

Diavik Diamond Mines (2012) Inc.  
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Mason Mantla, Chair  
Wek'èezhii Land and Water Board  
PO Box 32  
Wekweèti, NT X0E 1W0  
Canada

April 30, 2025

Dear Mr. Mantla,

## **RE: Water Licence W2015L2-0001 Monthly SNP Report – March 2025**

### **General**

Please find enclosed the March 2025 Surveillance Network Program (SNP) Report for Diavik Diamond Mines (2012) Inc. (DDMI). Figure 1 shows the locations of active SNP sample stations on site. Table 1a shows the dates SNP stations were sampled during the month and provides rationale for stations with missing samples or missing parameter results, if applicable. Table 1b shows suspended SNP stations in the reporting month, including rationale for suspension, if applicable.

Sampling of the effluent discharge from the North Inlet Water Treatment Plant (NIWTP) occurred every 6 days at stations 1645-18 and 1645-18B during the month. All results available were below the maximum grab and maximum average W2015L2-0001 effluent quality criteria (EQC; Table 3 and graphs).

Sampling of the NIWTP effluent mixing zone at stations 1645-19A, 1645-19B2, and 1645-19C occurred on 12 March. Results are presented in Table 4.

The Processed Kimberlite Containment Facility (PKCF) interception wells, 1645-77 (east), and 1645-80 (west) were sampled once during the month. The Northwest Decant Sump station 1645-16 did not have water reporting to it in March and could not be sampled. SNP stations 1645-78 and 1645-79 have been decommissioned to support reclamation activities. Eastern porewater if present, is represented by SNP Station 1645-77 and the southern zone (1645-79) continues to remain frozen.

A154 and A418 underground dewatering stations (1645-75 and 1645-75B) were sampled twice during the month. The A21 dewatering station (1645-51) was sampled twice during the month. Sample results are presented in Table 6.

Clarifier sludge from NIWTP Plant 1 (1645-85A/B) and Plant 2 (1645-86A/B) was sampled twice during the month. Sample results are presented in Table 6.

Water from the A418 Barge (1645-88) was collected three times during the month. Sample results are presented in Table 6.

One (1) spill was recorded in the Underground Mine during the month. Fraction 3 hydrocarbons were detected in water (2.9– 3.4 mg/L) from the Underground Mine (1645-75 and 1645-75B) and were 1.6– 3.7 mg/L in sludge from the NIWTP clarifiers (1645-85A/B and 1645-86A/B) (Table 6). Total petroleum hydrocarbons (TPH) (C6 – C50) were below detection limits in the effluent of the NIWTP throughout the month (Table 3).

Petroleum Hydrocarbon (PHC) F3 concentrations from each clarifier are slightly aligned with each other, while there is no relationship between the concentration of hydrocarbons in water from the underground and the NIWTP clarifier sludge. Diavik continues to collect monthly samples for PHC analysis of sludge from the NIWTP and water from the underground mine. PHC F3 concentrations from June 2014 until March 2025 are displayed in Figure 2.

Annex 1, Part A, Condition 2 reporting requirements for SNP Station 1645-51 (A21 water pumped to North Inlet) are provided in Attachment 1.

Annex 1, Part A, Condition 3 reporting requirements for SNP Station 1645-88 (A418 barge) are provided in Attachment 2.

## **Results**

### **Water Sampling and Analysis Results**

1. Sampling dates of SNP stations and rationales for any non-sampling events of SNP stations are provided in Table 1a. Table 1b outlines suspended SNP stations in the reporting month, including rationale for their suspension, if applicable.
2. Table 2 includes daily and monthly total phosphorus loading to Lac de Gras from the NIWTP.
3. Table 3 provides NIWTP effluent to Lac de Gras data for the month.
4. Table 4 provides effluent mixing zone in Lac de Gras analytical data.
5. Table 5 provides effluent mixing zone in Lac de Gras bioprofile data.
6. Table 6 provides results for non-discharge SNP Stations.
7. Table 7 summarizes spills that occurred at mine site during the month.
8. Table 8 summarizes annual raw water use to date.
9. Table 9 summarizes QA/QC results for the month.
10. Attachment 1 provides Annex 1, Part A, Condition 2 reporting requirements for SNP Station 1645-51 (A21 water pumped to North Inlet).
11. Attachment 2 provides Annex 1, Part A, Condition 3 reporting requirements for SNP Station 1645-88 (A418 barge)

### **QA/QC Review**

Table 9 shows the QA/QC performance for the month. During the reported period, three (3) duplicate samples (1645-18B, 1645-19A-10, and 1645-75B), one (1) equipment blank (1645-19C-15) were collected. The duplicate sample 1645-19A-10 had three parameters that were outside the relative percent difference. Rework requests were submitted to the external laboratory.

### **QA/QC February Follow-Up**

Bureau Veritas (BV), DDMI's contractor for laboratory analysis of samples, reran requested reanalysis of parameters in February and previous result were reissued with lower values after the rerun.

### **Flow and Volume Measurements**

1. Table 2 provides a breakdown of ore and waste rock material moved for the month from the Underground and Surface Operations.
2. Table 2 provides water and waste flow and volumes for the month as required under Annex 1, Part B.
3. Table 2 provides volumes of Lac de Gras water used for drills/other uses and dust management for the month.
4. The North Inlet elevation average for the month of March was **415.66 m** above sea level (asl) (Table 2).

### **Spill Summary**

There were four (4) surface spills reported during the month. The spill information is presented in Table 7.

### **Raw Water Usage**

Table 8 shows cumulative operational Lac de Gras water use during the year. At the end of the reporting period 18% of the operational licence limit (Part D, Condition 1) was used.

### **A21 Waste Rock Management**

In March 2025, 9,612 tonnes of waste rock was mined from A21 underground and operationally classified as Type III and taken to the WRSA-NCRP and/or used as underground cement rock fill.

In late January 2024, underground development neared a known major fault. Based on experience from the A21 open pit and out of an abundance of caution, DDMI began operationally classifying all waste rock from A21 underground development as Type III while development was passing through this faulted zone. Waste rock sample results received from this area have been below the Type II sulphur percentage (0.04 wt%S). All material from March was proactively classified as Type III and taken to the Waste Rock Storage Area – North Country Rock Pile (WRSA-NCRP) Life of Mine (LOM) region or used as underground cement rock fill.

DDMI believes that there is no impact to DDMI's ability to store Type II/III material in the LOM region of the WRSA-NCRP. There are no plans to propose any changes to sampling methodologies or material disposal locations.

DDMI continues to adhere to the requirements of the Waste Rock Management Plan and identifies and segregates Type II/III.

To date, DDMI has analyzed 1,132 (7 in 2025) A21 waste rock samples for total sulphur and the mean sulphur content is 0.011 wt%S (0.005 wt%S in 2025).

**Closure**

If you have any questions regarding the attached submission, please contact the undersigned or Kyla Gray ([kyla.gray@riotinto.com](mailto:kyla.gray@riotinto.com); 867-445-4922).

Yours sincerely,



Nicole Goodman  
Superintendent, Environment & Closure  
Cross shift: Mark Nelson

CC: Marie-Eve Cyr, WLWB  
Kassandra DeFrancis, WLWB  
Joseph Heron, GNWT-ECC Lands Inspector  
John McCullum, EMAB  
Allison McCabe, EMAB

# Diavik Surveillance Network Program (SNP) Active Stations 2025



### Active SNP Stations

- ◆ Active Sump (2)
- ◆ Collection Pond (10)
- Diffuser (3)
- ◆ Groundwater Well (1)
- A418 Pool (1)
- PKC Pond (1)
- PKC Well (4)
- STP Effluent (1)
- ◆ Surface Runoff Station (2)
- Underground Dewatering (2)

### Active NIWTP stations

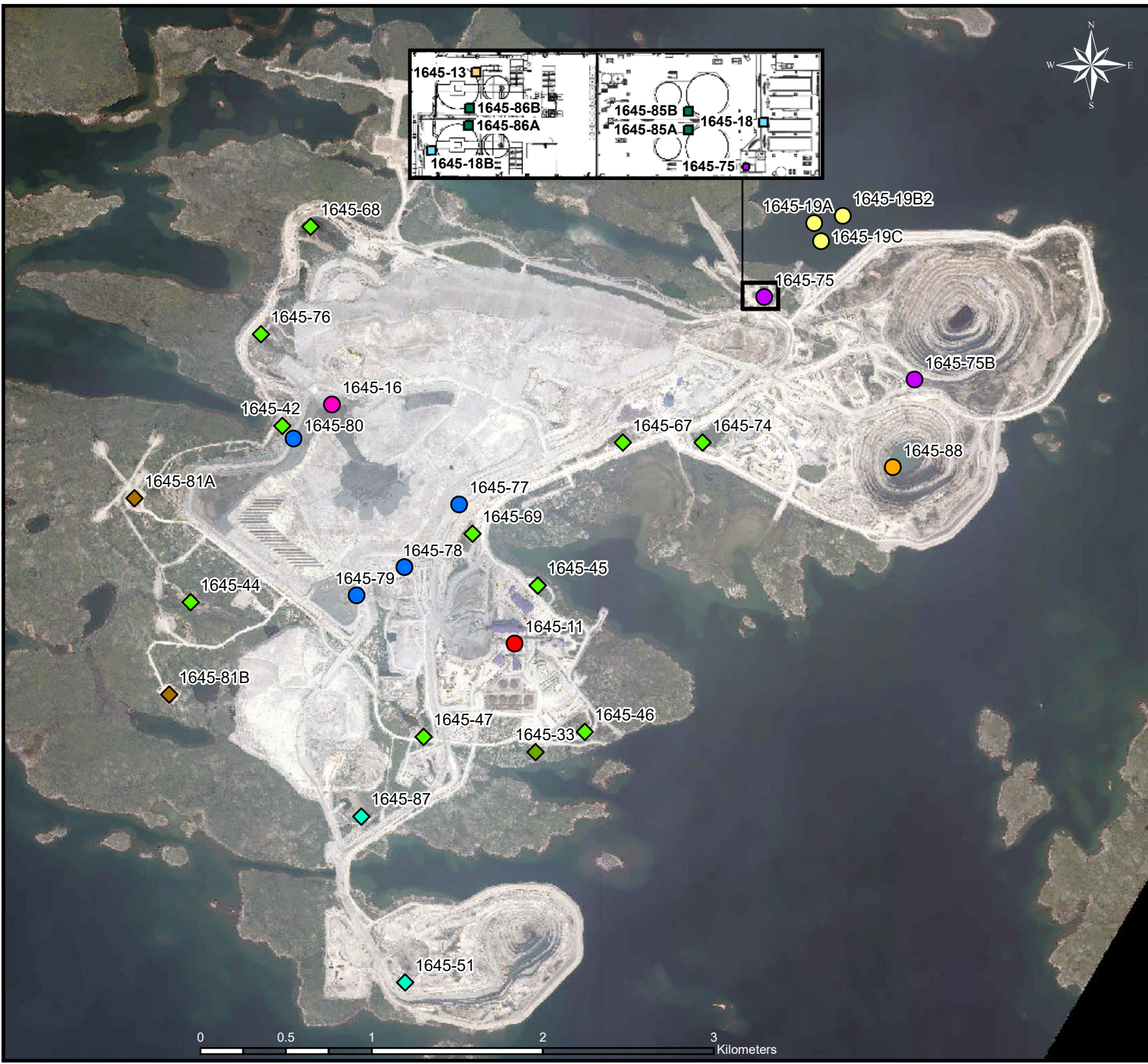
- NIWTP Clarifier Sludge (4)
- NIWTP Effluent (2)
- NIWTP Influent (1)

Diavik Diamond Mines (2012) Inc.  
Environment Department  
Lac de Gras, Northwest Territories

Created: January 2025

Satellite Image (50cm Resolution)  
Acquired 2024-July-22

Coordinate System: NAD 1983 UTM Zone 12N  
Projection: Transverse Mercator  
Datum: North American 1983



**Table 1a: Rationale for Non-Sampling Events**

March, 2025

Date	Stations Sampled	Stations Not Sampled	Missed Parameters	Rationale
March 1, 2025				
March 2, 2025				
March 3, 2025	1645-88 (Biweekly)			
March 4, 2025				
March 5, 2025				
March 6, 2025	1645-13/18/18B (6 Day)			
March 7, 2025	1645-77/80 (Monthly)	1645-16/78/79		1645-16 had no water reporting to it, 1645-78 remains off, 1645-79 remains frozen
March 8, 2025				
March 9, 2025	1645-51 (Biweekly)			
March 10, 2025				
March 11, 2025				
March 12, 2025	1645-13/18/18B (6 Day) 1645-19A/19B2/19C (Monthly) 1645-75/75B (Biweekly) 1645-85A/86A (Biweekly)			
March 13, 2025				
March 14, 2025				
March 15, 2025				
March 16, 2025				
March 17, 2025	1645-88 (Biweekly)			
March 18, 2025	1645-13/18/18B (6 Day)			
March 19, 2025				
March 20, 2025				
March 21, 2025	1645-44MZ/68MZ (Monthly)			
March 22, 2025				
March 23, 2025	1645-51 (Biweekly)			
March 24, 2025	1645-13/18/18B (6 Day)			
March 25, 2025				
March 26, 2025	1645-75B (Biweekly) 1645-86A/86B (Biweekly)			
March 27, 2025				
March 28, 2025				
March 29, 2025				
March 30, 2025	1645-13/18/18B (6 Day) 1645-75 (Biweekly)			
March 31, 2025	1645-88 (Biweekly)			

**Table 1b: Suspended SNP Stations**

SNP Stations	Rationale	Comments

**Table 2: Project Site Daily/Monthly SNP Volumes**

**March, 2025**



Date	North Inlet Elevation Surveyed meters above sea level (masl)	Potable Water Usage Metered m³	Sludge Generated STP Measured m³	STP Water Discharged to A418 <sup>1</sup> Metered m³	NWTWP Water Discharged to Lac de Gras Metered m³	Phosphorus Loading to Lac de Gras Calculated kg	A154 Pit Water Metered m³	A418 Pit Water Metered m³	A154 Depressurization System Water Estimated m³	A418 Depressurization System Water Estimated m³	Underground Decline A418/A154 Metered m³	Underground C9105 Pump Station Metered m³	A21 Water to North Inlet Metered m³	Batch & Backfill Plants (reuse of treated water from NWTWP) Metered m³	Collection Ponds to Lac de Gras Metered m³	Collection Ponds to North Inlet Metered m³	Collection Ponds to Process Plant Metered m³	PKCF Interception Well Water to North Inlet Metered m³	PKCF Interception Well Water to PKCF <sup>2</sup> Metered m³	Flow from PKCF Northwest Decant to North Inlet Metered m³	Raw Water Usage Dust Management Metered m³	Raw Water Used for Other (Drills, etc.) Metered m³	A418 PKMW Reclaim Metered m³	Kimberlite Ore Processed <sup>3</sup> Measured metric ton	Recovery Plant Rejects Processed Metered m³	North Inlet Recycled Water <sup>4</sup> Metered m³	Process Plant Raw Water Usage Metered m³	Process Plant Slurry Water Discharge to A418 Metered m³	Coarse Processed Kimberlite Hauled to PKCF Measured metric ton	Fine Processed Kimberlite Discharged to A418 Measured metric ton	
																															Site Services
March 1, 2025	415.43	199	4	183	39,009	0.3	582	73	138	184	6,694	20,512	10,907	511	0	0	0	0	0	0	0	0	8,689	12	0	4,920	1,146	6,552	0	12	
March 2, 2025	415.45	226	4	193	39,307	0.3	5,202	11	139	176	5,663	17,784	10,980	582	0	0	0	0	0	0	0	2	8,480	3,668	0	4,550	2,049	7,481	1,703	1,965	
March 3, 2025	415.52	202	4	187	39,423	0.3	227	0	139	174	6,946	21,400	10,728	513	0	0	0	0	0	0	7	0	6,211	0	0	5,550	2,968	9,105	3,495	2,715	
March 4, 2025	415.59	219	4	209	31,666	0.6	533	0	137	178	7,383	22,128	11,651	474	0	0	0	0	0	0	6	0	8,694	5,783	92	5,725	2,859	9,290	3,264	2,520	
March 5, 2025	415.59	215	4	178	38,953	0.6	866	328	142	130	6,427	22,024	10,952	619	0	0	0	0	0	0	6	0	8,694	200	138	5,675	2,844	8,868	178	21	
March 6, 2025	415.57	213	4	211	37,316	0.6	657	28	138	143	7,348	20,576	10,812	542	0	0	0	0	0	0	7	0	8,671	0	0	3,890	1,348	5,657	0	0	
March 7, 2025	415.61	226	4	187	40,461	0.7	982	216	138	142	7,513	22,120	10,863	543	0	0	0	0	0	0	6	0	7,798	0	0	3,760	1,285	5,444	0	0	
March 8, 2025	415.65	215	4	197	38,407	0.6	918	306	142	167	7,082	20,872	11,475	489	0	0	0	0	0	6	0	5,282	0	3	2,880	1,239	4,775	0	0		
March 9, 2025	415.68	192	4	185	37,961	0.6	1,928	113	145	79	5,705	20,000	11,059	514	0	0	0	0	0	6	0	4,741	0	0	3,480	1,309	5,178	0	0		
March 10, 2025	415.65	206	4	193	39,674	0.7	651	133	151	167	7,473	20,632	11,715	485	0	0	0	0	0	6	0	5,806	0	0	3,120	1,563	5,075	0	0		
March 11, 2025	415.62	208	4	195	38,857	0.7	4,755	280	155	135	3,250	19,872	11,523	466	0	0	0	0	0	6	0	5,133	0	0	3,750	1,331	5,487	0	0		
March 12, 2025	415.66	244	4	202	37,820	0.7	181	244	146	93	7,303	19,280	11,464	490	0	0	0	0	0	7	0	3	6,988	690	0	5,170	1,439	6,924	169	521	
March 13, 2025	415.75	232	4	237	39,753	0.7	4,316	0	142	163	4,225	20,088	11,452	551	0	0	0	0	0	6	0	2	8,644	630	0	6,420	2,668	9,323	535	95	
March 14, 2025	415.74	217	4	169	39,712	0.7	107	0	150	149	7,882	21,104	11,646	490	0	0	0	0	0	6	0	2	8,646	4,953	0	5,260	2,777	8,611	1,953	3,000	
March 15, 2025	415.72	199	4	177	43,960	0.8	540	0	146	141	8,567	22,152	11,666	538	0	0	0	0	0	7	0	3	8,638	7,495	0	5,920	2,869	9,195	3,816	3,678	
March 16, 2025	415.71	183	4	143	36,681	0.6	584	659	151	141	7,066	19,256	11,595	430	0	0	0	0	0	6	0	2	8,513	7,668	0	5,977	2,802	9,154	3,763	3,905	
March 17, 2025	415.71	181	5	171	38,137	0.6	471	475	151	123	7,118	20,384	11,816	338	0	0	0	0	0	6	0	2	6,730	6,476	0	6,035	2,698	9,131	3,166	3,311	
March 18, 2025	415.73	227	5	209	41,086	0.7	28	0	145	140	7,387	22,440	11,531	521	0	0	0	0	0	7	0	0	6,641	3,193	0	6,068	2,597	9,062	1,774	1,419	
March 19, 2025	415.69	223	5	201	38,533	0.7	5	0	146	139	6,595	20,136	11,440	469	0	0	0	0	0	6	0	0	5,059	7,538	0	5,990	2,875	9,083	3,478	4,061	
March 20, 2025	415.71	230	5	215	41,316	0.7	15	0	142	138	6,994	22,888	11,440	529	0	0	0	0	0	6	0	0	6,067	8,522	0	6,035	2,648	9,088	3,649	4,973	
March 21, 2025	415.66	191	5	158	38,659	0.7	0	152	145	127	6,499	20,928	11,641	495	0	0	0	0	0	6	0	0	8,013	7,361	0	5,905	2,655	9,064	3,446	3,915	
March 22, 2025	415.59	179	5	158	35,350	1.1	713	10	136	148	5,897	19,768	11,246	439	0	0	0	0	0	7	0	0	8,129	6,950	0	6,194	2,755	9,350	3,356	3,594	
March 23, 2025	415.66	195	5	169	40,942	1.3	5,303	0	142	133	3,754	19,768	11,207	411	0	0	0	0	0	6	0	0	8,136	7,415	0	6,187	2,795	9,435	3,513	3,902	
March 24, 2025	415.72	184	5	175	37,897	1.2	8,160	297	140	138	882	16,992	11,642	482	0	0	0	0	0	6	0	0	8,128	6,742	0	6,170	2,813	9,382	3,601	3,142	
March 25, 2025	415.74	199	5	173	36,191	1.2	8,850	7,994	137	127	31	19,160	11,630	398	0	0	0	0	0	7	0	0	8,131	7,297	0	6,302	2,797	9,544	3,622	3,675	
March 26, 2025	415.72	181	5	176	39,593	1.3	8,459	0	140	136	3,305	14,568	11,921	483	0	0	0	0	0	6	0	0	8,125	6,793	0	6,294	2,949	9,648	3,336	3,458	
March 27, 2025	415.70	214	5	192	39,314	1.3	1,044	44	132	142	6,707	19,752	11,833	454	0	0	0	0	0	7	0	0	8,142	4,934	0	6,134	2,777	9,383	2,185	2,749	
March 28, 2025	415.68	204	4	170	39,661	0.9	8	0	135	122	6,795	20,664	11,691	461	0	0	0	0	0	6	0	0	8,154	6,839	0	6,310	2,835	9,593	3,586	3,252	
March 29, 2025	415.71	182	4	170	40,814	0.9	98	0	136	138	6,828	22,280	11,688	453	0	0	0	0	0	6	0	2	8,147	6,386	0	6,559	2,921	9,871	3,315	3,071	
March 30, 2025	415.71	197	5	176	33,161	0.8	156	6,503	126	127	9,598	21,492	11,689	693	0	0	0	0	0	6	0	0	8,162	851	323	1,291	641	8,362	339	512	
March 31, 2025	415.70	197	5	176	40,335	0.4	67	0	130	139	4,091	21,492	11,673	271	0	0	0	0	0	7	0	2	8,153	0	0	0	0	0	0	0	0
<b>Total</b>	<b>415.66</b>	<b>6,380</b>	<b>132</b>	<b>5,735</b>	<b>1,199,950</b>	<b>24</b>	<b>56,406</b>	<b>17,774</b>	<b>4,381</b>	<b>4,382</b>	<b>189,008</b>	<b>632,512</b>	<b>354,580</b>	<b>15,034</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>183</b>	<b>0</b>	<b>36</b>	<b>235,970</b>	<b>124,606</b>	<b>553</b>	<b>157,510</b>	<b>69,050</b>	<b>246,113</b>	<b>61,242</b>	<b>63,364</b>	

