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Water Monitoring Data Report

14-Jul-24

The attached report contains the water monitoring data for all the licenced water monitoring points as required by the Environment Protection Licence 10232, for July to June 2024 as part of the reporting period July 2023 - June 2024.

Authorised by:



Uday Bhagwat
Pulp Mill Manager
J. Oliver



Johan Stoltz
General Manager

Latest Publication Date: 14-Jul-24
Monitoring Location No: 9
Description: Outlet pipe from the 400ML storage pond into Sandy Creek
Monitoring Type: Grab Sample
Environment Protection Licence: 10232
Reporting Period: July 2023 to June 2024
Sample Type: Water

Parameter	Unit	Concentration Limit	Date of Sample	Date of Report	Data	Compliance (Yes/No)	Comment
BOD	mg/L	40					Note
Nitrogen (total)	mg/L	20					Note
pH	pH	5.5 - 9.5					Note
Phosphorus (total)	mg/L	5					Note
TDS	mg/L	N/A					Note
TSS	mg/L	45					Note
Zinc	mg/L	N/A					Note

N/A-Not Applicable

Note: Sampling only conducted on day of discharge from 400ML Storage Dam into Sandy Creek and monthly thereafter

Latest Publication Date: 14-Jul-24

Monitoring Location No: 10

Environment Protection Licence: 10232

Description: Decant Line from the Sequencing Batch Reactor

Reporting Period: July 2023 to June 2024

Monitoring Type: Grab Sample

Sample Type: Water

Month	Parameter	Units	Concentration		Date of Sample	Date of Report	Report No.	Data	Compliance (Yes/No)	Comment
			Limit	Frequency						
Jul-23	BOD	mg/L	40	1st Period	6-Jul-23	27-Jul-23	2307-0007	9	Yes	
	Nitrogen (total)	mg/L	20	1st Period	6-Jul-23	27-Jul-23	2307-0007	2	Yes	
	Oil and Grease	mg/L	5	1st Period	6-Jul-23	27-Jul-23	2307-0007	1	Yes	
	pH	pH	5.5 - 9.5	1st Period	6-Jul-23	27-Jul-23	2307-0007	7.2	Yes	
	Phosphorus (total)	mg/L	5	1st Period	6-Jul-23	27-Jul-23	2307-0007	0.74	Yes	
	Sodium Adsorption Ratio	SAR	N/A	1st Period	6-Jul-23	27-Jul-23	2307-0007	4	N/A	
	TDS	mg/L	N/A	1st Period	6-Jul-23	27-Jul-23	2307-0007	136	N/A	
	TSS	mg/L	45	1st Period	6-Jul-23	27-Jul-23	2307-0007	< 2	Yes	
	Zinc	mg/L	N/A	1st Period	6-Jul-23	27-Jul-23	2307-0007	0.016	N/A	
Aug-23	BOD	mg/L	40	2nd Period	2-Aug-23	24-Aug-23	2308-0009	12	Yes	
	Nitrogen (total)	mg/L	20	2nd Period	2-Aug-23	24-Aug-23	2308-0009	5	Yes	
	Oil and Grease	mg/L	5	2nd Period	2-Aug-23	24-Aug-23	2308-0009	< 1	Yes	
	pH	pH	5.5 - 9.5	2nd Period	2-Aug-23	24-Aug-23	2308-0009	7.4	Yes	
	Phosphorus (total)	mg/L	5	2nd Period	2-Aug-23	24-Aug-23	2308-0009	0.72	Yes	
	Sodium Adsorption Ratio	SAR	N/A	2nd Period	2-Aug-23	24-Aug-23	2308-0009	7	N/A	
	TDS	mg/L	N/A	2nd Period	2-Aug-23	24-Aug-23	2308-0009	155	N/A	
	TSS	mg/L	45	2nd Period	2-Aug-23	24-Aug-23	2308-0009	3	Yes	
	Zinc	mg/L	N/A	2nd Period	2-Aug-23	24-Aug-23	2308-0009	0.017	N/A	
Nov-23	BOD	mg/L	40	3rd Period	1-Nov-23	27-Nov-23	2311-0012	4	Yes	
	Nitrogen (total)	mg/L	20	3rd Period	1-Nov-23	27-Nov-23	2311-0012	4	Yes	
	Oil and Grease	mg/L	5	3rd Period	1-Nov-23	27-Nov-23	2311-0012	< 1	Yes	
	pH	pH	5.5 - 9.5	3rd Period	1-Nov-23	27-Nov-23	2311-0012	7.7	Yes	
	Phosphorus (total)	mg/L	5	3rd Period	1-Nov-23	27-Nov-23	2311-0012	0.78	Yes	
