

Tharbogang Borehole Test Results 2017-18

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		2017/2018				
Mar-18	Aug-18	COUNT of samples for period	MIN of samples for period	MAX of samples for period	AVERAGE	Publication Date
14	14	2	14	14	14	2/10/2018
0	0	2	0	0	0	2/10/2018
12	14.4	2	12	14.4	13.2	2/10/2018
7	8.3	2	7	8.3	7.65	2/10/2018
19	20	2	19	20	19.5	2/10/2018
17	12	2	12	17	14.5	2/10/2018
20	20.8	2	20	20.8	20.4	2/10/2018
0	0	2	0	0	0	2/10/2018
0	0	2	0	0	0	2/10/2018

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-18	Aug-18					
7.86	8.14	2	7.24	7.26	7.25	2/10/2018
0.00	0.00	2	0	0	0	2/10/2018
7.62	7.75	2	7.01	7.17	7.09	2/10/2018
7.94	8.08	2	7.4	7.42	7.41	2/10/2018
7.72	7.81	2	7.22	7.35	7.285	2/10/2018
8.11	8.38	2	7.85	7.86	7.855	2/10/2018
7.67	8.06	2	7.34	7.57	7.455	2/10/2018
8.98	9.60	2	8.74	8.78	8.76	2/10/2018
8.76	8.71	2	8.85	9.03	8.94	2/10/2018

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-18	Aug-18					
851.00	434.00	2	633	661	661	2/10/2018
0.00	0.00	2	0	0	0	2/10/2018
369.00	282.00	2	331	478	478	2/10/2018
1300.00	1100.00	2	1300	1330	1330	2/10/2018
799.00	844.00	2	894	951	951	2/10/2018
1080.00	1100.00	2	924	934	934	2/10/2018
1300.00	1200.00	2	1100	1100	1100	2/10/2018
2370.00	2310.00	2	3810	12600	12600	2/10/2018
264.00	290.00	2	293	369	369	2/10/2018

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-18	Aug-18					
1.20	1.20	2	0.9	1.1	1.1	2/10/2018
0.00	0.00	2	0	0	0	2/10/2018
0.90	0.90	2	0.8	0.9	0.9	2/10/2018
0.80	0.80	2	0.7	0.8	0.8	2/10/2018
0.80	0.80	2	0.7	0.9	0.9	2/10/2018
0.90	1.00	2	1	1.2	1.2	2/10/2018
0.60	0.60	2	0.7	0.7	0.7	2/10/2018
0.30	0.20	2	0.2	0.2	0.2	2/10/2018
0.50	0.60	2	1	1.3	1.3	2/10/2018

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
Sed Pond dam 2 Pt 8

Test Results						
Mar-18	Aug-18					
1760.00	1800.00	2	1680	1680	1680	2/10/2018
0.00	0.00	2	0	0	0	2/10/2018
363.00	392.00	2	384	384	384	2/10/2018
3200.00	4070.00	2	3820	3820	3820	2/10/2018
1270.00	1150.00	2	1180	1180	1180	2/10/2018
1510.00	1440.00	2	1530	1530	1530	2/10/2018
1100.00	1230.00	2	1310	1360	1360	2/10/2018
7130.00	7750.00	2	14800	81600	81600	2/10/2018
166.00	168.00	2	251	365	365	2/10/2018

Tharbogang Borehole Test Results 2017-18

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-18	Aug-18					
508.00	537.00	2	396	398	398	2/10/2018
0.00	0.00	2	0	0	0	2/10/2018
23.00	28.00	2	8	26	26	2/10/2018
404.00	528.00	2	434	469	469	2/10/2018
130.00	70.00	2	100	107	107	2/10/2018
237.00	176.00	2	238	242	242	2/10/2018
457.00	488.00	2	425	438	438	2/10/2018
1980.00	1620.00	2	1800	15000	15000	2/10/2018
59.00	55.00	2	26	66	66	2/10/2018

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-18	Aug-18					
7590.00	8020.00	2	7150	7290	7290	2/10/2018
0.00	0.00	2	0	0	0	2/10/2018
1730.00	1800.00	2	1860	2040	2040	2/10/2018
11300.00	14100.00	2	12600	13000	13000	2/10/2018
4900.00	5340.00	2	5600	5610	5610	2/10/2018
6640.00	6400.00	2	6950	7080	7080	2/10/2018
12700.00	12300.00	2	9740	9930	9930	2/10/2018
24500.00	26400.00	2	49700	188000	188000	2/10/2018
1040.00	1110.00	2	1290	1770	1770	2/10/2018

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-18	Aug-18					
12.00	20.00	2	0	8	4	2/10/2018
0.00	0.00	2	0	0	0	2/10/2018
98.00	160.00	2	66	66	66	2/10/2018
56.00	81.00	2	18	27	22.5	2/10/2018
9.00	98.00	2	21	22	21.5	2/10/2018
344.00	446.00	2	11	34	22.5	2/10/2018
30.00	156.00	2	22	73	47.5	2/10/2018
38.00	27.00	2	900	1050	975	2/10/2018
16.00	22.00	2	108	380	244	2/10/2018