Material Quantities						Summary:	
Material Type	SCRIP Remine		A21 Underground		A154 Underground		Total Phosphorus Load
	Tonnes	Use / Destination	Tonnes	Use / Destination	Tonnes	Use / Destination	
Overburden Till and Lake Bottom Sediment	-	North Country Rock Pile	-	North Country Rock Pile	-	North Country Rock Pile	24
Overburden Till and Lake Bottom Sediment	-	South Country Rock Pile	-	South Country Rock Pile	-	South Country Rock Pile	74,180
Overburden Till and Lake Bottom Sediment	-	Construction	-	Construction	-	Construction	8,763
Country Rock, Type 1	304	North Country Rock Pile	-	North Country Rock Pile	-	North Country Rock Pile	157,510
Country Rock, Type 1	9,870	South Country Rock Pile	-	South Country Rock Pile	-	South Country Rock Pile	75,466
Country Rock, Type 1	11,878	Construction/Reclamation	-	Construction/Reclamation	-	Construction/Reclamation	1,199,950
Country Rock, Type 3	-	North Country Rock Pile	627	North Country Rock Pile	-	North Country Rock Pile	61,242
Country Rock, Type 3	-	CRF	8,985	CRF	-	CRF	
Kimberlite Ore	-	Process Plant	52,846	Process Plant	51,640	Process Plant	

Note:  
<sup>1</sup> Kimberlite Quantities are given in Metric Tonnes and represent diluted ore  
<sup>2</sup> Negative value indicates NI Water sent directly to PKCF Reclaim  
<sup>3</sup> STP water metered before entering the processing plant  
<sup>4</sup> Negative value indicates water transferred from the PKCF to North Inlet  
<sup>5</sup> Select PKCF interception wells report to Process Plant prior to discharge to the PKCF

Table 3: Effluent Discharge to Lac de Gras

Rio Tinto	March 2025		1645-18					1645-18B				
	NIWTP - Discharge to LDG	W.L. Criteria Reported Units	30-Mar-25	24-Mar-25	18-Mar-25	12-Mar-25	6-Mar-25	30-Mar-25	24-Mar-25	18-Mar-25	12-Mar-25	6-Mar-25
W2015L2-0001 Discharge Criteria	Ammonia (N)	12 mg/L	1.2	1.2	1.5	1.5	1.5	1.2	1.2	1.6	1.6	1.6
	Nitrite (N)	2 mg/L	0.20	0.18	0.18	0.18	0.18	0.19	0.18	0.18	0.18	0.16
	pH	6.0-8.4 pH	8.14	7.93	7.72	7.93	8.04	7.83	7.93	7.89	7.84	7.73
	Total Suspended Solids (TSS)	25 mg/L	1.8	1.6	1.0	<1.0	1.1	<1.0	<1.0	2.3	2.6	<1.0
	Turbidity	15 NTU	0.10	0.14	0.11	<0.10	2.5	0.12	2.6	0.12	<0.10	2.8
	Zinc (Zn) - Total	20 ug/L	<0.10	<0.10	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Arsenic (As) - Total	100 ug/L	2.00	1.91	1.54	1.82	1.96	1.49	1.79	1.69	1.61	1.15
	Cadmium (Cd) - Total	3 ug/L	0.0077	0.0086	0.0091	0.0060	0.0088	0.0076	0.0061	0.0053	0.0077	0.0093
	Chromium (Cr) - Total	40 ug/L	2.35	1.79	2.16	2.30	2.25	2.31	1.81	2.09	2.28	2.44
	Copper (Cu) - Total	40 ug/L	0.204	0.182	0.204	0.219	0.245	0.195	0.162	0.207	0.220	0.288
	Lead (Pb) - Total	20 ug/L	<0.0050	0.0062	0.0058	<0.0050	0.0067	0.0051	<0.0050	0.0058	<0.0050	0.0090
	Nickel (Ni) - Total	100 ug/L	4.19	5.18	5.63	4.54	3.39	4.36	5.52	5.57	4.61	4.25
	Aluminum (Al) - Total	3000 ug/L	637	476	461	536	583	493	496	502	561	421
C6-C50 Hydrocarbons Calculated	5 mg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	



Data exceeds water licences maximum grab concentration

Warning data point exceeds the water licences maximum average threshold



Table 3: Effluent Discharge to Lac de Gras

Rio Tinto	March 2025		1645-18					1645-18B					
	NIWTP - Discharge to LDG	W.L Criteria	Reported Units	30-Mar-25	24-Mar-25	18-Mar-25	12-Mar-25	6-Mar-25	30-Mar-25	24-Mar-25	18-Mar-25	12-Mar-25	6-Mar-25
Anions	Bicarbonate (HCO3)		mg/L	53.4	61.9	59.9	53.9	55.0	49.6	55.7	56.5	53.4	50.2
	Carbonate (CO3)		mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Chloride (Cl) - Dissolved		mg/L	130	130	120	130	130	130	130	120	130	130
	Fluoride (F)		mg/L	0.159	0.168	0.152	0.158	0.182	0.139	0.170	0.155	0.143	0.134
	Hydroxide (OH)		mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Sulphate (SO4) - Dissolved		mg/L	130	130	130	150	150	130	130	120	150	140
Nutrients	Dissolved Organic Carbon (C)		mg/L		1.3					1.3			
	Nitrate (N)		mg/L	5.5	5.7	6.1	6.0	5.9	5.5	5.6	6.0	6.0	5.8
	Nitrate plus Nitrite (N)		mg/L	5.7	5.8	6.2	6.2	6.1	5.7	5.8	6.2	6.2	6.0
	Nitrogen (N) - Total		mg/L	6.9	6.6	7.6	7.5	7.6	6.8	6.6	7.8	7.6	7.7
	Orthophosphate (PO4-P)		mg/L	0.017	0.015	0.0042	0.011	0.017	0.0080	0.012	0.0097	0.0071	0.0039
	Phosphorus (P) - Dissolved (TDP)		mg/L	0.0140	0.0113	0.0056	0.0093	0.0127	0.0049	0.0086	0.0066	0.0056	<0.0020
	Phosphorus (P) - Total		mg/L	0.0282	0.0273	0.0147	0.0186	0.0246	0.0176	0.0375	0.0192	0.0217	0.0092
	Total Kjeldahl Nitrogen (TKN) - (Calc Total Organic Carbon (TOC)		mg/L	1.2	0.79	1.3	1.3	1.5	1.2	0.79	1.7	1.5	1.7
Physical Properties	Conductivity - DDMI Field		us/cm	868.8	833.1	865.8	852.6	874.4	889.4	858.2	887.2	908.2	908.5
	Temperature of Water - DDMI Field		°C	3.5	3.8	3.7	4.1	3.9	2.8	3.4	3.3	3.3	3.5
	Acidity (pH 4.5)		mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Acidity (pH 8.3)		mg/L	2.0	3.4	2.2	1.9	1.5	2.6	3.5	2.7	2.0	2.1
	Alkalinity (PP as CaCO3)		mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Alkalinity (Total as CaCO3) - Total		mg/L	43.8	50.7	49.1	44.2	45.1	40.6	45.7	46.3	43.7	41.2
	Hardness (as CaCO3) - Dissolved		mg/L		156					155			
	Hardness (as CaCO3) - Total		mg/L	159	156	156	169	151	157	157	153	170	167
	Dissolved Oxygen - Field		mg/L		12.90					12.70			
	Total Dissolved Solids (TDS)		mg/L	472	476	488	485	490	473	475	481	492	501

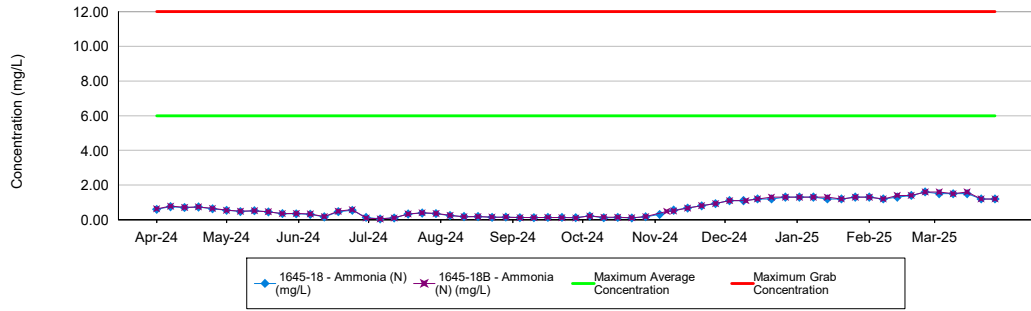


Table 3: Effluent Discharge to Lac de Gras

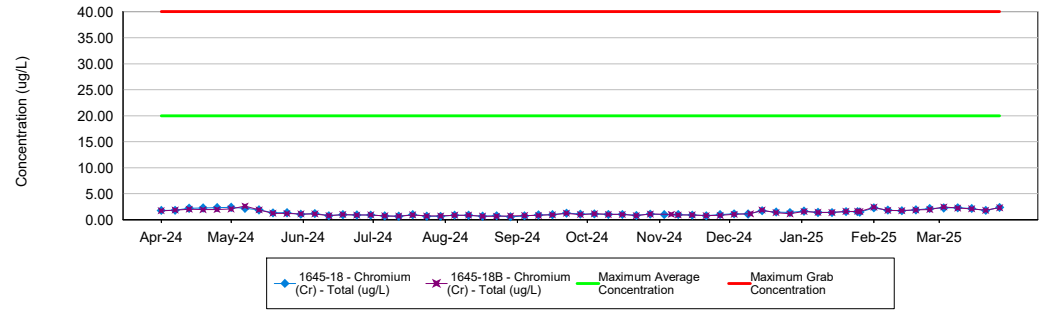
Rio Tinto	March 2025		1645-18	1645-18 B	
	NIWTP - Discharge to LDG	W.L Criteria	Reported Units	24-Mar-25	24-Mar-25
Dissolved Metals by CRC-ICPMS	Aluminum (Al) - Dissolved		ug/L	183	144
	Antimony (Sb) - Dissolved		ug/L	1.07	1.00
	Arsenic (As) - Dissolved		ug/L	1.79	1.57
	Barium (Ba) - Dissolved		ug/L	93.9	96.4
	Beryllium (Be) - Dissolved		ug/L	<0.010	<0.010
	Bismuth (Bi) - Dissolved		ug/L	<0.0050	<0.0050
	Boron (B) - Dissolved		ug/L	47.8	48.6
	Cadmium (Cd) - Dissolved		ug/L	0.0052	<0.0050
	Calcium (Ca) - Dissolved		mg/L	47.0	46.7
	Chromium (Cr) - Dissolved		ug/L	1.82	1.80
	Cobalt (Co) - Dissolved		ug/L	0.103	0.0952
	Copper (Cu) - Dissolved		ug/L	0.192	0.162
	Iron (Fe) - Dissolved		ug/L	<1.0	<1.0
	Lead (Pb) - Dissolved		ug/L	<0.0050	<0.0050
	Lithium (Li) - Dissolved		ug/L	11.5	11.9
	Magnesium (Mg) - Dissolved		mg/L	9.47	9.46
	Manganese (Mn) - Dissolved		ug/L	12.2	12.8
	Mercury (Hg) - Dissolved		ug/L	<0.0019	<0.0019
	Molybdenum (Mo) - Dissolved		ug/L	52.8	52.3
	Nickel (Ni) - Dissolved		ug/L	5.11	5.26
	Potassium (K) - Dissolved		mg/L	27.7	27.6
	Selenium (Se) - Dissolved		ug/L	0.146	0.131
	Silicon (Si) - Dissolved		ug/L	4720	4730
	Silver (Ag) - Dissolved		ug/L	<0.0050	<0.0050
	Sodium (Na) - Dissolved		mg/L	76.3	75.8
	Strontium (Sr) - Dissolved		ug/L	874	871
	Sulphur (S) - Dissolved		mg/L	43.6	43.4
	Thallium (Tl) - Dissolved		ug/L	0.0070	0.0063
	Tin (Sn) - Dissolved		ug/L	<0.010	<0.010
	Titanium (Ti) - Dissolved		ug/L	<0.50	<0.50
Uranium (U) - Dissolved		ug/L	1.97	1.86	
Vanadium (V) - Dissolved		ug/L	2.35	2.26	
Zinc (Zn) - Dissolved		ug/L	<0.10	<0.10	
Zirconium (Zr) - Dissolved		ug/L	<0.050	<0.050	



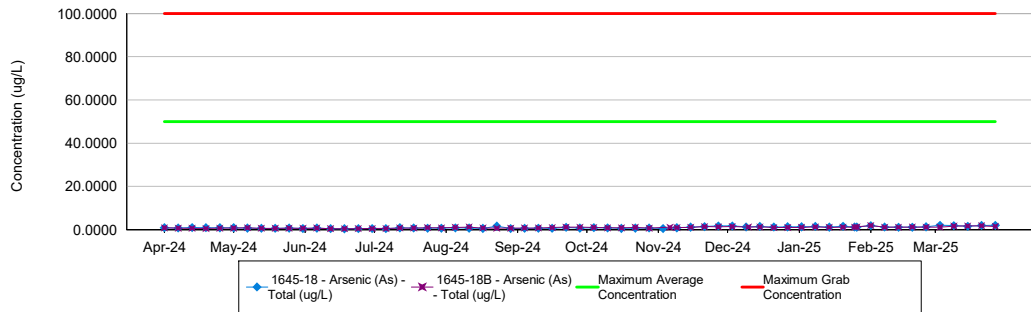
1645-18 / 1645-18B - Ammonia (N) Concentration



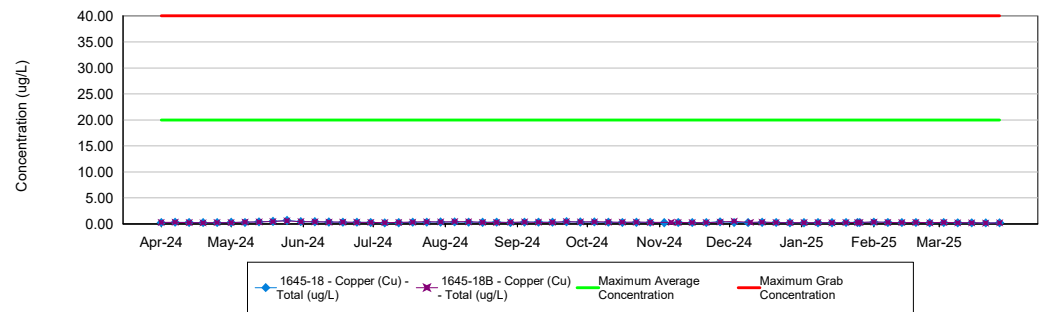
1645-18 / 1645-18B - Chromium (Cr) - Total Concentration



