### **Environmental Monitoring Report**

### Groundwater monitoring

The quarry monitors a series of groundwater boreholes on site and on the neighbouring premises. Monitoring requirements for these boreholes stem from the Groundwater Management Plan, and the Killalea Lagoon Management Plan, which together form part of the Water Management Plan required under Schedule 3, Condition 24 of Project Approval MP 08\_0143.

The scope of this report is groundwater monitoring data sampled, analysed, and reported by an external laboratory. Other required groundwater monitoring data, which is collected by Hanson, is outside of the scope of this report and is instead included in the Annual Review.

Killalea lagoon groundwater management and monitoring plan							
Sampling requirement	Location	Frequency					
Temperature	BT1201	Monthly					
Electrical Conductivity (EC)	BT1202	Monthly					

Groundwater management and monitoring plan							
Sampling requirement	Frequency	Location					
Temperature Electrical Conductivity (EC)	Monthly	BT703 BH1 (destroyed November 2017) BT0702 BT1201 (destroyed 2016) BT1202					
pH Electrical Conductivity (EC) Total Dissolved Solids (TDS) Total Phosphorus (TP) (dissolved and recoverable) Total Kjeldahl Nitrogen (TKN) Nitrate + nitrite (dissolved) (NOx) Major Anions (Cl, SO4, Alkalinity) Mg	Quarterly	BT703 BH1 (destroyed November 2017) BT0702					

### Notes

The extensive quarterly groundwater monitoring programme commenced in August 2015. Cross-shaded cells indicate destroyed and/or inaccessible boreholes

Parameter	unit			Sampling loc	ation	
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202
		2024	4			
		January	2024			
Electrical Conductivity (non compensated)	uS/cm		2470	1680		1770
Temperature Temperature	℃		19.9	20.4		19.3
Depth	m		25.8	8.08		19.2
		February	2024			
Н	pH Unit		7.2	5.4		7.8
Electrical Conductivity (non-compensated)	μS/cm		2110	1430		1480
Total Dissolved Solids @180*C	mg/L		1630	989		
remperature remains a series of the series o	℃		18.4	18.3		18.7
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1		
Carbonate Alkalinity as CaCO3	mg/L		<1	<1		
Bicarbonate Alkalinity as CaCO3	mg/L		168	33		
Total Alkalinity as CaCO3	mg/L		168	33		
Sulfate as SO4 - Turbidimetric	mg/L		120	109		
Chloride	mg/L		620	447		
Calcium	mg/L		57	15		
Magnesium	mg/L		69	27		
Sodium	mg/L		266	270		
Potassium	mg/L		4	4		
Nitrite + Nitrate as N	mg/L					
Fotal Kjeldahl Nitrogen as N	mg/L		0.5	0.3		
Total Nitrogen as N	mg/L					
Total Phosphorus as P	mg/L		0.24	0.13		
Total Anions	meq/L		23.3	15.5		
Fotal Cations	meq/L		20.2	14.8		
onic Balance	%		7.23	2.37		
Depth	m		26.25	7.74		19.70
		March 2	2024			
Electrical Conductivity (non compensated)	uS/cm		2400	1710		1750
Temperature	℃		22.0	21.4		20.6
Depth	m		26.42	7.44		19.79
		April 2	024			
Electrical Conductivity (non compensated)	uS/cm		2240	1670		1660
Temperature	℃		17.9	18.0		16.8
Depth	m		24.92	6.93		19.25
		2023	3			
		January	2023			
Electrical Conductivity (non compensated)	uS/cm		2560	1850		1680

### Environmental Monitoring Report

		tion				
Parameter	unit	BH1	BT0702	Sampling local	BT1201	BT1202
Temperature	℃	BIII	18.3	17.9	BITZOT	18.1
Depth	m		26.48	5.58		20.30
·		February	2023			a
рН	pH Unit		7.0	5.7		7.7
Electrical Conductivity (non-compensated)	μS/cm		2170	1780		1620
Total Dissolved Solids @180*C	mg/L		1490	968		
Temperature	°C		20.5	20.4		20
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1		
Carbonate Alkalinity as CaCO3	mg/L		<1	<1		
Bicarbonate Alkalinity as CaCO3	mg/L		160	32		
Total Alkalinity as CaCO3	mg/L		160	32		
Sulfate as SO4 - Turbidimetric	mg/L		95	82		
Chloride	mg/L		628	520		
Calcium	mg/L		57 64	20 26		
Magnesium Sodium	mg/L mg/L		280	266		
Potassium	mg/L		3	3		
Nitrite + Nitrate as N	mg/L					
Total Kjeldahl Nitrogen as N	mg/L		0.5	0.3		
^Total Nitrogen as N	mg/L					
Total Phosphorus as P	mg/L		0.12	0.02		
Total Anions	meq/L		22.9	17		
Total Cations	meq/L		20.4	14.8		
lonic Balance	%		5.83	7.01		
Depth	m		24.4	6.37		19.5
		March 2	023			
Electrical Conductivity (non compensated)	uS/cm		2720	1860		1710
Temperature	°C		19.0	18.3		18.0
Depth	m		26.52	6.74		20.24
	T	April 20	78		N	2
Electrical Conductivity (non compensated)	uS/cm		2530			1580
Temperature	℃		18.2			17.9
Depth	m		26.11			19.81
	1	May 20	7	lo o		10.0
DH	pH Unit		7.2	6.0		8.0
Electrical Conductivity (non compensated)  Total Dissolved Solids @180*C	μS/cm mg/L		2550 1400	1850 954		1710
Temperature	°C		17.5	18.0		18.4
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1		
Carbonate Alkalinity as CaCO3	mg/L		<1	<1		
Bicarbonate Alkalinity as CaCO3	mg/L		174	68		
Total Alkalinity as CaCO3	mg/L		174	68		
Sulfate as SO4 - Turbidimetric	mg/L		100	79		
Chloride	mg/L		627	453		
Calcium	mg/L		60	26		
Magnesium	mg/L		74	26		
Sodium	mg/L		292	267		
Potassium	mg/L		2	3		
Nitrite + Nitrate as N	mg/L					
Total Kjeldahl Nitrogen as N	mg/L		0.2	0.5		
^Total Nitrogen as N	mg/L					
Total Phosphorus as P	mg/L		0.22	0.58		
Depth	m		26.25	8.59		19.96
		June 20	<i>a</i>		<u> </u>	4
Electrical Conductivity (non compensated)	uS/cm		2100	1580		1440
Temperature	℃		17.6	18.0		18.0
Depth	m		26.35	8.35		<u></u>
	1 0/	July 20	0	14000		14700
Electrical Conductivity (non compensated)	uS/cm		2610	1690		1700
Temperature	℃		17.0	17.7		17.1
Depth	m	August	27.1	9.11		20.4
NU .	nH I Init	August 2	7.4	5.6		7.0
Electrical Conductivity (non compensated)	pH Unit μS/cm		7.4 2500	5.6 1730		7.9 1760
Fotal Dissolved Solids @180*C	mg/L		1700			
	mg/L °C		4	1020 17.4		
Temperature Hydroxide Alkalinity as CaCO3	mg/L		16.4 <1	17.4  <1		17.1
Carbonate Alkalinity as CaCO3	mg/L mg/L		<1	<1 <1		
Bicarbonate Alkalinity as CaCO3			184	33		
noanuliate Aikallilly as CaCUs	mg/L		104	33		1- <del></del>

### Environmental Monitoring Report

		Sampling location						
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202		
Total Alkalinity as CaCO3	mg/L	DITT	184	33	BITZOT			
Sulfate as SO4 - Turbidimetric	mg/L		122	92				
Chloride	mg/L		646	456				
Calcium	mg/L		74	18				
Magnesium	mg/L		92	28				
Sodium	mg/L		339	282				
Potassium	mg/L		2	4				
Nitrite + Nitrate as N	mg/L							
Total Kjeldahl Nitrogen as N	mg/L		0.2	0.5				
^ Total Nitrogen as N	mg/L							
Total Phosphorus as P	mg/L		0.11	0.14				
Total Anions	meg/L		24.40	15.4				
Total Cations	meq/L		26.10	15.6				
Total Balance	%		3.21	0.43				
Depth	m		26.7	8.18		20.4		
2001	1	September	1	10.10		4		
Electrical Conductivity (non compensated)	uS/cm		2510	1660		1660		
Temperature	°C		17.8	18.3		17.8		
Depth	m		26.7	7.66		20.4		
		October 2	a		<u> </u>	a -		
Electrical Conductivity (non compensated)	uS/cm		2670	1740		1780		
Temperature	°C		18.8	18.6		18.8		
Depth	m		26.91	8.06		20.41		
	, ·	November	8	12.00	<u> </u>	al=		
pH	pH Unit		7.2	5.3		7.6		
Electrical Conductivity (non compensated)	μS/cm		2220	1430		1460		
Total Dissolved Solids @180*C	mg/L		1790	986				
Temperature	°C		17.8	17.9		17.8		
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1				
Carbonate Alkalinity as CaCO3	mg/L		<1	<1				
Bicarbonate Alkalinity as CaCO3	mg/L		153	17				
Total Alkalinity as CaCO3	mg/L		153	17				
Sulfate as SO4 - Turbidimetric	mg/L		115	97				
Chloride	mg/L		718	481				
Calcium	mg/L		65	16				
Magnesium	mg/L		79	24				
Sodium	mg/L		295	251				
Potassium	mg/L		2	4				
Nitrite + Nitrate as N	mg/L							
Total Kjeldahl Nitrogen as N	mg/L		0.1	0.4				
^ Total Nitrogen as N	mg/L							
Total Phosphorus as P	mg/L		0.09	0.08				
Total Anions	meq/L		25.7	15.9				
Total Cations	meq/L		22.6	13.8				
Ionic Balance	%		6.36	7.18				
			1					
Depth	m	December	26.08	7.63		19.54		
Electrical Conductivity (non-semanasty -1)	uS/cm	December	1600	1420		1500		
Electrical Conductivity (non compensated) Temperature	°C		18.7	18.8		18.7		
Depth	m		26.0	8.90		19.4		
рериі		2022	a	0.30		13.4		
		January 2						
Electrical Conductivity (non-semanasty -1)	uS/cm	January 2	2500	1800		1680		
Electrical Conductivity (non compensated) Temperature	°C		20.0	18.0		20.1		
'	m		24.48	4.70		19.27		
Depth	J***	February		T10		13.21		
pH	pH Unit	I estuary.	7.2	5.8		7.9		
Electrical Conductivity (non-compensated)	μS/cm		2650	1730		1610		
Total Dissolved Solids @180*C	mg/L		1760	997				
	mg/L I°C		28.0	19.8		21.3		
Temperature	mg/L			19.8 <1		21.3		
Hydroxide Alkalinity as CaCO3  Carbonate Alkalinity as CaCO3			<1					
•	mg/L		<1	<1 47				
Bicarbonate Alkalinity as CaCO3	mg/L		178 178	47				
Total Alkalinity as CaCO3	mg/L		4	ļ				
Sulfate as SO4 - Turbidimetric	mg/L		115	98				
Chloride	mg/L		756	495				
Calcium	mg/L		80	30				
Magnesium	mg/L		90	35				
Sodium	mg/L		325	260				

