

Tharbogang Borehole Test Results 2018-19

Depth (m)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results		2018/2019				
		Frequency require by EPL sample for period	MIN of samples for period	MAX of samples for period	AVERAGE	Publication Date
Mar-19	Aug-19					
15	15	2	15	15	15	1/08/2019
0	0	2	0	0	0	1/08/2019
12.8	14.5	2	12.8	14.5	13.65	1/08/2019
10.5	8.8	2	8.8	10.5	9.65	1/08/2019
22	20.3	2	20.3	22	21.15	1/08/2019
11	19	2	11	19	15	1/08/2019
17	22	2	17	22	19.5	1/08/2019
0	0	2	0	0	0	1/08/2019
0	0	2	0	0	0	1/08/2019

pH

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-19	Aug-19					
7.82	7.72	2	7.72	7.82	7.77	1/08/2019
0.00	0.00	2	0	0	0	1/08/2019
7.47	7.43	2	7.43	7.47	7.45	1/08/2019
7.71	7.73	2	7.71	7.73	7.72	1/08/2019
7.61	7.61	2	7.61	7.61	7.61	1/08/2019
8.17	8.10	2	8.1	8.17	8.135	1/08/2019
7.63	7.74	2	7.63	7.74	7.685	1/08/2019
0.00	9.10	2	0	9.1	4.55	1/08/2019
7.82	8.30	2	7.82	8.3	8.06	1/08/2019

Alkalinity (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-19	Aug-19					
672.00	848.00	2	672	848	848	1/08/2019
0.00	0.00	2	0	0	0	1/08/2019
447.00	383.00	2	383	447	447	1/08/2019
1250.00	1260.00	2	1250	1260	1260	1/08/2019
889.00	1010.00	2	889	1010	1010	1/08/2019
922.00	953.00	2	922	953	953	1/08/2019
1080.00	1160.00	2	1080	1160	1160	1/08/2019
0.00	1430.00	2	0	1430	1430	1/08/2019
241.00	217.00	2	217	241	241	1/08/2019

Fluoride (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-19	Aug-18					
1.20	1.30	2	1.2	1.3	1.3	1/08/2019
0.00	0.00	2	0	0	0	1/08/2019
1.00	0.80	2	0.8	1	1	1/08/2019
0.90	0.90	2	0.9	0.9	0.9	1/08/2019
1.00	1.00	2	1	1	1	1/08/2019
1.30	1.30	2	1.3	1.3	1.3	1/08/2019
0.90	0.80	2	0.8	0.9	0.9	1/08/2019
0.00	0.30	2	0	0.3	0.3	1/08/2019
2.10	0.60	2	0.6	2.1	2.1	1/08/2019

Chloride (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9

Test Results						
Mar-19	Aug-18					
1850.00	1720.00	2	1720	1850	1850	1/08/2019
0.00	0.00	2	0	0	0	1/08/2019
452.00	438.00	2	438	452	452	1/08/2019
3830.00	3290.00	2	3290	3830	3830	1/08/2019
1360.00	1480.00	2	1360	1480	1480	1/08/2019
1710.00	1740.00	2	1710	1740	1740	1/08/2019
1370.00	1350.00	2	1350	1370	1370	1/08/2019
0.00	6010.00	2	0	6010	6010	1/08/2019

Tharbogang Borehole Test Results 2018-19

Sed Pond dam 2 Pt 8

688.00	73.00	2	73	688	688	1/08/2019
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Tharbogang Borehole Test Results 2018-19

Sulphate (mg/L) SO₄

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-19	Aug-18					
404.00	512.00	2	404	512	512	1/08/2019
0.00	0.00	2	0	0	0	1/08/2019
6.00	25.00	2	6	25	25	1/08/2019
444.00	378.00	2	378	444	444	1/08/2019
128.00	158.00	2	128	158	158	1/08/2019
236.00	268.00	2	236	268	268	1/08/2019
391.00	356.00	2	356	391	391	1/08/2019
0.00	816.00	2	0	816	816	1/08/2019
72.00	46.00	2	46	72	72	1/08/2019

Sp.Conductance (uS/cm)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-19	Aug-18					
7060.00	7250.00	2	7060	7250	7250	1/08/2019
0.00	0.00	2	0	0	0	1/08/2019
2110.00	1810.00	2	1810	2110	2110	1/08/2019
11800.00	11000.00	2	11000	11800	11800	1/08/2019
5440.00	6110.00	2	5440	6110	6110	1/08/2019
6720.00	7010.00	2	6720	7010	7010	1/08/2019
8910.00	9110.00	2	8910	9110	9110	1/08/2019
0.00	19500.00	2	0	19500	19500	1/08/2019
2740.00	672.00	2	672	2740	2740	1/08/2019