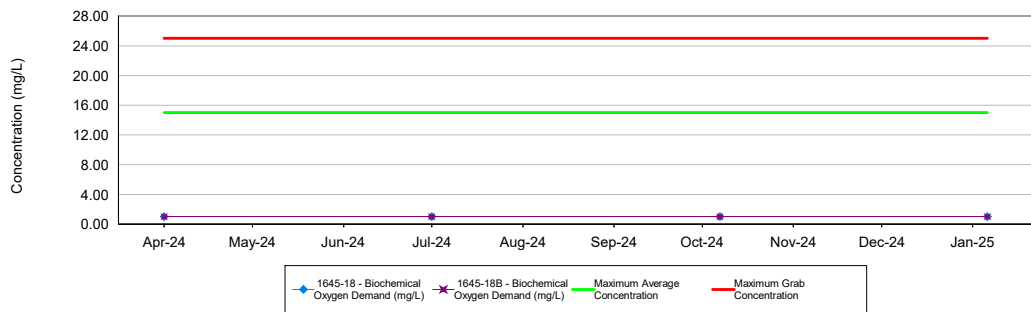
1645-18 / 1645-18B - Arsenic (As) - Total Concentration



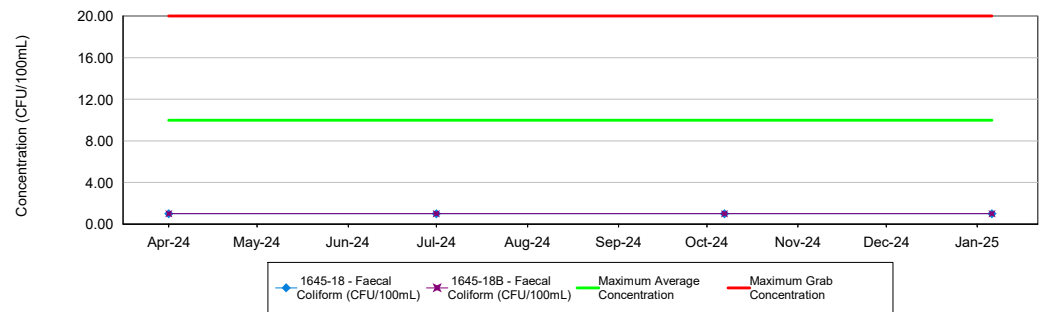
1645-18 / 1645-18B - Copper (Cu) - Total Concentration



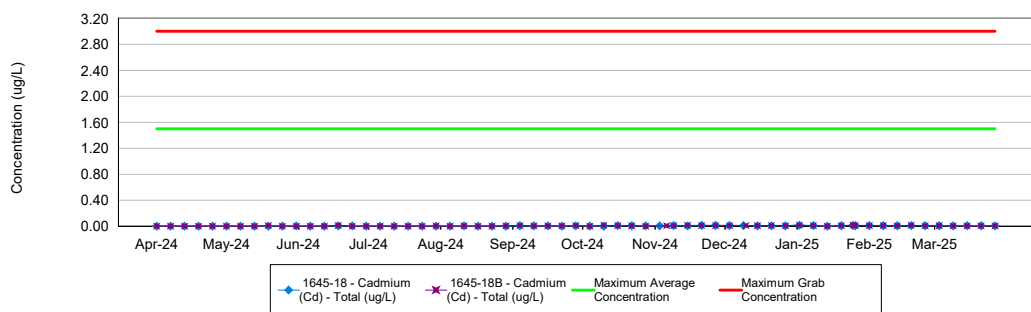
1645-18 / 1645-18B - Biochemical Oxygen Demand Concentration



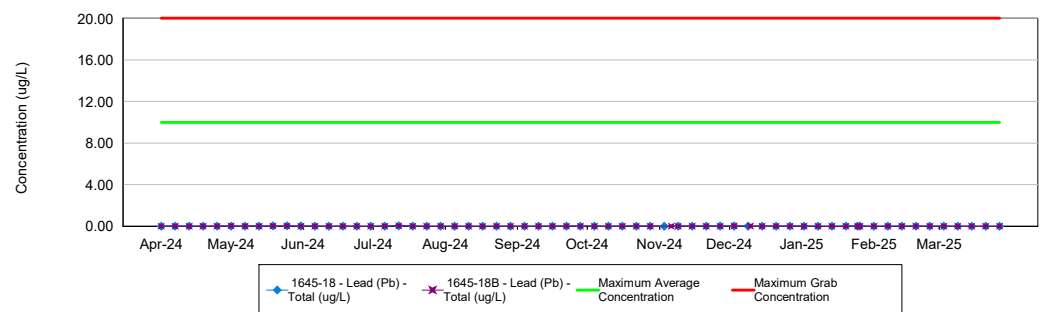
1645-18 / 1645-18B - Faecal Coliform Concentration



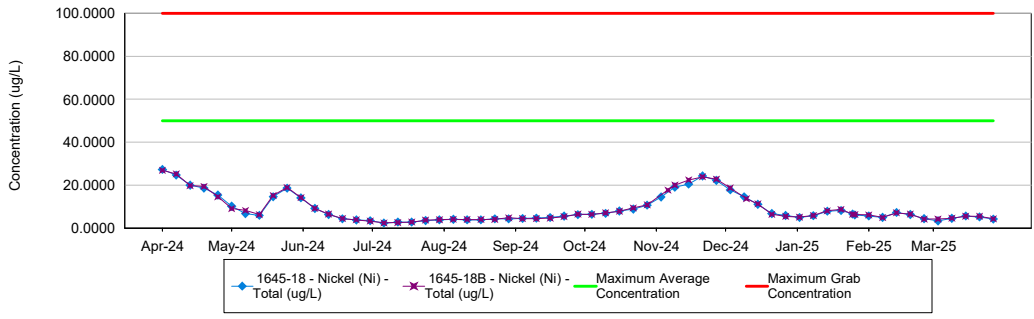
1645-18 / 1645-18B - Cadmium (Cd) - Total Concentration



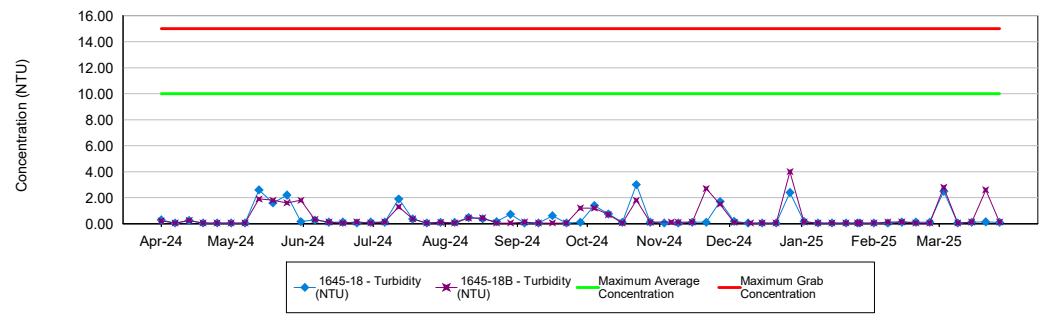
1645-18 / 1645-18B - Lead (Pb) - Total Concentration



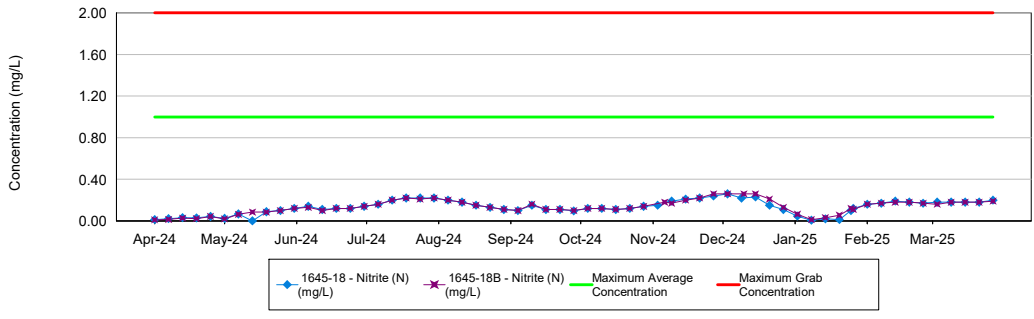
1645-18 / 1645-18B - Nickel (Ni) - Total Concentration



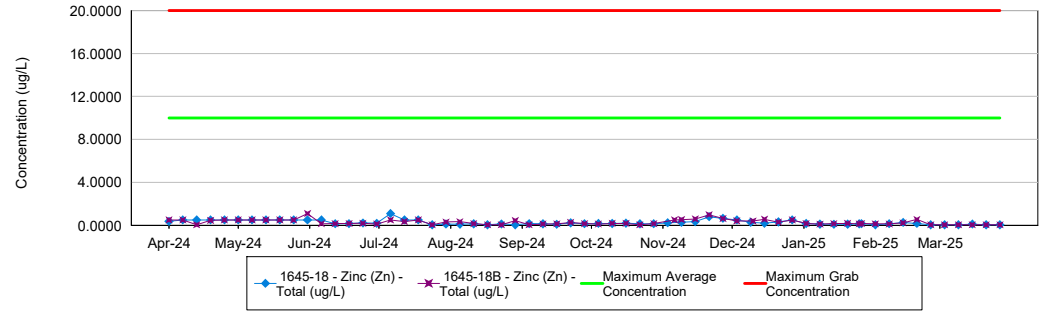
1645-18 / 1645-18B - Turbidity Concentration



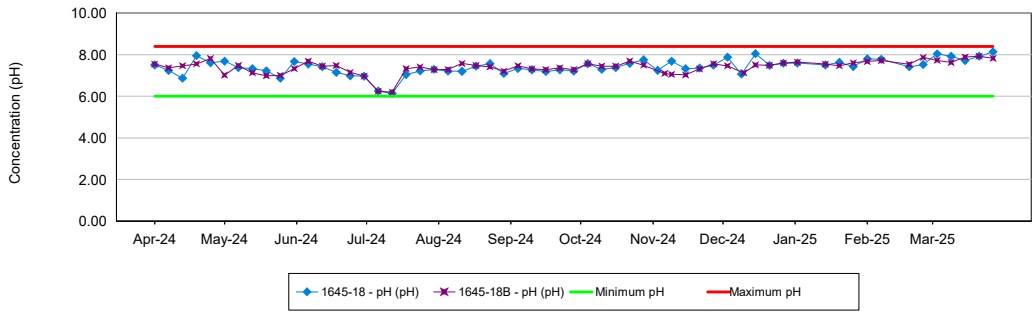
1645-18 / 1645-18B - Nitrite (N) Concentration



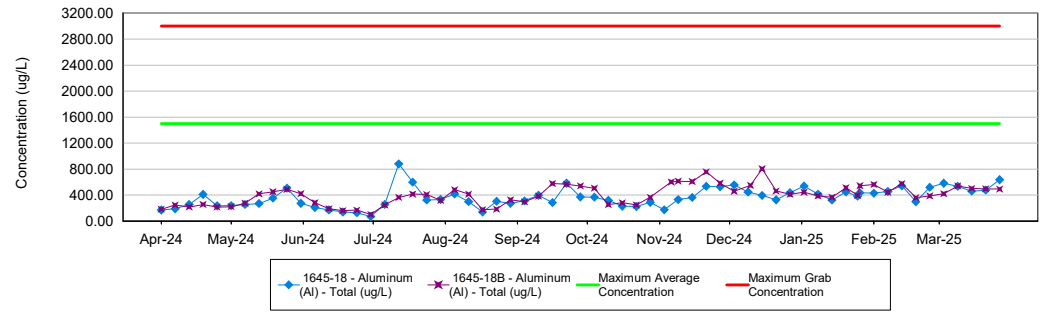
1645-18 / 1645-18B - Zinc (Zn) - Total Concentration



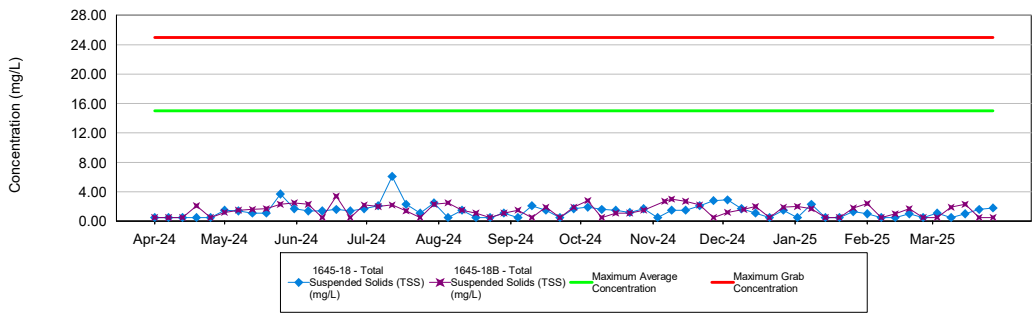
1645-18 / 1645-18B - pH Concentration



1645-18 / 1645-18B - Aluminum (Al) - Total Concentration



1645-18 / 1645-18B - Total Suspended Solids (TSS) Concentration



1645-18 / 1645-18B - C6-C50 Hydrocarbons Calculated Concentration

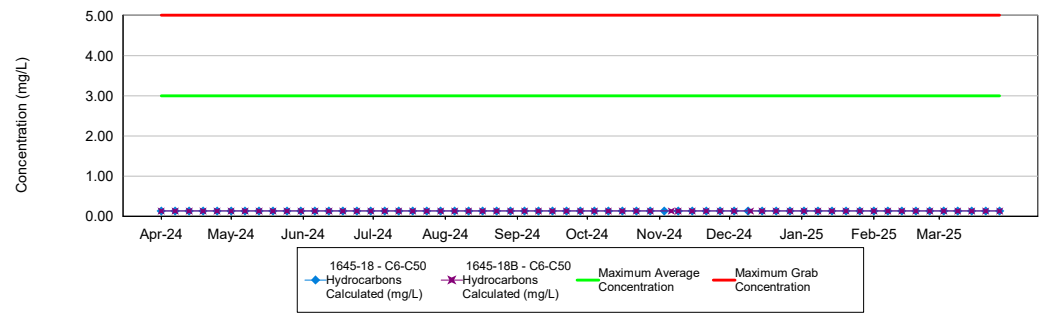


Table 4: Lac de Gras Effluent Mixing Zone

<b>RioTinto</b>	<b>March 2025</b>		<b>1645-19A-2</b>	<b>1645-19A-5</b>	<b>1645-19A-10</b>	<b>1645-19A-15</b>	<b>1645-19A-20</b>	<b>1645-19B2-2</b>	<b>1645-19B2-5</b>	<b>1645-19B2-10</b>	<b>1645-19B2-15</b>	<b>1645-19B2-20</b>	<b>1645-19C-2</b>	<b>1645-19C-5</b>	<b>1645-19C-10</b>	<b>1645-19C-15</b>	
	<b>Sample Depth (metres below surface)</b>		<b>2</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>2</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>2</b>	<b>5</b>	<b>10</b>	<b>15</b>	
	<b>LDG - Diffusor Stations</b>	<b>W.L Criteria</b>	<b>Reported Units</b>	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25
<b>Water License</b>	Aluminum (Al) - Total	ug/L	614	28.2	33.2	60.2	181	15.2	22.4	30.5	29.5	28.7	64.6	28.5	35.2	44.9	
	Ammonia (N)	mg/L	0.038	0.068	0.11	0.12	0.12	0.054	0.095	0.12	0.12	0.12	0.070	0.071	0.12	0.13	
	Arsenic (As) - Total	ug/L	0.420	0.301	0.337	0.342	1.41	0.297	0.336	0.357	0.352	0.345	0.318	0.314	0.338	0.365	
	Cadmium (Cd) - Total	ug/L	0.0158	<0.0050	<0.0050	<0.0050	0.0119	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Chromium (Cr) - Total	ug/L	12.2	0.208	0.249	0.187	1.01	0.099	0.139	0.165	0.174	0.177	0.139	0.103	0.163	0.182	
	Copper (Cu) - Total	ug/L	2.49	0.667	0.678	0.693	0.92	0.628	0.647	0.637	0.642	0.599	0.662	0.649	0.645	0.665	
	Lead (Pb) - Total	ug/L	1.01	0.0304	0.0220	0.0213	0.129	0.0084	<0.0050	0.0086	<0.0050	<0.0050	0.0202	0.0066	<0.0050	0.0067	
	Nickel (Ni) - Total	ug/L	34.3	1.20	1.35	1.13	2.59	0.986	1.02	1.13	1.07	1.06	1.04	0.986	1.08	1.07	
	Nitrite (N)	mg/L	<0.0010	0.0022	0.0069	0.0072	0.0075	0.0020	0.0046	0.0061	0.0076	0.0061	<0.0010	0.0028	0.0067	0.0073	
	pH	pH	6.04	6.02	6.17	6.11	6.10	5.95	6.11	6.09	6.13	6.11	6.12	6.08	6.13	6.10	
	Total Suspended Solids (TSS)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Turbidity	NTU	0.16	0.10	0.11	0.11	0.18	2.3	1.6	0.11	1.3	0.11	0.13	0.15	0.11	<0.10	
Zinc (Zn) - Total	ug/L	4.1	1.64	0.91	0.83	1.3	0.51	0.34	0.40	0.19	0.20	1.82	0.40	0.36	0.75		