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-18	Aug-18					
6.00	9.00	2	17	23	20	2/10/2018
0.00	0.00	2	0	0	0	2/10/2018
2.00	2.00	2	27	27	27	2/10/2018
12.00	27.00	2	17	19	18	2/10/2018
23.00	38.00	2	9	15	12	2/10/2018
10.00	10.00	2	7	7	7	2/10/2018
26.00	18.00	2	0	0	0	2/10/2018
316.00	426.00	2	664	6250	3457	2/10/2018
30.00	32.00	2	50	69	59.5	2/10/2018

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-18	Aug-18					
<1.0	<1.0	2	<1.0	<1.0	<1.0	2/10/2018
0.00	0.00	2	0	0	0	2/10/2018
<1.0	<1.0	2	<1.0	<1.0	<1.0	2/10/2018
<1.0	<1.0	2	<1.0	<1.0	<1.0	2/10/2018
<1.0	<1.0	2	<1.0	<1.0	<1.0	2/10/2018
<1.0	<1.0	2	<1.0	<1.0	<1.0	2/10/2018
<1.0	<1.0	2	<1.0	<1.0	<1.0	2/10/2018
0.00	0.00	2	<1.0	<1.0	<1.0	2/10/2018
<1.0	<1.0	2	<1.0	<1.0	<1.0	2/10/2018

Tharbogang Borehole Test Results 2017-18

Dissolved Iron (mg/L)

	Test Results						
	Mar-18	Aug-18					
Bore Hole 1	0.28	0.12	2	0.39	0.87	0.63	2/10/2018
Bore Hole 2	0.00	0.00	2	0	0.00	0	2/10/2018
Bore Hole 3	2.66	2.19	2	0.42	1.32	0.87	2/10/2018
Bore Hole 4	0.34	0.55	2	0.54	0.57	0.555	2/10/2018
Bore Hole 5	0.79	5.75	2	1.52	1.74	1.63	2/10/2018
Bore Hole 6	2.14	3.04	2	0.09	0.58	0.335	2/10/2018
Bore Hole 7	0.42	0.54	2	0.52	1.12	0.82	2/10/2018
Leachate dam 1 Pt 9	0.20	0.25	2	1.57	1.86	1.715	2/10/2018
Sed Pond dam 2 Pt 8	0.64	0.94	2	1.23	1.93	1.58	2/10/2018

Dissolved Manganese (mg/L)

	Test Results						
	Mar-18	Aug-18					
Bore Hole 1	0.008	0.004	2	0.018	0.02	0.019	2/10/2018
Bore Hole 2	0	0	2	0	0	0	2/10/2018
Bore Hole 3	0.071	0.081	2	0.056	0.068	0.062	2/10/2018
Bore Hole 4	0.077	0.132	2	0.065	0.094	0.0795	2/10/2018
Bore Hole 5	0.691	1.55	2	0.468	1.11	0.789	2/10/2018
Bore Hole 6	0.131	0.354	2	0.004	0.019	0.0115	2/10/2018
Bore Hole 7	0.507	0.38	2	0.217	0.228	0.2225	2/10/2018
Leachate dam 1 Pt 9	0.038	0.053	2	0.117	0.191	0.154	2/10/2018
Sed Pond dam 2 Pt 8	0.078	0.031	2	0.159	0.25	0.2045	2/10/2018

Dissolved Calcium (mg/L)

	Test Results						
	Mar-18	Aug-18					
Bore Hole 1	53.00	37.00	2	31	32	31.50	2/10/2018
Bore Hole 2	0.00	0.00	2	0	0	0.00	2/10/2018
Bore Hole 3	11.00	7.00	2	6	8	7.00	2/10/2018
Bore Hole 4	121.00	80.00	2	103	104	103.50	2/10/2018
Bore Hole 5	142.00	103.00	2	96	117	106.50	2/10/2018
Bore Hole 6	76.00	46.00	2	44	58	51.00	2/10/2018
Bore Hole 7	495.00	358.00	2	275	281	278.00	2/10/2018
Leachate dam 1 Pt 9	13.00	13.00	2	23	32	27.50	2/10/2018
Sed Pond dam 2 Pt 8	28.00	25.00	2	14	22	18.00	2/10/2018

Dissolved Magnesium (mg/L)

	Test Results						
	Mar-18	Aug-18					
Bore Hole 1	202.00	185.00	2	158	176	167	2/10/2018
Bore Hole 2	0.00	0.00	2	0	0	0	2/10/2018
Bore Hole 3	18.00	14.00	2	15	16	15.5	2/10/2018
Bore Hole 4	187.00	195.00	2	204	234	219	2/10/2018
Bore Hole 5	154.00	132.00	2	141	164	152.5	2/10/2018
Bore Hole 6	160.00	119.00	2	112	130	121	2/10/2018
Bore Hole 7	706.00	652.00	2	456	473	464.5	2/10/2018
Leachate dam 1 Pt 9	611.00	477.00	2	408	543	475.5	2/10/2018
Sed Pond dam 2 Pt 8	32.00	27.00	2	26	37	31.5	2/10/2018

