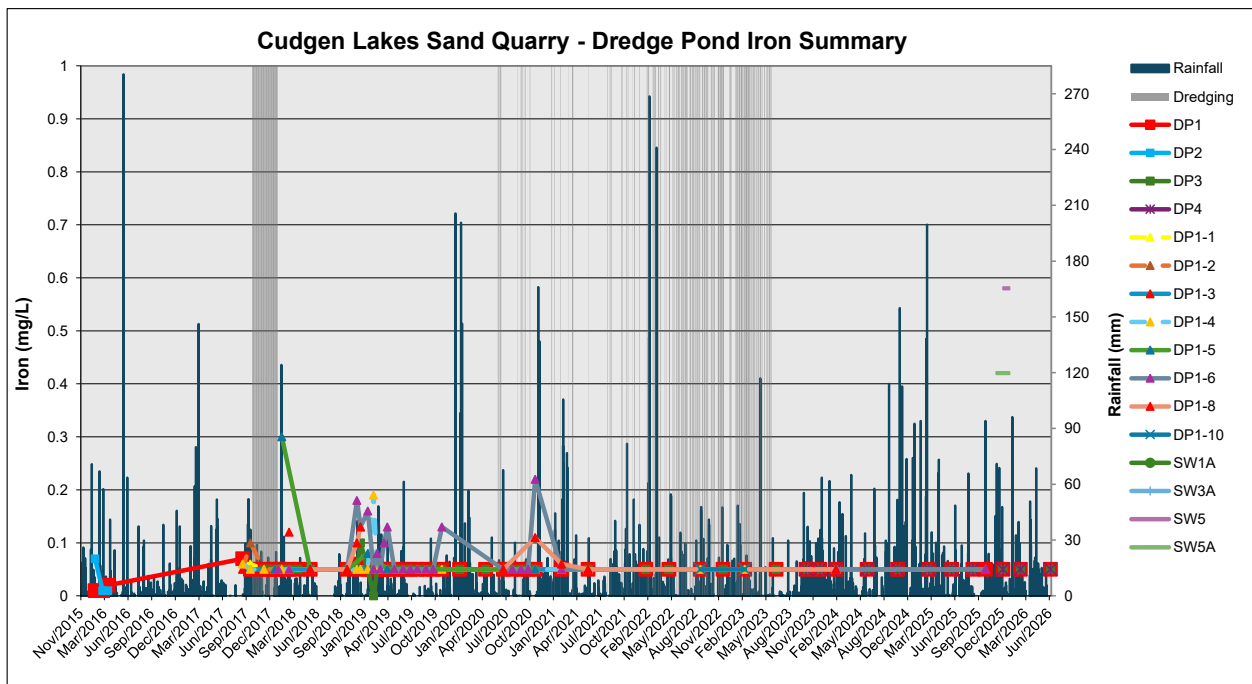
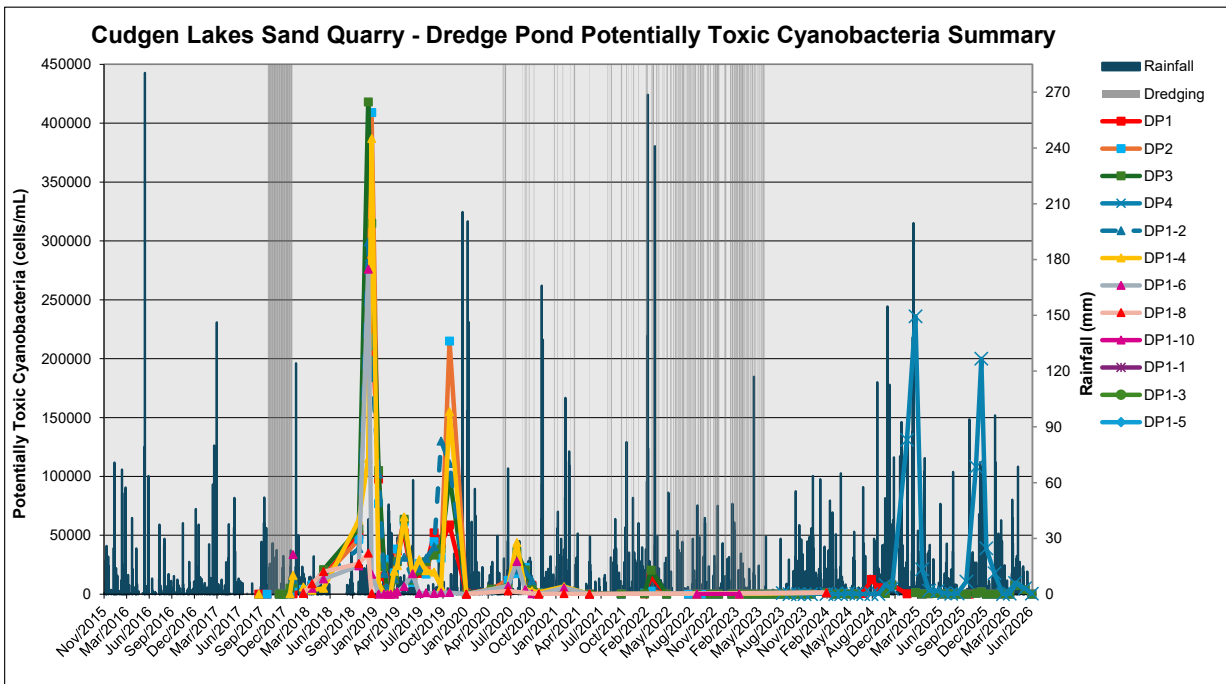