Table 4: Lac de Gras Effluent Mixing Zone

Rio Tinto	March 2025		1645-19A-2	1645-19A-5	1645-19A-10	1645-19A-15	1645-19A-20	1645-19B2-2	1645-19B2-5	1645-19B2-10	1645-19B2-15	1645-19B2-20	1645-19C-2	1645-19C-5	1645-19C-10	1645-19C-15	
	Sample Depth (metres below surface)		2	5	10	15	20	2	5	10	15	20	2	5	10	15	
	LDG - Diffusor Stations	W.L Criteria	Reported Units	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25
An-ions	Fluoride (F)	mg/L	0.028	0.028	0.041	0.034	0.034	0.029	0.030	0.033	0.035	0.034	0.030	0.031	0.034	0.036	
	Bicarbonate (HCO3)	mg/L	10.6	11.6	13.8	13.0	13.3	11.0	12.6	13.0	13.1	13.1	12.4	12.2	13.3	13.0	
	Carbonate (CO3)	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Hydroxide (OH)	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Chloride (Cl) - Dissolved	mg/L	5.8	8.9	12	13	13	7.3	10	13	13	13	14	8.6	9.1	13	14
	Sulphate (SO4) - Dissolved	mg/L	6.0	8.0	13	14	14	7.6	11	14	14	14	13	8.4	8.5	14	15
Nutrients - SNP	Total Organic Carbon (TOC)	mg/L	2.1	2.0	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.1	2.1	2.0	2.1	2.1	
	Dissolved Organic Carbon (C)	mg/L	2.2	2.1	2.1	2.4	2.1	2.1	2.1	2.2	2.2	2.0	2.4	2.2	2.3	2.1	
	Nitrate (N)	mg/L	0.063	0.19	0.34	0.39	0.39	0.12	0.26	0.37	0.38	0.40	0.18	0.20	0.38	0.41	
	Orthophosphate (PO4-P)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	<0.0010	0.0025	
	Total Kjeldahl Nitrogen (TKN) - (Ca Nitrate plus Nitrite (N)	mg/L	0.26	0.21	0.28	0.28	0.28	0.20	0.25	0.27	0.34	0.26	0.24	0.23	0.27	0.26	
	Nitrate plus Nitrite (N)	mg/L	0.063	0.19	0.34	0.40	0.40	0.13	0.27	0.37	0.39	0.41	0.18	0.20	0.39	0.41	
	Nitrogen (N) - Total	mg/L	0.32	0.40	0.63	0.68	0.68	0.32	0.52	0.64	0.73	0.67	0.42	0.43	0.66	0.67	
	Phosphorus (P) - Total	mg/L	0.0030	0.0026	0.0033	<0.0020	0.0034	0.0028	0.0037	<0.0020	0.0036	<0.0020	0.0056	0.0047	0.0023	0.0022	
Phosphorus (P) - Dissolved (TDP)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020		
Physical Properties	Acidity (pH 4.5)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
	Acidity (pH 8.3)	mg/L	2.1	1.9	1.7	4.3	2.4	2.3	2.1	1.8	2.5	1.5	2.1	2.2	1.8	2.1	
	Alkalinity (Total as CaCO3) - Total	mg/L	8.73	9.53	11.3	10.6	10.9	9.02	10.3	10.7	10.7	10.7	10.1	10.0	10.9	10.7	
	Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	Total Dissolved Solids (TDS)	mg/L	30.8	37.6	50.4	55.2	54.4	34.8	45.2	54.0	55.6	55.2	39.2	40.6	52.0	56.8	
	Hardness (as CaCO3) - Total	mg/L	38.9	16.9	21.0	22.2	22.5	15.1	19.2	21.9	22.3	22.3	17.0	17.3	22.3	22.6	
	Hardness (as CaCO3) - Dissolved	mg/L	13.7	16.4	20.4	22.3	21.8	15.1	19.0	21.8	21.4	22.1	16.6	16.6	21.6	22.2	



Table 4: Lac de Gras Effluent Mixing Zone

Rio Tinto	March 2025		1645-19A-2	1645-19A-5	1645-19A-10	1645-19A-15	1645-19A-20	1645-19B2-2	1645-19B2-5	1645-19B2-10	1645-19B2-15	1645-19B2-20	1645-19C-2	1645-19C-5	1645-19C-10	1645-19C-15
	Sample Depth (metres below surface)		2	5	10	15	20	2	5	10	15	20	2	5	10	15
	LDG - Diffusor Stations	W.L. Criteria	Reported Units	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25
	Antimony (Sb) - Total	ug/L	0.057	0.040	0.061	0.088	0.123	0.029	0.052	0.073	0.071	0.069	0.056	0.049	0.086	0.090
	Barium (Ba) - Total	ug/L	21.0	7.27	9.46	10.3	11.7	5.67	8.38	10.0	10.0	10.2	6.94	6.87	10.3	10.6
	Beryllium (Be) - Total	ug/L	0.027	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Bismuth (Bi) - Total	ug/L	0.022	<0.0050	<0.0050	<0.0050	0.107	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Boron (B) - Total	ug/L	<10	<5.0	<5.0	5.2	<10	<5.0	<5.0	<5.0	<5.0	5.0	<5.0	6.8	6.8	6.3
	Calcium (Ca) - Total	mg/L	2.93	3.95	5.21	5.65	5.41	3.43	4.68	5.53	5.64	5.68	3.99	4.12	5.67	5.71
	Cobalt (Co) - Total	ug/L	2.51	0.0456	0.0392	0.0229	0.374	0.0223	0.0206	0.0271	0.0178	0.0177	0.0227	0.0181	0.0194	0.0217
	Iron (Fe) - Total	ug/L	1720	20.6	18.1	6.2	218	7.9	5.0	9.2	3.9	2.3	7.4	3.5	2.8	3.0
	Lithium (Li) - Total	ug/L	2.77	2.30	2.70	2.72	3.37	2.28	2.59	2.82	2.84	2.73	2.43	2.61	2.88	2.86
	Magnesium (Mg) - Total	mg/L	7.67	1.70	1.94	1.97	2.18	1.58	1.82	1.97	1.98	1.96	1.71	1.71	1.99	2.02
	Manganese (Mn) - Total	ug/L	24.3	1.85	2.01	1.88	131	1.63	2.12	2.45	1.91	2.04	1.49	1.50	1.82	1.92
	Mercury (Hg) - Total	ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
	Molybdenum (Mo) - Total	ug/L	1.05	2.12	3.58	4.00	4.34	1.62	2.93	3.82	3.88	4.02	2.17	2.23	3.91	4.10
	Potassium (K) - Total	mg/L	1.59	2.04	2.80	3.08	3.04	1.74	2.46	2.98	3.03	3.05	2.07	2.11	3.04	3.15
	Selenium (Se) - Total	ug/L	<0.040	<0.040	<0.040	<0.040	0.041	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
	Silicon (Si) - Total	ug/L	4560	199	316	376	464	127	240	325	333	337	228	195	335	359
	Silver (Ag) - Total	ug/L	<0.010	<0.0050	<0.0050	<0.0050	0.014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Sodium (Na) - Total	mg/L	3.94	5.36	7.15	7.73	8.06	4.66	6.37	7.54	7.69	7.72	5.67	5.68	7.72	8.02
	Sulphur (S) - Total	mg/L	2.10	2.71	4.37	4.69	4.52	2.63	3.67	4.70	4.65	4.73	2.97	3.29	4.61	4.68
	Thallium (Tl) - Total	ug/L	0.0054	<0.0020	<0.0020	<0.0020	0.0037	<0.0020	<0.0020	0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Tin (Sn) - Total	ug/L	0.48	<0.010	0.016	<0.010	0.94	0.022	0.010	0.013	<0.010	<0.010	0.031	<0.010	<0.010	0.034
	Titanium (Ti) - Total	ug/L	59.8	0.55	<0.50	1.48	15.2	<0.50	<0.50	<0.50	<0.50	<0.50	1.50	0.59	<0.50	0.85
	Uranium (U) - Total	ug/L	0.164	0.132	0.173	0.187	0.787	0.105	0.147	0.191	0.186	0.194	0.123	0.134	0.187	0.196
	Vanadium (V) - Total	ug/L	2.21	0.171	0.162	0.188	0.67	0.058	0.086	0.129	0.153	0.145	0.156	0.087	0.141	0.164
	Zirconium (Zr) - Total	ug/L	0.29	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Total Metals - ICPMS

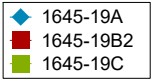
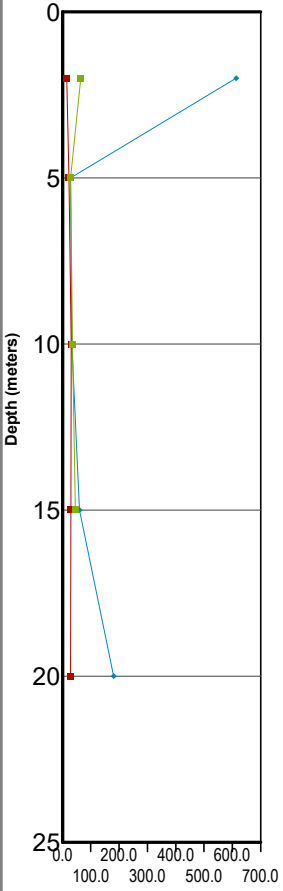
Table 4: Lac de Gras Effluent Mixing Zone

<b>RioTinto</b>	<b>March 2025</b>		<b>1645-19A-2</b>	<b>1645-19A-5</b>	<b>1645-19A-10</b>	<b>1645-19A-15</b>	<b>1645-19A-20</b>	<b>1645-19B2-2</b>	<b>1645-19B2-5</b>	<b>1645-19B2-10</b>	<b>1645-19B2-15</b>	<b>1645-19B2-20</b>	<b>1645-19C-2</b>	<b>1645-19C-5</b>	<b>1645-19C-10</b>	<b>1645-19C-15</b>
	<b>Sample Depth (metres below surface)</b>		<b>2</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>2</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>2</b>	<b>5</b>	<b>10</b>	<b>15</b>
	<b>LDG - Diffusor Stations</b>	<b>W.L. Criteria</b>	<b>Reported Units</b>	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25	12-Mar-25
Aluminum (Al) - Dissolved		ug/L	3.17	7.57	11.5	12.7	11.6	6.63	9.81	12.2	11.3	13.3	7.94	9.71	12.1	12.9
Antimony (Sb) - Dissolved		ug/L	0.032	0.049	0.068	0.082	0.075	0.044	0.054	0.081	0.080	0.078	0.051	0.054	0.073	0.079
Arsenic (As) - Dissolved		ug/L	0.257	0.287	0.292	0.343	0.306	0.286	0.309	0.283	0.315	0.319	0.300	0.316	0.312	0.313
Barium (Ba) - Dissolved		ug/L	4.50	6.02	8.63	9.19	9.15	5.30	7.41	8.66	9.50	9.39	6.08	6.19	9.31	9.63
Beryllium (Be) - Dissolved		ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth (Bi) - Dissolved		ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Boron (B) - Dissolved		ug/L	5.2	5.1	8.8	6.7	6.0	<5.0	<5.0	5.6	11.3	6.0	7.0	<5.0	5.8	6.3
Cadmium (Cd) - Dissolved		ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Calcium (Ca) - Dissolved		mg/L	2.77	3.71	4.93	5.45	5.33	3.29	4.49	5.32	5.26	5.40	3.76	3.81	5.30	5.45
Chromium (Cr) - Dissolved		ug/L	<0.050	<0.050	0.102	0.103	0.105	<0.050	0.063	0.105	0.108	0.105	0.053	0.053	0.114	0.126
Cobalt (Co) - Dissolved		ug/L	0.0741	0.0200	0.0153	0.0151	0.0145	0.0145	0.0119	0.0132	0.0158	0.0141	0.0120	0.0109	0.0120	0.0130
Copper (Cu) - Dissolved		ug/L	0.624	0.553	0.556	0.575	0.524	0.720	0.553	0.553	0.565	0.578	0.585	0.577	0.567	0.557
Iron (Fe) - Dissolved		ug/L	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead (Pb) - Dissolved		ug/L	0.0126	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Lithium (Li) - Dissolved		ug/L	2.04	2.81	2.98	3.40	3.17	2.74	2.96	3.28	3.24	3.11	2.81	2.78	3.21	3.23
Magnesium (Mg) - Dissolved		mg/L	1.65	1.74	1.96	2.12	2.06	1.66	1.89	2.08	2.01	2.09	1.75	1.73	2.03	2.09
Manganese (Mn) - Dissolved		ug/L	1.09	0.919	1.13	1.23	1.23	0.714	0.934	1.20	1.28	1.22	0.761	0.864	1.21	1.20
Mercury (Hg) - Dissolved		ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
Molybdenum (Mo) - Dissolved		ug/L	0.857	1.81	3.13	3.41	3.46	1.42	2.53	3.21	3.59	3.56	1.83	1.95	3.45	3.62
Nickel (Ni) - Dissolved		ug/L	2.38	1.06	1.08	1.12	1.03	1.07	0.945	1.06	1.05	1.06	0.952	0.926	1.03	1.08
Potassium (K) - Dissolved		mg/L	1.35	1.93	2.76	3.00	2.96	1.69	2.43	2.90	2.99	3.04	2.00	2.02	2.94	3.08
Selenium (Se) - Dissolved		ug/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Silicon (Si) - Dissolved		ug/L	75	165	286	328	327	115	231	314	303	335	160	168	318	337
Silver (Ag) - Dissolved		ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium (Na) - Dissolved		mg/L	4.26	5.77	7.72	8.76	8.50	5.27	6.91	8.39	8.27	8.66	5.71	5.80	8.36	8.63
Strontium (Sr) - Dissolved		ug/L	37.5	57.3	83.6	87.3	89.3	49.0	70.5	82.5	90.8	90.6	57.5	59.6	88.7	92.8
Sulphur (S) - Dissolved		mg/L	1.65	2.63	3.80	4.29	4.35	2.21	3.27	4.12	4.32	4.37	2.57	2.71	4.31	4.59
Thallium (Tl) - Dissolved		ug/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tin (Sn) - Dissolved		ug/L	0.036	0.012	<0.010	0.051	0.027	0.097	<0.010	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium (Ti) - Dissolved		ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U) - Dissolved		ug/L	0.0574	0.0957	0.125	0.133	0.143	0.0819	0.112	0.137	0.152	0.140	0.0977	0.0952	0.131	0.156
Vanadium (V) - Dissolved		ug/L	<0.050	<0.050	0.075	0.144	0.098	<0.050	0.054	0.104	0.102	0.114	<0.050	0.059	0.103	0.086
Zinc (Zn) - Dissolved		ug/L	2.22	0.51	0.31	0.41	0.32	0.95	0.29	0.19	0.14	0.71	0.44	0.62	0.18	0.21
Zirconium (Zr) - Dissolved		ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

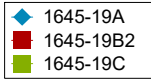
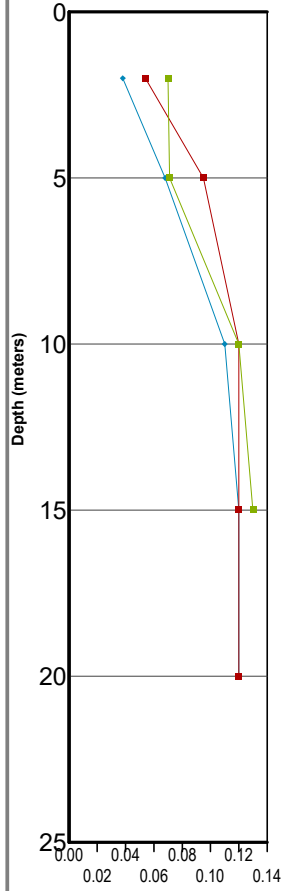
Dis. Metals - ICPMS

Table 4: Lac de Gras Effluent Mixing Zone

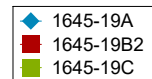
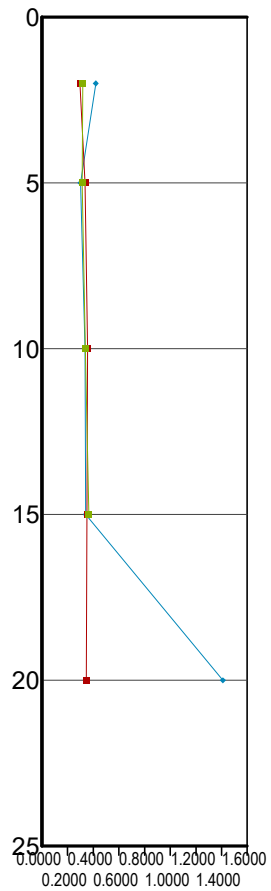
**1645-19  
Aluminum (Al) - Total  
Total Concentration  
(ug/L)**



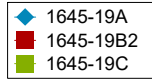
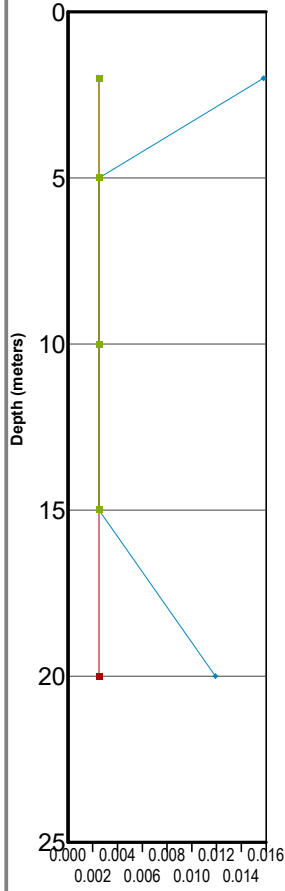
**1645-19  
Ammonia (N)  
Total Concentration  
(mg/L)**



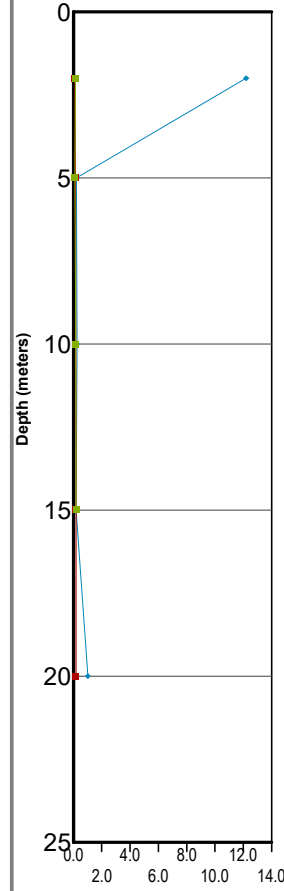
**1645-19  
Arsenic (As) - Total  
Total Concentration  
(ug/L)**



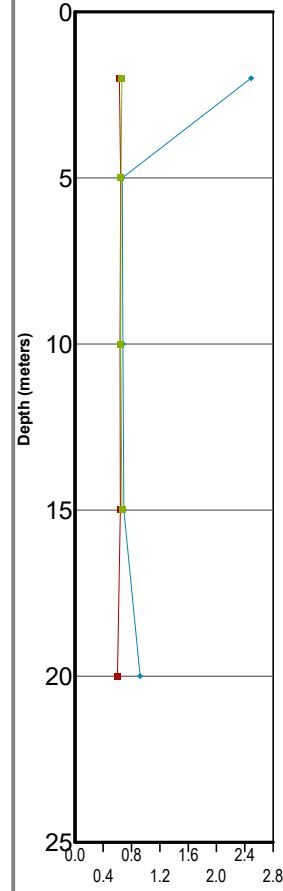
**1645-19  
Cadmium (Cd) - Total  
Total Concentration  
(ug/L)**



