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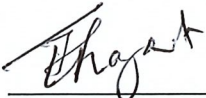
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Water Monitoring Data Report

14-Jul-22

The attached report contains the water monitoring data for all the licenced water monitoring points as required by the Environment Protection Licence 10232, for June 2022 as part of the reporting period July 2021 - June 2022.

Authorised by:



Uday Bhagwat
Pulp Mill Manager



Johan Stoltz
General Manager

Latest Publication Date: 14-Jul-22
Monitoring Location No: 9 **Environment Protection Licence:** 10232
Description: Outlet pipe from the 400ML storage pond into Sandy Creek **Reporting Period:** July 2021 to June 2022
Monitoring Type: Grab Sample **Sample Type:** Water

Parameter	Unit	Concentration Limit	Date of Sample	Date of Report	Data	Compliance (Yes/No)	Comment
BOD	mg/L	40				Yes	Note
Nitrogen (total)	mg/L	20				Yes	Note
pH	pH	5.5 - 9.5				Yes	Note
Phosphorus (total)	mg/L	5				Yes	Note
TDS	mg/L	N/A				N/A	Note
TSS	mg/L	45				Yes	Note
Zinc	mg/L	N/A				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-22

Monitoring Location No: 10

Description: Decant Line from the Sequencing Batch Reactor

Monitoring Type: Grab Sample

Environment Protection Licence: 10232

Reporting Period: July 2021 to June 2022

Sample Type: Water

Month	Parameter	Units	Concentration Limit	Frequency	Date of Sample	Date of Report	Report No.	Data	Compliance (Yes/No)	Comment
Jul-21	BOD	mg/L	40	1st Period	7-Jul-21	2-Aug-21	2107-0028	5	Yes	
	Nitrogen (total)	mg/L	20	1st Period	7-Jul-21	2-Aug-21	2107-0028	4	Yes	
	Oil and Grease	mg/L	5	1st Period	7-Jul-21	2-Aug-21	2107-0028	4	Yes	
	pH	pH	5.5 - 9.5	1st Period	7-Jul-21	2-Aug-21	2107-0028	7.3	Yes	
	Phosphorus (total)	mg/L	5	1st Period	7-Jul-21	2-Aug-21	2107-0028	0.59	Yes	
	Sodium Adsorption Ratio	SAR	N/A	1st Period	7-Jul-21	2-Aug-21	2107-0028	3	N/A	
	TDS	mg/L	N/A	1st Period	7-Jul-21	2-Aug-21	2107-0028	175	N/A	
	TSS	mg/L	45	1st Period	7-Jul-21	2-Aug-21	2107-0028	20	Yes	
	Zinc	mg/L	N/A	1st Period	7-Jul-21	2-Aug-21	2107-0028	0.055	N/A	
Dec-21	BOD	mg/L	40	2nd Period	8-Dec-21	22-Dec-21	2112-0047	6	Yes	
	Nitrogen (total)	mg/L	20	2nd Period	8-Dec-21	22-Dec-21	2112-0047	2	Yes	
	Oil and Grease	mg/L	5	2nd Period	8-Dec-21	22-Dec-21	2112-0047	2	Yes	
	pH	pH	5.5 - 9.5	2nd Period	8-Dec-21	22-Dec-21	2112-0047	7.6	Yes	
	Phosphorus (total)	mg/L	5	2nd Period	8-Dec-21	22-Dec-21	2112-0047	0.53	Yes	
	Sodium Adsorption Ratio	SAR	N/A	2nd Period	8-Dec-21	22-Dec-21	2112-0047	3	N/A	
	TDS	mg/L	N/A	2nd Period	8-Dec-21	22-Dec-21	2112-0047	168	N/A	