	Sodium Adsorption Ratio	SAR	N/A	3rd Period	1-Nov-23	27-Nov-23	2311-0012	4	N/A	
	TDS	mg/L	N/A	3rd Period	1-Nov-23	27-Nov-23	2311-0012	150	N/A	
	TSS	mg/L	45	3rd Period	1-Nov-23	27-Nov-23	2311-0012	3	Yes	
	Zinc	mg/L	N/A	3rd Period	1-Nov-23	27-Nov-23	2311-0012	0.03	N/A	
Jan-24	BOD	mg/L	40	4th Period	10-Jan-24	30-Jan-24	2401-0018	19	Yes	
	Nitrogen (total)	mg/L	20	4th Period	10-Jan-24	30-Jan-24	2401-0018	3	Yes	
	Oil and Grease	mg/L	5	4th Period	10-Jan-24	30-Jan-24	2401-0018	2	Yes	
	pH	pH	5.5 - 9.5	4th Period	10-Jan-24	30-Jan-24	2401-0018	7.6	Yes	
	Phosphorus (total)	mg/L	5	4th Period	10-Jan-24	30-Jan-24	2401-0018	0.99	Yes	
	Sodium Adsorption Ratio	SAR	N/A	4th Period	10-Jan-24	30-Jan-24	2401-0018	4	N/A	
	TDS	mg/L	N/A	4th Period	10-Jan-24	30-Jan-24	2401-0018	177	N/A	
	TSS	mg/L	45	4th Period	10-Jan-24	30-Jan-24	2401-0018	4	Yes	
	Zinc	mg/L	N/A	4th Period	10-Jan-24	30-Jan-24	2401-0018	0.030	N/A	
Mar-24	BOD	mg/L	40	5th Period	1-Mar-24	22-Mar-24	2403-0004	18	Yes	
	Nitrogen (total)	mg/L	20	5th Period	1-Mar-24	22-Mar-24	2403-0024	2	Yes	
	Oil and Grease	mg/L	5	5th Period	1-Mar-24	22-Mar-24	2403-0024	< 1	Yes	
	pH	pH	5.5 - 9.5	5th Period	1-Mar-24	22-Mar-24	2403-0024	7.8	Yes	
	Phosphorus (total)	mg/L	5	5th Period	1-Mar-24	22-Mar-24	2403-0024	0.77	Yes	
	Sodium Adsorption Ratio	SAR	N/A	5th Period	1-Mar-24	22-Mar-24	2403-0024	3	N/A	
	TDS	mg/L	N/A	5th Period	1-Mar-24	22-Mar-24	2403-0024	204	N/A	
	TSS	mg/L	45	5th Period	1-Mar-24	22-Mar-24	2403-0024	5	Yes	
	Zinc	mg/L	N/A	5th Period	1-Mar-24	22-Mar-24	2403-0024	0.040	N/A	
May-24	BOD	mg/L	40	6th Period	1-May-24	31-May-24	2405-0006	3	Yes	
	Nitrogen (total)	mg/L	20	6th Period	1-May-24	31-May-24	2405-0006	5	Yes	
	Oil and Grease	mg/L	5	6th Period	1-May-24	31-May-24	2405-0006	1	Yes	
	pH	pH	5.5 - 9.5	6th Period	1-May-24	31-May-24	2405-0006	7.1	Yes	
	Phosphorus (total)	mg/L	5	6th Period	1-May-24	31-May-24	2405-0006	1.44	Yes	
	Sodium Adsorption Ratio	SAR	N/A	6th Period	1-May-24	31-May-24	2405-0006	4	N/A	
	TDS	mg/L	N/A	6th Period	1-May-24	31-May-24	2405-0006	250	N/A	
	TSS	mg/L	45	6th Period	1-May-24	31-May-24	2405-0006	8	Yes	
	Zinc	mg/L	N/A	6th Period	1-May-24	31-May-24	2405-0006	0.050	N/A	



Latest Publication Date: 14-Jul-24
Monitoring Location No: 11 **Environment Protection Licence:** 10232
Description: Sandy creek, upstream of discharge point **Reporting Period:** July 2023 to June 2024
Monitoring Type: Grab Sample **Sample Type:** Water

Month	Parameter	Unit	Date of Sample	Date of Report	Data	Comments
	BOD	mg/L				Note
	Nitrogen (total)	mg/L				Note
	pH	pH				Note
	Phosphorus (total)	mg/L				Note
	TDS	mg/L				Note
	BOD	mg/L				Note
	Nitrogen (total)	mg/L				Note
	pH	pH				Note
	Phosphorus (total)	mg/L				Note
	TDS	mg/L				Note

N/A-Not Applicable

Note: Sampling only conducted on day of discharge from 400ML Storage Dam into Sandy Creek and monthly thereafter

General Note: Limits are not applicable to this monitoring point

Latest Publication Date: 14-Jul-24
Monitoring Location No: 12 **Environment Protection Licence:** 10232
Description: Sandy creek, downstream of discharge point **Reporting Period:** July 2023 to June 2024
Monitoring Type: Grab Sample **Sample Type:** Water