**1645-19  
Chromium (Cr) - Total  
Total Concentration  
(ug/L)**



**1645-19  
Copper (Cu) - Total  
Total Concentration  
(ug/L)**



**1645-19  
Lead (Pb) - Total  
Total Concentration  
(ug/L)**

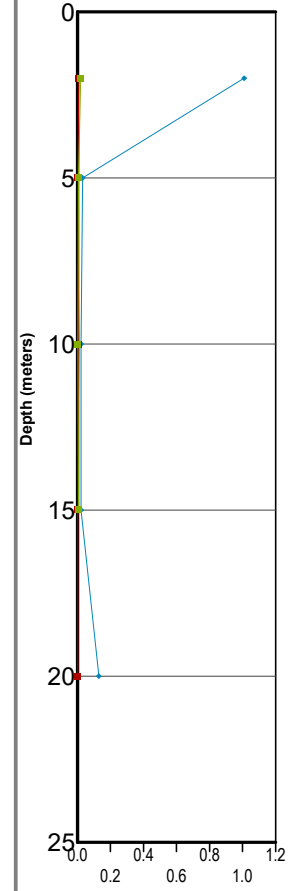
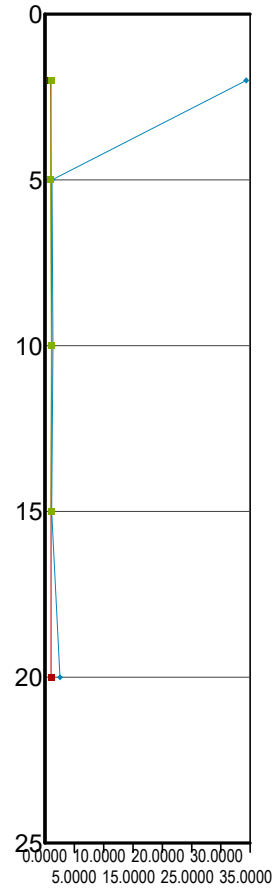


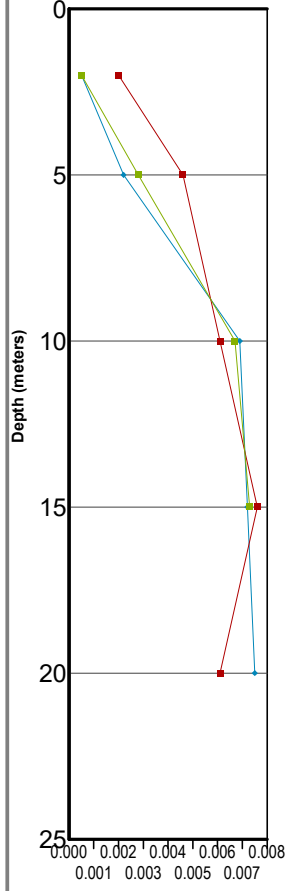
Table 4: Lac de Gras Effluent Mixing Zone

**1645-19  
Nickel (Ni) - Total  
Total Concentration  
(ug/L)**



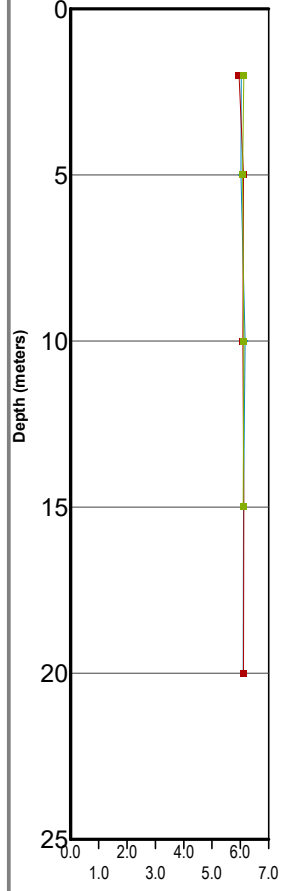
◆ 1645-19A  
■ 1645-19B2  
■ 1645-19C

**1645-19  
Nitrite (N)  
Total Concentration  
(mg/L)**



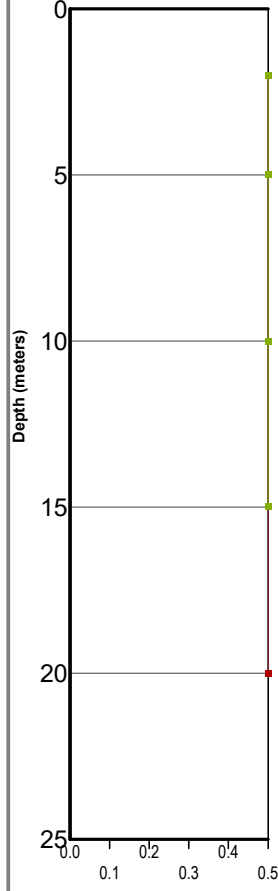
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■ 1645-19B2  
■ 1645-19C

**1645-19  
pH  
Total Concentration  
(pH)**



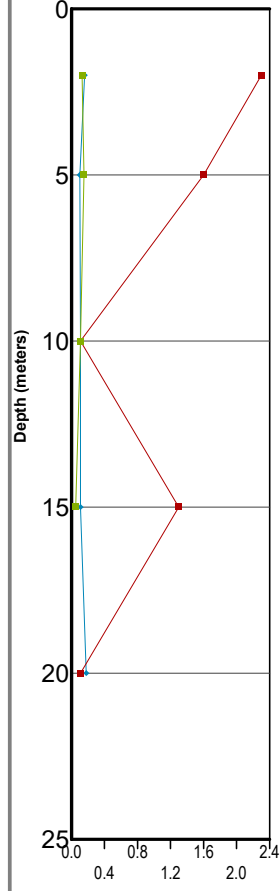
◆ 1645-19A  
■ 1645-19B2  
■ 1645-19C

**1645-19  
Total Suspended Solids (TSS)  
Total Concentration  
(mg/L)**



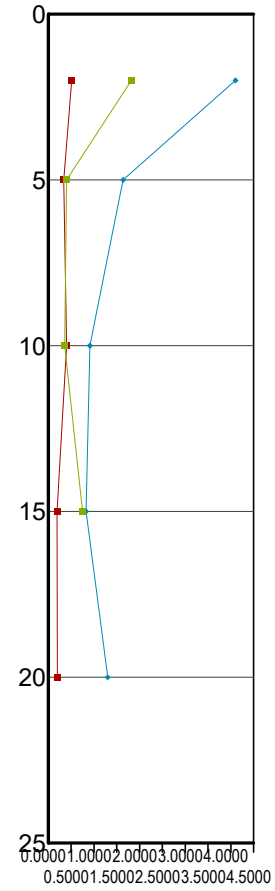
◆ 1645-19A  
■ 1645-19B2  
■ 1645-19C

**1645-19  
Turbidity  
Total Concentration  
(NTU)**



◆ 1645-19A  
■ 1645-19B2  
■ 1645-19C

**1645-19  
Zinc (Zn) - Total  
Total Concentration  
(ug/L)**



◆ 1645-19A  
■ 1645-19B2  
■ 1645-19C

Table 5: Lac de Gras Mixing Zone Bioprofile

<b>RioTinto</b>	<b>March 2025</b>						
	<b>HydroLab Bioprofile - LDG - Diffuser Stations</b>	<b>Depth Below Surface</b>	<b>pH</b>	<b>Dissolved Oxygen - Field</b>	<b>Turbidity</b>	<b>Conductivity</b>	<b>Temperature</b>
<b>Station ID</b>	<b>meters</b>	<b>pH</b>	<b>mg/L</b>	<b>NTU</b>	<b>us/cm</b>	<b>°C</b>	
1645-19A	20.0	6.63	13.92	0.9	83	0.4	
	18.0	6.63	13.96	0.47	82.8	0.4	
	16.0	6.6	13.98	0.45	82.4	0.4	
	14.0	6.58	13.99	0.46	81	0.4	
	12.0	6.56	13.98	0.48	79.2	0.4	
	10.0	6.53	13.98	0.45	76.9	0.3	
	8.0	6.45	13.88	0.46	70.8	0.3	
	6.0	6.34	13.84	0.48	61.8	0.4	
	4.0	6.22	14.31	0.5	47.1	0.4	
	2.0	6.18	14.94	0.54	43.5	0.2	
1645-19B2	20.0	6.69	13.92	0.55	83.5	0.4	
	18.0	6.68	13.92	0.57	82.7	0.4	
	16.0	6.64	13.93	0.56	81.4	0.4	
	14.0	6.61	13.96	0.56	79.7	0.4	
	12.0	6.57	14.04	0.56	79.7	0.4	
	10.0	6.5	14.1	0.58	79.1	0.3	
	8.0	6.39	14.09	0.58	76.5	0.3	
	6.0	6.23	14.01	0.59	64.7	0.3	
	4.0	6.06	14.17	0.62	48.1	0.3	
	2.0	6.14	14.32	0.63	41.1	0.2	
1645-19C	18.0	6.6	14.1	0.28	82.9	0.4	
	16.0	6.61	14.16	0.3	82.9	0.4	
	14.0	6.62	14.24	0.3	82.3	0.4	
	12.0	6.63	14.3	0.33	81.4	0.3	
	10.0	6.63	14.28	0.3	79.5	0.3	
	8.0	6.6	14.23	0.29	76	0.3	
	6.0	6.51	14.14	0.34	68	0.4	
	4.0	6.45	14.54	0.34	56.7	0.4	
	2.0	6.48	15.03	0.38	46.2	0.1	

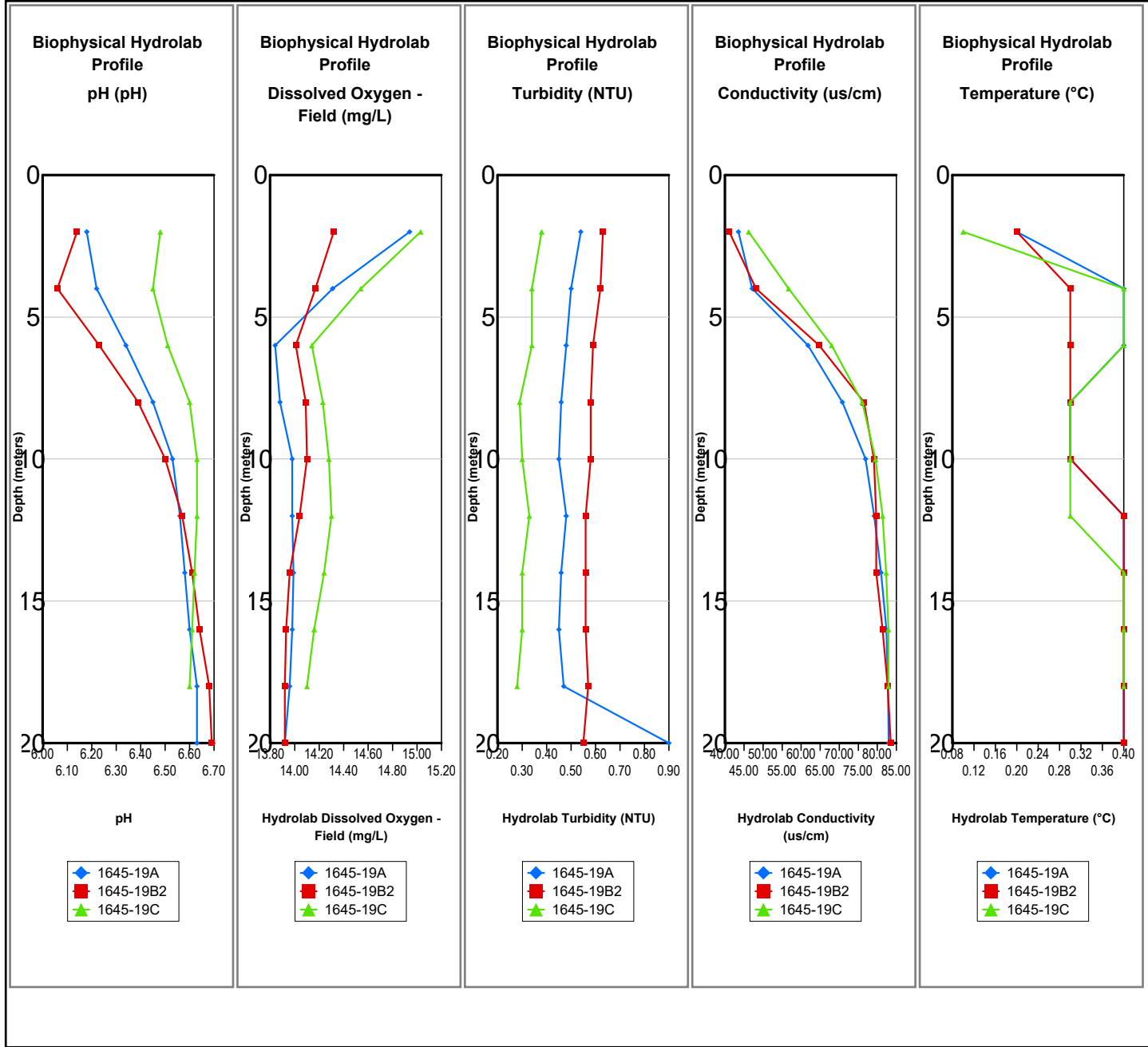


Table 6: Non Discharge SNP Stations

Rio Tinto	March 2025		1645-13					1645-44MZ	1645-51			1645-68MZ	1645-75		1645-75B		1645-77	1645-80	1645-85A Clarifier 1	1645-85B Clarifier 2	1645-86A Clarifier 3	1645-86B Clarifier 4
	Non-Discharge SNP Stations, incl. Collection Ponds	W.L Criteria	Reported Units	30-Mar-25	24-Mar-25	18-Mar-25	12-Mar-25	6-Mar-25	21-Mar-25	23-Mar-25	9-Mar-25	21-Mar-25	30-Mar-25	12-Mar-25	26-Mar-25	12-Mar-25	7-Mar-25	7-Mar-25	12-Mar-25	26-Mar-25	12-Mar-25	26-Mar-25
W2015L2-0001 Discharge Criteria	Aluminum (Al) - Total		ug/L	139	102	153	97.5	127	5.57	11300	3130	3.59	95500	58600	231	35.8	6.5	13.3				
	Ammonia (N)		mg/L	1.2	1.3	1.5	1.6	1.5	0.039	0.72	0.99	0.019	0.24	1.5	0.096	0.21	0.0064	<0.0050				
	Arsenic (As) - Total		ug/L	3.72	3.56	3.81	3.90	3.76	0.252	6.77	6.40	0.221	11.8	7.29	4.89	4.60	0.78	0.29				
	C6-C50 Hydrocarbons Calculated		mg/L	<0.26	<0.26	<0.26	<0.26	<0.26		0.53	0.97		4.3	3.6	0.30	<0.26			2.2	4.3	1.8	3.5
	Cadmium (Cd) - Total		ug/L	0.0057	0.0078	0.0051	0.0073	<0.0050	<0.0050	0.209	0.0762	<0.0050	0.414	0.425	0.0056	0.0239	0.142	0.699				
	Chromium (Cr) - Total		ug/L	3.00	2.14	2.88	2.81	2.97	0.080	81.4	22.1	0.057	751	738	1.20	0.249	<0.25	<0.25				
	Copper (Cu) - Total		ug/L	0.36	0.258	0.37	0.334	0.32	0.885	14.2	4.70	0.709	132	90.4	1.10	0.180	3.85	14.2				
	Lead (Pb) - Total		ug/L	0.065	0.0607	0.072	0.0648	0.059	<0.0050	6.13	2.38	0.0081	44.3	30.0	0.190	0.0148	0.030	0.145				
	Nickel (Ni) - Total		ug/L	5.93	6.87	7.91	6.31	5.52	1.05	271	62.8	1.40	1500	1600	4.91	20.0	21.5	81.2				
	Nitrite (N)		mg/L	0.21	0.20	0.21	0.20	0.18	<0.0010	0.099	0.035	<0.0010	0.50	0.50	0.013	0.026	0.0027	0.0022				
	pH		pH	9.38	9.18	8.83	9.22	9.32	6.01	7.31	6.51	6.20	9.58	9.05	6.41	6.53	6.46	6.17				
	Total Suspended Solids (TSS)		mg/L	<1.0	1.1	1.8	1.7	1.9	<1.0	940	2200	<1.0	4300	3200	9.7	1.3	<1.0	<1.0				
	Turbidity		NTU	3.2	4.3	3.8	2.5	3.8	<0.10	740	2000	0.12	>4000	3300	9.0	2.5	0.13	0.13				
Zinc (Zn) - Total		ug/L	<1.0	0.38	<1.0	0.45	<1.0	0.41	60.8	42.3	0.93	495	277	3.2	9.32	2.55	41.1					

W2015L2-0001 Discharge Criteria	Aluminum (Al) - Total		ug/L	70	15.6	14.3
	Ammonia (N)		mg/L	4.6	5.4	4.7
	Arsenic (As) - Total		ug/L	2.23	2.24	2.37
	C6-C50 Hydrocarbons Calculated		mg/L	<0.26	<0.26	<0.26
	Cadmium (Cd) - Total		ug/L	0.027	0.049	0.048
	Chromium (Cr) - Total		ug/L	2.58	<0.25	<0.25
	Copper (Cu) - Total		ug/L	<0.50	<0.25	0.33
	Lead (Pb) - Total		ug/L	<0.10	0.041	0.044
	Nickel (Ni) - Total		ug/L	5.62	3.06	2.76
	Nitrite (N)		mg/L	1.1	1.1	1.1
	pH		pH	9.16	9.63	9.32
	Total Suspended Solids (TSS)		mg/L	1.9	<0.97	1.9
	Turbidity		NTU	2.6	0.13	0.12
Zinc (Zn) - Total		ug/L	<5.0	<0.50	0.91	

1645-88		
31-Mar-25	17-Mar-25	3-Mar-25

Table 6: Non Discharge SNP Stations

Rio Tinto	March 2025		1645-13					1645-44MZ	1645-51			1645-68MZ	1645-75		1645-75B		1645-77	1645-80	1645-88		
	Non-Discharge SNP Stations, incl. Collection Ponds	W.L Criteria	Reported Units	30-Mar-25	24-Mar-25	18-Mar-25	12-Mar-25	6-Mar-25	21-Mar-25	23-Mar-25	9-Mar-25	21-Mar-25	30-Mar-25	12-Mar-25	26-Mar-25	12-Mar-25	7-Mar-25	7-Mar-25	31-Mar-25	17-Mar-25	3-Mar-25
Nutrients	Dissolved Organic Carbon (C)		mg/L		1.5												3.9	2.5	2.4	2.3	2.0
	Nitrate (N)		mg/L	5.5	5.6	5.9	6.0	5.9	0.23	2.3	0.81	0.069	5.8	8.2	0.68	0.88	21	33	16	15	14
	Nitrate plus Nitrite (N)		mg/L	5.7	5.8	6.1	6.2	6.0	0.23	2.4	0.85	0.069	6.3	8.7	0.69	0.91	21	33	17	17	16
	Nitrogen (N) - Total		mg/L	6.9	6.6	7.5	7.6	7.5	0.41	2.8	1.7	0.20	6.8	11	0.78	1.2	26	35	21	21	23
	Orthophosphate (PO4-P)		mg/L	0.19	0.20	0.19	0.18	0.18	<0.0010	0.21	0.27	<0.0010	0.060	0.17	0.39	0.34	0.013	0.0043	0.0021	0.0022	0.0017
	Phosphorus (P) - Dissolved (TDP)		mg/L	0.181	0.189	0.181	0.173	0.164	<0.0020	0.200	0.229	<0.0020	0.0557	0.159	0.365	0.294	0.0174	0.0023	0.0023	0.0030	<0.0020
	Phosphorus (P) - Total		mg/L	0.188	0.194	0.190	0.183	0.172	0.0023	0.740	0.956	0.0027	4.85	3.55	0.545	0.494	0.0116	<0.0020	0.0078	0.0080	<0.020
Total Organic Carbon (TOC)		mg/L		1.3												3.6	2.3	2.1	2.2	2.1	
Physical Properties	Acidity (pH 4.5)		mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Acidity (pH 8.3)		mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	4.5	<1.0	<1.0	3.5	<1.0	<1.0	2.5	2.7	2.5	29.5	<1.0	<1.0	<1.0
	Alkalinity (PP as CaCO3)		mg/L	45.7	45.2	9.10	40.6	58.2	<0.50	<0.50	<0.50	<0.50	56.9	15.5	<0.50	<0.50	<0.50	<0.50	11.3	18.3	26.1
	Alkalinity (Total as CaCO3) - Total		mg/L	65.7	65.8	72.7	71.1	75.3	7.96	68.6	49.3	6.69	66.9	112	41.1	45.2	84.8	43.2	31.6	34.4	46.1
	Hardness (as CaCO3) - Dissolved		mg/L		158				13.4	81.3	94.5	11.3	131	145	124	146	754	575	178	186	179
	Hardness (as CaCO3) - Total		mg/L	168	159	172	168	164	13.5	297	88.9	11.1	1810	1480	126	152	645	502	184	177	177
Total Dissolved Solids (TDS)		mg/L	470	470	480	475	484	32.8	302	206	28.0	394	406	372	446	2090	1460	899	909	914	