### Environmental Monitoring Report

Parameter	201 BT1202 20.56 1720 17.1 18.2 17.2
Potassium	7.9 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2
With the Nitrate as N   mg/L	7.9 1720 17.1 18.2 7.9 1700  17.2 
Protal Nitrogen as N   mg/L	7.9 1700 17.1 18.2 7.9 1700  17.2 
Total Phosphorus as P   mg/L   0.10   0.02   0.02   0.00	7.9 1700 17.1 18.2 7.9 1700 
Depth	20.56  1720 17.1 18.2  7.9 1700 17.2
Color   Colo	7.9 1700 17.1 18.2  7.9 1700 17.2
US/cm	7.9 1700 17.1 18.2  7.9 1700 17.2
Temperature	7.9 1700 17.1 18.2  7.9 1700 17.2
Temperature	1720 17.1 18.2 7.9 1700  17.2  
Pepth   m	1720 17.1 18.2 7.9 1700  17.2  
April 2022	17.1 18.2 7.9 1700  17.2    
Section   Sect	17.1 18.2 7.9 1700  17.2    
Temperature	7.9 1700 17.2
May 2022	7.9 1700 17.2
Description	7.9 1700 17.2
PH Unit	1700 17.2
Felectrical Conductivity (non compensated)   Femoral Dissolved Solids @ 180°C   mg/L   682   960   Femorature   °C   17.3   17.4   17.4   17.4   17.4   17.4   17.4   17.4   17.4   17.4   17.5   17.4   17.5   17	1700 17.2
Fotal Dissolved Solids @180°C         mg/L         682         960           Femperature         °C         17.3         17.4           Hydroxide Alkalinity as CaCO3         mg/L         <1	17.2 
Temperature	17.2
Hydroxide Alkalinity as CaCO3	
Carbonate Alkalinity as CaCO3         mg/L         <1         <1           Gicarbonate Alkalinity as CaCO3         mg/L         126         44           Fotal Alkalinity as CaCO3         mg/L         126         44           Goulfate as SO4 - Turbidimetric         mg/L         76         96           Chloride         mg/L         298         468           Calcium         mg/L         16         23           Magnesium         mg/L         20         31           Sodium         mg/L         204         262           Potassium         mg/L         6         4           Nitrite + Nitrate as N         mg/L             Total Kjeldahl Nitrogen as N         mg/L         0.4         0.5           Total Nitrogen as N         mg/L             Total Phosphorus as P         mg/L         0.30         0.07           Depth         m         22.10         4.30           Electrical Conductivity (non compensated)         uS/cm         1120         1840           Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	
Scicarbonate Alkalinity as CaCO3	
Fotal Alkalinity as CaCO3         mg/L         126         44           Sulfate as SO4 - Turbidimetric         mg/L         76         96           Chloride         mg/L         298         468           Calcium         mg/L         16         23           Magnesium         mg/L         20         31           Sodium         mg/L         204         262           Potassium         mg/L         6         4           Nitrite + Nitrate as N         mg/L             Fotal Kjeldahl Nitrogen as N         mg/L         0.4         0.5           Total Nitrogen as N         mg/L             Total Phosphorus as P         mg/L         0.30         0.07           Depth         m         22.10         4.30           Electrical Conductivity (non compensated)         uS/cm         1120         1840           Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	
Sulfate as SO4 - Turbidimetric         mg/L         76         96           Chloride         mg/L         298         468           Calcium         mg/L         16         23           Magnesium         mg/L         20         31           Sodium         mg/L         204         262           Potassium         mg/L         6         4           Nitrite + Nitrate as N         mg/L             Total Kjeldahl Nitrogen as N         mg/L         0.4         0.5           N Total Nitrogen as N         mg/L             Total Phosphorus as P         mg/L         0.30         0.07           Depth         m         22.10         4.30           Electrical Conductivity (non compensated)         uS/cm         1120         1840           Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	
Chloride     mg/L     298     468       Calcium     mg/L     16     23       Magnesium     mg/L     20     31       Sodium     mg/L     204     262       Potassium     mg/L     6     4       Nitrite + Nitrate as N     mg/L         Total Kjeldahl Nitrogen as N     mg/L     0.4     0.5       N Total Nitrogen as N     mg/L         Total Phosphorus as P     mg/L     0.30     0.07       Depth     m     22.10     4.30       Electrical Conductivity (non compensated)     uS/cm     1120     1840       Temperature     °C     17.2     17.8       Depth     m     23.9     4.85	
Calcium         mg/L         16         23           Magnesium         mg/L         20         31           Sodium         mg/L         204         262           Potassium         mg/L         6         4           Nitrite + Nitrate as N         mg/L             Total Kjeldahl Nitrogen as N         mg/L         0.4         0.5           Notal Nitrogen as N         mg/L             Total Phosphorus as P         mg/L         0.30         0.07           Depth         m         22.10         4.30           Electrical Conductivity (non compensated)         uS/cm         1120         1840           Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	
Magnesium         mg/L         20         31           Sodium         mg/L         204         262           Potassium         mg/L         6         4           Nitrite + Nitrate as N         mg/L             Total Kjeldahl Nitrogen as N         mg/L         0.4         0.5           Total Nitrogen as N         mg/L             Total Phosphorus as P         mg/L         0.30         0.07           Depth         m         22.10         4.30           Electrical Conductivity (non compensated)         uS/cm         1120         1840           Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	
Godium         mg/L         204         262           Potassium         mg/L         6         4           Nitrite + Nitrate as N         mg/L             Total Kjeldahl Nitrogen as N         mg/L         0.4         0.5           N Total Nitrogen as N         mg/L             Total Phosphorus as P         mg/L         0.30         0.07           Depth         m         22.10         4.30           Depth         m         22.10         1120         1840           Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	
Potassium	
Nitrite + Nitrate as N   mg/L	
Total Kjeldahl Nitrogen as N   mg/L   0.4   0.5     N Total Nitrogen as N   mg/L         Total Phosphorus as P   mg/L   0.30   0.07     Depth   m   22.10   4.30     Depth   22.10   1840     Temperature   °C   17.2   17.8     Depth   m   23.9   4.85	<i>\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(\(</i>
Total Nitrogen as N   mg/L	
Total Phosphorus as P         mg/L         0.30         0.07           Depth         m         22.10         4.30           June 2022           Electrical Conductivity (non compensated)         uS/cm         1120         1840           Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	
Depth         m         22.10         4.30           June 2022           Electrical Conductivity (non compensated)         uS/cm         1120         1840           Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	
June 2022           Electrical Conductivity (non compensated)         uS/cm         1120         1840           Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	
Electrical Conductivity (non compensated)         uS/cm         1120         1840           Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	17.81
Temperature         °C         17.2         17.8           Depth         m         23.9         4.85	unnununununun
Depth <i>m</i> 23.9 4.85	1760
Validation of the Control of the Con	17.0
July 2022	17.7
· · · · · · · · · · · · · · · · · · ·	
Electrical Conductivity (non compensated) uS/cm 1800 1960	1590
Femperature         ℃         17.8         18.1	16.8
Depth   m   22.02   4.42	17.48
August 2022	
pH Unit 7.0 5.7	8.1
Electrical Conductivity (non compensated) µS/cm 2020 1980	1650
Total Dissolved Solids @180*C	
Temperature	16.8
Hydroxide Alkalinity as CaCO3 mg/L <1 <1	
Carbonate Alkalinity as CaCO3 mg/L <1 <1	
Bicarbonate Alkalinity as CaCO3 mg/L 150 32	
Total Alkalinity as CaCO3 mg/L 150 32	
Sulfate as SO4 - Turbidimetric mg/L 91 85	
Chloride	
Calcium	
Magnesium	
Sodium   mg/L   256   286	
Potassium mg/L 4 4	
Nitrite + Nitrate as N mg/L	
Fotal Kjeldahl Nitrogen as N mg/L 0.2 0.4	
Total Nitrogen as N mg/L	
Fotal Phosphorus as P mg/L 0.20 0.02	
Total Anions	
·	
Total Cations   Imag/l	
·	
Fotal Balance         %         6.14         5.70	
Fotal Balance         %         6.14         5.70           Depth         m         23.84         4.07	
Total Balance         %         6.14         5.70           Depth         m         23.84         4.07           September 2022	  17.83
Fotal Balance         %         6.14         5.70           Depth         m         23.84         4.07           September 2022           Electrical Conductivity (non compensated)         uS/cm         2230         1950	  17.83
Total Balance         %         6.14         5.70           Depth         m         23.84         4.07           September 2022	  17.83

### Environmental Monitoring Report

Parameter	unit			Sampling loca	ntion	
raiametei	unit	BH1	BT0702	BT0703	BT1201	BT1202
		October	2022			
Electrical Conductivity (non compensated)	uS/cm		1490	1910		1620
Temperature	℃		17.0	17.5		17.3
Depth	m		22.22	5.46		18.25
		November	r 2022			77
рН	pH Unit		7.0	5.9		7.7
Electrical Conductivity (non compensated)	μS/cm		1130	1860		1660
Total Dissolved Solids @180*C	mg/L		566	969		
Temperature	°C		24.8	19.7		19.3
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1		
Carbonate Alkalinity as CaCO3	mg/L		<1	<1		
Bicarbonate Alkalinity as CaCO3	mg/L		124	41		
Total Alkalinity as CaCO3	mg/L		124	41		
Sulfate as SO4 - Turbidimetric	mg/L		61	85		
Chloride	mg/L		256	523		
Calcium	mg/L		13	21		
Magnesium	mg/L		18	30		
Sodium	mg/L		180	278		
Potassium	mg/L		5	4		
Nitrite + Nitrate as N	mg/L					
Total Kjeldahl Nitrogen as N	mg/L		0.7	0.3		
^ Total Nitrogen as N	mg/L					
Total Phosphorus as P	mg/L		0.51	0.04		
Total Anions	meq/L		11.0	17.3		
Total Cations	meq/L		10.1	15.7		
Total Balance	%		4.19	4.93		
Depth	m		25.0	4.17		18.5
		December	2022	<u> </u>		<i>a</i>
Electrical Conductivity (non compensated)	uS/cm		1660	1900		1700
Temperature	°C		18.3	17.8		17.8
Depth	m		26.15	5.08		19.9
		2021	24		Viiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	24
		January :	2021			
Electrical Conductivity (non compensated)	uS/cm		1720	1540		1570
Temperature	℃		20.1	21		19.8
Depth	m		24.4	4.58		19.3
		February	//	1		
oH	pH Unit		6.3	5.8		7.8
Electrical Conductivity (non-compensated)	μS/cm		1950	1580		1600
Total Dissolved Solids @180*C	mg/L		1040	902		
Temperature	°C		19.9	19.7		19.3
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1		
Carbonate Alkalinity as CaCO3	mg/L		<1	<1		
Bicarbonate Alkalinity as CaCO3	mg/L		99	40		
Total Alkalinity as CaCO3	mg/L		/ <sub>1</sub> J J			
i olai / linaii iity ao UaUUU			99			
			99	40		
Sulfate as SO4 - Turbidimetric	mg/L		90	40 122		
Sulfate as SO4 - Turbidimetric Chloride	mg/L mg/L		90 529	40 122 424		
Sulfate as SO4 - Turbidimetric Chloride Calcium	mg/L mg/L mg/L		90 529 20	40 122 424 22		  
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium	mg/L mg/L mg/L mg/L		90 529 20 34	40 122 424 22 28		  
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium	mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318	40 122 424 22 28 249		  
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium	mg/L mg/L mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318 5	40 122 424 22 28 249 4		
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318 5	40 122 424 22 28 249 4		
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Fotal Kjeldahl Nitrogen as N	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318 5 	40 122 424 22 28 249 4 		   
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318 5 	40 122 424 22 28 249 4  0.4		
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^Total Nitrogen as N Total Phosphorus as P	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318 5  0.8 	40 122 424 22 28 249 4  0.4  0.03		
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Fotal Kjeldahl Nitrogen as N Total Nitrogen as N Fotal Phosphorus as P	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318 5  0.8  0.64 25.9	40 122 424 22 28 249 4  0.4		
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Fotal Kjeldahl Nitrogen as N Total Nitrogen as N Fotal Phosphorus as P Depth	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	March 2	90 529 20 34 318 5  0.8  0.64 25.9 <b>021</b>	40 122 424 22 28 249 4  0.4  0.03 4.46		      19
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Fotal Kjeldahl Nitrogen as N Total Nitrogen as N Fotal Phosphorus as P Depth Electrical Conductivity (non compensated)	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	March 2	90 529 20 34 318 5  0.8  0.64 25.9 <b>021</b>	40 122 424 22 28 249 4  0.4  0.03 4.46		      19
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Fotal Kjeldahl Nitrogen as N Total Nitrogen as N Fotal Phosphorus as P Depth Electrical Conductivity (non compensated) Femperature	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	March 2	90 529 20 34 318 5  0.8  0.64 25.9 021 2320 18.4	40 122 424 22 28 249 4  0.4  0.03 4.46		      19
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Fotal Kjeldahl Nitrogen as N Total Nitrogen as N Fotal Phosphorus as P Depth Electrical Conductivity (non compensated) Femperature	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318 5  0.8  0.64 25.9 021 2320 18.4 25.3	40 122 424 22 28 249 4  0.4  0.03 4.46		      19
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated) Temperature Depth	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	March 2	90 529 20 34 318 5  0.8  0.64 25.9 021 2320 18.4 25.3	40 122 424 22 28 249 4  0.4  0.03 4.46 1580 18.3 4.83		     19
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated) Temperature Depth	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318 5  0.8  0.64 25.9 021 2320 18.4 25.3 021	40 122 424 22 28 249 4  0.4  0.03 4.46 1580 18.3 4.83		      19 1580 18.8 18.2
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318 5  0.8  0.64 25.9 021 2320 18.4 25.3 021 2110 18.6	40 122 424 22 28 249 4 0.4 0.03 4.46  1580 18.3 4.83		19  1580 18.8 18.2
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	April 20	90 529 20 34 318 5  0.8  0.64 25.9 021 2320 18.4 25.3 021 2110 18.6 26.1	40 122 424 22 28 249 4  0.4  0.03 4.46 1580 18.3 4.83		      19 1580 18.8 18.2
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L		90 529 20 34 318 5  0.8  0.64 25.9 021 2320 18.4 25.3 021 2110 18.6 26.1	40 122 424 22 28 249 4 0.4 0.03 4.46  1580 18.3 4.83		19  1580 18.8 18.2
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature Depth	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	April 20	90 529 20 34 318 5  0.8  0.64 25.9 021 2320 18.4 25.3 021 2110 18.6 26.1	40 122 424 22 28 249 4 0.4 0.03 4.46  1580 18.3 4.83		19  1580 18.8 18.2
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature Depth Depth Depth	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	April 20	90 529 20 34 318 5  0.8  0.64 25.9 021 2320 18.4 25.3 021 2110 18.6 26.1	40 122 424 22 28 249 4 0.4 0.03 4.46  1580 18.3 4.83		19  1580 18.8 18.2 1600 18.5 19.9
Sulfate as SO4 - Turbidimetric Chloride Calcium Magnesium Sodium Potassium Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature Depth PH Electrical Conductivity (non compensated) Total Phosphorus as P Depth Depth	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	April 20	90 529 20 34 318 5  0.8  0.64 25.9 021 2320 18.4 25.3 021 2110 18.6 26.1	40 122 424 22 28 249 4 0.4 0.03 4.46  1580 18.3 4.83  1520 18.5 5.75		19  1580 18.8 18.2  1600 18.5 19.9

