

## Tharbogang Borehole Test Results 2019-20

### 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 Result		2019/2020				
		Frequency require by EPL sample for period	MIN of samples for period	MAX of samples for period	AVERAGE	Publication Date
Mar-20	Sep-20					
14.9	14.59	2	14.59	14.9	14.745	1/08/2020
0	0	2	0	0	0	1/08/2020
15.6	14.56	2	14.56	15.6	15.08	1/08/2020
20.4	7.25	2	7.25	20.4	13.825	1/08/2020
18.4	19.25	2	18.4	19.25	18.825	1/08/2020
9.5	18.26	2	9.5	18.26	13.88	1/08/2020
20.5	20.74	2	20.5	20.74	20.62	1/08/2020
0	0	2	0	0	0	1/08/2020
0	0	2	0	0	0	1/08/2020

### 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-20	Sep-20					
8.26	7.66	2	7.66	8.26	7.96	1/08/2020
0.00	0.00	2	0	0	0	1/08/2020
8.29	7.39	2	7.39	8.29	7.84	1/08/2020
8.44	7.51	2	7.51	8.44	7.975	1/08/2020
8.33	7.37	2	7.37	8.33	7.85	1/08/2020
8.64	8.04	2	8.04	8.64	8.34	1/08/2020
8.25	7.46	2	7.46	8.25	7.855	1/08/2020
8.64	8.20	2	8.2	8.64	8.42	1/08/2020
8.36	8.42	2	8.36	8.42	8.39	1/08/2020

### 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-20	Sep-20					
796.00	925.00	2	796	925	925	1/08/2020
0.00	0.00	2	0	0	0	1/08/2020
317.00	312.00	2	312	317	317	1/08/2020
1140.00	1340.00	2	1140	1340	1340	1/08/2020
890.00	882.00	2	882	890	890	1/08/2020
821.00	963.00	2	821	963	963	1/08/2020
765.00	838.00	2	765	838	838	1/08/2020
119.00	375.00	2	119	375	375	1/08/2020
139.00	164.00	2	139	164	164	1/08/2020

### 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-20	Aug-18					
1.20	1.30	2	1.2	1.3	1.3	1/08/2020
0.00	0.00	2	0	0	0	1/08/2020
0.80	0.80	2	0.8	0.8	0.8	1/08/2020
0.80	0.80	2	0.8	0.8	0.8	1/08/2020
1.00	0.90	2	0.9	1	1	1/08/2020
1.30	1.30	2	1.3	1.3	1.3	1/08/2020
0.70	0.80	2	0.7	0.8	0.8	1/08/2020
0.50	0.40	2	0.4	0.5	0.5	1/08/2020
0.40	0.40	2	0.4	0.4	0.4	1/08/2020

### 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-20	Aug-18					
1990.00	1720.00	2	1990	2420	2420	1/08/2020
0.00	0.00	2	0	0	0	1/08/2020
433.00	438.00	2	433	450	450	1/08/2020
3780.00	3290.00	2	3780	4030	4030	1/08/2020
1600.00	1480.00	2	1600	1770	1770	1/08/2020
1950.00	1740.00	2	1920	1950	1950	1/08/2020
1260.00	1350.00	2	1240	1260	1260	1/08/2020
408.00	6010.00	2	363	408	408	1/08/2020

### **Tharbogang Borehole Test Results 2019-20**

Sed Pond dam 2 Pt 8

24.00	73.00	2	24	44	44	1/08/2020
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## Tharbogang Borehole Test Results 2019-20

### Sulphate (mg/L) SO<sub>4</sub>

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-20	Aug-18					
326.00	569.00	2	523	569	569	1/08/2020
0.00	0.00	2	0	0	0	1/08/2020
14.00	32.00	2	23	32	32	1/08/2020
1110.00	565.00	2	447	565	565	1/08/2020
0.00	192.00	2	162	192	192	1/08/2020
289.00	295.00	2	289	295	295	1/08/2020
#REF!	303.00	2	303	326	326	1/08/2020
#REF!	35.00	2	35	65	65	1/08/2020
#REF!	17.00	2	14	17	17	1/08/2020