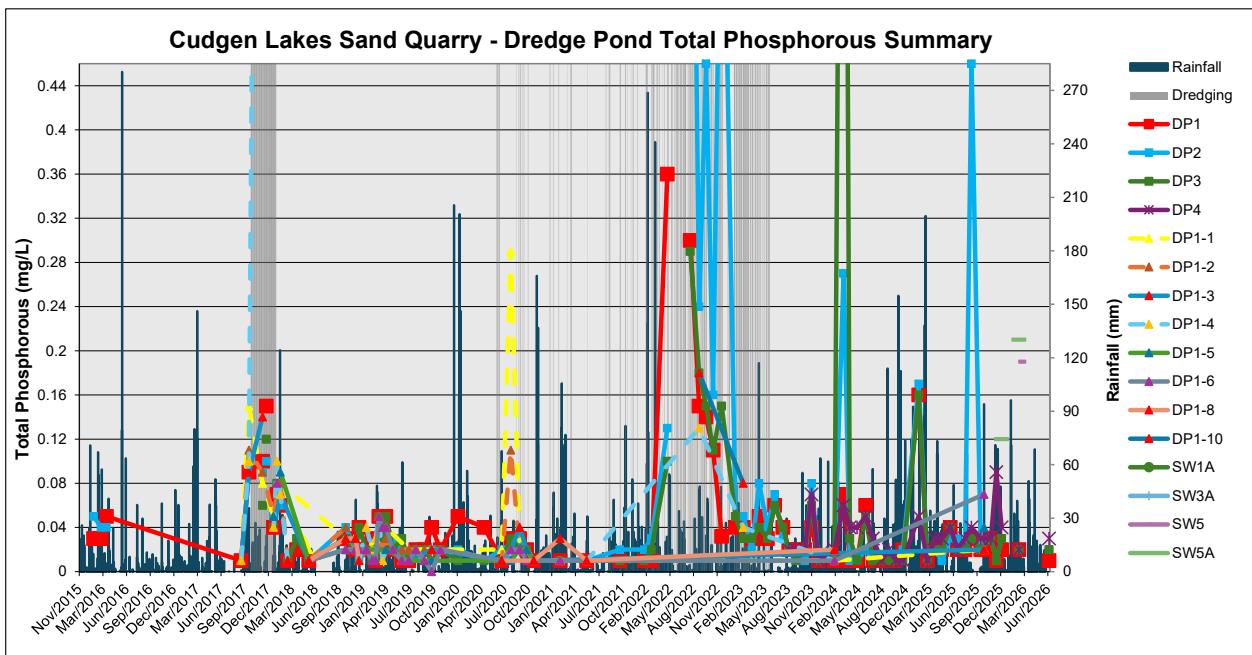
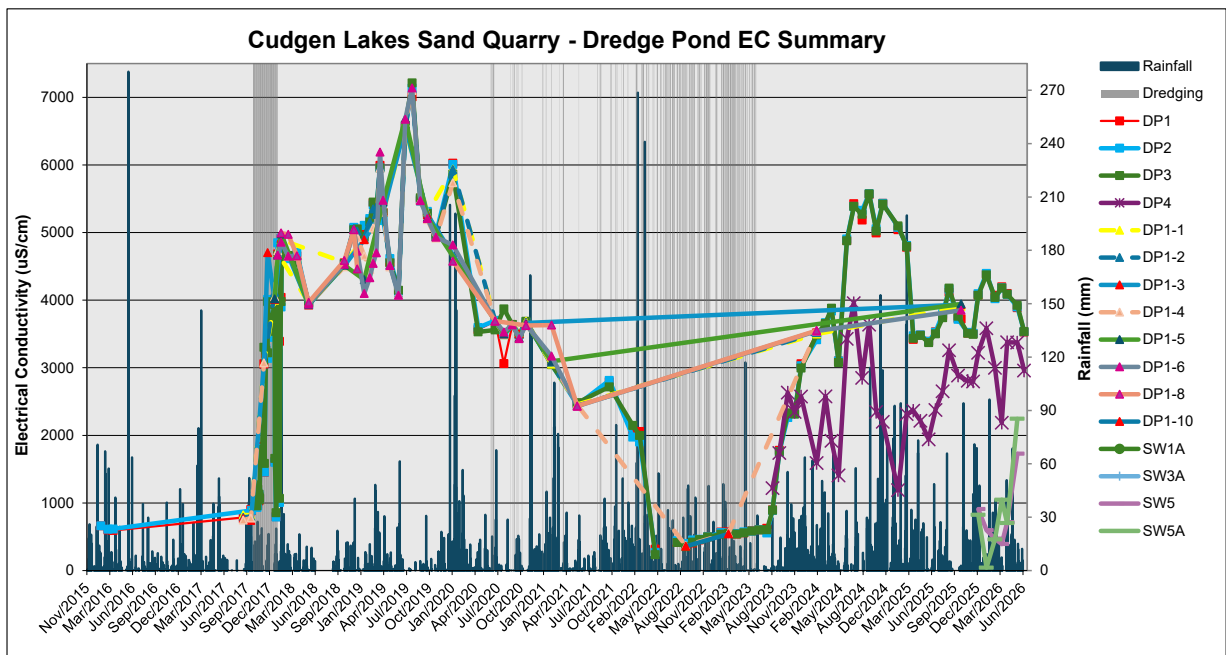