	TSS	mg/L	45	2nd Period	8-Dec-21	22-Dec-21	2112-0047	19	Yes	
	Zinc	mg/L	N/A	2nd Period	8-Dec-21	22-Dec-21	2112-0047	0.063	N/A	
Jan-22	BOD	mg/L	40	3rd Period	10-Jan-22	1-Feb-22	2201-0025	10	Yes	
	Nitrogen (total)	mg/L	20	3rd Period	10-Jan-22	1-Feb-22	2201-0025	2	Yes	
	Oil and Grease	mg/L	5	3rd Period	10-Jan-22	1-Feb-22	2201-0025	4	Yes	
	pH	pH	5.5 - 9.5	3rd Period	10-Jan-22	1-Feb-22	2201-0025	7.4	Yes	
	Phosphorus (total)	mg/L	5	3rd Period	10-Jan-22	1-Feb-22	2201-0025	0.01	Yes	
	Sodium Adsorption Ratio	SAR	N/A	3rd Period	10-Jan-22	1-Feb-22	2201-0025	4	N/A	
	TDS	mg/L	N/A	3rd Period	10-Jan-22	1-Feb-22	2201-0025	210	N/A	
	TSS	mg/L	45	3rd Period	10-Jan-22	1-Feb-22	2201-0025	18	Yes	
	Zinc	mg/L	N/A	3rd Period	10-Jan-22	1-Feb-22	2201-0025	0.03	N/A	
Feb-22	BOD	mg/L	40	4th Period	2-Feb-22	3-Mar-22	2202-0020	5	Yes	
	Nitrogen (total)	mg/L	20	4th Period	2-Feb-22	3-Mar-22	2202-0020	2	Yes	
	Oil and Grease	mg/L	5	4th period	2-Feb-22	3-Mar-22	2202-0020	4	Yes	
	pH	pH	5.5 - 9.5	4th period	2-Feb-22	3-Mar-22	2202-0020	7.0	Yes	
	Phosphorus (total)	mg/L	5	4th period	2-Feb-22	3-Mar-22	2202-0020	0.38	Yes	
	Sodium Adsorption Ratio	SAR	N/A	4th period	2-Feb-22	3-Mar-22	2202-0020	3	N/A	
	TDS	mg/L	N/A	4th period	2-Feb-22	3-Mar-22	2202-0020	562	N/A	
	TSS	mg/L	45	4th period	2-Feb-22	3-Mar-22	2202-0020	4	Yes	
	Zinc	mg/L	N/A	4th period	2-Feb-22	3-Mar-22	2202-0020	0.04	N/A	
Mar-21	BOD	mg/L	40	5th Period	2-Mar-22	24-Mar-22	2203-0017	4	Yes	
	Nitrogen (total)	mg/L	20	5th Period	2-Mar-22	24-Mar-22	2203-0017	6	Yes	
	Oil and Grease	mg/L	5	5th Period	2-Mar-22	24-Mar-22	2203-0017	4	Yes	
	pH	pH	5.5 - 9.5	5th Period	2-Mar-22	24-Mar-22	2203-0017	6.8	Yes	
	Phosphorus (total)	mg/L	5	5th Period	2-Mar-22	24-Mar-22	2203-0017	0.74	Yes	
	Sodium Adsorption Ratio	SAR	N/A	5th Period	2-Mar-22	24-Mar-22	2203-0017	1	N/A	
	TDS	mg/L	N/A	5th Period	2-Mar-22	24-Mar-22	2203-0017	450	N/A	
	TSS	mg/L	45	5th Period	2-Mar-22	24-Mar-22	2203-0017	6	Yes	
	Zinc	mg/L	N/A	5th Period	2-Mar-22	24-Mar-22	2203-0017	0.019	N/A	
Apr-21	BOD	mg/L	40	6th Period	5-Apr-22	24-Apr-22	2204-0009	5	Yes	
	Nitrogen (total)	mg/L	20	6th Period	5-Apr-22	24-Apr-22	2204-0009	3	Yes	
	Oil and Grease	mg/L	5	6th Period	5-Apr-22	24-Apr-22	2204-0009	2	Yes	
	pH	pH	5.5 - 9.5	6th Period	5-Apr-22	24-Apr-22	2204-0009	7.4	Yes	
	Phosphorus (total)	mg/L	5	6th Period	5-Apr-22	24-Apr-22	2204-0009	0.65	Yes	
	Sodium Adsorption Ratio	SAR	N/A	6th Period	5-Apr-22	24-Apr-22	2204-0009	3	N/A	
	TDS	mg/L	N/A	6th Period	5-Apr-22	24-Apr-22	2204-0009	173	N/A	
	TSS	mg/L	45	6th Period	5-Apr-22	24-Apr-22	2204-0009	9	Yes	
	Zinc	mg/L	N/A	6th Period	5-Apr-22	24-Apr-22	2204-0009	0.026	N/A	