### Environmental Monitoring Report

		Sampling location						
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202		
Hydroxide Alkalinity as CaCO3	mg/L	BIII	<1	<1	BITZOT			
Carbonate Alkalinity as CaCO3	mg/L		<1	<1				
Bicarbonate Alkalinity as CaCO3	mg/L		174	50				
Total Alkalinity as CaCO3	mg/L		174	50				
Sulfate as SO4 - Turbidimetric	mg/L		94	113				
Chloride	mg/L		593	410				
Calcium	mg/L		64	22				
Magnesium	mg/L		71	26				
Sodium	mg/L		273	224				
Potassium	mg/L		5	5				
Nitrite + Nitrate as N	mg/L							
Total Kjeldahl Nitrogen as N	mg/L		0.8	0.4				
^ Total Nitrogen as N	mg/L							
Total Phosphorus as P	mg/L		0.29	0.04				
Depth	m		26.16	6.41		19.99		
2001	1	June 20	1	10		10.00		
Electrical Conductivity (non compensated)	uS/cm		2650	1710		1590		
Temperature	°C		18	18.4		17.9		
Depth	m		27.53	7.08		21.53		
		July 20	4					
Electrical Conductivity (non compensated)	uS/cm		2690	1750		1600		
Temperature	°C		18	18.3		18.4		
Depth	m		28	6.67		22		
		August 2						
рН	pH Unit		6.9	5.7		8.1		
Electrical Conductivity (non compensated)	μS/cm		2690	1800		1610		
Total Dissolved Solids @180*C	mg/L		1600	1100				
Temperature	℃		18.2	18.4		18		
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1				
Carbonate Alkalinity as CaCO3	mg/L		<1	<1				
Bicarbonate Alkalinity as CaCO3	mg/L		171	40				
Total Alkalinity as CaCO3	mg/L		171	40				
Sulfate as SO4 - Turbidimetric	mg/L		117	106				
Chloride	mg/L		670	457				
Calcium	mg/L		70	24				
Magnesium	mg/L		83	32				
Sodium	mg/L		334	282				
Potassium	mg/L		3	4				
Nitrite + Nitrate as N	mg/L							
Total Kjeldahl Nitrogen as N	mg/L		0.1	0.2				
^ Total Nitrogen as N	mg/L							
Total Phosphorus as P	mg/L		0.22	0.01				
Depth	m		26.68	4.94		20.29		
	1	September		1		4		
Electrical Conductivity (non compensated)	uS/cm		2770	1830		1620		
Temperature	°C		17.8	20		17.4		
Depth	m		27.76	6.85		21.69		
·		October 2	1			Ø		
Electrical Conductivity (non compensated)	uS/cm		2720	2160		1610		
Temperature	°C		17.4	16.9		17.1		
Depth	m		25.19	5.68		19.78		
		November	1	1		<u> </u>		
рН	pH Unit		6.4	5.7		8.1		
Electrical Conductivity (non compensated)	μS/cm		2160	1880		1420		
Total Dissolved Solids @180*C	mg/L		1340	1320				
Temperature	°C		17.9	18.4		17.8		
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1				
Carbonate Alkalinity as CaCO3	mg/L		<1	<1				
Bicarbonate Alkalinity as CaCO3	mg/L		96	55				
Total Alkalinity as CaCO3	mg/L		96	55				
Sulfate as SO4 - Turbidimetric	mg/L		100	99				
Chloride	mg/L		695	609				
Calcium	mg/L		40	43				
Magnesium	mg/L		55	45				
Sodium	mg/L		343	290				
Potassium	mg/L		4	3				
Nitrite + Nitrate as N	mg/L							
Total Kjeldahl Nitrogen as N	mg/L		0.6	0.2				
^ Total Nitrogen as N	_		U.6 	0.2				
Total Nitrogen as IV	mg/L		1	I				

### Environmental Monitoring Report

				Sampling location			
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202	
Total Phosphorus as P	mg/L		0.56	0.03	-7.20		
Depth	m		26.19	5.48		19.79	
	1	December					
Electrical Conductivity (non compensated)	uS/cm		2670	3040		1640	
Temperature	℃		18.7	19.7		18.4	
Depth	m		25.6	6.16		19.4	
		2020	a <u> </u>			<u></u>	
		January 2					
Electrical Conductivity (non compensated)	uS/cm		2840	1780		1540	
Temperature	°C		18.9	19.8		20.3	
Depth	m		26.5	5.3		20.3	
		February	7/	0.0			
DH	pH Unit		7	5.6		9.7	
Electrical Conductivity (non-compensated)	μS/cm		2000	1790		1480	
Fotal Dissolved Solids @180*C	mg/L		1290	1080			
Temperature	℃		20.7	19.2		19.9	
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1			
Carbonate Alkalinity as CaCO3	mg/L		<1	<1			
Bicarbonate Alkalinity as CaCO3	mg/L		167	29			
Total Alkalinity as CaCO3	mg/L		167	29			
Sulfate as SO4 - Turbidimetric	mg/L		108	130			
Chloride	mg/L		576	554			
Calcium	mg/L		55	26			
Magnesium	mg/L		59	30			
Sodium	mg/L		244	274			
Potassium	mg/L		3	3			
Nitrite + Nitrate as N	mg/L						
Fotal Kjeldahl Nitrogen as N	mg/L		1.4	0.3			
Total Nitrogen as N	mg/L						
Fotal Phosphorus as P	mg/L		0.15	1.12			
Depth	m m		25.15	5.17		19.66	
эсриг	1111	March 2	(A	0.17		13.00	
Electrical Conductivity (non compensated)	uS/cm	maron 2	2740	1800		1560	
Temperature	°C		18.8	18.7		18.7	
Depth	m		26.2	5.4		20.1	
<b>Эер</b> ш		April 20	2	J4		20.1	
Electrical Conductivity (non compensated)	uS/cm	April 20	2910	1690		1610	
Temperature	°C		18.3	18.9		18.4	
Depth	m		25.27	5.03		20.22	
<b>Бер</b> ш		May 20	9	3.03		20.22	
DH	pH Unit	Way 20	6.9	5.8		9	
Electrical Conductivity (non compensated)	μS/cm		2750	1560		1550	
Fotal Dissolved Solids @180*C	mg/L		1700	938			
Temperature	°C		17.7	18.2		18	
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1			
	mg/L		<u> </u>				
Carbonate Alkalinity as CaCO3 Bicarbonate Alkalinity as CaCO3			<1 148	<1 35			
	mg/L		<u> </u>	35			
Fotal Alkalinity as CaCO3 Sulfate as SO4 - Turbidimetric	mg/L		148 137	156			
	mg/L		<u> </u>				
Chloride	mg/L		819	454			
Calcium	mg/L		62 78	17 26			
Magnesium	mg/L		78 334	26			
Sodium	mg/L		334	3			
Potassium	mg/L			-			
Nitrite + Nitrate as N	mg/L						
Total Kjeldahl Nitrogen as N	mg/L		0.4	0.4			
`Total Nitrogen as N Fotal Phosphorus as P	mg/L						
	mg/L		0.34	0.02			
	m		25.9	5.12		20.2	
	m	1					
Depth		June 20	74	4540		4500	
Depth Electrical Conductivity (non compensated)	uS/cm	June 20	2840	1510		1560	
Depth  Electrical Conductivity (non compensated)  Femperature	uS/cm °C	June 20	2840 17.7	17.7		17.8	
Depth Electrical Conductivity (non compensated) Femperature	uS/cm		2840 17.7 26.5				
Depth  Electrical Conductivity (non compensated)  Femperature  Depth	uS/cm °C m	June 20 July 20	2840 17.7 26.5 <b>20</b>	17.7 4.89		17.8 20.2	
Depth  Electrical Conductivity (non compensated)  Temperature  Depth  Electrical Conductivity (non compensated)	uS/cm °C m		2840 17.7 26.5 <b>20</b> 2830	17.7 4.89		17.8 20.2 1570	
Depth  Electrical Conductivity (non compensated)  Temperature  Depth  Electrical Conductivity (non compensated)  Temperature	US/cm   °C   m   US/cm   °C		2840 17.7 26.5 <b>20</b> 2830 16.9	17.7 4.89 1350 17.5		17.8 20.2 1570 17.2	
Depth  Electrical Conductivity (non compensated) Temperature Depth  Electrical Conductivity (non compensated) Temperature Depth  Depth  Depth	uS/cm °C m		2840 17.7 26.5 <b>20</b> 2830 16.9 25.7	17.7 4.89		17.8 20.2 1570	

### Environmental Monitoring Report

				Sampling loca	tion	
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202
Electrical Conductivity (non compensated)	uS/cm	BIII	1300	1360	BITZOT	1560
Total Dissolved Solids @180*C	mg/L		559	686		
Temperature	°C		18.5	18.8		18.1
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1		
Carbonate Alkalinity as CaCO3	mg/L		<1	<1		
Bicarbonate Alkalinity as CaCO3	mg/L		122	35		
Total Alkalinity as CaCO3	mg/L		122	35		
Sulfate as SO4 - Turbidimetric	mg/L		86	153		
Chloride	mg/L		298	322		
Calcium	mg/L		17	16		
Magnesium	mg/L		17	21		
Sodium	mg/L		211	214		
Potassium	mg/L		5	3		
Nitrite + Nitrate as N	mg/L					
Total Kjeldahl Nitrogen as N	mg/L		0.3	0.4		
^ Total Nitrogen as N	mg/L					
Total Phosphorus as P	mg/L		0.17	0.04		
Depth	m		23.8	4.82		19.4
		September	r 2020			
Electrical Conductivity (non compensated)	uS/cm		2690	1310		1540
Temperature	℃		18.3	19.3		18.2
Depth	m		25.3	5.19		19.5
		October 2	2020			
Electrical Conductivity (non compensated)	uS/cm		2280	1360		1520
Temperature	°C		19.1	20		20.5
Depth	m		25.7	5.55		19.6
		November	2020			
рН	pH Unit		6.4	6.1		8.4
Electrical Conductivity (non compensated)	μS/cm		1800	1400		1590
Total Dissolved Solids @180*C	mg/L		998	812		
Temperature	℃		19.5	20.3		19.4
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1		
Carbonate Alkalinity as CaCO3	mg/L		<1	<1		
Bicarbonate Alkalinity as CaCO3	mg/L		123	42		
Total Alkalinity as CaCO3	mg/L		123	42		
Sulfate as SO4 - Turbidimetric	mg/L		86	140		
Chloride	mg/L		486	357		
Calcium	mg/L		23	17		
Magnesium	mg/L		33	22		
Sodium	mg/L		284	221		
Potassium	mg/L		5	3		
Nitrite + Nitrate as N	mg/L					
Total Kjeldahl Nitrogen as N	mg/L		<0.1	0.2		
^ Total Nitrogen as N	mg/L					
Total Phosphorus as P	mg/L		0.27	0.01		
Depth	m		26.2	5.06		19.6
	_	December	4			2
Electrical Conductivity (non compensated)	uS/cm		2330	1550		1580
Temperature	℃		18.2	18.6		18.9
Depth	m		24.7	4.82		19.5
		2019				
	1 0/	January 2	a e	Lia		<b>X</b>
Electrical Conductivity (non compensated)	uS/cm		1980	1670		
Temperature	℃		18.1	18.6		
Depth	m		24.2	6.5		
	1	February		1= :		<b>X</b>
pH	pH Unit		6	5.4		
Electrical Conductivity (non-compensated)	μS/cm		1920	1650		
Total Dissolved Solids @180*C	mg/L		1040	875		
Temperature	°C		22.6	21.7		
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1		
Carbonate Alkalinity as CaCO3	mg/L		<1	<1		
Bicarbonate Alkalinity as CaCO3	mg/L		100	23		
Total Alkalinity as CaCO3	mg/L		100	23		
Sulfate as SO4 - Turbidimetric	mg/L		88	113		
Chloride	mg/L		500	442		
Calcium	mg/L		22	18		
Magnesium	mg/L		36	27		
Sodium	mg/L		304	260		

### Environmental Monitoring Report

Parameter	unit			Sampling loca	tion	
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202
Potassium	mg/L		4	4		
Nitrite + Nitrate as N	mg/L					
Total Kjeldahl Nitrogen as N	mg/L		0.1	0.2		
^ Total Nitrogen as N	mg/L					
Total Phosphorus as P	mg/L		0.36	0.04		
Depth	m		25.2	6.5		
Бериі		March 2	4	0.5		<u> </u>
Electrical Conductivity (non compensated)	uS/cm	march 2	2240	1710		
Temperature	°C		18.2	18.4		
	m		25.07	6.53		
Depth	Įm	April 20	2	0.53		
Floatrical Conductivity (non-composited)	uS/cm	April 20	2060	1640		N.
Electrical Conductivity (non compensated)	°C					
Temperature			19.6	19.2		
Depth	m	May 20	24.9	5.67		
	1111 %	May 20		ls o		N.
pH	pH Unit		6.1	5.6		
Electrical Conductivity (non compensated)	μS/cm		2270	1760		
Total Dissolved Solids @180*C	mg/L		1180	887		
Temperature	℃		16.4	17.9		
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1		
Carbonate Alkalinity as CaCO3	mg/L		<1	<1		
Bicarbonate Alkalinity as CaCO3	mg/L		55	18		
Total Alkalinity as CaCO3	mg/L		55	18		
Sulfate as SO4 - Turbidimetric	mg/L		102	110		
Chloride	mg/L		504	399		
Calcium	mg/L		24	19		
Magnesium	mg/L		39	26		
Sodium	mg/L		334	250		
Potassium	mg/L		5	4		
Nitrite + Nitrate as N	mg/L					
Total Kjeldahl Nitrogen as N	mg/L		0.5	0.4		
^ Total Nitrogen as N	mg/L					
Total Phosphorus as P	mg/L		0.49	<0.01		
Depth	m		24.5	5.43		
Бериі	IIII	June 20	a	0.43		
Floatrical Canductivity (non-company)	uS/cm	Julie 20	a a	1720		X
Electrical Conductivity (non compensated)	°C		2410			
Temperature			17.7	18.3		
Depth	m	lulu 20	25.4	5.25		
	101	July 20	9	1,740		N.
Electrical Conductivity (non compensated)	uS/cm		2310	1740		
Temperature	℃		17.4	18.1		
Depth	m		24.4	5.08		
		August 2		T	VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	<b>X</b>
рН	pH Unit		7.3	5.6		
Electrical Conductivity (non compensated)	μS/cm		2830	1770		
Total Dissolved Solids @180*C	mg/L		1570	921		
Temperature	℃		18.3	18.3		
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1		
Carbonate Alkalinity as CaCO3	mg/L		<1	<1		
Bicarbonate Alkalinity as CaCO3	mg/L		151	30		
Total Alkalinity as CaCO3	mg/L		151	30		
Sulfate as SO4 - Turbidimetric	mg/L		121	109		
Chloride	mg/L		641	425		
Calcium	mg/L		75	18		
Magnesium	mg/L		90	28		
Sodium	mg/L		320	260		
Potassium	mg/L		2	3		
Nitrite + Nitrate as N	mg/L					
Total Kjeldahl Nitrogen as N	mg/L		<0.1	0.1		
	··················	V/////////////////////////////////////				
	ma/l		a			
^ Total Nitrogen as N	mg/L		0.06			
^ Total Nitrogen as N Total Phosphorus as P	mg/L		0.06	0.03		
^ Total Nitrogen as N		Santomb	0.06 25.5			
^Total Nitrogen as N Total Phosphorus as P Depth	mg/L m	September	0.06 25.5	0.03 5.31		
^ Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated)	mg/L m uS/cm	September	0.06 25.5	0.03 5.31		
^ Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated) Temperature	mg/L m uS/cm °C	September	0.06 25.5	0.03 5.31 1670 19.7		
^ Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated)	mg/L m uS/cm		0.06 25.5 - 2019	0.03 5.31		
^ Total Nitrogen as N Total Phosphorus as P Depth  Electrical Conductivity (non compensated) Temperature Depth	mg/L m uS/cm °C m	September 2	0.06 25.5 • 2019	0.03 5.31 1670 19.7 5.19		
^ Total Nitrogen as N Total Phosphorus as P Depth Electrical Conductivity (non compensated) Temperature	mg/L m uS/cm °C		0.06 25.5 - 2019	0.03 5.31 1670 19.7		