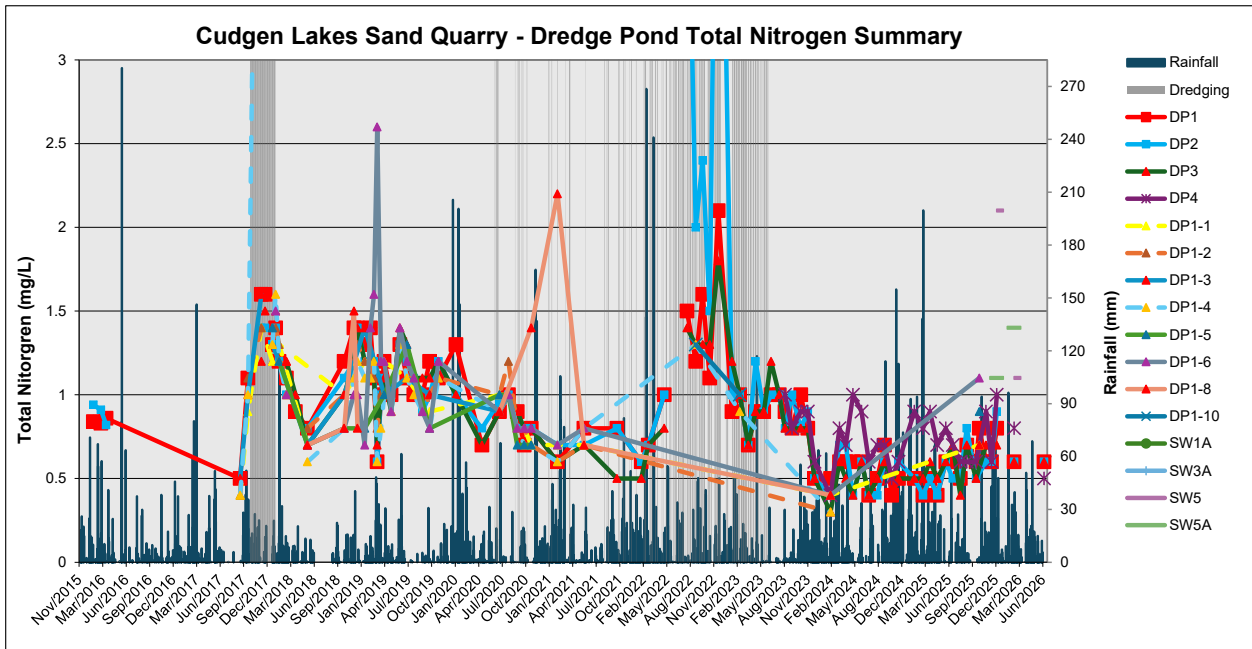