Month	Parameter	Unit	Date of Sample	Date of Report	Data	Comments
	BOD	mg/L				Note
	Nitrogen (total)	mg/L				Note
	pH	pH				Note
	Phosphorus (total)	mg/L				Note
	TDS	mg/L				Note
	BOD	mg/L				Note
	Nitrogen (total)	mg/L				Note
	pH	pH				Note
	Phosphorus (total)	mg/L				Note
	TDS	mg/L				Note

N/A-Not Applicable

Note: Sampling only conducted on day of discharge from 400ML Storage Dam into Sandy Creek and monthly thereafter

General Note: Limits are not applicable to this monitoring point

Latest Publication Date: 14-Jul-24
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample
Environment Protection Licence: 10232
Reporting Period: July 2023 to June 2024
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
SMS1	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	8.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	3730.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	16.00
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.07
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	901.80
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	97.24
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	430.10
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	4.60
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	<1.00
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	2.10
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	1530.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	1.70
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	6.60
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	59.00
SMS2	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	8.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	1430.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	9.00
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.08
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	1943.88
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	72.93
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	136.85
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	27.59
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	1.10
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	2.30
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	1080.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	2.10
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	7.60
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	56.00
SMS3	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	7.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	1400.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	10.00
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.10
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	1302.60
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	60.78
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	132.94
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	41.38
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	2.40
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	17.00
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	948.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	1.20
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	8.00
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	61.00
SMS4	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	7.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	3780.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	11.00
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.13
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	1763.52
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	194.48
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	703.80
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	45.98
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	1.60
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	8.50
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	1360.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	1.60
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	8.00
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	170.00
SMS5	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	7.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	1940.00

Latest Publication Date: 14-Jul-24
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample
Environment Protection Licence: 10232
Reporting Period: July 2023 to June 2024
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	18.00
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.12
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	2004.00
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	60.78
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	160.31
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	22.99
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	0.90
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	20.00
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	1140.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	1.40
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	8.10
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	64.00
SMS6	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	7.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	4650.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	45.00
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.11
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	1643.28
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	97.24
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	269.79
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	32.19
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	1.40
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	17.00
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	2230.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	1.90
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	7.80
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	86.00
SMS7	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	8.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	2200.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	9.00
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.10
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	761.52
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	60.78
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	74.29
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	4.60
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	<1.00
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	51.00
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	1450.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	2.20
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	5.50
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	94.00

General Note: Sampling conducted every 3 years
 General Note: Limits are not applicable to this monitoring point

Latest Publication Date: 14-Jul-24
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample
Environment Protection Licence: 10232
Reporting Period: July 2023 to June 2024
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
SMS1	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	5.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	43300.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	<5
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.05
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	1002.00
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	607.75
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	132.94
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	27.59
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	1.20
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	1.10
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	274.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	0.60
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	6.50
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	530.00
SMS2	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	5.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	47200.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	<5
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.05
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	961.92
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	97.24
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	125.12
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	32.19
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	2.30
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	<0.5
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	166.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	0.30
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	7.90
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	49.00
SMS3	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	5.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	41300.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	<5
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.04
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	240.48
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	12.16
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	18.39
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	5.30
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	2.40
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	42.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	<0.2
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	7.90
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	21.00
SMS4	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	5.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	74300.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	<5
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.06
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	921.84
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	133.71
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	87.36
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	3.40
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	1.00
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	445.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	0.40
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	7.40
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	150.00
SMS5	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	5.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	63500.00

Latest Publication Date: 14-Jul-24
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample
Environment Protection Licence: 10232
Reporting Period: July 2023 to June 2024
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	<5
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.10
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	134.91
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	320.64
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	12.16
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	25.29
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	5.30
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	2.60
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	631.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	0.50
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	5.50
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	450.00
SMS6	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	5.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	70100.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	<5
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.11
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	62.96
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	1002.00
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	243.10
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	586.50
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	112.65
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	5.00
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	5.00
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	501.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	0.40
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	5.50
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	540.00
SMS7	Aggregate stability	As approp.	09-Oct-23	31-Oct-23	2310-0023	5.00
	Aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	63500.00
	Available phosphorus	ppm	09-Oct-23	31-Oct-23	2310-0023	<5
	Conductivity	mS/cm	09-Oct-23	31-Oct-23	2310-0023	0.04
	Exchangeable aluminium	ppm	09-Oct-23	31-Oct-23	2310-0023	44.97
	Exchangeable calcium	ppm	09-Oct-23	31-Oct-23	2310-0023	1022.04
	Exchangeable magnesium	ppm	09-Oct-23	31-Oct-23	2310-0023	376.81
	Exchangeable potassium	ppm	09-Oct-23	31-Oct-23	2310-0023	43.01
	Exchangeable sodium	ppm	09-Oct-23	31-Oct-23	2310-0023	0.00
	Exchangeable sodium percentage	%	09-Oct-23	31-Oct-23	2310-0023	1.30
	Nitrate	ppm	09-Oct-23	31-Oct-23	2310-0023	6.70
	Nitrogen (total)	ppm	09-Oct-23	31-Oct-23	2310-0023	577.00
	Organic carbon	%	09-Oct-23	31-Oct-23	2310-0023	0.60
	pH	pH	09-Oct-23	31-Oct-23	2310-0023	5.70
	Phosphorus Sorption Capacity	As approp.	09-Oct-23	31-Oct-23	2310-0023	350.00