### **Environmental Monitoring Report**

				Sampling location			
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202	
Depth	m		25.6	5.29			
		November	2019	•			
pH	pH Unit		7	6		9.6	
Electrical Conductivity (non compensated)	μS/cm		2750	1770		1570	
Total Dissolved Solids @180*C	mg/L		1550	997			
Temperature	°C		20.1	22.3		22.6	
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1			
Carbonate Alkalinity as CaCO3	mg/L		<1 151	<1 29			
Bicarbonate Alkalinity as CaCO3  Total Alkalinity as CaCO3	mg/L mg/L		151	29			
Sulfate as SO4 - Turbidimetric	mg/L		122	117			
Chloride	mg/L		796	536			
Calcium	mg/L		68	18			
Magnesium	mg/L		89	32			
Sodium	mg/L		345	275			
Potassium	mg/L		3	4			
Nitrite + Nitrate as N	mg/L						
Total Kjeldahl Nitrogen as N	mg/L		<0.1	0.2			
^ Total Nitrogen as N	mg/L						
Total Phosphorus as P	mg/L		0.1	<0.01			
Depth	m	_	24.4	5.24		20.4	
		December	a	lae		M	
Electrical Conductivity (non compensated)	uS/cm		2560	1790		1570	
Temperature	°C		18.7	18.6		17.9	
Depth	m	2040	26.2	5.47		20.3	
		2018 January					
Electrical Conductivity (non-componented)	uS/om	January A	2	1540		1770	
Electrical Conductivity (non compensated)	uS/cm °C		2190 19.3	19.3		18.7	
Temperature Depth	m		25.4	9.81		19.4	
Бериі	111	February	<u>a                                    </u>	9.01		19.4	
Hq.	pH Unit	rebruary	6.5	5.4		9	
Electrical Conductivity (non-compensated)	μS/cm		2610	1610		1790	
Temperature	°C		21.8	20		19.6	
Depth	m		25.64	10.05		19.32	
		March 2	a			<u> </u>	
pH	pH Unit		6.3	5.6			
Electrical Conductivity (non-compensated)	μS/cm		1750	1640		1810	
Total Dissolved Solids @180*C	mg/L		870	857			
Temperature	°C		18.5	18.7		18.7	
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1			
Carbonate Alkalinity as CaCO3	mg/L		<1	<1			
Bicarbonate Alkalinity as CaCO3	mg/L		140	25			
Total Alkalinity as CaCO3	mg/L		140	25			
Sulfate as SO4 - Turbidimetric	mg/L		86	107			
Chloride	mg/L		407	432			
Calcium	mg/L		32	17			
Magnesium	mg/L		40	23			
Sodium	mg/L		216	231			
Potassium	mg/L		5	3			
Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N	mg/L mg/L		0.4	0.6			
^ Total Nitrogen as N	mg/L			0.6			
Total Phosphorus as P	mg/L		0.2	0.1			
Depth	m		25.18	9.46		19.16	
- op	···	April 20	7	10.70	VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		
Electrical Conductivity (non compensated)	uS/cm		2200	1630			
Temperature	°C		19.4	19.4			
Depth	m		24.9	8.98			
		May 20	18		***************************************		
рН	pH Unit		6.3	5.4			
Electrical Conductivity (non compensated)	μS/cm		2570	1620			
Total Dissolved Solids @180*C	mg/L		1460	870			
Temperature	°C		17.4	18.4			
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1			
Carbonate Alkalinity as CaCO3	mg/L		<1	<1			
Bicarbonate Alkalinity as CaCO3	mg/L		165	25			
Total Alkalinity as CaCO3	mg/L		165	25			
Total Alkalifity as CaCCS	····g/ =		1				

# Hanson Bass Point Quarry Environmental Monitoring Report

			The state of the s	Sampling locatio	n
Parameter	unit	BH1	BT0702	BT0703	BT1201 BT1202
Chloride	mg/L	БПІ	683	473	BITZUZ
Calcium	mg/L		58	16	
	mg/L		77	21	
Magnesium Sodium	mg/L		327	269	
Potassium	mg/L		2	3	
Nitrite + Nitrate as N	mg/L				
	_				
Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N	mg/L		0.5	0.3	
	mg/L				
Total Phosphorus as P	mg/L		0.07 25.2	0.03 9.06	
Depth	m	June 20	4	9.06	
Flantainal One destinite (range and a start)	uS/cm	June 20	1780	4.070	
Electrical Conductivity (non compensated)	°C			1670	
Temperature			17.3 25.5	18	
Depth	m	lub. 20	2	8.65	
	0/	July 20	7	14700	
Electrical Conductivity (non compensated)	uS/cm °C		1600	1700	
Temperature			17.3	18	
Depth	m		25	8.15	
-11	ml I I I in th	August 2	4	Is s	No.
pH	pH Unit		6.6	5.5	
Electrical Conductivity (non compensated)	μS/cm		2250	1560	
Total Dissolved Solids @180*C	mg/L		1190	686	
Temperature	℃		17.9	17.5	
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1	
Carbonate Alkalinity as CaCO3	mg/L		<1	<1	
Bicarbonate Alkalinity as CaCO3	mg/L		158	26	
Total Alkalinity as CaCO3	mg/L		158	26	
Sulfate as SO4 - Turbidimetric	mg/L		105	101	
Chloride	mg/L		613	445	
Calcium	mg/L		50	15	
Magnesium	mg/L		61	21	
Sodium	mg/L		281	228	
Potassium	mg/L		4	3	
Nitrite + Nitrate as N	mg/L				
Total Kjeldahl Nitrogen as N	mg/L		0.8	0.5	
^ Total Nitrogen as N	mg/L				
Total Phosphorus as P	mg/L		0.22	0.04	
Depth	m		25	8.15	
	T	September	01	1	<b>V</b>
Electrical Conductivity (non compensated)	uS/cm		2340	1670	
Temperature	℃		18.3	18.7	
Depth	m		25	7.82	
	T	October 2	a	T	V
Electrical Conductivity (non compensated)	uS/cm		1160	1620	
Temperature	℃		17.2	17.5	
Depth	m		24.2	7.53	
		November		T= -	
pH	pH Unit		7.1	5.6	
Electrical Conductivity (non compensated)	μS/cm		2260	1620	
Total Dissolved Solids @180*C	mg/L		1580	872	
Temperature	°C		19.4	18.7	
Hydroxide Alkalinity as CaCO3	mg/L		<1	<1	
Carbonate Alkalinity as CaCO3	mg/L		<1	<1	
Bicarbonate Alkalinity as CaCO3	mg/L		123	22	
Total Alkalinity as CaCO3	mg/L		123	22	
Sulfate as SO4 - Turbidimetric	mg/L		119	105	
Chloride	mg/L		725	477	
Calcium	mg/L		66	18	
Magnesium	mg/L		78	27	
Sodium	mg/L		322	269	
Potassium	mg/L		3	4	
Nitrite + Nitrate as N	mg/L				
Total Kjeldahl Nitrogen as N	mg/L		<0.1	0.2	
^ Total Nitrogen as N	mg/L				
Total Phosphorus as P	mg/L		0.12	0.02	
Depth	m		26.4	7.16	
<u> </u>	1 0/	December	01	Line	N.
Electrical Conductivity (non compensated)	uS/cm		2130	1640	
Temperature	℃		19.0	18.7	

### Environmental Monitoring Report

Parameter	unit			Sampling loca	ation	
raidilletei	unit	BH1	BT0702	BT0703	BT1201	BT1202
Depth	m		24.9	6.97		
		20				
	T	Januar	-		VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	<i>(()</i>
Electrical Conductivity (non compensated)	uS/cm	1140	2520	1550		1600
Temperature	℃	19.5	19.1	18.7		18.5
Depth	m	6.56	25.83	4.97		19.43
	T	Februar	y 2017			<b></b>
pH	pH Unit					
Total Dissolved Solids @180*C	μS/cm					
Total Phosphorus (dissolved & recoverable)	mg/L					
Total Kjeldahl Nitrogen as N	mg/L					
Major Anions - SO4	mg/L					
Major Anions - Cl	mg/L					
Major Anions - Na	mg/L					
Major Cations - K	mg/L	 				
Major Cations - Ca	mg/L					
Major Cations - Mg	mg/L					
Electrical Conductivity (non compensated)	μS/cm					
Temperature	℃					
Depth	m	March	2017			
Electrical Conductivity (non-constant)	uS/om	March		1400		1620
Electrical Conductivity (non compensated)	uS/cm °C	1050	1930	1400		1620
Temperature		21	18.1	18.7		17.7
Depth	m	1.45	24.79	4.69		18.97
51 10 . 1	0/	April		4450		4500
Electrical Conductivity (non compensated)	uS/cm	986	1330	1450		1590
Temperature	℃	20.2	18.3	18.3		18.1
Depth	m	1.1	23.34	4.13		18.66
-11	-1111-11	May 2		0.0		
pH	pH Unit	8 504	5.4	6.6		
Total Dissolved Solids @180*C	μS/cm	_	874	1550		
Total Phosphorus (dissolved & recoverable)	mg/L	0.06	0.61	0.02		
Total Kjeldahl Nitrogen as N	mg/L	0.6	0.5	0.4		
Major Anions - SO4	mg/L	151	89	81		
Major Anions - Cl	mg/L	101	552	400		
Major Anions - Na	mg/L	151	350	262		
Major Cations - K	mg/L	2	5	3		
Major Cations - Ca	mg/L	17	20	15		
Major Cations - Mg	mg/L	19	27	27		4740
Electrical Conductivity (non compensated)	μS/cm °C	830	1440	2430		1710
Temperature		20	18.1	17.6		17.2
Depth	m	1.68	4.28	23.2		18.7
<u> </u>	0/	June	_	4540		4700
Electrical Conductivity (non compensated)	uS/cm	984	1380	1510		1760
Temperature	℃	19.1	17.3	17.8		17.3
Depth	т	1.22	27.8	4.07		17.5
	T 0.	July :		la		
Electrical Conductivity (non compensated)	uS/cm	971	1560	2410		1750
Temperature	℃	18.6	17.3	17.2		17.8
Depth	m	1.73	4.07	25.38		18.75
all	-1115	Augus		ls o		
pH	pH Unit	8.1	6.2	5.6		
Total Dissolved Solids @180*C	μS/cm	438	947	680		
T-4-1 Dbb / P	mg/L	0.06	0.61	0.02		
Total Phosphorus (dissolved & recoverable)		0.0				
Total Kjeldahl Nitrogen as N	mg/L	0.6	0.5	0.4		
Total Kjeldahl Nitrogen as N Major Anions - SO4	mg/L mg/L	151	89	81		
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - Cl	mg/L mg/L mg/L	151 101	89 552	81 400		
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - CI Major Anions - Na	mg/L mg/L mg/L mg/L	151 101 151	89 552 350	81 400 262		
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - Cl Major Anions - Na Major Cations - K	mg/L mg/L mg/L mg/L mg/L	151 101 151 2	89 552 350 5	81 400 262 3		
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - CI Major Anions - Na Major Cations - K Major Cations - Ca	mg/L mg/L mg/L mg/L mg/L mg/L	151 101 151 2 17	89 552 350 5 20	81 400 262 3 15		
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - CI Major Anions - Na Major Cations - K Major Cations - Ca Major Cations - Mg	mg/L   mg/L	151 101 151 2 17	89 552 350 5 20 27	81 400 262 3 15 27		
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - CI Major Anions - Na Major Cations - K Major Cations - Ca Major Cations - Mg Electrical Conductivity (non compensated)	mg/L   μS/cm	151 101 151 2 17 19 946	89 552 350 5 20 27 2170	81 400 262 3 15 27 1560		    1780
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - CI Major Anions - Na Major Cations - K Major Cations - Ca Major Cations - Mg Electrical Conductivity (non compensated) Temperature	mg/L   μS/cm   °C   c   c   c   c   c   c   c   c   c	151 101 151 2 17 19 946 18.5	89 552 350 5 20 27 2170 17.5	81 400 262 3 15 27 1560 17.4		  1780 17.3
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - CI Major Anions - Na Major Cations - K Major Cations - Ca Major Cations - Mg Electrical Conductivity (non compensated) Temperature	mg/L   μS/cm	151 101 151 2 17 19 946 18.5 2.31	89 552 350 5 20 27 2170 17.5 25	81 400 262 3 15 27 1560		    1780
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - CI Major Anions - Na Major Cations - K Major Cations - Ca Major Cations - Mg Electrical Conductivity (non compensated) Temperature Depth	mg/L   μS/cm   °C   m   mg/L   mg	151 101 151 2 17 19 946 18.5 2.31	89 552 350 5 20 27 2170 17.5 25 per 2017	81 400 262 3 15 27 1560 17.4 4.21		  1780 17.3 18.8
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - CI Major Anions - Na Major Cations - K Major Cations - Ca Major Cations - Mg	mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   mg/L   μS/cm   °C   m   uS/cm   uS/cm   σC   m   σC   σC   σC   σC   σC   σC	151 101 151 2 17 19 946 18.5 2.31 Septemb	89 552 350 5 20 27 2170 17.5 25 per 2017 1600	81 400 262 3 15 27 1560 17.4 4.21		1730
Total Kjeldahl Nitrogen as N Major Anions - SO4 Major Anions - CI Major Anions - Na Major Cations - K Major Cations - Ca Major Cations - Mg Electrical Conductivity (non compensated) Temperature Depth	mg/L   μS/cm   °C   m   mg/L   mg	151 101 151 2 17 19 946 18.5 2.31	89 552 350 5 20 27 2170 17.5 25 per 2017	81 400 262 3 15 27 1560 17.4 4.21		  1780 17.3 18.8