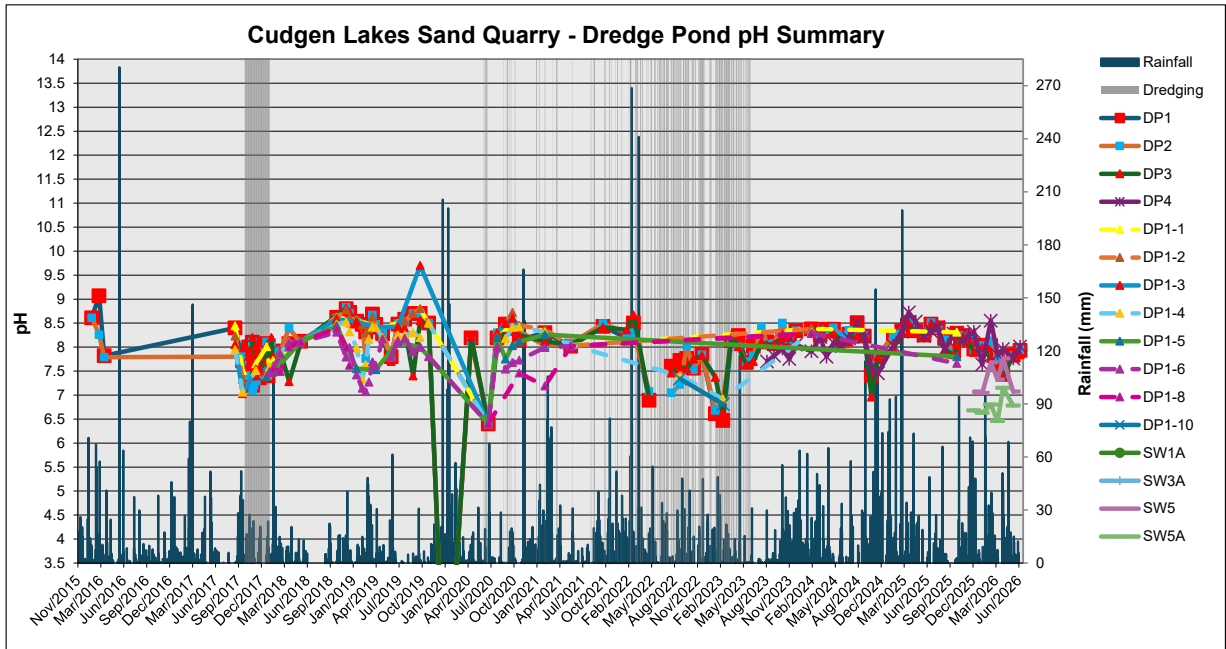
Monitoring Location Map - Surface Water