Dissolved Potassium (mg/L)

	Test Results						
	Mar-18	Aug-18					
Bore Hole 1	66.00	72.00	2	77	98	87.5	2/10/2018
Bore Hole 2	0.00	0.00	2	0	0	0	2/10/2018
Bore Hole 3	11.00	9.00	2	10	14	12	2/10/2018
Bore Hole 4	115.00	144.00	2	130	187	158.5	2/10/2018
Bore Hole 5	45.00	46.00	2	48	64	56	2/10/2018
Bore Hole 6	65.00	58.00	2	64	71	67.5	2/10/2018
Bore Hole 7	212.00	185.00	2	168	176	172	2/10/2018
Leachate dam 1 Pt 9	1410.00	1330.00	2	2790	12400	7595	2/10/2018
Sed Pond dam 2 Pt 8	38.00	32.00	2	41	47	44	2/10/2018

Tharbogang Borehole Test Results 2017-18

Dissolved Sodium (mg/L)

	Test Results						
	Mar-18	Aug-18					
Bore Hole 1	1290.00	1320.00	2	1140	1330	1235	2/10/2018
Bore Hole 2	0.00	0.00	2	0	0	0	2/10/2018
Bore Hole 3	349.00	336.00	2	308	317	312.5	2/10/2018
Bore Hole 4	2300.00	2530.00	2	2280	2970	2625	2/10/2018
Bore Hole 5	655.00	655.00	2	681	899	790	2/10/2018
Bore Hole 6	1230.00	1060.00	2	1170	1200	1185	2/10/2018
Bore Hole 7	1320.00	1150.00	2	1030	1080	1055	2/10/2018
Leachate dam 1 Pt 9	5140.00	4640.00	2	9090	47700	28395	2/10/2018
Sed Pond dam 2 Pt 8	136.00	131.00	2	186	243	214.5	2/10/2018

Ammonia (as N) (mg/L) N

	Test Results						
	Mar-18	Aug-18					
Bore Hole 1	0.04	<.01	2	0.03	0.07	0.05	2/10/2018
Bore Hole 2	0.00	0.00	2	0	0	0	2/10/2018
Bore Hole 3	3.58	0.93	2	0.36	38.2	19.28	2/10/2018
Bore Hole 4	0.72	0.14	2	0.33	0.48	0.405	2/10/2018
Bore Hole 5	0.73	41.70	2	6.69	16.4	11.545	2/10/2018
Bore Hole 6	2.21	0.70	2	0.03	0.07	0.05	2/10/2018
Bore Hole 7	75.60	55.60	2	23	28.6	25.8	2/10/2018
Leachate dam 1 Pt 9	3.32	9.22	2	4.52	34.5	19.51	2/10/2018
Sed Pond dam 2 Pt 8	0.03	0.47	2	0.07	0.18	0.125	2/10/2018

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

	Test Results						
	Mar-18	Aug-18					
Bore Hole 1	9.01	11.90	2	23.4	25.5	24.45	2/10/2018
Bore Hole 2	0.00	0.00	2	0	0	0	2/10/2018
Bore Hole 3	0.01	1.18	2	0.01	0.87	0.44	2/10/2018
Bore Hole 4	0.88	0.40	2	0.37	0.64	0.505	2/10/2018
Bore Hole 5	0.59	0.03	2	0.02	1.49	0.755	2/10/2018
Bore Hole 6	0.14	0.12	2	0.92	0.97	0.945	2/10/2018
Bore Hole 7	1040.00	957.00	2	576	791	683.5	2/10/2018
Leachate dam 1 Pt 9	0.54	0.07	2	0.05	0.05	0.05	2/10/2018
Sed Pond dam 2 Pt 8	<.01	0.49	2	0.17	0.17	0.17	2/10/2018

Volatile Organics (ug/L)

	Test Results						
	Mar-18	Aug-18					
Bore Hole 1	<50	<50	2	<50	<50	<50	2/10/2018
Bore Hole 2	0	0	2				2/10/2018
Bore Hole 3	<50	<50	2	<50	<50	<50	2/10/2018
Bore Hole 4	<50	<50	2	<50	<50	<50	2/10/2018
Bore Hole 5	<50	<50	2	<50	<50	<50	2/10/2018
Bore Hole 6	<50	<50	2	<50	<50	<50	2/10/2018
Bore Hole 7	<50	<50	2	<50	<50	<50	2/10/2018
Leachate dam 1 Pt 9	<50	<50	2	<50	<50	<50	2/10/2018
Sed Pond dam 2 Pt 8	<50	<50	2	<50	<50	<50	2/10/2018