# Hanson Bass Point Quarry Environmental Monitoring Report

				Sampling location	an .	
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202
Flanking Conductivity (non-constant)	uC/ama	882			B11201	
Electrical Conductivity (non compensated)	uS/cm °C	20.1	2230 18.6	1550 19.2		1720 18
Temperature	m	8.57	24	6.79		19
Depth	ļ <sup>111</sup>	November		0.79		19
-11	-1111-11	November	Z017	I		
pH	pH Unit					
Total Dissolved Solids @180*C	μS/cm					
Total Phosphorus (dissolved & recoverable)	mg/L					
Total Kjeldahl Nitrogen as N	mg/L					
Major Anions - SO4	mg/L					
Major Anions - CI	mg/L					
Major Anions - Na	mg/L					
Major Cations - K	mg/L					
Major Cations - Ca	mg/L					
Major Cations - Mg	mg/L					
Electrical Conductivity (non compensated)	μS/cm		2250	1560		1700
Temperature	°C		19.1	19.3		19.8
Depth	m		25.7	7.86		19.6
·	<u>'</u>	December	2017		Vananaanaanaanaanaanaa	<b>24</b>
Electrical Conductivity (non compensated)	uS/cm		2120	1550		1730
Temperature	°C		18.3	19.1		18.6
Depth	m		25.0	8.35		19.0
r-··	1,	2016	//a	10.00	VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
		January				
Flanting Orandorthite (non-comment of	LuC/om	985	1240	1350	610	1270
Electrical Conductivity (non compensated)	uS/cm					
Temperature	°C	21.4	18.7	18.6	18.0	18.0
Depth	m	1.05	25.3	4.19	9.12	19.4
	T	February			- V	2
рН	pH Unit	8.0	7.4	6.2		
Total Dissolved Solids @180*C	μS/cm	584	778	607		
Total Phosphorus (dissolved & recoverable)	mg/L	0.07	0.98	<0.01		
Total Kjeldahl Nitrogen as N	mg/L		4.0	0.1		
NOx	mg/L					
Major Anions - SO4	mg/L	141	79	92		
Major Anions - Cl	mg/L	108	340	348		
Major Anions - Na	mg/L	158	265	233		
Major Cations - K	mg/L	2	7	3		
Major Cations - Ca	mg/L	20	21	16		
Major Cations - Mg	mg/L	18	25	20		
Electrical Conductivity (non compensated)	μS/cm	934	1550	1360		1300
Temperature	°C	21.7	21.2	20.5		20.1
Depth	m	3.18	25.45	4.47		19.21
Берш		March 2		4.47		19.21
El				4000		14000
Electrical Conductivity (non compensated)	uS/cm	950	2660	1360		1360
Temperature	℃	20.2	18.7	18.8		19.5
Depth	m	3.22	25.5	4.88		19.6
	T	April 20			Vallanda	<b>2</b>
Electrical Conductivity (non compensated)	uS/cm	936	1380	2760		1460
Temperature	℃	21.0	20.6	19.4		19.7
Depth	m	3.25	25.7	4.7		19.4
		May 20	16		•	<b></b>
рН	pH Unit	7.7	7.2	5.2		
Total Dissolved Solids @180*C	μS/cm	549	1650	816		
Total Phosphorus (dissolved & recoverable)	mg/L	0.02	0.03	<0.01		
Total Kjeldahl Nitrogen as N	mg/L		0.2	0.2		
NOx	mg/L					
Major Anions - SO4	mg/L	140	115	90		
Major Anions - Cl	mg/L	105	664	345		
Major Anions - Na	mg/L	157	328	223		
Major Cations - K	mg/L	2	3	3		
Major Cations - Ca	mg/L	19	76	15		
мајог Cations - Ca Major Cations - Mg	mg/L	19	87	21		
•			2740			
Electrical Conductivity (non compensated)	μS/cm	933		1340		1300
Temperature	°C	20.1	20.0	19.1		18.6
Depth	m	3.29	25.4	4.55		19.2
		luno 20	J16			
	T	June 20				
Electrical Conductivity (non compensated)	uS/cm	941	1440	1190		1260
Temperature	°C	941 19.0	1440 16.8	19.3		16.6
• • • • • • • • • • • • • • • • • • • •	_	941	1440 16.8 24.6			

### Environmental Monitoring Report

		T T T T T T T T T T T T T T T T T T T		Sampling location	nn.	
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202
Electrical Conductivity (non compensated)	uS/cm	883	1940	1240	BITZUT	1280
Temperature	°C	18.6	18.3	18.4		18.6
·	m	1.86	24.6	4.0		18.1
Depth	ļ'''	August 2		4.0		10.1
pH	pH Unit	7.4	8.1	5.1		<b></b> -
Total Dissolved Solids @180*C	μS/cm	658	1230	730		
	ł'					
Total Phosphorus (dissolved & recoverable)	mg/L	0.04	0.5	0.02		
Total Kjeldahl Nitrogen as N	mg/L		0.3	<0.1		
NOx	mg/L					
Major Anions - SO4	mg/L	174	101	80		
Major Anions - Cl	mg/L	119	555	323		
Major Anions - Na	mg/L	185	366	220		
Major Cations - K	mg/L	2	5	3		
Major Cations - Ca	mg/L	27	24	14		
Major Cations - Mg	mg/L	21	38	18		
Electrical Conductivity (non compensated)	μS/cm	1080	2060	1280		1290
Temperature	°C	17.3	17.8	16.0		17.3
Depth	m	1.40	24.7	4.50		19.1
		Septembe	r 2016			*
Electrical Conductivity (non compensated)	uS/cm	1440	2160	1330		1360
Temperature	°C	18.0	18.0	18.1		18.0
Depth	m	1.41	26.1	4.48		19.15
	1	October		1		a
Electrical Conductivity (non compensated)	uS/cm	1160	2860	1380		1380
Temperature	°C	19.2	18.5	19.3		18.5
'	m	1.96	25.7	4.39		19.2
Depth	<u> </u>	November		4.39		19.2
11		1		15.0		
pH	pH Unit	7.9	5.9	5.3		
Total Dissolved Solids @180*C	μS/cm	608	1320	861		
Field Salinity	mg/L		0.2			
Total Phosphorus (dissolved & recoverable)	mg/L	0.10	0.60	<0.01		
Total Kjeldahl Nitrogen as N	mg/L	2.1	<0.1	0.3		
NOx	mg/L					
Major Anions - SO4	mg/L	155	91	76		
Major Anions - Cl	mg/L	122	611	373		
Major Anions - Na	mg/L	187	377	236		
Major Cations - K	mg/L	2	5	3		
Major Cations - Ca	mg/L	21	23	17		
Major Cations - Mg	mg/L	19	42	22		
Electrical Conductivity (non compensated)	μS/cm	1030	2310	1390		1560
Temperature	°C	22.8	21.3	21.1		20.9
Depth	m	2.18	25.27	5.05		19.38
Бери	<u> </u> '''	December		13.03		19.50
Floatrical Conductivity (non-company stad)	uS/cm	1140	2350	1550		1590
Electrical Conductivity (non compensated)	°C			18.8		4
Temperature		19.7	19.3			18.9
Depth	m	3.28	25.74	4.92		19.57
		2015				
<b>-</b>		January :		14450		<b>X</b>
Electrical Conductivity (non compensated)	uS/cm	831	2180	1150		
Temperature	℃	23.7	20.8	21.2		
Depth	m	0.8	26.8	4.08		
рН	pH Unit	6.6	6.6	5.0		
Salinity	mg/L	0.4	1.2	0.6		
		February	2015			
Electrical Conductivity (non compensated)	uS/cm	725	1670	1090		
Temperature	°C	22.3	20.5	19.7		
Depth	m	0.8	26.0	4.2		
pH	pH Unit	6.9	6.0	5.4		
Salinity	mg/L	0.4	0.9	0.6		
		March 2			•	
Electrical Conductivity (non compensated)	uS/cm	879	1810	1180		
Temperature	°C	23.1	19.4	19.1		
Depth	m	0.9	25.9	4.2		
рН	pH Unit	7.3	6.0	5.9		
·	mg/L	0.5				
Salinity	III9/L		6.0	5.9		X
EL (1.10 L. 11.11)	10/	April 20		14450		<b>X</b>
Electrical Conductivity (non compensated)	uS/cm	752	1260	1150		
Temperature	℃	20.9	18.3	19.0		
Depth	m	0.8	25.7	4.0		

### **Environmental Monitoring Report**

				Sampling loca	ation	
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202
 рН	pH Unit	7.0	5.8	5.2	BITZUT	DITEOE
Salinity	mg/L	0.4	0.7	0.7		
Caminty	IIIg/L	May 2		10.7		
Electrical Conductivity (non compensated)	uS/cm	747	1050	1270		
Temperature	°C	16.5	16.4	17.0		
	m	0.9	26.0	3.9		
Depth pH		7.4	6.6	5.2		
	pH Unit					
Salinity	mg/L	0.4	0.6	0.8		
51 · · · 10 · 1 · · · · /	0/	June 2		14470		
Electrical Conductivity (non compensated)	uS/cm	716	2180	1170		
Temperature	℃	18.1	17.9	19.4		
Depth	m	1.0	25.9	4.0		
pH	pH Unit	7.5	6.8	5.6		
Salinity	mg/L	0.4	1.3	0.7		
		July 2	015			
Electrical Conductivity (non compensated)	uS/cm	714	1920	1120		
Temperature	°C	16.4	17.5	18.0		
Depth	m	0.9	25.6	3.7		
pH	pH Unit	7.1	6.4	6.0		
Salinity	mg/L	0.4	1.2	0.7		
		August				
pH	pH Unit	7.3	7.2	5.8		
Total Dissolved Solids @180*C	μS/cm	473	1780	754		
Total Phosphorus (dissolved & recoverable)	mg/L	0.07	0.06	0.14		
Total Kjeldahl Nitrogen as N	mg/L	0.4	0.00	0.14		
Major Anions - SO4	mg/L	86	125	110		
Major Anions - Cl	mg/L	62	552	260		
Major Anions - Na	mg/L	148	326	212		
Major Cations - K	mg/L	3	86	18		
Major Cations - Ca	mg/L	18	77	17		
Major Cations - Mg	mg/L	14				
Electrical Conductivity (non compensated)	μS/cm	863	2720	1190	497	1300
Temperature	℃	16.8	18.1	18.4	17.9	19.1
Depth	m	1.07	25.8	4.1	9.73	19.9
·	•	Septemb	er 2015			•
Electrical Conductivity (non compensated)	uS/cm	867	2760	1200	518	1340
Temperature	°C	17.0	17.8	17.9	17.9	17.7
Depth	m	0.87	26.0	4.01	9.17	19.4
	1	Octobe		1.01	0	1.0.1
Electrical Conductivity (non compensated)	uS/cm	860	2450	1210	504	1290
Temperature	°C	19.5	20.3	18.4	19.4	19.3
			_			
Depth	m	1.15	25.3	3.93	9.09	19.4
		Novembe		T		<b></b>
pH	pH Unit	7.9	6.5	5.5		
Total Dissolved Solids @180*C	μS/cm	557	1520	721		
Total Phosphorus (dissolved & recoverable)	mg/L	0.02	0.09	<0.01		
Total Kjeldahl Nitrogen as N	mg/L	0.5	0.1	0.3		
Major Anions - SO4	mg/L	96	108	92		
Major Anions - CI	mg/L	106	616	318		
Major Anions - Na	mg/L	154	316	204		
Major Cations - K	mg/L	3	3	2		
Major Cations - Ca	mg/L	19	53	16		
,	mg/L	13	62	18		
•			2070	1220	514	1280
Major Cations - Mg Electrical Conductivity (non compensated)	μS/cm	865				<u> </u>
Major Cations - Mg Electrical Conductivity (non compensated)	_		_			19.2
Major Cations - Mg Electrical Conductivity (non compensated) Temperature	μS/cm °C	21.8	20.1	20.0	18.7	19.2 19.4
Major Cations - Mg Electrical Conductivity (non compensated) Temperature	μS/cm	21.8 1.48	20.1 25.3			19.2 19.4
Major Cations - Mg Electrical Conductivity (non compensated) Temperature Depth	μS/cm °C m	21.8 1.48 December	20.1 25.3 er 2015	20.0 4.20	18.7 9.12	19.4
Major Cations - Mg Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated)	μS/cm °C m uS/cm	21.8 1.48 December 1010	20.1 25.3 er 2015 2410	20.0 4.20	18.7 9.12 585	19.4
Major Cations - Mg Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature	µS/cm °C m uS/cm °C	21.8 1.48 December 1010 20.9	20.1 25.3 er 2015 2410 19.8	20.0 4.20 1370 21.7	18.7 9.12 585 18.6	19.4 1460 19.0
Major Cations - Mg Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature	μS/cm °C m uS/cm	21.8 1.48 December 1010 20.9 3.09	20.1 25.3 er 2015 2410 19.8 25.8	20.0 4.20	18.7 9.12 585	19.4
Major Cations - Mg Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature	µS/cm °C m uS/cm °C	21.8 1.48 December 1010 20.9 3.09	20.1 25.3 er 2015 2410 19.8 25.8	20.0 4.20 1370 21.7	18.7 9.12 585 18.6	19.4 1460 19.0
Major Cations - Mg Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature Depth	µS/cm  °C  m  uS/cm  °C  m	21.8 1.48 December 1010 20.9 3.09 201 July 2	20.1 25.3 er 2015 2410 19.8 25.8 4	20.0 4.20 1370 21.7 4.73	18.7 9.12 585 18.6	19.4 1460 19.0
Major Cations - Mg Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated)	µS/cm  °C  m  uS/cm  °C  m  uS/cm  °C  m	21.8 1.48 December 1010 20.9 3.09 201 July 2	20.1 25.3 er 2015 2410 19.8 25.8 4 2014	20.0 4.20 1370 21.7 4.73	18.7 9.12 585 18.6	19.4 1460 19.0
Major Cations - Mg Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature Depth Electrical Conductivity (non compensated) Temperature	µS/cm  °C  m  uS/cm  °C  m  uS/cm  °C  c	21.8 1.48 December 1010 20.9 3.09 201 July 2 572 17.0	20.1 25.3 215 2410 19.8 25.8 4 2014 1900 17.3	20.0 4.20 1370 21.7 4.73	18.7 9.12 585 18.6	19.4 1460 19.0
Major Cations - Mg  Electrical Conductivity (non compensated)  Temperature  Depth  Electrical Conductivity (non compensated)  Temperature  Depth  Electrical Conductivity (non compensated)  Temperature  Depth  Electrical Conductivity (non compensated)  Temperature  Depth	µS/cm  °C  m  uS/cm  °C  m  uS/cm  °C  m	21.8 1.48 December 1010 20.9 3.09 201 July 2 572 17.0 1.148	20.1 25.3 2410 19.8 25.8 4 2014 1900 17.3 26.217	20.0 4.20 1370 21.7 4.73 1020 17.1 4.180	18.7 9.12 585 18.6	19.4 1460 19.0
Major Cations - Mg  Electrical Conductivity (non compensated) Temperature Depth	µS/cm  °C  m  uS/cm  °C  m  uS/cm  °C  c	21.8  1.48  December  1010  20.9  3.09  201  July 2  572  17.0  1.148  7.8	20.1 25.3 27.2015 2410 19.8 25.8 4 2014 1900 17.3 26.217 6.2	20.0 4.20 1370 21.7 4.73 1020 17.1 4.180 5.5	18.7 9.12 585 18.6	19.4 1460 19.0
Major Cations - Mg	µS/cm  °C  m  uS/cm  °C  m  uS/cm  °C  m	21.8 1.48 December 1010 20.9 3.09 201 July 2 572 17.0 1.148	20.1 25.3 er 2015 2410 19.8 25.8 4 2014 1900 17.3 26.217 6.2 1.2	20.0 4.20 1370 21.7 4.73 1020 17.1 4.180	18.7 9.12 585 18.6	19.4 1460 19.0