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.

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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	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	<7250	>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, cattle & 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/chlorophyll 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																																

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																														5	4	
		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				
	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	5.69	-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	
	2026-04-15	Clear		0.75	24.5	7.43	4099	4.67	-45.1		5.7																				7380	5	
	2026-05-27	Clear		0.95	22.8	7.83	3890	6.31	-53.5		4.9																				3970	2	

	2026-06-24	Clear	0.9	17.3	7.93	3529	8.59	53.3		3.9		610	104	88	23	1160	256	162	0.01	0.001	0.05	0.01	0.002	0.6	0.01	0.04	0.5	0.03	0.05			5	1
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Reporting Period (2025/2026)	Average	0.8	23.6	8.01	3893	6.15	1.6	0.0	4.1	0.0	587.8	104	84.6	22	1174.0	260.6	159.8	0.01	0.0014	0.05	0.02	0.00	0.64	0.02	0.02	0.62	0.04	0.03	0.0	0.0	1102	3
	Maximum	1.0	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	7380	7
	Minimum	0.7	17.1	7.43	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	2.3	23.5	8.02	3014	6.17	41.0	10.3	35.7	4.6	521.0	96	77.9	19	956.9	230.404	161.44	0.03	0.00157	0.05	0.04	0.00	0.89	0.01	0.08	0.81	0.05	0.10	394.3	403.2	13925	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
	80 th Percentile	7.0	27.0	8.40	4802	8.16	140.8	10.8	28.0	5.0	725.2	128	110	24	1334	318	209.4	0.03	0.002	0.05	0.05	0.01	1.20	0.01	0.10	1.18	0.08	0.30	444.0	828.0	13400	12
	Median (50 th Percentile)	0.8	23.6	8.09	3483	5.97	61.1	5.0	6.6	5.0	591.5	107	88	22	1140	263	166	0.01	0.002	0.05	0.02	0.00	0.84	0.01	0.01	0.70	0.02	0.02	110.0	120.0	470	6
	20 th Percentile	0.7	20.5	7.70	964	4.21	-73.4	5.0	3.3	4.2	302.6	57	37.2	10	430.4	108	124.4	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	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	<7250	>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/chlorophyll 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																							

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	
	2026-04-15	Clear	0.75		24.5	7.42	4086	4.79	-44.3		6.8																				7380	5	
	2026-05-27	Clear	0.95		22.6	7.82	3899	6.35	-49.3		3.1																				3970	2	
2026-06-24	Clear	0.9		17.3	7.95	3535	7.75																										

Reporting Period (2025/2026)	Average	0.8	23.4	7.98	3910	6.26	-9.7	0.0	4.1	0.0	596.8	105	85.5	23	1175.0	264.25	161.75	0.01	0.0015	0.05	0.08	0.00	0.64	0.02	0.02	0.61	0.04	0.03	0.0	0.0	1193	3
	Maximum	1.0	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	7380	7
	Minimum	0.7	17.0	7.42	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	2.4	23.5	8.00	3051	6.33	60.8	7.4	59.8	4.7	533.1	100	80.865	19	992.8	240.6	163.4	0.02	0.00163	0.05	0.07	0.00	1.00	0.01	0.08	0.91	0.05	0.11	159.9	208.1	18240	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
	80 th Percentile	7.0	27.1	8.40	4908	8.20	158.1	8.8	39.3	5.0	729.2	126	111.4	24	1340	318.4	201.8	0.03	0.002	0.05	0.06	0.01	1.20	0.01	0.11	1.18	0.07	0.31	180.0	340.0	14840	11
	Median (50 th Percentile)	0.8	23.2	8.08	3487	6.31	58.8	5.0	6.8	5.0	607.5	109	90	22	1170	280.5	165	0.01	0.002	0.05	0.02	0.00	0.90	0.01	0.01	0.75	0.03	0.02	100.0	120.0	593	6
	20 th Percentile	0.7	20.6	7.65	989	4.24	-77.3	5.0	3.5	4.6	365.2	72	54	14	716.4	174.4	130	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	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	<7250	>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/chororophyll 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		
2018/2019		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.																												

Reporting Period (2025/2026)	Average	0.8	23.6	7.91	3908	6.25	-8.0	0.0	4.9	0.0	594.5	105	85.25	22	1175	264	161.75	0.01	0.0015	0.05	0.02	0.00	0.61	0.02	0.02	0.59	0.02	0.03	0.0	0.0	1193	3
	Maximum	1.0	28.2	8.40	4374	9.03	143.8	0.0	8.6	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	7380	7
	Minimum	0.7	17.4	7.38	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
	Average	2.4	23.4	7.96	3130	6.24	42.5	8.7	35.6	5.0	558.16	104	84.4694	20	1041.33	251.592	168.61	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	18730	8
All Results	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	0.29	0.01	1.80	0.05	0.45	1.50	0.55	0.60	330.0	1620.0	418000	48
	80 th Percentile	7.0	26.8	8.36	4845	8.01	151.4	11.2	31.5	5.0	721	128	110	24	1320	318	224	0.03	0.002	0.05	0.05	0.01	1.20	0.01	0.11	1.10	0.05	0.31	126.0	216.0	20160	12
	Median (50 th Percentile)	0.8	23.3	8.01	3500	6.28	57.5	5.0	6.8	5.0	609	110	93	22	1170	279	168	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	593	6
	20 th Percentile	0.7	20.6	7.60	1106	4.33	-73.3	5.0	2.9	5.0	440	87	67	18	845	191	136	0.01	0.001	0.05	0.01	0.00	0.58	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
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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	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 Cynobacteria	Chlorophyll a			
Objectives			-	-	6.5-9.0	<7250	>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	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	
	2026-04-15	Slightly turbid	0.1	24.6	7.96	3377	4.38	-73.5		6.4																								9560	5	
	2026-05-27	Slightly turbid	0.6	22.3	7.76	3373	6.01	-64.2		6.2																								4960	8	
	2026-06-24	Slightly turbid	0.6	17.2	8.01	2958	7.53	-0.8		14.2		492	108	71	20	953	221	186	0.02	0.002	0.05	0.03	0.005	0.5	0.01	0.02	0.5	0.04	0.03				475	6		