General Note: Sampling conducted every 3 years
 General Note: Limits are not applicable to this monitoring point



Latest Publication Date: 14-Jul-24
 Monitoring Location No: 14
 Description: Groundwater Monitoring Bores - Depth
 Monitoring Type: Grab Sample

Environment Protection Licence: 10232
 Reporting Period: July 2023 to June 2024
 Sample Type: Depth

Month	Date of Sample	Units	Borehole No														
			BH1	BH2	BH3	BH7S	BH7D	BH8S	BH8D	BH9	BH10D	BH11S	BH11D	BH13	BH14	BH15S	BH15D
Jul-23	5-Jul-23	m	3.50	3.10	5.05	5.35	6.88	0.90	1.52	8.16	5.37	1.80	0.83	0.00	0.82	0.20	0.20
Oct-23	10-Oct-23	m	3.40	3.30	5.07	5.32	6.93	0.94	1.57	8.23	5.42	1.81	0.84	0.00	0.87	0.21	0.23
Jan-24	10-Jan-24	m	2.91	2.73	4.19	Note 1	3.25	0.51	0.60	5.66	4.87	2.21	0.56	0.01	0.11	0.13	0.98
Apr-24	3-Apr-24	m	5.50	3.53	5.93	Note 1	6.67	1.12	1.42	9.19	6.54	2.63	1.72	0.43	0.99	3.09	2.10

General Note: Limits are not applicable to this monitoring point
 Note 1 - Bore empty
 Note 2 - All readings taken from top of casing

Latest Publication Date: 14-Jul-24

Monitoring Location No: 14

Description: Groundwater Monitoring Bore - Quality

Monitoring Type: Grab Sample

Environment Protection Licence: 10232

Reporting Period: July 2023 to June 2024

Sample Type: Water

Month	Parameter	Units	Freq	Date of Sample	Date of Report	Report No.	BH1	BH2	BH3	BH7S	BH7D	BH8S	BH8D	BH9	BH10D	BH11S	BH11D	BH13	BH14	BH15S	BH15D
Jul 23	Conductivity	mS/cm	1st Qrt	05-Jul-23	27-Jul-23	2307-0002	382	135	156	137	443	578	523	461	585	860	807	1030	792	860	807
	Nitrate	ppm	1st Qrt	05-Jul-23	27-Jul-23	2307-0002	3.30	4.90	0.20	0.50	2.80	2.80	4.00	15.80	12.10	<0.1	<0.1	<0.1	0.80	<0.1	<0.1
	pH	pH	1st Qrt	05-Jul-23	27-Jul-23	2307-0002	5.70	5.90	5.80	5.80	6.20	6.80	6.60	6.50	6.60	6.60	6.80	6.80	6.70	6.60	6.60
Oct 23	pH	pH	2nd Qrt	10-Oct-23	16-Oct-23	2310-0026	7.30	7.30	6.80	6.70	6.80	6.90	6.80	6.60	7.00	7.10	6.80	7.20	7.00	7.10	7.30
Jan 24	Conductivity	mS/cm	3rd Qrt	10-Jan-24	19-Jan-24	2401-0017	351	147	171	Note 1	485	524	581	686	721	898	818	986	749	373	317
	Nitrate	ppm	3rd Qrt	10-Jan-24	19-Jan-24	2401-0017	2.30	5.50	1.10	Note 1	0.10	3.10	2.90	13.00	12.00	0.10	<0.1	<0.1	0.20	6.40	6.90
	pH	pH	3rd Qrt	10-Jan-24	19-Apr-24	2401-0017	7.10	6.60	6.40	Note 1	6.30	6.60	6.90	6.90	7.30	7.40	7.20	7.50	7.40	7.70	7.50
Apr 24	pH	pH	4th Qrt	03-Apr-24	10-Apr-24	2404-0012	5.80	5.80	6.50	Note 1	6.70	7.10	6.80	6.90	7.50	6.80	6.80	7.40	6.80	7.40	6.70

General Note: Limits are not applicable to this monitoring point

Note 1- Bore empty