Suspended.Solid (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-19	Aug-18					
9.00	5.00	2	5	9	7	1/08/2019
0.00	0.00	2	0	0	0	1/08/2019
58.00	30.00	2	30	58	44	1/08/2019
29.00	62.00	2	29	62	45.5	1/08/2019
19.00	35.00	2	19	35	27	1/08/2019
31.00	511.00	2	31	511	271	1/08/2019
91.00	49.00	2	49	91	70	1/08/2019
0.00	132.00	2	0	132	66	1/08/2019
1280.00	<5	2	1280	1280	1280	1/08/2019

Total Org Carbon-filt (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-19	Aug-18					
37.00	7.00	2	7	37	22	1/08/2019
0.00	0.00	2	0	0	0	1/08/2019
15.00	3.00	2	3	15	9	1/08/2019
53.00	9.00	2	9	53	31	1/08/2019
69.00	21.00	2	21	69	45	1/08/2019
32.00	<1	2	32	32	32	1/08/2019
46.00	31.00	2	31	46	38.5	1/08/2019
0.00	250.00	2	0	250	125	1/08/2019
30.00	28.00	2	28	164	96	1/08/2019

Total Phenol (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-19	Aug-18					
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2019
0.00	0.00	2	0	0	0	1/08/2019
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2019
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2019
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2019
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2019
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2019
0.00	0.00	2	<1.0	<1.0	<1.0	1/08/2019
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2019

Tharbogang Borehole Test Results 2018-19

Dissolved Iron (mg/L)

	Test Results						
	Mar-19	Aug-18					
Bore Hole 1	0.12	0.39	2	0.12	0.39	0.255	1/08/2019
Bore Hole 2	0.00	0.00	2	0	0.00	0	1/08/2019
Bore Hole 3	6.56	1.36	2	1.36	6.56	3.96	1/08/2019
Bore Hole 4	2.13	0.85	2	0.85	2.13	1.49	1/08/2019
Bore Hole 5	1.12	3.27	2	1.12	3.27	2.195	1/08/2019
Bore Hole 6	0.58	1.30	2	0.58	1.30	0.94	1/08/2019
Bore Hole 7	0.81	1.42	2	0.81	1.42	1.115	1/08/2019
Leachate dam 1 Pt 9	0.00	0.74	2	0	0.74	0.37	1/08/2019
Sed Pond dam 2 Pt 8	14.00	1.27	2	1.27	14.00	7.635	1/08/2019

Dissolved Manganese (mg/L)

	Test Results						
	Mar-19	Aug-18					
Bore Hole 1	0.018	0.013	2	0.013	0.018	0.0155	1/08/2019
Bore Hole 2	0	0	2	0	0	0	1/08/2019
Bore Hole 3	0.12	0.065	2	0.065	0.12	0.0925	1/08/2019
Bore Hole 4	0.17	0.089	2	0.089	0.17	0.1295	1/08/2019
Bore Hole 5	0.36	0.346	2	0.346	0.36	0.353	1/08/2019
Bore Hole 6	0.044	0.031	2	0.031	0.044	0.0375	1/08/2019
Bore Hole 7	0.253	0.209	2	0.209	0.253	0.231	1/08/2019
Leachate dam 1 Pt 9	0	0.114	2	0	0.114	0.057	1/08/2019
Sed Pond dam 2 Pt 8	0.446	0.149	2	0.149	0.446	0.2975	1/08/2019

Dissolved Calcium (mg/L)

	Test Results						
	Mar-19	Aug-18					
Bore Hole 1	26.00	39.00	2	26	39	32.50	1/08/2019
Bore Hole 2	0.00	0.00	2	0	0	0.00	1/08/2019
Bore Hole 3	10.00	9.00	2	9	10	9.50	1/08/2019
Bore Hole 4	56.00	63.00	2	56	63	59.50	1/08/2019
Bore Hole 5	77.00	89.00	2	77	89	83.00	1/08/2019
Bore Hole 6	38.00	44.00	2	38	44	41.00	1/08/2019
Bore Hole 7	269.00	239.00	2	239	269	254.00	1/08/2019
Leachate dam 1 Pt 9	0.00	16.00	2	0	16	8.00	1/08/2019
Sed Pond dam 2 Pt 8	23.00	26.00	2	23	26	24.50	1/08/2019

Dissolved Magnesium (mg/L)

	Test Results						
	Mar-19	Aug-18					
Bore Hole 1	155.00	180.00	2	155	180	167.5	1/08/2019
Bore Hole 2	0.00	0.00	2	0	0	0	1/08/2019
Bore Hole 3	21.00	18.00	2	18	21	19.5	1/08/2019
Bore Hole 4	140.00	141.00	2	140	141	140.5	1/08/2019
Bore Hole 5	139.00	167.00	2	139	167	153	1/08/2019
Bore Hole 6	102.00	108.00	2	102	108	105	1/08/2019
Bore Hole 7	472.00	418.00	2	418	472	445	1/08/2019
Leachate dam 1 Pt 9	0.00	257.00	2	0	257	128.5	1/08/2019
Sed Pond dam 2 Pt 8	21.00	17.00	2	17	21	19	1/08/2019