Reporting Period (2025/2026)	Average	0.3	24.1	8.09	3008	6.21	-46.8	0.0	12.7	0.0	449	106	66.0	18	902.5	227.25	173.5	0.02	0.0015	0.05	0.04	0.01	0.70	0.01	0.01	0.70	0.03	0.01	0.0	0.0	32639	8
	Maximum	0.6	29.1	8.55	3583	9.95	90.5	0.0	32.2	0.0	492	108	71	20	953	246	186	0.02	0.002	0.05	0.09	0.02	1.00	0.02	0.02	1.00	0.06	0.03	0.0	0.0	200000	24
	Minimum	-0.1	17.2	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	0.50	0.01	0.01	0.50	0.01	0.01	0.0	0.0	5	2
All Results	Average	0.1	23.9	8.07	2518	6.83	-51.2	0.0	18.9	0.0	329.1	106	53.8	15	634.0	232.7	156.3	0.03	0.001167	0.05	0.03	0.00	0.75	0.01	0.05	0.70	0.03	0.12	0.0	0.0	23569	7
	Maximum	4.0	30.2	8.72	3956	9.95	115.7	0.0	116.9	0.0	492	150	73	20	953	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
	80 th Percentile	0.4	27.5	8.32	3259	8.70	-45.8	0.0	24.7	0.0	450.2	138	69.2	18	890.2	325.6	186	0.04	0.0014	0.05	0.04	0.00	0.90	0.01	0.02	0.80	0.06	0.27	0.0	0.0	17800	9
	Median [50 th Percentile]	0.1	24.5	8.04	2576	6.76	-64.6	0.0	12.5	0.0	321	107	59	16	614.5	227.5	166	0.01	0.001	0.05	0.03	0.00	0.75	0.01	0.01	0.70	0.02	0.01	0.0	0.0	698	5
	20 th Percentile	-0.1	20.1	7.80	1920	5.05	-82.9	0.0	6.8	0.0	221.8	80	36.2	11	469.2	174.4	123.6	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

DP1-1			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	<7250	>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					
	2019-07-03			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 / 2020	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
	80 th 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 (50 th 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
	20 th 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

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 mo/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	-	-
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			
2018/2019	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			
	2018-10-25			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																														5	8			
2020/2021				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					
	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																		

Site: DP1-3			Physical									Major Cations & Anions								Metals			Nutrients										Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	Electrical Conductivity µS/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	<7250	>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											0.01	0.002	0.05	0.04	0.01	1.3	0.01	0.01	1.3	0.3	0.01	10	10					
	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.																																		
2018 / 2019	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			
	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	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			
2017/2018	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	-	-			
	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			
Reporting Period (2025/2026)	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			
	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			
All Results	80 th 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 (50 th 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			
	20 th 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

DP1-4			Physical									Major Cations & Anions								Metals			Nutrients										Bacteria / Algae				
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	Electrical Conductivity µS/cm	Dissolved Oxygen mg/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	<7250	>6			<20	10	<813		<119	<40	<1390	<800	<400	<0.5	<0.42	<20							<20		<1000/100	<230/100	<50000	<10			
Pre-E	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 (2021/2022)	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																	

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
	80 th 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 (50 th 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
	20 th 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

Site: DP1-5			Physical									Major Cations & Anions								Metals			Nutrients										Bacteria / Algae			
Sample Date	Comments/ Flow		Water Level m AHD	Temp °C	pH	Electrical Conductivity µS/cm	Dissolved Oxygen mg/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			
			-	-	6.5-9.0	<7250	>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.																																		
2018 / 2019	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				
	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
	80 th 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 (50 th 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
	20 th 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 µS/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	<7250	>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			
2018/2019	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			
	2018-10-25		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
	80 th 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 (50 th 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
	20 th 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
			-																													