### Environmental Monitoring Report

Devenuetes	unit			Sampling loc	ation	
Parameter	unit	BH1	BT0702	BT0703	BT1201	BT1202
Temperature	°C	17.2	16.9	17.6		
Depth	m	1.735	26.306	4.390		
рН	pH Unit	7.8	6.0	5.7		
Salinity	mg/L	0.3	1.2	0.6		
		Septe	ember 2014			
Electrical Conductivity (non compensated)	uS/cm	603	1100	1070		
Temperature	°C	17.0	18.3	18.1		
Depth	m	0.954	25.952	3.890		
рН	pH Unit	7.8	6.6	5.8		
Salinity	mg/L	0.4	0.6	0.6		
	-	Oct	ober 2014		-	
Electrical Conductivity (non compensated)	uS/cm	624	1860	1050		
Temperature	°C	18.3	17.8	17.5		
Depth	m	0.820	25.699	4.203		
рН	pH Unit	7.9	6.0	6.4		
Salinity	mg/L	0.4	1.1	0.6		
	_	Nove	ember 2014			
Electrical Conductivity (non compensated)	uS/cm	712	1990	1110		
Temperature	°C	20.8	19.8	19.6		
Depth	m	1.359	26.244	4.057		
рН	pH Unit	7.5	5.6	5.7		
Salinity	mg/L	0.4	1.1	0.6		
		Dece	ember 2014			
Electrical Conductivity (non compensated)	uS/cm	732	1850	1140		
Temperature	°C	21.4	20.5	20.0		
Depth	m	0.867	25.946	4.048		
рН	pH Unit	7.7	6.2	6.0		
Salinity	mg/L	0.4	1.0	0.6		

**Environmental Monitoring Report** 

### Surface water monitoring - Killalea Lagoon

The quarry monitors surface water quality in Killalea Lagoon. Monitoring requirements stem from the Killalea Lagoon Management Plan, which forms part of the Water Management Plan required under *Schedule 3, Condition 24* of Project Approval MP 08\_0143.

The scope of this report is surface water monitoring data sampled, analysed, and reported by an external laboratory. Other required surface water monitoring data, which is collected by Hanson, is outside of the scope of this report and is instead included in the Annual Review.

Killalea lagoon groundwater management and monitoring plan					
Sampling requirement	Frequency	Location			
рН	Quarterly	Killalea Lagoon (surface water)			
Electrical Conductivity (EC)					
Total Suspended Solids (TSS)					
Dissolved Oxygen (DO)					
Total Nitrogen (TN)					
Total Phosphorus (TP)					
Salinity					

### Notes

The extensive quarterly groundwater monitoring programme commenced in August 2015.

Dougnation	:	Sampling location
Parameter	unit	Killalea Lagoon
	2024	
J	lanuary 2024	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	℃	
Depth	m	<0.01
F	ebruary 2024	
рН	pH Unit	7.2
Electrical Conductivity (non-compensated)	μS/cm	434
Salinity	g/L	0.2
Suspended Solids (SS)	mg/L	7
Nitrite + Nitrate as N	mg/L	<0.01
Total Kjeldahl Nitrogen as N	mg/L	1.4
^ Total Nitrogen as N	mg/L	1.4
Total Phosphorus as P	mg/L	0.11
Dissolved Oxygen	mg/L	6.70
Depth - Surface Water	m	0.00
	March 2024	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth - Surface Water	m	0.1
	April 2024	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	℃	
Depth - Surface Water	m	
	2023	
J	lanuary 2023	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	$^{\circ}$ C	
Depth	m	0.24
F	ebruary 2023	
рН	pH Unit	7.1
Electrical Conductivity (non-compensated)	μS/cm	367

Environmental Monitoring Report

		Sampling location
Parameter	unit	
Salinity	g/L	Killalea Lagoon <0.2
Suspended Solids (SS)	mg/L	<5
Nitrite + Nitrate as N	mg/L	0.07
Total Kjeldahl Nitrogen as N	mg/L	2.4
^ Total Nitrogen as N	mg/L	2.5
Total Phosphorus as P	mg/L	0.22
Dissolved Oxygen	mg/L	7.39
Depth - Surface Water	m m	0.20
	ch 2023	0.20
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth - Surface Water	m	-0.3
· ·	il 2023	0.0
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth - Surface Water	m	<0.01
· ·	y 2023	10.01
рН	pH Unit	7.1
Electrical Conductivity (non compensated)	μS/cm	384
Salinity	g/L	0.2
Suspended Solids (SS)	mg/L	<5
Nitrite + Nitrate as N	mg/L	0.02
Total Kjeldahl Nitrogen as N	mg/L	0.8
^ Total Nitrogen as N	mg/L	0.8
Total Phosphorus as P	mg/L	0.05
Dissolved Oxygen	mg/L	8.88
Depth - Surface Water	m	<0.01
	ne 2023	<0.01
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	0.0
	y 2023	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	0.10
_ '	ust 2023	10.10
рН	pH Unit	7.0
Electrical Conductivity (non compensated)	μS/cm	446
Salinity	g/L	0.3
Suspended Solids (SS)	mg/L	6
Nitrite + Nitrate as N	mg/L	0.02
Total Kjeldahl Nitrogen as N	mg/L	1.1
^ Total Nitrogen as N	mg/L	1.1
Total Phosphorus as P	mg/L	0.13
Dissolved Oxygen	mg/L	8.63
Depth - Surface Water	m	0.10
· ·	nber 2023	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
•		
Depth	<i>m</i> ber 2023	0.80
	uS/cm	
Electrical Conductivity (non compensated)	°C	
Temperature		0.25
Depth	m	0.25
Nover	nber 2023	

Environmental Monitoring Report

	Tai Monitoring ite	<u> </u>
Parameter	unit	Sampling location
-11	.1111.3	Killalea Lagoon
pH	pH Unit	7.1
Electrical Conductivity (non compensated)	μS/cm	438
Salinity	g/L	0.2
Suspended Solids (SS)	mg/L	<5
Nitrite + Nitrate as N	mg/L	0.01
Total Kjeldahl Nitrogen as N	mg/L	1.1
^ Total Nitrogen as N	mg/L	1.1
Total Phosphorus as P	mg/L	0.06
Dissolved Oxygen	mg/L	8.44
Depth - Surface Water	m	0.22
De	ecember 2023	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	0.20
·	2022	
J	anuary 2022	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	-0.1
	ebruary 2022	0.1
pH	pH Unit	6.4
	μS/cm	739
Electrical Conductivity (non-compensated)		1.0
Salinity	g/L	154
Suspended Solids (SS)	mg/L	
Nitrite + Nitrate as N	mg/L	<0.01
Total Kjeldahl Nitrogen as N	mg/L	6.4
^ Total Nitrogen as N	mg/L	6.4
Total Phosphorus as P	mg/L	0.53
Dissolved Oxygen	mg/L	1.37
Depth - Surface Water	m	0.1
	March 2022	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth - Surface Water	m	0.22
	April 2022	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth - Surface Water	m	0.18
	May 2022	
рН	pH Unit	7.0
Electrical Conductivity (non compensated)	μS/cm	356
Salinity	g/L	<0.2
Suspended Solids (SS)	mg/L	8
Nitrite + Nitrate as N	mg/L	0.08
Total Kjeldahl Nitrogen as N	mg/L	1.0
^ Total Nitrogen as N	mg/L	1.1
Total Phosphorus as P	mg/L	0.12
Dissolved Oxygen	mg/L	4.05
Depth - Surface Water	m m	2.60
Dopai Guilago Watoi	June 2022	
Electrical Conductivity (non compensated)	uS/cm	
	°C	
Temperature		
Depth	m July 2022	0.10
	July 2022	
Electrical Conductivity (non compensated)	uS/cm	