Latest Publication Date: 14-Jul-22
Monitoring Location No: 11 **Environment Protection Licence:** 10232
Description: Sandy creek, upstream of discharge point **Reporting Period:** July 2021 to June 2022
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

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-22
Monitoring Location No: 12 **Environment Protection Licence:** 10232
Description: Sandy creek, downstream of discharge point **Reporting Period:** July 2021 to June 2022
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-22
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample

Environment Protection Licence: 10232
Reporting Period: July 2021 to June 2022
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
SMS1	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	6600.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	22.00
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.07
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	1242.48
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	230.95
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	391.00
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	22.99
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	1.09
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	19.70
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	2650.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	2.10
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	5.80
Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	41.00	
SMS2	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	3300.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	30.00
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.04
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	1162.32
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	60.78
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	39.10
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	45.98
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	3.03
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	4.60
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	1890.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	2.00
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	6.10
Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	20.00	
SMS3	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	3400.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	31.00
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.03
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	621.24
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	48.62
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	45.98
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	5.41
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	1.30
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	1540.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	1.50
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	5.80
Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	22.00	
SMS4	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	5500.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	25.00
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.02
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	761.52
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	48.62
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	78.20
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	<1.0
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	1.20
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	1140.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	1.80
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	5.80
Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	14.00	
SMS5	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00

Latest Publication Date: 14-Jul-22
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample

Environment Protection Licence: 10232
Reporting Period: July 2021 to June 2022
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	3300.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	24.00
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.04
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	1282.56
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	121.55
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	78.20
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	45.98
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	2.56
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	6.60
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	1150.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	2.00
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	6.20
	Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	13.00
SMS6	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	4800.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	29.00
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.08
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	1082.16
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	121.55
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	312.80
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	22.99
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	1.37
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	20.00
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	2020.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	1.90
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	6.40
	Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	23.00
SMS7	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	5.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	2890.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	15.00
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.04
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	761.52
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	48.62
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	78.20
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	<1.0
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	7.50
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	1680.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	2.50
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	5.60
	Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	35.00

General Note: Sampling conducted every 3 years

General Note: Limits are not applicable to this monitoring point



Latest Publication Date: 14-Jul-22
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample
Environment Protection Licence: 10232
Reporting Period: July 2021 to June 2022
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
SMS1	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	41500.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	<5
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.04
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	1022.04
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	729.30
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	117.30
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	68.97
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	2.56
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	1.10
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	571.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	0.60
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	5.30
Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	79.00	
SMS2	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	28800.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	<5
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.01
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	340.68
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	206.64
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	39.10
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	252.89
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	23.91
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	1.20
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	188.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	<0.5
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	5.50
Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	85.00	
SMS3	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	67500.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	<5
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.01
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	721.44
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	425.43
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	275.88
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	14.46
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	0.70
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	522.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	<0.5
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	5.60
Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	80.00	
SMS4	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	5.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	68500.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	<5
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.05
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	1022.04
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	340.34
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	229.90
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	11.24
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	2.70
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	375.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	<0.5
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	6.50
Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	50.00	
SMS5	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00

Latest Publication Date: 14-Jul-22
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample
Environment Protection Licence: 10232
Reporting Period: July 2021 to June 2022
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	44400.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	<5
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.05
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	721.44
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	279.57
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	206.91
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	13.24
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	1.80
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	372.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	<0.5
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	6.00
	Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	76.00
SMS6	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	6.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	55400.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	<5
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.06
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	721.44
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	182.33
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	312.80
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	45.98
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	3.28
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	3.90
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	684.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	0.70
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	5.50
	Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	61.00
SMS7	Aggregate stability	As approp.	8-Oct-21	05-Nov-21	2110-0028	5.00
	Aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	45400.00
	Available phosphorus	ppm	8-Oct-21	05-Nov-21	2110-0028	<5
	Conductivity	mS/cm	8-Oct-21	05-Nov-21	2110-0028	0.02
	Exchangeable aluminium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable calcium	ppm	8-Oct-21	05-Nov-21	2110-0028	601.20
	Exchangeable magnesium	ppm	8-Oct-21	05-Nov-21	2110-0028	85.09
	Exchangeable potassium	ppm	8-Oct-21	05-Nov-21	2110-0028	39.10
	Exchangeable sodium	ppm	8-Oct-21	05-Nov-21	2110-0028	0.00
	Exchangeable sodium percentage	%	8-Oct-21	05-Nov-21	2110-0028	<1.0
	Nitrate	ppm	8-Oct-21	05-Nov-21	2110-0028	2.30
	Nitrogen (total)	ppm	8-Oct-21	05-Nov-21	2110-0028	606.00
	Organic carbon	%	8-Oct-21	05-Nov-21	2110-0028	0.80
	pH	pH	8-Oct-21	05-Nov-21	2110-0028	5.00
	Phosphorus Sorption Capacity	As approp.	8-Oct-21	05-Nov-21	2110-0028	80.00