Table 6: Non Discharge SNP Stations

Rio Tinto	March 2025		1645-13					1645-44MZ	1645-51			1645-68MZ	1645-75		1645-75B		1645-77	1645-80	1645-88		
	Non-Discharge SNP Stations, incl. Collection Ponds	W.L Criteria	Reported Units	30-Mar-25	24-Mar-25	18-Mar-25	12-Mar-25	6-Mar-25	21-Mar-25	23-Mar-25	9-Mar-25	21-Mar-25	30-Mar-25	12-Mar-25	26-Mar-25	12-Mar-25	7-Mar-25	7-Mar-25	31-Mar-25	17-Mar-25	3-Mar-25
Total Metals by CRC-ICPMS	Antimony (Sb) - Total		ug/L	0.954	1.04	1.04	1.05	1.09	0.043	0.371	0.124	0.091	1.71	0.56	0.726	0.047	0.78	0.35	4.41	4.56	4.25
	Barium (Ba) - Total		ug/L	107	111	116	119	112	3.81	439	129	2.42	2240	2200	100	123	17.2	21.9	136	141	103
	Beryllium (Be) - Total		ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.445	0.142	<0.010	2.44	1.56	0.012	<0.010	<0.050	0.063	<0.050	<0.050	<0.050
	Bismuth (Bi) - Total		ug/L	<0.010	<0.0050	<0.010	<0.0050	<0.010	<0.0050	0.124	0.050	<0.0050	1.51	0.984	<0.010	<0.0050	<0.025	<0.025	<0.050	<0.025	<0.025
	Boron (B) - Total		ug/L	49	49.9	54	52.8	45	5.2	56	28	6.3	128	139	22	23.4	27	26	98	96	101
	Calcium (Ca) - Total		mg/L	50.0	47.6	51.0	50.4	49.8	2.64	32.2	11.5	2.21	297	140	34.5	42.7	63.3	46.5	49.3	53.4	53.8
	Cobalt (Co) - Total		ug/L	0.189	0.194	0.260	0.201	0.202	0.0211	19.2	4.69	0.0405	124	114	0.415	1.45	1.70	16.3	0.314	0.174	0.182
	Iron (Fe) - Total		ug/L	120	73.2	128	93.5	122	11.3	15900	4950	11.8	150000	117000	689	424	21.0	196	162	41.3	36.9
	Lithium (Li) - Total		ug/L	12.5	12.0	12.7	11.9	11.3	2.41	38.0	17.4	2.16	414	256	14.0	14.4	8.0	24.1	2.5	<2.5	<2.5
	Magnesium (Mg) - Total		mg/L	10.5	9.80	10.9	10.3	9.70	1.67	52.5	14.6	1.35	259	276	9.68	11.0	118	93.6	14.7	10.5	10.3
	Manganese (Mn) - Total		ug/L	14.8	16.2	16.5	14.0	13.6	4.42	472	136	20.1	2650	1880	85.3	92.3	131	771	3.53	1.58	1.59
	Mercury (Hg) - Total		ug/L	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019			<0.0019					<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
	Molybdenum (Mo) - Total		ug/L	46.7	52.7	55.6	56.8	57.3	0.287	11.6	4.58	0.149	60.6	54.3	13.3	20.6	379	204	173	185	184
	Potassium (K) - Total		mg/L	28.7	27.7	30.8	32.5	30.6	1.33	6.00	3.18	1.09	73.6	51.1	3.03	6.71	220	145	124	128	128
	Selenium (Se) - Total		ug/L	0.145	0.144	0.181	0.164	0.175	<0.040	0.551	0.198	0.061	0.95	0.77	<0.040	<0.040	0.41	0.31	0.49	0.65	0.61
	Silicon (Si) - Total		ug/L	6670	6430	6440	6430	6520	271	42500	20900	201	116000	99500	5550	5770	1850	3070	2180	1810	2070
	Silver (Ag) - Total		ug/L	<0.010	<0.0050	<0.010	<0.0050	<0.010	<0.0050	0.048	0.027	<0.0050	0.449	0.342	<0.010	<0.0050	<0.025	<0.025	<0.050	<0.025	<0.025
	Sodium (Na) - Total		mg/L	77.3	77.2	82.8	76.8	82.3	2.86	23.0	10.1	2.33	57.3	69.6	71.6	88.3	211	142	125	129	141
	Strontium (Sr) - Total		ug/L	900	873	966	1060	1000	27.2	361	127	22.5	1660	1760	1050	1510	2140	1460	949	1140	1120
	Sulphur (S) - Total		mg/L	37.6	37.8	39.4	41.3	40.4	2.12	8.60	5.74	1.68	30.2	20.9	8.18	14.9	362	243	135	140	145
	Thallium (Tl) - Total		ug/L	0.0062	0.0078	0.0073	0.0083	0.0020	<0.0020	0.106	0.0391	<0.0020	0.899	0.613	0.0023	0.0089	0.044	0.089	<0.010	<0.010	<0.010
	Tin (Sn) - Total		ug/L	<0.20	<0.010	<0.20	<0.010	<0.20	0.015	0.52	0.23	0.035	11.7	4.3	<0.20	<0.010	<0.050	<0.050	<1.0	<0.050	<0.050
	Titanium (Ti) - Total		ug/L	5.0	2.41	5.3	2.91	5.3	<0.50	605	183	<0.50	9490	6010	17.4	1.08	<2.5	<2.5	<10	2.6	<2.5
	Uranium (U) - Total		ug/L	2.08	2.16	2.29	2.05	2.01	0.0898	7.17	2.07	0.0922	26.6	15.6	0.411	0.716	41.3	24.1	0.091	0.074	0.089
	Vanadium (V) - Total		ug/L	3.37	2.76	3.29	3.20	3.10	<0.050	33.3	10.5	<0.050	263	180	0.54	0.123	0.46	<0.25	2.2	1.97	2.71
Zirconium (Zr) - Total		ug/L	0.26	0.056	0.16	0.089	<0.10	<0.050	4.04	0.73	<0.050	39.5	11.4	0.27	0.219	<0.25	<0.25	<0.50	0.37	<0.25	

Table 6: Non Discharge SNP Stations

Rio Tinto	March 2025			1645-13		1645-44MZ		1645-51		1645-68MZ		1645-75		1645-75B		1645-77		1645-80		1645-88	
	Non-Discharge SNP Stations, incl. Collection Ponds	W.L Criteria	Reported Units	24-Mar-25	21-Mar-25	23-Mar-25	9-Mar-25	21-Mar-25	30-Mar-25	12-Mar-25	26-Mar-25	12-Mar-25	7-Mar-25	7-Mar-25	31-Mar-25	17-Mar-25	3-Mar-25				
Aluminum (Al) - Dissolved		ug/L	46.2	3.27	3.07	19.9	2.37	23.7	5.59	6.46	5.69	4.7	1.9	1.0	1.0	1.2					
Antimony (Sb) - Dissolved		ug/L	1.04	<0.020	0.260	0.364	<0.020	1.87	0.726	0.041	0.061	0.78	0.25	4.59	4.73	4.27					
Arsenic (As) - Dissolved		ug/L	3.56	0.228	4.07	4.58	0.224	3.24	3.09	4.44	4.20	0.86	0.28	2.08	2.24	2.26					
Barium (Ba) - Dissolved		ug/L	108	3.73	96.4	154	2.40	81.3	108	102	101	17.2	23.1	138	136	106					
Beryllium (Be) - Dissolved		ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050					
Bismuth (Bi) - Dissolved		ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.025	<0.025	<0.025	<0.025					
Boron (B) - Dissolved		ug/L	48.2	<5.0	43.3	55.5	<5.0	48.9	109	22.4	24.8	<25	25	102	94	107					
Cadmium (Cd) - Dissolved		ug/L	<0.0050	<0.0050	0.0055	<0.0050	<0.0050	0.0076	0.0057	<0.0050	0.0155	0.104	0.786	<0.025	<0.025	<0.025					
Calcium (Ca) - Dissolved		mg/L	47.4	2.60	18.7	21.4	2.23	46.3	39.4	35.0	39.9	66.7	50.6	48.5	55.8	55.4					
Chromium (Cr) - Dissolved		ug/L	1.89	<0.050	0.575	<0.050	<0.050	17.0	1.93	<0.050	<0.050	<0.25	<0.25	<0.25	<0.25	<0.25					
Cobalt (Co) - Dissolved		ug/L	0.115	0.0136	0.0948	0.176	0.0176	0.0638	0.0971	0.227	1.39	1.77	16.7	0.109	0.114	0.117					
Copper (Cu) - Dissolved		ug/L	0.237	0.825	0.230	0.272	0.656	0.443	0.315	0.283	0.158	3.77	13.1	<0.25	<0.25	<0.25					
Iron (Fe) - Dissolved		ug/L	1.9	3.2	<1.0	<1.0	2.7	3.3	<1.0	1.2	4.9	<5.0	<5.0	<5.0	<5.0	<5.0					
Lead (Pb) - Dissolved		ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.025	<0.025	<0.025	0.027					
Lithium (Li) - Dissolved		ug/L	11.8	2.41	11.1	11.8	2.33	18.2	18.9	12.6	15.7	7.8	24.4	<2.5	<2.5	<2.5					
Magnesium (Mg) - Dissolved		mg/L	9.53	1.67	8.39	9.97	1.40	3.79	11.4	8.96	11.3	143	109	13.7	11.5	9.76					
Manganese (Mn) - Dissolved		ug/L	13.5	2.61	31.3	27.8	14.3	0.058	0.539	78.7	89.6	138	818	0.37	<0.25	0.37					
Mercury (Hg) - Dissolved		ug/L	<0.0019	<0.0019			<0.0019					<0.0019	<0.0019	<0.0019	<0.0019	<0.0019					
Molybdenum (Mo) - Dissolved		ug/L	52.2	0.262	10.8	8.72	0.176	60.9	43.5	15.4	17.2	356	204	187	191	192					
Nickel (Ni) - Dissolved		ug/L	5.83	1.02	6.83	10.3	1.41	1.55	5.32	3.34	19.2	22.1	81.1	2.32	2.33	2.04					
Potassium (K) - Dissolved		mg/L	28.8	1.31	2.71	2.95	1.11	20.6	16.4	2.96	6.47	226	153	125	133	129					
Selenium (Se) - Dissolved		ug/L	0.144	<0.040	0.054	0.045	<0.040	0.280	0.136	<0.040	<0.040	0.34	0.25	0.49	0.51	0.49					
Silicon (Si) - Dissolved		ug/L	6250	264	6960	6160	198	11100	7220	5380	5470	2050	3740	1750	2140	2140					
Silver (Ag) - Dissolved		ug/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.025	<0.025	<0.025	<0.025					
Sodium (Na) - Dissolved		mg/L	77.1	2.83	20.5	21.8	2.41	49.6	68.1	68.6	96.5	220	144	120	139	135					
Strontium (Sr) - Dissolved		ug/L	896	27.7	211	239	23.0	563	752	1260	1330	2080	1560	1030	1130	1150					
Sulphur (S) - Dissolved		mg/L	37.4	2.09	6.39	7.94	1.79	30.5	19.9	8.61	14.2	390	253	136	148	146					
Thallium (Tl) - Dissolved		ug/L	0.0071	<0.0020	0.0090	0.0182	<0.0020	0.0070	0.0118	<0.0020	0.0092	0.035	0.084	<0.010	<0.010	<0.010					
Tin (Sn) - Dissolved		ug/L	<0.010	0.018	<0.010	<0.010	0.044	<0.010	<0.010	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050					
Titanium (Ti) - Dissolved		ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<2.5	<2.5	<2.5	<2.5					
Uranium (U) - Dissolved		ug/L	2.14	0.0737	3.07	4.20	0.0735	0.491	0.657	0.301	0.588	44.3	26.1	0.067	0.035	0.075					
Vanadium (V) - Dissolved		ug/L	2.71	<0.050	1.63	2.78	<0.050	12.1	2.40	0.070	<0.050	0.68	<0.25	2.01	2.23	2.35					
Zinc (Zn) - Dissolved		ug/L	0.10	0.52	<0.10	<0.10	0.90	<0.10	<0.10	0.60	6.36	2.74	42.2	<0.50	<0.50	<0.50					
Zirconium (Zr) - Dissolved		ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.25	<0.25	<0.25	<0.25	<0.25					

Dissolved Metals by CRC-ICPMS

Table 6: Non Discharge SNP Stations

RioTinto	March 2025		1645-13					1645-44MZ	1645-51			1645-68MZ	1645-75		1645-75B		1645-77	1645-80	1645-85A Clarifier 1	1645-85B Clarifier 2	1645-86A Clarifier 3	1645-86B Clarifier 4
	Non-Discharge SNP Stations, incl. Collection Ponds	W.L Criteria	Reported Units	30-Mar-25	24-Mar-25	18-Mar-25	12-Mar-25	6-Mar-25	21-Mar-25	23-Mar-25	9-Mar-25	21-Mar-25	30-Mar-25	12-Mar-25	26-Mar-25	12-Mar-25	7-Mar-25	7-Mar-25	12-Mar-25	26-Mar-25	12-Mar-25	26-Mar-25
Anions	Bicarbonate (HCO3)		mg/L	<0.50	<0.50	66.4	<0.50	<0.50	9.71	83.7	60.2	8.17	<0.50	98.8	50.1	55.1	104	52.6				
	Carbonate (CO3)		mg/L	24.1	24.7	10.9	36.7	20.5	<0.50	<0.50	<0.50	<0.50	12.1	18.6	<0.50	<0.50	<0.50	<0.50				
	Chloride (Cl) - Dissolved		mg/L	120	130	120	130	130	3.5	58	20	2.9	72	91	170	200	150	120				
	Fluoride (F)		mg/L	0.207	0.197	0.181	0.175	0.203	0.027	0.240	0.188	0.027	0.211	0.182	0.102	0.109	0.070	0.052				
	Hydroxide (OH)		mg/L	8.71	8.38	<0.50	3.40	14.0	<0.50	<0.50	<0.50	<0.50	15.9	<0.50	<0.50	<0.50	<0.50	<0.50				
	Sulphate (SO4) - Dissolved		mg/L	120	110	110	130	120	5.3	23	21	5.0	93	63	29	49	1100	800				
CCME Hydrocarbons	Benzene		ug/L	<0.40	<0.40	<0.40	<0.40	<0.40		<0.40	<0.40		<0.40	<0.50	<0.40	<0.40			<0.40	<0.40	<0.40	<0.40
	Ethylbenzene		ug/L	<0.40	<0.40	<0.40	<0.40	<0.40		<0.40	<0.40		<0.40	<0.40	<0.40	<0.40			<0.40	<0.40	<0.40	<0.40
	F1 (C6-C10 Hydrocarbons)		ug/L	<100	<100	<100	<100	<100		<100	<100		<100	<100	<100	<100			<100	<100	<100	<100
	F1 (C6-C10) - BTEX		ug/L	<100	<100	<100	<100	<100		<100	<100		<100	<100	<100	<100			<100	<100	<100	<100
	F2 (C10-C16 Hydrocarbons)		mg/L	<0.10	<0.10	<0.10	<0.10	<0.10		<0.10	<0.10		0.38	0.34	<0.10	<0.10			0.14	0.19	0.13	0.19
	F3 (C16-C34 Hydrocarbons)		mg/L	<0.10	<0.10	<0.10	<0.10	<0.10		0.53	0.97		3.4	2.9	0.30	<0.10			1.8	3.7	1.6	3.0
	F4 (C34-C50 Hydrocarbons)		mg/L	<0.20	<0.20	<0.20	<0.20	<0.20		<0.20	<0.20		0.44	0.45	<0.20	<0.20			0.22	0.38	<0.20	0.32
	Toluene		ug/L	<0.40	<0.40	<0.40	<0.40	<0.40		<0.40	<0.40		<0.40	<0.40	<0.40	<0.40			<0.40	<0.40	<0.40	<0.40
	Xylenes (Total)		ug/L	<0.57	<0.57	<0.57	<0.57	<0.57		<0.57	<0.57		<0.57	<0.57	<0.57	<0.57			<0.57	<0.57	<0.57	<0.57
Monitoring	pH		pH	9.38	9.18	8.83	9.22	9.32	6.01	7.31	6.51	6.20	9.58	9.05	6.41	6.53	6.46	6.17				
	Turbidity		NTU	3.2	4.3	3.8	2.5	3.8	<0.10	740	2000	0.12	>4000	3300	9.0	2.5	0.13	0.13				

				1645-88		
				31-Mar-25	17-Mar-25	3-Mar-25
<b>Anions</b>	Bicarbonate (HCO3)		mg/L	11.0	<0.50	<0.50
	Carbonate (CO3)		mg/L	13.6	19.4	24.0
	Chloride (Cl) - Dissolved		mg/L	98	100	99
	Fluoride (F)		mg/L	0.243	0.225	0.248
	Hydroxide (OH)		mg/L	<0.50	0.72	2.08
	Sulphate (SO4) - Dissolved		mg/L	390	420	430
<b>CCME Hydrocarbons</b>	Benzene		ug/L	<0.40	<0.40	<0.40
	Ethylbenzene		ug/L	<0.40	<0.40	<0.40
	F1 (C6-C10 Hydrocarbons)		ug/L	<100	<100	<100
	F1 (C6-C10) - BTEX		ug/L	<100	<100	<100
	F2 (C10-C16 Hydrocarbons)		mg/L	<0.10	<0.10	<0.10
	F3 (C16-C34 Hydrocarbons)		mg/L	<0.10	<0.10	<0.10
	F4 (C34-C50 Hydrocarbons)		mg/L	<0.20	<0.20	<0.20
	Toluene		ug/L	<0.40	<0.40	<0.40
Xylenes (Total)		ug/L	<0.57	<0.57	<0.57	
<b>Moni torin</b>	pH		pH	9.16	9.63	9.32
	Turbidity		NTU	2.6	0.13	0.12