Environmental Monitoring Report

Temperature		tai Monitoring Repo	
Temperature	Parameter	unit	Sampling location
Depth	Townseature	90	
August 2022   PH Unit			
DH Unit			0.20
Electrical Conductivity (non compensated)   µS/cm   303   Salinity   g/L   <0.2   <0.2   Suspended Solids (SS)   mg/L   <5   Silvate + Nitrate as N   mg/L   <0.01   Total Kjeldahl Nitrogen as N   mg/L   0.7   Total Kjeldahl Nitrogen as N   mg/L   0.07   Total Kjeldahl Nitrogen as N   mg/L   0.07   Total Kjeldahl Nitrogen as N   mg/L   0.08   Total Kjeldahl Nitrogen as N   mg/L   0.08   Total Kjeldahl Nitrogen as N   mg/L   0.08   Total Kjeldahl Nitrogen as N   mg/L   0.2   Total Kjeldahl Nitrogen as N   mg/L   0.2   Total Kjeldahl Nitrogen as N   mg/L   0.9   Total Kjeldahl Nitrogen as N   mg/L   0.5   Suspended Solids (SS)   mg/L   0.5   Suspende			17.0
Salinity   g/L			
Suspended Solids (SS)			
Nitrite + Nitrate as N	, , , , , , , , , , , , , , , , , , ,	ž .	
Total Kjeldahl Nitrogen as N			
A Total Nitrogen as N         mg/L         0.7           Total Phosphorus as P         mg/L         0.07           Dissolved Oxygen / Mysturation         % saturation         106           Depth - Surface Water         m         0.08           September 2022           Electrical Conductivity (non compensated)         uS/cm		•	
Total Phosphorus as P   mg/L   0.07			
Dissolved Oxygen - % Saturation         mg/L         10.7           Dissolved Oxygen - % Saturation         % saturation         106           Depth - Surface Water         m         0.08           September 2022           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         0.10           October 2022           Electrical Conductivity (non compensated)         uS/cm            Depth         m         2.0           November 2022           PH         pH Unit         7.9         Electrical Conductivity (non compensated)         uS/cm         2.8           Salinity         g/L         <0.2         2.2           Suspended Solids (SS)         mg/L         <0.2         2.2           Suspended Solids (SS)         mg/L         <0.0         2.2           Using In Interperature as N         mg/L         <0.0         0.0           Total Phosphorus as P         mg/L         <0.14         0.9           Dissolved Oxygen - % Saturation         % saturation         135         12           Depth - Surface Water         m	*		
Dissolved Oxygen - % Saturation         % saturation         106           Depth - Surface Water         m         0.08           September 2022           Electrical Conductivity (non compensated)         US/cm            Temperature         °C            Depth         m         0.10           Temperature         °C            Depth         m         2.0           November 2022           pH         pH Unit         7.9           Electrical Conductivity (non compensated)         µS/cm         288           Salinity         g/L         <0.2		-	
Depth - Surface Water	, ,		
September 2022			
Electrical Conductivity (non compensated)   US/cm			0.08
Temperature         °C            Depth         m         0.10           October 2022           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         2.0           November 2022           pH         pH Unit         7.9           Electrical Conductivity (non compensated)         µS/cm         288           Salinity         g/L         <0.2	•		
Depth         m         0.10           October 2022           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         2.0           November 2022           pH         DH Unit         7.9           Electrical Conductivity (non compensated)         µS/cm         288           Salinity         g/L         <0.2           Suspended Solids (SS)         mg/L         <0.2           Suspended Solids (SS)         mg/L         <0.01           Nitrite + Nitrate as N         mg/L         <0.01           Total Kjeldahl Nitrogen as N         mg/L         <0.9         <0.01           Total Phosphorus as P         mg/L         <0.9         <0.01           Total Nitrogen as N         mg/L         <0.14         <0.9         <0.01           Dissolved Oxygen - % Saturation         % saturation         <0.9         <0.14         <0.02         <0.02         <0.01         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02         <0.02			
December 2022   Electrical Conductivity (non compensated)   US/cm     Temperature   °C     Pub.			
Electrical Conductivity (non compensated)   US/cm	,		[0.10
Temperature			
Depth         m         2.0           November 2022           pH Unit         7.9           Electrical Conductivity (non compensated)         μS/cm         288           Salinity         g/L         <0.2	, ,		
November 2022			
pH         pH Unit         7.9           Electrical Conductivity (non compensated)         μS/cm         288           Salinity         g/L         <0.2			2.0
Electrical Conductivity (non compensated)			
Salinity         g/L         <0.2           Suspended Solids (SS)         mg/L         28           Nitrite + Nitrate as N         mg/L         <0.01	<u> </u>		
Suspended Solids (SS)   mg/L   28			
Nitrite + Nitrate as N         mg/L         <0.01           Total Kjeldahl Nitrogen as N         mg/L         0.9           ^ Total Nitrogen as N         mg/L         0.9           Total Phosphorus as P         mg/L         0.14           Dissolved Oxygen         mg/L         11.2           Dissolved Oxygen - % Saturation         % saturation         135           Depth - Surface Water         m            December 2022           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         1.0           January 2021           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         µS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         3.2           Nitrite + Nitrate as N         mg/L         3.2           Notal Kjeldahl Nitr	·	ž .	
Total Kjeldahl Nitrogen as N  ^ Total Nitrogen as N  Mg/L  0.9  ^ Total Phosphorus as P  Dissolved Oxygen  Mg/L  Depth Surface Water  M  December 2022  Electrical Conductivity (non compensated)  Temperature  C  Depth  M  1.0  2021  Blectrical Conductivity (non compensated)  Ws/cm  Temperature  C  Depth  M  Dos  February 2021  Electrical Conductivity (non compensated)  Ws/cm  Temperature  C  Depth  M  Dos  February 2021  PH  BH Unit  6.4  Electrical Conductivity (non-compensated)  Ms/cm  Millon  Dissolved Oxygen  Mg/L  Depth  Dos  Mg/L  Dos  Dissolved Oxygen  Mg/L  Dos  Dissolved Oxygen  Mg/L  Dos			
Λ Total Nitrogen as N         mg/L         0.9           Total Phosphorus as P         mg/L         0.14           Dissolved Oxygen         mg/L         11.2           Dissolved Oxygen - % Saturation         % saturation         135           Depth - Surface Water         m            December 2022           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         1.0           Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         mg/L         4.41			
Total Phosphorus as P         mg/L         0.14           Dissolved Oxygen         mg/L         11.2           Dissolved Oxygen - % Saturation         % saturation         135           Depth - Surface Water         m            December 2022           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         uS/cm            Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         µS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         3.2           ^ Total Kjeldah Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6			
Dissolved Oxygen         mg/L         11.2           Dissolved Oxygen - % Saturation         % saturation         135           Depth - Surface Water         m            December 2022           Electrical Conductivity (non compensated)         uS/cm            Depth         m         1.0           January 2021           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6	*		
Dissolved Oxygen - % Saturation         % saturation         135           Depth - Surface Water         m            December 2022           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         1.0           January 2021           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6			
Depth - Surface Water         m            December 2022           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         1.0           January 2021           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6			
December 2022		% saturation	135
Electrical Conductivity (non compensated)			
Temperature         °C            Depth         m         1.0           2021           January 2021           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6	De		
Depth         m         1.0           January 2021           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6			
2021           January 2021           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6	Temperature	℃	
January 2021           Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         3.2           ^ Total Kjeldahl Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6	Depth		1.0
Electrical Conductivity (non compensated)         uS/cm            Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         3.2           Total Kjeldahl Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6		2021	
Temperature         °C            Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6	Ja	anuary 2021	
Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6	Electrical Conductivity (non compensated)		
Depth         m         0.5           February 2021           pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6	Temperature	°C	
pH         pH Unit         6.4           Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6	Depth	m	0.5
Electrical Conductivity (non-compensated)       μS/cm       1100         Salinity       g/L       0.5         Suspended Solids (SS)       mg/L       55         Nitrite + Nitrate as N       mg/L       0.06         Total Kjeldahl Nitrogen as N       mg/L       3.2         ^ Total Nitrogen as N       mg/L       3.3         Total Phosphorus as P       mg/L       0.3         Dissolved Oxygen       mg/L       4.41         Depth - Surface Water       m       0.6	Fe	ebruary 2021	
Electrical Conductivity (non-compensated)         μS/cm         1100           Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6	pH	pH Unit	6.4
Salinity         g/L         0.5           Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6		μS/cm	
Suspended Solids (SS)         mg/L         55           Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6		g/L	0.5
Nitrite + Nitrate as N         mg/L         0.06           Total Kjeldahl Nitrogen as N         mg/L         3.2           ^ Total Nitrogen as N         mg/L         3.3           Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6		mg/L	55
Total Kjeldahl Nitrogen as N  ^ Total Nitrogen as N  mg/L  3.2  ^ Total Nitrogen as N  mg/L  3.3  Total Phosphorus as P  mg/L  0.3  Dissolved Oxygen  mg/L  4.41  Depth - Surface Water  m  0.6		<u> </u>	0.06
^ Total Nitrogen as N       mg/L       3.3         Total Phosphorus as P       mg/L       0.3         Dissolved Oxygen       mg/L       4.41         Depth - Surface Water       m       0.6		<u> </u>	
Total Phosphorus as P         mg/L         0.3           Dissolved Oxygen         mg/L         4.41           Depth - Surface Water         m         0.6		-	3.3
Dissolved Oxygenmg/L4.41Depth - Surface Waterm0.6			
Depth - Surface Water m 0.6			
		March 2021	•

# Hanson Bass Point Quarry Environmental Monitoring Report

	Trionitoring Repor	
Parameter	unit	Sampling location
		Killalea Lagoon
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	0.66
·	il 2021	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	0.27
	y 2021	Ta a
pH	pH Unit	6.6
Electrical Conductivity (non compensated)	μS/cm	718
Salinity	g/L	0.4
Suspended Solids (SS)	mg/L	11
Nitrite + Nitrate as N	mg/L	0.04
Total Kjeldahl Nitrogen as N	mg/L	2.2
^ Total Nitrogen as N	mg/L	2.2
Total Phosphorus as P	mg/L	0.2
Dissolved Oxygen	mg/L	7.98
Depth - Surface Water	m	0
	e 2021	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	℃	
Depth	m	0.02
	y 2021	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	℃	
Depth	m	<0.01
	ıst 2021	
рН	pH Unit	7.5
Electrical Conductivity (non compensated)	μS/cm	746
Salinity	g/L	0.4
Suspended Solids (SS)	mg/L	<5
Nitrite + Nitrate as N	mg/L	0.01
Total Kjeldahl Nitrogen as N	mg/L	0.9
^ Total Nitrogen as N	mg/L	0.9
Total Phosphorus as P	mg/L	<0.01
Dissolved Oxygen	mg/L	9.62
Depth - Surface Water	m	0
·	nber 2021	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	0.14
	ber 2021	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	℃	
Depth	m	0.15
	nber 2021	
рН	pH Unit	6.3
Electrical Conductivity (non compensated)	μS/cm	724
Salinity	g/L	0.4
Suspended Solids (SS)	mg/L	18
Nitrite + Nitrate as N	mg/L	<0.01
Total Kjeldahl Nitrogen as N	mg/L	1.5
^ Total Nitrogen as N	mg/L	1.5
Total Phosphorus as P Dissolved Oxygen	mg/L mg/L	0.13 3.51

Environmental Monitoring Report

		Sampling location	
Parameter	unit	Killalea Lagoon	
Depth - Surface Water	m	0	
	ber 2021	10	
Electrical Conductivity (non compensated)	uS/cm	1	
Temperature	°C		
Depth		0.2	
	<i>m</i>   <b>20</b>	10.2	
	ry 2020		
Electrical Conductivity (non compensated)	uS/cm	1	
Temperature	°C		
	m	0	
Depth	nry 2020	10	
рН	pH Unit	4.9	
Electrical Conductivity (non-compensated)	μS/cm	2220	
Salinity	g/L	1.1	
Suspended Solids (SS)	mg/L	9	
Nitrite + Nitrate as N		0.15	
Total Kjeldahl Nitrogen as N	mg/L mg/L	10.1	
^ Total Nitrogen as N	mg/L	10.2	
Total Phosphorus as P	mg/L	0.08	
		8.54	
Dissolved Oxygen	mg/L		
Depth - Surface Water	<i>m</i> h <b>2020</b>	<0.7	
		T	
Electrical Conductivity (non compensated)	uS/cm °C		
Temperature		0.7	
Depth	m	0.7	
•	2020		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m	<0.7	
	2020	T. o	
pH	pH Unit	4.6	
Electrical Conductivity (non compensated)	μS/cm	4760	
Salinity	g/L	3.2	
Suspended Solids (SS)	mg/L	22	
Nitrite + Nitrate as N	mg/L	0.02	
Total Kjeldahl Nitrogen as N	mg/L	33.4	
^ Total Nitrogen as N	mg/L	33.4	
Total Phosphorus as P	mg/L	0.06	
Dissolved Oxygen	mg/L	9.98	
Depth - Surface Water	m	<0.7	
	2020	1	
Electrical Conductivity (non compensated)	uS/cm		
Temperature	℃		
Depth	m	<0.7	
July 2020			
Electrical Conductivity (non compensated)	uS/cm		
Temperature	℃		
Depth	m	<0.7	
August 2020			
pH	pH Unit	5.2	
Electrical Conductivity (non compensated)	μS/cm	897	
Salinity	g/L	0.6	
Suspended Solids (SS)	mg/L	<5	
Nitrite + Nitrate as N	mg/L	0.16	
Total Kjeldahl Nitrogen as N	mg/L	3.9	

Environmental Monitoring Report

Environmental Monitoring Report			
Parameter	unit	Sampling location	
		Killalea Lagoon	
^ Total Nitrogen as N	mg/L	4.1	
Total Phosphorus as P	mg/L	0.07	
Dissolved Oxygen	mg/L	10.9	
Depth - Surface Water	m	0.3	
Sept	ember 2020		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m	0.3	
Oct	ober 2020		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m	0.45	
	ember 2020		
pH	pH Unit	4.9	
Electrical Conductivity (non compensated)	μS/cm	1010	
Salinity	g/L	0.5	
Suspended Solids (SS)	mg/L	70	
Nitrite + Nitrate as N	mg/L	0.04	
Total Kjeldahl Nitrogen as N	mg/L	3.9	
^ Total Nitrogen as N	mg/L	3.9	
Total Phosphorus as P	mg/L	0.12	
	<del></del>	7.57	
Dissolved Oxygen	mg/L	0.4	
Depth - Surface Water	m ember 2020	0.4	
Electrical Conductivity (non compensated)	uS/cm		
Temperature	℃		
Depth	m	0.6	
	2019		
	nuary 2019		
Electrical Conductivity (non compensated)	uS/cm		
Electrical Conductivity (non compensated) Temperature	nuary 2019		
Electrical Conductivity (non compensated) Temperature Depth	us/cm °C m		
Electrical Conductivity (non compensated) Temperature Depth	uary 2019   uS/cm   °C   m   ruary 2019	0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb	uary 2019  uS/cm °C  m ruary 2019  pH Unit	0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb	uary 2019   uS/cm   °C   m   ruary 2019	0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb	uary 2019  uS/cm °C  m ruary 2019  pH Unit	0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated)	uary 2019  uS/cm  °C  m  ruary 2019  pH Unit  μS/cm	0.75 8.5 1950	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity	uary 2019  uS/cm °C  m  ruary 2019  pH Unit  μS/cm  g/L	0.75 8.5 1950 0.9	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS)	uS/cm   °C   m   ruary 2019   pH Unit   μS/cm   g/L   mg/L	0.75 8.5 1950 0.9 47	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N	uS/cm   °C   m   ruary 2019   pH Unit   μS/cm   g/L   mg/L   m	0.75 8.5 1950 0.9 47 <0.01	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N	ruary 2019  uS/cm °C  m ruary 2019  pH Unit  μS/cm  g/L  mg/L  mg/L  mg/L  mg/L  mg/L	0.75  8.5 1950 0.9 47 <0.01 1.9	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P	uary 2019  uS/cm °C  m ruary 2019  pH Unit  μS/cm  g/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen	ruary 2019  US/cm  °C  m ruary 2019  pH Unit  µS/cm  g/L  mg/L	 0.75  8.5  1950  0.9  47  <0.01  1.9  1.9  0.05  10.1	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water	us/cm   °C   m   ruary 2019   pH Unit   μS/cm   g/L   mg/L   m	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water Ma	us/cm   °C   m   ruary 2019   pH Unit   μS/cm   g/L   mg/L   m	 0.75  8.5  1950  0.9  47  <0.01  1.9  1.9  0.05  10.1	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water  Ma Electrical Conductivity (non compensated)	uS/cm   °C   m   ruary 2019   pH Unit   μS/cm   g/L   mg/L   m	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05 10.1 <0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water Ma Electrical Conductivity (non compensated) Temperature	uS/cm   °C   m   ruary 2019   pH Unit   μS/cm   g/L   mg/L   m   carch 2019   uS/cm   °C   °C   column   column	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05 10.1 <0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water Ma Electrical Conductivity (non compensated) Temperature Depth	uS/cm   °C   m   ruary 2019   pH Unit   μS/cm   g/L   mg/L   m   carch 2019   uS/cm   °C   m	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05 10.1 <0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb  pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water Ma Electrical Conductivity (non compensated) Temperature Depth A	uS/cm   °C   m   ruary 2019   pH Unit   μS/cm   g/L   mg/L   m   arch 2019   uS/cm   °C   m   pril 2019	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05 10.1 <0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water Ma Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated)	US/cm   °C   m   ruary 2019   pH Unit   μS/cm   g/L   mg/L   m	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05 10.1 <0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water  Ma Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated) Temperature	US/cm   °C   m   PH Unit   μS/cm   g/L   mg/L	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05 10.1 <0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water Ma Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated) Temperature Depth	uS/cm   °C   m   ruary 2019   pH Unit   μS/cm   g/L   mg/L   m   uS/cm   °C   m   pril 2019   uS/cm   °C   m	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05 10.1 <0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water Ma Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated) Temperature Depth A	US/cm   °C   m   ruary 2019   pH Unit   µS/cm   g/L   mg/L   m   orch 2019   uS/cm   °C   m   orch 2019   uS/cm   °C   m   orch 2019   uS/cm   orch 2019   orch 2019	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05 10.1 <0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water Ma Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated) Temperature Depth N PH	US/cm   °C   m   m   m   m   m   m   m   m   m	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05 10.1 <0.75  <0.75  <0.75	
Electrical Conductivity (non compensated) Temperature Depth Feb pH Electrical Conductivity (non-compensated) Salinity Suspended Solids (SS) Nitrite + Nitrate as N Total Kjeldahl Nitrogen as N ^ Total Nitrogen as N Total Phosphorus as P Dissolved Oxygen Depth - Surface Water Ma Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated) Temperature Depth A Electrical Conductivity (non compensated) Temperature Depth A	US/cm   °C   m   ruary 2019   pH Unit   µS/cm   g/L   mg/L   m   orch 2019   uS/cm   °C   m   orch 2019   uS/cm   °C   m   orch 2019   uS/cm   orch 2019   orch 2019	0.75  8.5 1950 0.9 47 <0.01 1.9 1.9 0.05 10.1 <0.75	