Dissolved Potassium (mg/L)

	Test Results						
	Mar-19	Aug-18					
Bore Hole 1	96.00	74.00	2	74	96	85	1/08/2019
Bore Hole 2	0.00	0.00	2	0	0	0	1/08/2019
Bore Hole 3	18.00	12.00	2	12	18	15	1/08/2019
Bore Hole 4	161.00	129.00	2	129	161	145	1/08/2019
Bore Hole 5	66.00	63.00	2	63	66	64.5	1/08/2019
Bore Hole 6	80.00	68.00	2	68	80	74	1/08/2019
Bore Hole 7	188.00	158.00	2	158	188	173	1/08/2019
Leachate dam 1 Pt 9	0.00	1100.00	2	0	1100	550	1/08/2019
Sed Pond dam 2 Pt 8	59.00	26.00	2	26	59	42.5	1/08/2019

Tharbogang Borehole Test Results 2018-19

Dissolved Sodium (mg/L)

	Test Results						
	Mar-19	Aug-18					
Bore Hole 1	1310.00	1190.00	2	1190	1310	1250	1/08/2019
Bore Hole 2	0.00	0.00	2	0	0	0	1/08/2019
Bore Hole 3	398.00	323.00	2	323	398	360.5	1/08/2019
Bore Hole 4	2470.00	2040.00	2	2040	2470	2255	1/08/2019
Bore Hole 5	920.00	924.00	2	920	924	922	1/08/2019
Bore Hole 6	1350.00	1270.00	2	1270	1350	1310	1/08/2019
Bore Hole 7	1150.00	1040.00	2	1040	1150	1095	1/08/2019
Leachate dam 1 Pt 9	0.00	3320.00	2	0	3320	1660	1/08/2019
Sed Pond dam 2 Pt 8	438.00	72.00	2	72	438	255	1/08/2019

Ammonia (as N) (mg/L) N

	Test Results						
	Mar-19	Aug-18					
Bore Hole 1	0.12	15.30	2	0.02	0.12	0.07	1/08/2019
Bore Hole 2	0.00	0.00	2	0	0	0	1/08/2019
Bore Hole 3	9.95	0.63	2	5.91	9.95	7.93	1/08/2019
Bore Hole 4	0.85	5.21	2	0.43	0.85	0.64	1/08/2019
Bore Hole 5	2.87	2.01	2	2.01	2.87	2.44	1/08/2019
Bore Hole 6	0.35	0.44	2	0.35	0.44	0.395	1/08/2019
Bore Hole 7	23.80	#REF!	2	15.3	23.8	19.55	1/08/2019
Leachate dam 1 Pt 9	0.00	#REF!	2	0	5.21	2.605	1/08/2019
Sed Pond dam 2 Pt 8	0.26	#REF!	2	0.26	0.63	0.445	1/08/2019

Total Oxidised Nitrogen (as N) (mg/L)

	Test Results						
	Mar-19	Aug-18					
Bore Hole 1	20.90	7.17	2	7.17	20.9	14.035	1/08/2019
Bore Hole 2	0.00	0.00	2	0	0	0	1/08/2019
Bore Hole 3	0.29	0.24	2	0.24	0.29	0.265	1/08/2019
Bore Hole 4	0.28	0.62	2	0.28	0.62	0.45	1/08/2019
Bore Hole 5	0.81	0.55	2	0.55	0.81	0.68	1/08/2019
Bore Hole 6	1.23	0.60	2	0.6	1.23	0.915	1/08/2019
Bore Hole 7	378.00	447.00	2	378	447	412.5	1/08/2019
Leachate dam 1 Pt 9	0.00	0.56	2	0	0.56	0.28	1/08/2019
Sed Pond dam 2 Pt 8	0.15	0.49	2	0.15	0.69	0.42	1/08/2019

Volatile Organics (ug/L)

	Test Results						
	Mar-19	Aug-18					
Bore Hole 1	<50	<50	2	<50	<50	<50	1/08/2019
Bore Hole 2	0	0	2				1/08/2019
Bore Hole 3	<50	<50	2	<50	<50	<50	1/08/2019
Bore Hole 4	<50	<50	2	<50	<50	<50	1/08/2019
Bore Hole 5	<50	<50	2	<50	<50	<50	1/08/2019
Bore Hole 6	<50	<50	2	<50	<50	<50	1/08/2019
Bore Hole 7	<50	<50	2	<50	<50	<50	1/08/2019
Leachate dam 1 Pt 9	<50	<50	2	<50	<50	<50	1/08/2019
Sed Pond dam 2 Pt 8	<50	<50	2	<50	<50	<50	1/08/2019