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

Latest Publication Date: 14-Jul-22
Monitoring Location No: 14
Description: Groundwater Monitoring Bores - Depth
Monitoring Type: Grab Sample
Environment Protection Licence: 10232
Reporting Period: July 2021 to June 2022
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-21	8-Jul-21	m	3.90	3.61	4.39	Note 1	7.15	1.11	1.51	8.47	6.61	2.45	2.08	0.51	1.10	0.82	1.67
Oct-21	7-Oct-21	m	2.15	2.10	2.48	6.57	5.11	0.47	0.73	7.53	5.98	1.08	1.98	0.19	0.39	0.51	0.82
Jan-22	11-Jan-22	m	2.40	2.47	3.39	5.50	5.40	0.43	0.62	7.96	5.94	2.10	1.20	0.20	0.26	0.62	0.73
Apr-22	6-Apr-22	m	3.50	3.53	5.10	Note 1	5.55	1.22	1.27	8.87	6.67	2.73	1.55	0.28	0.73	1.28	2.20

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-Jun-22
 Monitoring Location No: 14
 Description: Groundwater Monitoring Bores - Quality
 Monitoring Type: Grab Sample
 Environment Protection Licence: 10232
 Reporting Period: July 2021 to June 2022
 Sample Type: Water

Month	Parameter	Units	Freq	Date of Sample	Date of Report	Report No.	Sample Value																
							BH1	BH2	BH3	BH7S	BH7D	BH8S	BH8D	BH9	BH10D	BH11S	BH11D	BH13	BH14	BH15S	BH15D		
Jul 21	Conductivity	mS/cm	1st Qrt	08-Jul-21	02-Aug-21	2107-0032	377	168	152	Note 1	512	1280	519	194	683	749	568	915	706	317	490		
	Nitrate	ppm	1st Qrt	08-Jul-21	02-Aug-21	2107-0032	1.00	4.00	2.00	Note 1	<1	1.00	3.00	10.00	10.00	<1	<1	<1	<1	<1	<1	10.00	
	pH	pH	1st Qrt	08-Jul-21	02-Aug-21	2107-0032	6.10	5.90	6.10	Note 1	6.50	7.00	6.90	7.20	7.20	6.80	6.90	7.20	6.90	6.70	6.70	7.00	
Oct 21	pH	pH	2nd Qrt	07-Oct-21	14-Oct-21	2110-0025	6.20	5.90	6.00	6.40	6.40	6.90	6.70	6.70	7.30	6.80	6.70	7.50	6.90	7.30	6.90	6.90	
	Conductivity	mS/cm	3rd Qrt	11-Jan-22	01-Feb-22	2201-0034	380	165	125	510	370	667	510	230	660	800	720	1270	795	420	325	325	
	Nitrate	ppm	3rd Qrt	11-Jan-22	01-Feb-22	2201-0034	2.00	4.00	2.00	4.00	<1	1.00	2.00	10.00	10.00	<1	<1	<1	<1	<1	5.00	8.00	8.00
Apr 22	pH	pH	3rd Qrt	11-Jan-22	01-Feb-22	2201-0034	6.90	6.20	6.30	6.40	6.50	6.90	6.80	7.00	7.20	6.60	6.60	7.50	6.80	7.30	6.80	6.80	6.80
	pH	pH	4th Qrt	06-Apr-22	09-Apr-22	2204-0025	5.90	6.40	7.20	Note 1	6.30	5.90	6.70	6.80	7.20	6.90	6.70	7.20	6.20	6.00	6.00	6.10	6.10

General Note: Limits are not applicable to this monitoring point

Note 1- Bore empty