Environmental Monitoring Report

Environmental Monitoring Report			
Parameter	unit	Sampling location	
		Killalea Lagoon	
Suspended Solids (SS)	mg/L	37	
Nitrite + Nitrate as N	mg/L	<0.01	
Total Kjeldahl Nitrogen as N	mg/L	4	
^ Total Nitrogen as N	mg/L	4	
Total Phosphorus as P	mg/L	0.24	
Dissolved Oxygen	mg/L	8.78	
Depth - Surface Water	m	<0.75	
	une 2019		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	℃		
Depth	m	0.80	
J	uly 2019		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m	0.85	
Au	gust 2019		
рН	pH Unit	6.5	
Electrical Conductivity (non compensated)	μS/cm	1820	
Salinity	g/L	1.2	
Suspended Solids (SS)	mg/L	31	
Nitrite + Nitrate as N	mg/L	0.08	
Total Kjeldahl Nitrogen as N	mg/L	1.5	
^ Total Nitrogen as N	mg/L	1.6	
Total Phosphorus as P	mg/L	0.18	
Dissolved Oxygen	mg/L	10.4	
Depth - Surface Water	m		
	ember 2019		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m	0.60	
	ober 2019		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m	0.75	
	ember 2019		
рН	pH Unit	7.4	
Electrical Conductivity (non compensated)	μS/cm	3120	
Salinity	g/L	1.6	
Suspended Solids (SS)	mg/L	40	
Nitrite + Nitrate as N	mg/L	<0.01	
Total Kjeldahl Nitrogen as N	mg/L	4	
^ Total Nitrogen as N	mg/L	4	
Total Phosphorus as P	mg/L	0.26	
Dissolved Oxygen	mg/L	9.47	
Depth - Surface Water	m		
December 2019			
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m	0	
	2018		
January 2018			
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m	0.5	
		10.0	
February 2018			

Environmental Monitoring Report

		1
Parameter	unit	Sampling location
	m I I I Imit	Killalea Lagoon
pH	pH Unit	9.9
Electrical Conductivity (non-compensated)	μS/cm	849
Salinity	g/L	0.4
Suspended Solids (SS)	mg/L	90
Nitrite + Nitrate as N	mg/L	0.03
Total Kjeldahl Nitrogen as N	mg/L	8.4
^ Total Nitrogen as N	mg/L	8.4
Total Phosphorus as P	mg/L	0.6
Dissolved Oxygen	mg/L	11.1
Depth - Surface Water	m	0.65
Ma	arch 2018	
Electrical Conductivity (non-compensated)	μS/cm	
Suspended Solids (SS)	mg/L	<5
Temperature	°C	
Depth	m	0.65
	pril 2018	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	0.75
	lay 2018	10.10
рН	pH Unit	7.6
Electrical Conductivity (non compensated)	μS/cm	1050
Salinity	g/L	0.6
Suspended Solids (SS)	mg/L	28
Nitrite + Nitrate as N		0.32
	mg/L	
Total Kjeldahl Nitrogen as N	mg/L	1.9
^ Total Nitrogen as N	mg/L	2.2
Total Phosphorus as P	mg/L	0.11
Dissolved Oxygen	mg/L	10.3
Depth - Surface Water	m	0.75
	ine 2018	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	℃	
Depth	m	0.75
J	uly 2018	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	0.74
Au	gust 2018	
рН	pH Unit	7.2
Electrical Conductivity (non compensated)	μS/cm	1030
Salinity	g/L	0.6
Suspended Solids (SS)	mg/L	14
Nitrite + Nitrate as N	mg/L	<0.01
Total Kjeldahl Nitrogen as N	mg/L	1.6
^ Total Nitrogen as N	mg/L	1.6
Total Phosphorus as P	mg/L	0.06
Dissolved Oxygen	mg/L	10
Depth - Surface Water	m	0.75
	ember 2018	10.13
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	0.75
	ober 2018	
Electrical Conductivity (non compensated)	uS/cm	

Environmental Monitoring Report

Environmental Monitoring Report			
Parameter	unit	Sampling location	
		Killalea Lagoon	
Temperature	°C		
Depth	m	0.75	
	ember 2018		
рН	pH Unit	7.2	
Electrical Conductivity (non compensated)	μS/cm	1110	
Salinity	g/L	0.6	
Suspended Solids (SS)	mg/L	9	
Nitrite + Nitrate as N	mg/L	0.05	
Total Kjeldahl Nitrogen as N	mg/L	1.4	
^ Total Nitrogen as N	mg/L	1.4	
Total Phosphorus as P	mg/L	0.04	
Dissolved Oxygen	mg/L	8.37	
Depth - Surface Water	m	0.75	
	ember 2018		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	$^{\circ}$ C		
Depth	m	0.8	
	2017		
Ja	nuary 2017		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m		
	bruary 2017		
pH	pH Unit		
Field Salinity	mg/L		
Total Phosphorus (dissolved & recoverable)	mg/L		
Total Kjeldahl Nitrogen as N	mg/L		
Electrical Conductivity (non compensated)	μS/cm		
Temperature	°C		
Depth	m		
	larch 2017		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m		
	April 2017		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m		
	May 2017		
pH	pH Unit	7.6	
Field Salinity	mg/L	0.3	
Total Phosphorus (dissolved & recoverable)	mg/L	0.04	
Total Kjeldahl Nitrogen as N	mg/L	0.04	
Electrical Conductivity (non compensated)	μS/cm		
Temperature	°C		
Depth	m June 2017	<u> </u>	
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m		
	July 2017		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m		
August 2017			

Environmental Monitoring Report

	T Worldon ing Te	1	
Parameter	unit	Sampling location	
	.1111.2	Killalea Lagoon	
pH	pH Unit	8.3	
Field Salinity	mg/L	0.3	
Total Phosphorus (dissolved & recoverable)	mg/L	0.04	
Total Kjeldahl Nitrogen as N	mg/L	0.7	
Electrical Conductivity (non compensated)	μS/cm		
Temperature	℃		
Depth	m		
Septe	ember 2017		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m		
Octo	ober 2017		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	℃		
Depth	m		
	mber 2017		
pH	pH Unit		
Field Salinity	mg/L		
Total Phosphorus (dissolved & recoverable)	mg/L		
Total Kjeldahl Nitrogen as N	mg/L		
Electrical Conductivity (non compensated)	μS/cm		
Temperature	°C		
Depth	m		
	mber 2017		
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m		
	2016		
	uary 2016		
Electrical Conductivity (non compensated)	uS/cm °C	<b> </b>	
Temperature			
Depth	m ••••••••••••••••••••••••••••••••••••		
	uary 2016	lo o	
pH	pH Unit	8.9	
Field Salinity	mg/L	0.2	
Total Phosphorus (dissolved & recoverable)	mg/L	0.14	
Total Kjeldahl Nitrogen as N	mg/L	2.1	
NOx	mg/L	0.02	
Electrical Conductivity (non compensated)	μS/cm		
Temperature	℃		
Depth	m		
March 2016			
Electrical Conductivity (non compensated)	uS/cm		
Temperature	℃		
Depth	m		
April 2016			
Electrical Conductivity (non compensated)	uS/cm		
Temperature	°C		
Depth	m		
M	ay 2016		
рН	pH Unit	8.0	
Field Salinity	mg/L	0.4	
Total Phosphorus (dissolved & recoverable)	mg/L	0.24	
		•	
	mg/L	3.2	
Total Kjeldahl Nitrogen as N NOx	mg/L mg/L	3.2 0.23	

Environmental Monitoring Report

	Environmental Monitoring Report			
Parameter	unit	Sampling location  Killalea Lagoon		
Electrical Conductivity (non compensated)	μS/cm	Killalea Lagoon		
Temperature	°C			
Depth	m			
	une 2016			
Electrical Conductivity (non compensated)	uS/cm			
Temperature	°C			
Depth	m			
	luly 2016	<u> </u>		
Electrical Conductivity (non compensated)	uS/cm			
Temperature	°C			
Depth	m			
Au	igust 2016			
рН	pH Unit	7.5		
Field Salinity	mg/L	0.3		
Total Phosphorus (dissolved & recoverable)	mg/L	0.08		
Total Kjeldahl Nitrogen as N	mg/L	1.0		
NOx	mg/L	0.02		
Electrical Conductivity (non compensated)	μS/cm			
Temperature	℃			
Depth	m			
·	tember 2016			
Electrical Conductivity (non compensated)	uS/cm			
Temperature	°C			
Depth	m tober 2016			
	uS/cm			
Electrical Conductivity (non compensated) Temperature	°C			
Depth	m			
	ember 2016			
pH	pH Unit	7.0		
Field Salinity	mg/L			
Total Phosphorus (dissolved & recoverable)	mg/L	0.28		
Total Kjeldahl Nitrogen as N	mg/L	3.9		
NOx	mg/L	0.03		
Electrical Conductivity (non compensated)	μS/cm			
Temperature	°C			
Depth	m			
Dec	ember 2016			
Electrical Conductivity (non compensated)	uS/cm			
Temperature	℃			
Depth	m			
	2015			
	nuary 2015			
Electrical Conductivity (non compensated)	uS/cm	718		
Temperature	℃			
Depth	m			
pH	pH Unit	7.1		
Salinity	mg/L			
	oruary 2015	loso		
Electrical Conductivity (non compensated)	uS/cm	619		
Temperature	°C			
Depth	m nH Hnit	7.0		
pH Solinity	pH Unit	7.2		
Salinity	mg/L			
March 2015				

Environmental Monitoring Report

	ar Morntoning Ite	1
Parameter	unit	Sampling location
		Killalea Lagoon
Electrical Conductivity (non compensated)	uS/cm	641
Temperature	°C	
Depth	m	
pH	pH Unit	7.4
Salinity	mg/L	
	April 2015	
Electrical Conductivity (non compensated)	uS/cm	586
Temperature	°C	
Depth	m	
рН	pH Unit	6.4
Salinity	mg/L	
	May <u>2015</u>	
Electrical Conductivity (non compensated)	uS/cm	579
Temperature	°C	
Depth	m	
рН	pH Unit	6.8
Salinity	mg/L	
	une 2015	
Electrical Conductivity (non compensated)	uS/cm	414
Temperature	℃	
Depth	m	
рН	pH Unit	6.8
Salinity	mg/L	
J	July 2015	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	℃	
Depth	m	
pH	pH Unit	
Salinity	mg/L	
Au	ıgust 2015	•
рН	pH Unit	7.9
Total Phosphorus (dissolved & recoverable)	mg/L	0.08
Total Kjeldahl Nitrogen as N	mg/L	1.2
Electrical Conductivity (non compensated)	μS/cm	556
Temperature	°C	
Depth	m	
Total Suspended Solids	mg/L	5
Dissolved Oxygen	mg/L	10.1
Sept	tember 2015	•
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	
	tober 2015	
Electrical Conductivity (non compensated)	uS/cm	
Temperature	°C	
Depth	m	
	ember 2015	
pH	pH Unit	9.1
Total Phosphorus (dissolved & recoverable)	mg/L	0.08
Total Kjeldahl Nitrogen as N	mg/L	1
Electrical Conductivity (non compensated)	μS/cm	430
Temperature	°C	
Depth	m	
Total Suspended Solids	mg/L	<5
Dissolved Oxygen	mg/L	12.7
	g, <b>–</b>	1

Environmental Monitoring Report

_		Sampling location			
Parameter	unit	Killalea Lagoon			
December 2015					
Electrical Conductivity (non compensated)	uS/cm				
Temperature	°C				
Depth	m				
	2014				
July	y 2014				
Electrical Conductivity (non compensated)	uS/cm	499			
Temperature	°C	13.4			
Depth	m				
pH	pH Unit	7.1			
Salinity	mg/L	0.3			
	ıst 2014				
Electrical Conductivity (non compensated)	uS/cm	481			
Temperature	°C	10.4			
Depth	m				
pH	pH Unit	7.1			
Salinity	mg/L	0.3			
	nber 2014				
Electrical Conductivity (non compensated)	uS/cm	482			
Temperature	°C	17.7			
Depth	m				
pH	pH Unit	7.0			
Salinity	mg/L	0.3			
	per 2014				
Electrical Conductivity (non compensated)	uS/cm	451			
Temperature	°C	15.1			
Depth	m				
рН	pH Unit	6.9			
Salinity	mg/L	0.3			
November 2014					
Electrical Conductivity (non compensated)	uS/cm	594			
Temperature	°C	21.5			
Depth	m	0			
рН	pH Unit	7.7			
Salinity	mg/L	0.3			
December 2014					
Electrical Conductivity (non compensated)	uS/cm	635			
Temperature	°C	23.2			
Depth	m				
рН	pH Unit	7.5			
Salinity	mg/L	0.3			