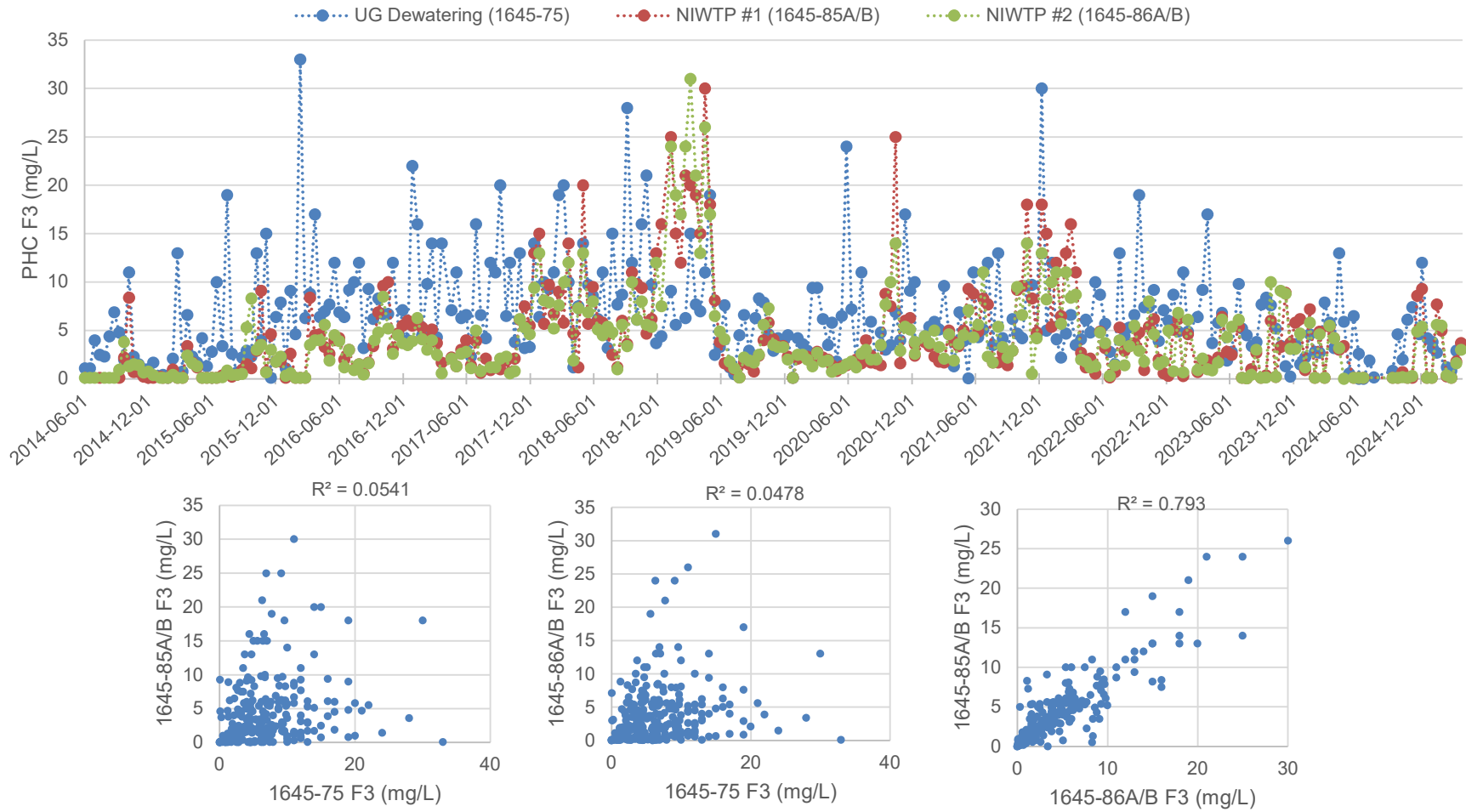
**Table 7: Spill Summary**

**March, 2025**

**RioTinto**

Enablon Incident Number	Spill Date	DDMI Dept. / Contractor	Material /Product Spilled	Spill Volume (L)	Area of Spill (m <sup>2</sup> )	Internal or Gov't Record	Equipment Type	Equipment Number	Incident Description	Spill Location Designation	Spill Location (Specific)	Easting	Northing
<b>Surface Spills</b>													
3671413170_72103	2025-03-13	DDMI - Infrs - Proj - Pow - Projects	Oil - Engine	15	4	Internal	Drills	Sonic Drill	Engine oil vent line froze up causing oil to leak out.	PKC	PKC zone 2	533215	7151996
3181072448_71446	2025-03-17	DDMI - Process Operations - Process Plant	Processed Kimberlite	1440	10	External	Pipelines	311	Leak reported on PKMW 311 line downstream of the valve shack before it enters into 418 pit. Feed was isolated to the line at the process plant and flushed prior to being shutdown for repairs.	Pit A418	Pig Catcher shack at top of A418 pit	536508	7151998
3694045215_72144	2025-03-24	DDMI - Infrs - Proj - Pow - Site Services	Oil - Engine	5	1000	Internal	Other Misc	411	While being marshaled back to WR dispatch, the supervisor noticed a small trail of oil on the road. The truck was stopped and a pail put under the drip.	Roads General	South Haul road	534052	7151438
4116490819_72837	2025-03-29	DDMI - Maintenance - Truck Shop	Oil - Other	20	4	Internal	Service Vehicle	531	Coolant fitting started to leak during refill	Roads General	N1 Laydown	535660	7152457
<b>UG Spills</b>													
	2025-03-02	DDMI Underground	Oil - Hydraulic	60		Internal	DRU	301	Hyd oil spill, cleaned with spill pads	D8875-140	work area		

**Figure 2. PHC F3 Concentrations in UG Dewatering and NIWTP Clarifiers**



**Table 8: 2025 Raw Water Usage - W2015L2-0001**  
**Part D, Item 2B**

**RioTinto**

<b>Month</b>	<b>Potable Water (m<sup>3</sup>)</b>	<b>Drills / Others (m<sup>3</sup>)</b>	<b>Process Plant (m<sup>3</sup>)</b>	<b>Site Dust Management (m<sup>3</sup>)</b>	<b>TOTAL (m<sup>3</sup>)</b>
January	6,249	137	79,479	-	<b>85,865</b>
February	5,847	14	66,047	-	<b>71,908</b>
March	6,380	36	69,050	-	<b>75,466</b>
April					
May					
June					
July					
August					
September					
October					
November					
December					
<b>TOTAL (m<sup>3</sup>)</b>	<b>18,476</b>	<b>186</b>	<b>214,577</b>	<b>-</b>	<b>233,239</b>
<p><b>WATER LICENCE ALLOWED ANNUAL RAW WATER USAGE (m3) = 1,280,000</b></p> <p><b>RAW WATER RESIDUAL (m3) = 1,046,761</b></p> <p><b>PERCENTAGE RESIDUAL = 82%</b></p>					

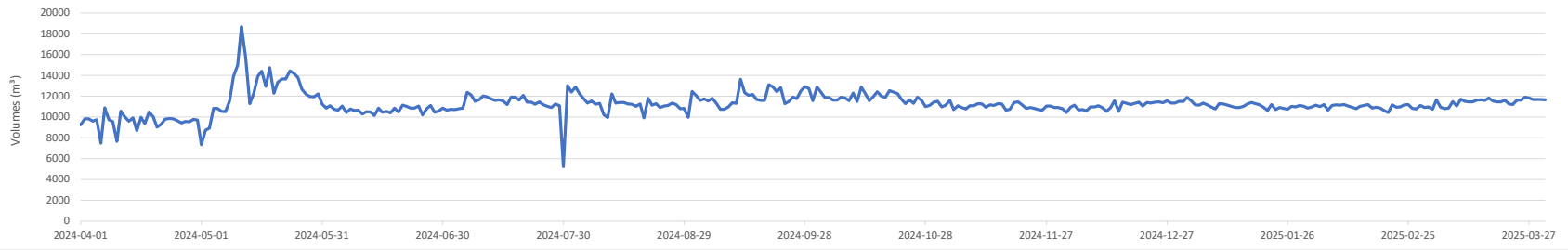
Table 9: DDMI Field QC results

	March, 2025			RPD Acceptance Threshold		40%							Equip Blank - BV DG1659	
	WL2015L2-0001 Field Sample Quality Control			Detection Limit Multiplier			5							
		W.L. Criteria (in reported units)	Method Detection Limit	Reported Units	1645-18B - BV DG426/DG1427			Relative Percent Difference	1645-19A-10 - BV DG1637/DG1661		Relative Percent Difference	1645-75B - BV DHH762/DHH765		Relative Percent Difference
					DUPW1	DUPW2	DUPW1		DUPW2	DUPW1		DUPW2		
W2015L2-0001 Discharge Criteria	Aluminum (Al) - Total	3000.0	0.2	ug/L	540	561	4%	33	28	18%	231.00	264.00	13%	0.67
	Ammonia (N)	12.00	0.005	mg/L	-	-	-	0.11	0.11	0%	0.096	0.096	0%	<0.0050
	Arsenic (As) - Total	100.0	0.02	mg/L	1.610	1.600	1%	0.337	0.351	4%	4.890	5.060	3%	<0.020
	Biochemical Oxygen Demand	25	2	mg/L	-	-	-	-	-	-	-	-	-	-
	Cadmium (Cd) - Total	3.0	0.005	ug/L	0.0068	0.0077	NC	<0.0050	<0.0050	NC	0.0056	<0.0050	NC	<0.0050
	Chromium (Cr) - Total	40.0	0.05	ug/L	2.24	2.28	2%	0.249	0.211	NC	1.2	1.32	10%	<0.050
	Copper (Cu) - Total	40.0	0.05	ug/L	0.214	0.22	NC	0.678	0.642	5%	1.1	1.11	1%	<0.050
	Faecal Coliform	20	1	CFU/100mL	-	-	-	-	-	-	-	-	-	-
	Lead (Pb) - Total	20.0	0.005	ug/L	<0.0050	<0.0050	NC	0.02	0.012	NC	0.19	0.225	17%	<0.0050
	Nickel (Ni) - Total	100.0	0.02	ug/L	4.61	4.57	1%	1.35	1.15	16%	4.91	5.28	7%	<0.020
	Nitrite (N) - Total	2.00	0.002	mg/L	-	-	-	-	-	-	-	-	-	-
	pH	6.0 - 8.4	-	pH	6.52	6.65	2%	6.17	5.87	5%	6.41	6.6	3%	5.20
	C6-C50 Hydrocarbons Calculated	5	0.44	mg/L	<0.26	<0.26	NC	-	-	-	0.3	0.32	NC	-
	Total Suspended Solids (TSS)	25	1	mg/L	1.9	2.6	NC	<1.0	<1.0	NC	9.7	9.7	0%	<1.0
Turbidity	15.00	0.1	NTU	<0.10	<0.10	NC	0.11	0.13	NC	9	7.5	18%	<0.10	
Zinc (Zn) - Total	20.0	0.10	ug/L	<0.10	<0.10	NC	0.91	0.63	36%	3.2	3	6%	0.240	
Anions	Bicarbonate (HCO3)	-	0.5	mg/L	53.4	53.2	0%	13.8	13.1	5%	50.1	50.5	1%	<0.50
	Carbonate (CO3)	-	0.5	mg/L	<0.50	<0.50	NC	<0.50	<0.50	NC	<0.50	<0.50	NC	<0.50
	Chloride (Cl) - Dissolved	-	0.5	mg/L	130	130	0%	12	12	0%	170	170	0%	<0.50
	Fluoride (F)	-	0.01	mg/L	0.141	0.143	1%	0.041	0.034	NC	0.102	0.104	2%	<0.010
	Hydroxide (OH)	-	0.5	mg/L	<0.50	<0.50	NC	<0.50	<0.50	NC	<0.50	<0.50	NC	<0.50
	Sulphate (SO4) - Dissolved	-	0.5	mg/L	150	150	0%	13	12	8%	29	26	11%	<0.50
Nutrients	Dissolved Organic Carbon (C)	-	0.2	mg/L	-	-	-	2.1	2.1	0%	-	-	-	<0.20
	Nitrate (N)	-	0.002	mg/L	6	6	0%	0.34	0.34	0%	0.68	0.63	8%	0.003
	Nitrate plus Nitrite (N)	-	0.002	mg/L	6.1	6.2	2%	0.34	0.34	0%	0.69	0.64	8%	0.003
	Nitrogen (N) - Total	-	0.020	mg/L	7.6	7.5	1%	0.63	0.59	7%	0.78	0.77	1%	<0.020
	Orthophosphate (PO4-P)	-	0.001	mg/L	0.0068	0.0071	4%	<0.0010	<0.0010	NC	0.39	0.39	0%	<0.0010
	Phosphorus (P) - Dissolved (TDP)	-	0.002	mg/L	0.0054	0.0056	NC	<0.0020	<0.0020	NC	0.365	0.367	1%	<0.0020
	Phosphorus (P) - Total	-	0.002	mg/L	0.0177	0.0217	20%	0.0033	0.0027	NC	0.545	0.573	5%	<0.0020
	Total Kjeldahl Nitrogen (TKN) - (Calc)	-	0.02	mg/L	1.5	1.4	7%	0.28	0.25	11%	0.09	0.13	NC	<0.020
Total Organic Carbon (TOC)	-	0.2	mg/L	-	-	-	2	2	0%	-	-	-	<0.50	
Physical Properties	Conductivity - DDMI Field	-	0.1	ms/cm2	-	-	-	-	-	-	-	-	-	
	Temperature of Water - DDMI Field	-	0.1	°C	-	-	-	-	-	-	-	-	-	
	Acidity (pH 4.5)	-	0.5	mg/L	<1.0	<1.0	NC	<1.0	<1.0	NC	<1.0	<1.0	NC	<1.0
	Acidity (pH 8.3)	-	0.5	mg/L	1.8	2	NC	1.7	2.2	NC	2.5	2.2	NC	<1.0
	Alkalinity (PP as CaCO3)	-	0.5	mg/L	<0.50	<0.50	NC	<0.50	<0.50	NC	<0.50	<0.50	NC	<0.50
	Alkalinity (Total as CaCO3) - Total	-	0.5	mg/L	43.7	43.6	0%	11.3	10.8	5%	41.1	41.4	1%	<0.50
	Hardness (as CaCO3) - Dissolved	-	0.5	mg/L	-	-	-	20.4	20	2%	124	126	2%	<0.50
	Hardness (as CaCO3) - Total	-	0.5	mg/L	170	168	1%	21	20.6	2%	126	133	5%	<0.50
	Total - Dissolved Oxygen	-	0.1	mg/L	-	-	-	-	-	-	-	-	-	-
	Total Dissolved Solids (TDS)	-	10	mg/L	488	492	1%	50.4	49.6	NC	372	367	1%	<1.0
CCME Hydrocarbons	Benzene	-	0.4	ug/L	<0.40	<0.40	NC	-	-	-	<0.40	<0.40	NC	-
	Ethylbenzene	-	0.4	ug/L	<0.40	<0.40	NC	-	-	-	<0.40	<0.40	NC	-
	F1 (C6-C10 Hydrocarbons)	-	300.0	ug/L	<100	<100	NC	-	-	-	<100	<100	NC	-
	F1 (C6-C10) - BTEX	-	300.0	ug/L	<100	<100	NC	-	-	-	<100	<100	NC	-
	F2 (C10-C16 Hydrocarbons)	-	0.15	mg/L	<0.10	<0.10	NC	-	-	-	<0.10	<0.10	NC	-
	F3 (C16-C34 Hydrocarbons)	-	0.2	mg/L	<0.10	<0.10	NC	-	-	-	0.3	0.32	NC	-
	F4 (C34-C50 Hydrocarbons)	-	0.2	mg/L	<0.20	<0.20	NC	-	-	-	<0.20	<0.20	NC	-
	Toluene	-	0.4	ug/L	<0.40	<0.40	NC	-	-	-	<0.40	<0.40	NC	-
Xylenes (Total)	-	0.4	ug/L	<0.57	<0.57	NC	-	-	-	<0.57	<0.57	NC	-	
Total Metals by CRC-ICPMS	Antimony (Sb) - Total	-	0.02	ug/L	1.02	1.04	2%	0.061	0.07	NC	0.726	0.062	NC	<0.020
	Barium (Ba) - Total	-	0.02	ug/L	105	105	0%	9.46	9.06	4%	100	105	5%	0.087
	Beryllium (Be) - Total	-	0.01	ug/L	<0.010	<0.010	NC	<0.010	<0.010	NC	0.012	0.011	NC	<0.010
	Bismuth (Bi) - Total	-	0.005	ug/L	<0.0050	<0.0050	NC	<0.0050	<0.0050	NC	<0.010	<0.010	NC	<0.0050
	Boron (B) - Total	-	5	ug/L	49	47.6	3%	<5.0	<5.0	NC	22	23	NC	<5.0
	Calcium (Ca) - Total	-	0.05	mg/L	51.5	50.8	1%	5.21	5.11	2%	34.5	36.3	5%	<0.010
	Cobalt (Co) - Total	-	0.005	ug/L	0.0949	0.0948	0%	0.0392	0.0323	19%	0.415	0.443	7%	<0.0050
	Iron (Fe) - Total	-	1	ug/L	3	3.2	NC	18.1	8.3	74%	689	734	6%	1.400
	Lithium (Li) - Total	-	0.5	ug/L	12.1	11.9	2%	2.7	2.67	1%	14	14.5	4%	<0.50
	Magnesium (Mg) - Total	-	0.05	mg/L	10	9.89	1%	1.94	1.9	2%	9.68	10.3	6%	0.006
	Manganese (Mn) - Total	-	0.05	ug/L	10.7	10.6	1%	2.01	1.82	10%	85.3	88.2	3%	<0.050
	Mercury (Hg) - Total	-	0.002	ug/L	<0.0019	<0.0019	NC	<0.0019	<0.0019	NC	-	-	-	<0.0019
	Molybdenum (Mo) - Total	-	0.05	ug/L	56.2	55.8	1%	3.58	3.38	6%	13.3	13.8	4%	<0.050
	Potassium (K) - Total	-	0.05	mg/L	31.6	31.2	1%	2.8	2.74	2%	3.03	3.14	4%	<0.010
	Selenium (Se) - Total	-	0.04	ug/L	0.166	0.165	NC	<0.040	<0.040	NC	<0.040	<0.040	NC	<0.040
	Silicon (Si) - Total	-	50	ug/L	5010	4930	2%	316	290	9%	5550	5760	4%	<50
	Silver (Ag) - Total	-	0.005	ug/L	<0.0050	<0.0050	NC	<0.0050	<0.0050	NC	<0.010	<0.010	NC	<0.0050
	Sodium (Na) - Total	-	0.05	ug/L	76.3	75.6	1%	7.15	6.99	2%	71.6	76.5	7%	0.012
	Strontium (Sr) - Total	-	0.05	ug/L	1050	1040	1%	91.5	89.3	2%	1050	1110	6%	0.099
	Sulphur (S) - Total	-	0.5	mg/L	47.9	47.8	0%	4.37	4.18	4%	8.18	8.37	2%	<0.50
	Thallium (Tl) - Total	-	0.002	ug/L	0.005	0.0062	NC	<0.0020	<0.0020	NC	0.0023	0.0025	NC	<0.0020
	Tin (Sn) - Total	-	0.20	ug/L	<0.010	<0.010	NC	0.016	0.018	NC	<0.20	<0.20	NC	<0.010
	Titanium (Ti) - Total	-	0.5	ug/L	<0.50	<0.50	NC	<0.50	<0.50	NC	17.4	19.3	10%	<0.50
	Uranium (U) - Total	-	0.002	ug/L	1.8	1.79	1%	0.173	0.165	5%	0.411	0.444	8%	<0.0020
Vanadium (V) - Total	-	0.1	ug/L	2.53	2.48	2%	0.162	0.137	NC	0.54	0.64	17%	<0.050	
Zirconium (Zr) - Total	-	0.05	ug/L	<0.050	<0.050	NC	<0.050	<0.050	NC	0.27	0.24	NC	<0.050	
Dissolved Metals by CRC-ICPMS	Aluminum (Al) - Dissolved	-	0.2	ug/L	-	-	-	11.5	20.5	56%	6.5	6.2	4%	<0.20
	Antimony (Sb) - Dissolved	-	0.02	ug/L	-	-	-	0.068	0.082	NC	0.041	0.042	NC	<0.020
	Arsenic (As) - Dissolved	-	0.02	ug/L	-	-	-	0.292	0.337	14%	4.44	4.46	0%	<0.020
	Barium (Ba) - Dissolved	-	0.02	ug/L	-	-	-	8.63	8.7	1%	102	102	0%	<0.020
	Beryllium (Be) - Dissolved	-	0.01	ug/L	-	-	-	<0.010	<0.010	NC	<0.010	<0.010	NC	<0.010
	Bismuth (Bi) - Dissolved	-	0.005	ug/L	-	-	-	<0.0050	<0.0050	NC	<0.0050	<0.0050	NC	<0.0050
	Boron (B) - Dissolved	-	5	ug/L	-	-	-	8.8	9.7	NC	22.4	23.1	NC	6.400
	Cadmium (Cd) - Dissolved	-	0.005	ug/L	-	-	-	<0.0050	<0.0050	NC	<0.0050	<0.0050	NC	<0.0050
	Calcium (Ca) - Dissolved	-	0.05	mg/L	-	-	-	4.93	4.83	2%	35	35.2	1%	<0.010
	Chromium (Cr) - Dissolved	-	0.05	ug/L	-	-	-	0.102	0.112	NC	<0.050	<0.050	NC	<0.050
	Cobalt (Co) - Dissolved	-	0.005	ug/L	-	-								