Site: DP1-8			Physical									Major Cations & Anions							Metals				Nutrients										Bacteria / Algae			
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	Electrical Conductivity µS/cm	Dissolved Oxygen mg/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			
			-	-	6.5-9.0	<7250	>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.																																		
2018/2019	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			
	2018-10-25		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																																			
2019/2020	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			
		80 th 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 (50 th 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			
		20 th 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 µS/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
	80 th 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 (50 th 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
	20 th 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	Electrical Conductivity µS/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		
			-	-	6.5-8.5	<7250	>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	Objectives																				7.58											
	8/03/2005																					25											
	8/03/2006																																
	10/05/2006																																
	5/06/2006																																
	13/07/2007																																
	26/10/2007																																
	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																																	
2020/2021	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		
	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.																												

Site: SW3A			Physical										Major Cations & Anions							Metals			Nutrients							Bacteria / Algae	
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	Electrical Conductivity µS/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	<7250	>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. Aprox 80mm rain 21 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																					
	15/04/2026	Milky/grey colour, heavily vegetated	0.6	20.4	7.88	3882	1.37	-68.1		13.4																					
	27/05/2026	Milky/grey colour, heavily vegetated	0.58	20.6	6.66	1977	0.09	-0.6		14.1																					
	24/06/2026	Milky/grey colour, heavily vegetated	0.59	16.7	7.52	3628	2.78	-37.3		41.7		548	121	78	20	1080	235	173	0.01	0.001	0.1	0.04	0.016	0.6	0.01	0.01	0.6	0.08	0.01		

Reporting Period (2025/2026)	Average		0.599	21.9	7.45	3229.7	0.97	-69.29	0	68.2	0	426	143	67.3	17	888	198	240	0.01	0.00	0.11	0.14	0.092	1.30	0.01	0.01	1.3	0.53	0.01	0	0
	Maximum		0.630	26.4	8	3882	2.78	-0.6	0	143	0	548	157	78	20	1080	235	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	16.7	6.66	1977.0	0.09	-224.5	0	13.4	0	362	121	60	15	790	168	173	0.01	0.001	0.1	0.04	0.016	0.6	0.01	0.01	0.6	0.08	0.01	0	0
	Average		0.60	22.0	7.28	1189	4.03	107.3	25	44.3	4	240	89.722	45	13	468	145	203	0.540	0.002	3.67	0.308	0.072	1.78	0.0143	0.02	1.77	0.16	0.02	599	795
All Results	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
	80 th Percentile		0.78	23.8	7.80	2730	5.10	204.6	34	105.3	5	388	153	66	18	817	241	298	0.032	0.003	0.77	0.620	0.157	2.55	0.01	0.02	2.55	0.13	0.02	1244	1336
	Median (50 th Percentile)		0.62	21.7	7.44	536	4.17	141.0	17	16.9	5	150	91	46	13	264	76	205	0.015	0.002	0.30	0.195	0.055	1.60	0.01	0.01	1.60	0.03	0.02	270	360
	20 th Percentile		0.53	20.3	6.96	187	2.52	-1.3	7	10.2	4	76	35.8	18	5	133	25	104	0.010	0.001	0.13	0.088	0.009	0.98	0.01	0.01	0.98	0.02	0.01	10	88
	Minimum		0.05	15.7	3.99	16	0.09	-224.5	5	2.3	2	63	13	9	4	80	15	1	0.010	0.001	0.10	0.040	0.001	0.60	0.01	0.01	0.60	0.01	0.01	10	10

Site: SWS		Physical										Major Cations & Anions							Metals			Nutrients								Bacteria / Algae	
Sample Date		Comments/ Flow	Water level m AHD	Temp °C	pH	Electrical Conductivity µS/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	<7250	>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
	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		
2020/2021	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																					
	15/04/2026	Algae and sludge in water, heavily vegetated	0.44	20.8	7.76	715	1.09	-61.2		45.6																					
	27/05/2026	Algae and sludge in water, heavily vegetated	0.36	20.5	7.07	1727	0.2	-24.2		5.3																					
	24/06/2026	Algae and sludge in water, heavily vegetated	0.36	16	6.66	2170	5.46	38.2		16.6		370	87	56	14	715	141	174	0.01	0.001	0.36	0.04	0.008	0.7	0.01	0.01	0.7	0.11	0.02		