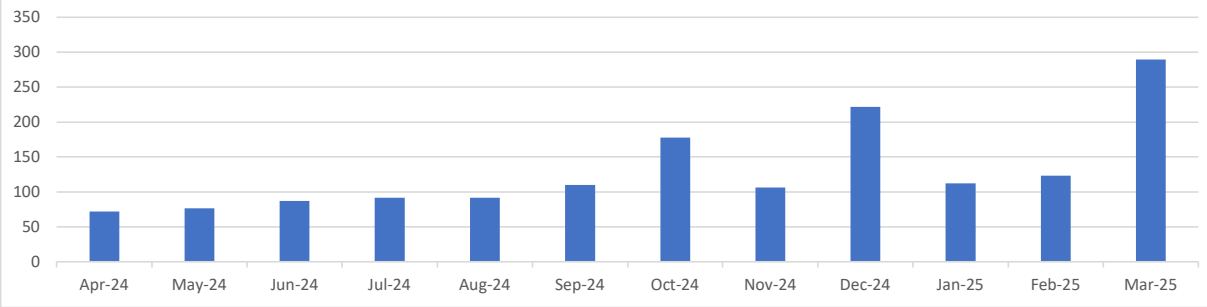


## **Attachment 1**

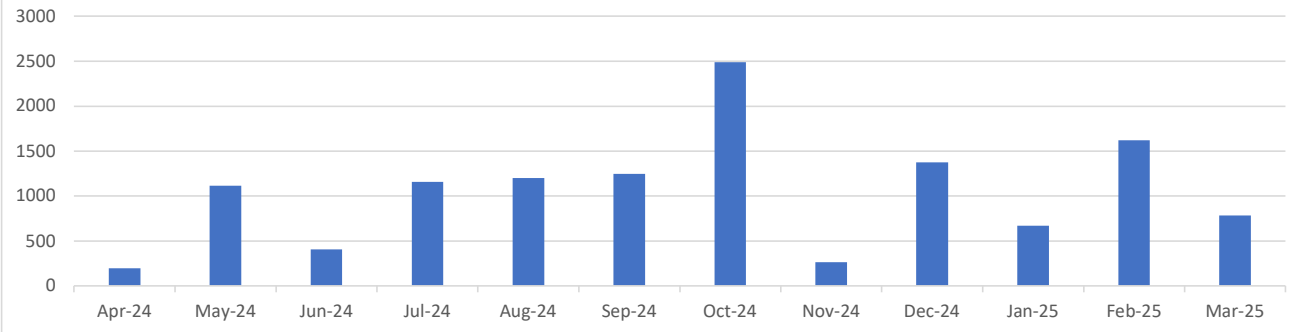
1645-51 Pumping Volumes to North Inlet



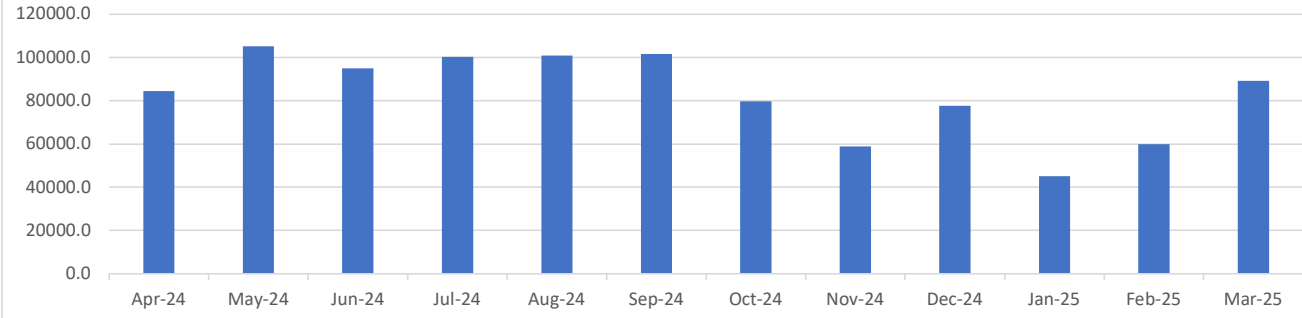
1645-51 Monthly Total Phosphorus Loadings to North Inlet (kg)



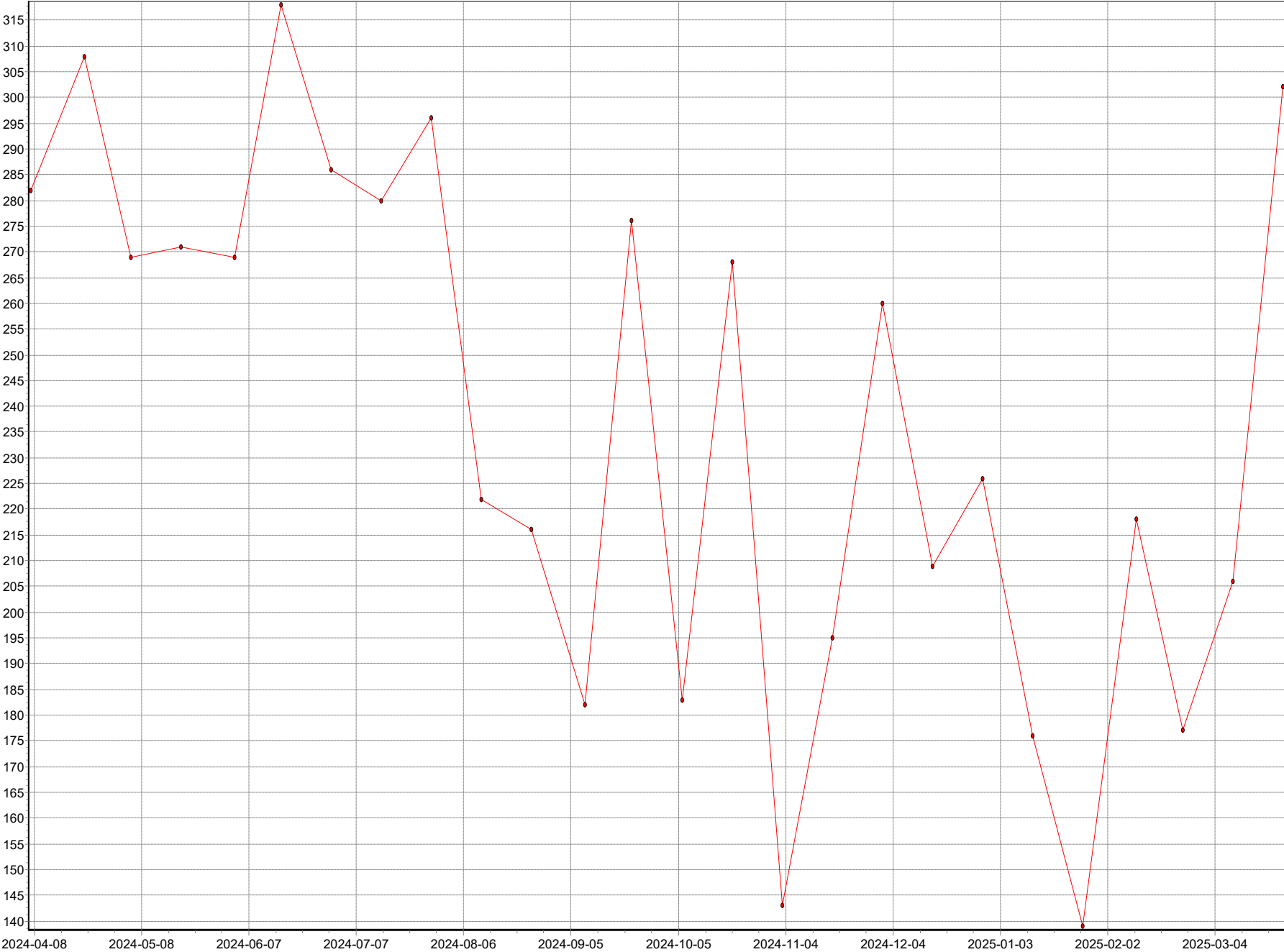
1645-51 Monthly Total Nitrogen Loadings to North Inlet (kg)



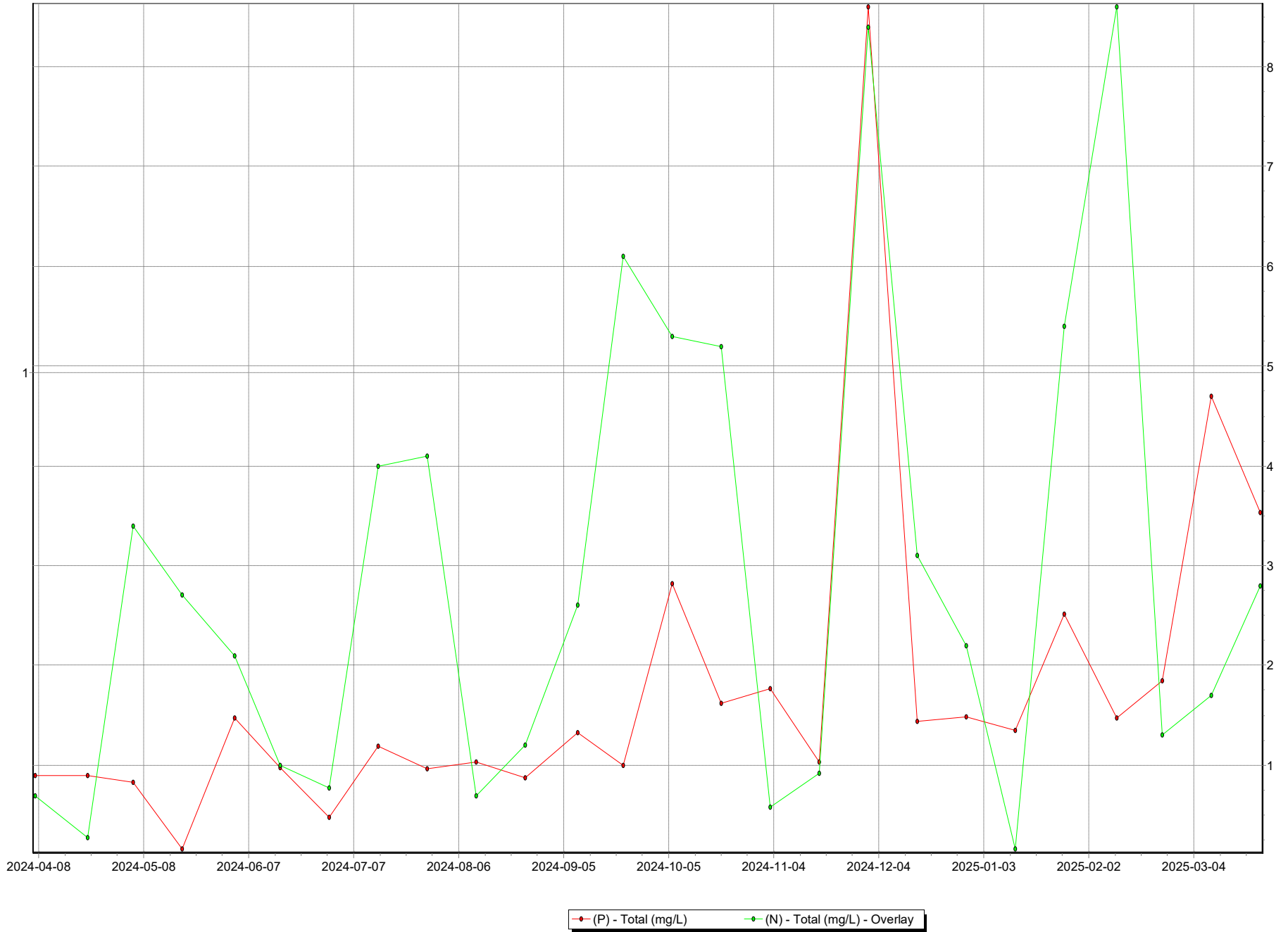
1645-51 Monthly Loadings of Total Dissolved Solids to North Inlet (kg)



Time Series Graph of SNP-A: 1645-51, Maxxam, (TDS) (mg/L)



Time Series Graph of SNP-A: 1645-51, Maxxam, (P) - Total (mg/L)



## Attachment 2



## 1645-88 Water Quality vs PKMW Modelling – to March 2025

**RioTinto**

	SAMPLE SIZE	5th PERCENTILE	MEDIAN	95th PERCENTILE	Model*
Sodium (Na) - Total (mg/L)	12	113.750	125.500	136.600	95.000
Fluoride (F) (mg/L)	12	0.224	0.252	0.281	0.075
Ammonia (N) (mg/L)	12	4.355	4.650	5.235	1.700
Nitrate (N) (mg/L)	12	14.000	15.000	16.000	12.000
Nitrite (N) (mg/L)	12	0.979	1.100	1.545	1.900
Aluminum (Al) - Total (ug/L)	12	6.175	15.950	48.495	4.700
Antimony (Sb) - Total (ug/L)	12	3.861	4.125	4.483	4.300
Arsenic (As) - Total (ug/L)	12	2.107	2.260	2.538	4.400
Barium (Ba) - Total (ug/L)	12	109.050	131.500	157.050	49.000
Boron (B) - Total (ug/L)	12	68.210	81.500	99.350	63.000
Cadmium (Cd) - Total (ug/L)	12	0.026	0.030	0.048	0.420
Calcium (Ca) - Total (mg/L)	12	51.555	65.450	74.585	0.630
Chloride (Cl) - Dissolved (mg/L)	12	93.100	96.000	100.000	101.000
Magnesium (Mg) - Total (mg/L)	12	8.802	15.100	19.960	0.430
Chromium (Cr) - Total (ug/L)	12	0.250	0.570	1.981	0.027
Copper (Cu) - Total (ug/L)	12	0.250	0.266	0.530	3.100
Iron (Fe) - Total (ug/L)	12	22.730	51.450	139.450	1.800
Lead (Pb) - Total (ug/L)	12	0.025	0.043	0.082	0.360
Manganese (Mn) - Total (ug/L)	12	1.207	1.785	3.629	2.700
Molybdenum (Mo) - Total (ug/L)	12	179.050	193.000	200.900	190.000
Nickel (Ni) - Total (ug/L)	12	2.777	3.385	6.255	3.300
Silicon (Si) - Total (ug/L)	12	1760.500	2045.000	2518.500	780.000
Silver (Ag) - Total (ug/L)	12	0.005	0.025	0.036	0.018
Selenium (Se) - Total (ug/L)	12	0.507	0.610	1.015	0.410
Sulphate (SO4) - Dissolved (mg/L)	12	406.500	455.000	514.500	175.000
Strontium (Sr) - Total (ug/L)	12	1043.050	1420.000	1757.000	530.000
Thallium (Tl) - Total (ug/L)	12	0.008	0.010	0.010	0.036
Tin (Sn) - Total (ug/L)	12	0.011	0.050	0.477	0.130
Uranium (U) - Total (ug/L)	12	0.055	0.075	0.095	0.025
Zinc (Zn) - Total (ug/L)	12	0.451	0.500	2.751	4.100
<b>Total Dissolved Solids (TDS) (mg/L)</b>	12	854.450	954.500	1005.250	534.000

Source: MPS Imports

\* Table 7 in Section 5.9 of Processed Kimberlite Management Plan, Version 7.1