Reporting Period (2025/2026)	Average		0.409	22.0	7.23	997.0	1.88	-29.77	0	16.6	0	156	61	27.7	7	292	62	165	0.01	0.00	0.68	0.33	0.031	1.30	0.01	0.01	1.3	0.13	0.01	0	0
	Maximum		0.450	26.37	8	2170	5.46	38.2	0	45.6	0	370	87	56	14	715	141	174	0.02	0.001	1.09	0.75	0.043	2.1	0.01	0.01	2.1	0.15	0.02	0	0
	Minimum		0.360	16	6.66	391.0	0.2	-64.3	0	2.2	0	47	48	13	4	68	21	151	0.01	0.001	0.36	0.04	0.008	0.7	0.01	0.01	0.7	0.11	0.01	0	0
All Results	Average		0.47	21.4	7.18	969	3.42	110.5	21	22.0	4	205	91.684	40	10	367	167	190	0.058	0.001	0.63	0.199	0.025	1.95	0.01	0.03	1.79	0.17	0.17	256	572
	Maximum		0.73	28.1	7.98	4296	10.79	227.0	58	75.5	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
	80 th Percentile		0.64	23.4	7.55	1726	4.60	194.0	41	38.9	5	265	133	56	14	520	316	254	0.060	0.001	1.09	0.230	0.042	2.70	0.01	0.05	2.44	0.15	0.05	436	992
	Median (50 th Percentile)		0.49	21.2	7.10	532	3.47	144.0	14	16.6	5	175	75	40	9	306	139	192	0.010	0.001	0.52	0.120	0.012	2.00	0.01	0.01	1.44	0.10	0.02	140	510
	20 th Percentile		0.32	20.1	6.86	255	1.52	-4.3	5	6.6	4	51	36	14	5	92	25	150	0.010	0.001	0.25	0.060	0.007	1.10	0.01	0.01	1.00	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	0.70	0.01	0.01	0.01	0.01	0.01	10	60

SW5A			Physical									Major Cations & Anions								Metals			Nutrients										Bacteria / Algae	
Sample Date		Comments/ Flow	Water Level m AHD	Temp °C	pH	Electrical Conductivity µS/cm	Dissolved Oxygen mg/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	<7250	>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																								

Reporting Period (2025/2026)	Average	0.521	21.2	6.77	1151.1	1.16	-16.30	0	11.6	0	199	48	32.0	9	369	83	137	0.03	0.00	0.79	0.13	0.034	1.57	0.01	0.46	1.1	0.10	0.46	0	0
	Maximum	0.550	23.62	7	2734	3.73	14.7	0	28.3	0	477	85	67	17	924	206	152	0.07	0.001	1.27	0.21	0.066	2.2	0.01	1.35	1.4	0.18	1.35	0	0
	Minimum	0.490	16.2	6.46	43.0	0.08	-50.2	0	3.7	0	56	28	14	5	87	18	123	0.01	0.001	0.42	0.05	0.017	1.1	0.01	0.01	0.8	0.05	0.01	0	0
All Results	Average	0.50	21.1	6.95	518	2.93	75.5	18	49.3	4	94	30,521	17	5	162	48	92	0.083	0.001	1.05	0.193	0.021	1.32	0.01	0.11	1.13	0.04	0.20	605	1252
	Maximum	0.82	26.6	7.90	3965	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	2.20	0.01	1.35	1.91	0.18	1.35	2640	3120
	80 th Percentile	0.71	23.3	7.27	617	4.03	163.6	25	86.0	5	83	31	15	6	97	28	132	0.040	0.001	1.27	0.250	0.042	1.90	0.01	0.01	1.46	0.06	0.02	996	2142
	Median (50 th Percentile)	0.53	21.2	6.95	285	3.33	84.5	15	12.7	5	39	16	9	4	56	15	76	0.010	0.001	0.68	0.210	0.018	1.20	0.01	0.01	1.12	0.03	0.01	350	970
	20 th Percentile	0.26	19.3	6.69	193	1.32	-22.3	10	5.3	4	28	12	8	1	39	6	50	0.010	0.001	0.19	0.120	0.002	1.00	0.01	0.01	0.80	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	0.050	0.001	0.70	0.01	0.01	0.01	0.01	0.01	10	80