### 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-20	Aug-18					
8490.00	9530.00	2	8490	9530	9530	1/08/2020
0.00	0.00	2	0	0	0	1/08/2020
1970.00	1900.00	2	1900	1970	1970	1/08/2020
13000.00	13800.00	2	13000	13800	13800	1/08/2020
6660.00	6620.00	2	6620	6660	6660	1/08/2020
7980.00	7440.00	2	7440	7980	7980	1/08/2020
8860.00	7620.00	2	7620	8860	8860	1/08/2020
1640.00	1740.00	2	1640	1740	1740	1/08/2020
399.00	463.00	2	399	463	463	1/08/2020

### 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-20	Aug-18					
79.00	189.00	2	79	189	134	1/08/2020
0.00	0.00	2	0	0	0	1/08/2020
21.00	108.00	2	21	108	64.5	1/08/2020
30.00	<5	2	30	30	30	1/08/2020
18.00	18.00	2	18	18	18	1/08/2020
49.00	65.00	2	49	65	57	1/08/2020
616.00	80.00	2	80	616	348	1/08/2020
8.00	8.00	2	8	8	8	1/08/2020
10.00	<5	2	7	10	8.5	1/08/2020

### 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-20	Aug-18					
<1	17.00	2	17	17	17	1/08/2020
0.00	0.00	2	0	0	0	1/08/2020
<1	1.00	2	1	1	1	1/08/2020
27.00	31.00	2	27	31	29	1/08/2020
48.00	32.00	2	32	48	40	1/08/2020
15.00	<1	2	6	15	10.5	1/08/2020
13.00	16.00	2	13	16	14.5	1/08/2020
11.00	31.00	2	11	31	21	1/08/2020
6.00	12.00	2	6	12	9	1/08/2020

### 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-20	Aug-18					
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2020
0.00	0.00	2	0	0	0	1/08/2020
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2020
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2020
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2020
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2020
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2020
0.00	0.00	2	<1.0	<1.0	<1.0	1/08/2020
<1.0	<1.0	2	<1.0	<1.0	<1.0	1/08/2020

## Tharbogang Borehole Test Results 2019-20

### Dissolved Iron (mg/L)

	Test Results						
	Mar-20	Aug-18					
Bore Hole 1	0.45	3.14	2	0.45	3.14	1.795	1/08/2020
Bore Hole 2	0.00	0.00	2	0	0.00	0	1/08/2020
Bore Hole 3	1.58	4.28	2	1.58	4.28	2.93	1/08/2020
Bore Hole 4	0.96	0.44	2	0.44	0.96	0.7	1/08/2020
Bore Hole 5	1.82	1.24	2	1.24	1.82	1.53	1/08/2020
Bore Hole 6	1.45	2.82	2	1.45	2.82	2.135	1/08/2020
Bore Hole 7	6.14	1.43	2	1.43	6.14	3.785	1/08/2020
Leachate dam 1 Pt 9	0.39	0.72	2	0.39	0.72	0.555	1/08/2020
Sed Pond dam 2 Pt 8	0.60	0.31	2	0.31	0.60	0.455	1/08/2020

### Dissolved Manganese (mg/L)

	Test Results						
	Mar-20	Aug-18					
Bore Hole 1	0.016	0.056	2	0.016	0.056	0.036	1/08/2020
Bore Hole 2	0	0	2	0	0	0	1/08/2020
Bore Hole 3	0.064	0.061	2	0.061	0.064	0.0625	1/08/2020
Bore Hole 4	0.191	0.035	2	0.035	0.191	0.113	1/08/2020
Bore Hole 5	0.328	0.242	2	0.242	0.328	0.285	1/08/2020
Bore Hole 6	0.018	0.034	2	0.018	0.034	0.026	1/08/2020
Bore Hole 7	0.22	0.178	2	0.178	0.22	0.199	1/08/2020
Leachate dam 1 Pt 9	0.01	0.16	2	0.01	0.16	0.085	1/08/2020
Sed Pond dam 2 Pt 8	0.046	0.015	2	0.015	0.046	0.0305	1/08/2020

### Dissolved Calcium (mg/L)

	Test Results						
	Mar-20	Aug-18					
Bore Hole 1	44.00	37.00	2	37	44	40.50	1/08/2020
Bore Hole 2	0.00	0.00	2	0	0	0.00	1/08/2020
Bore Hole 3	7.00	7.00	2	7	7	7.00	1/08/2020
Bore Hole 4	77.00	91.00	2	77	91	84.00	1/08/2020
Bore Hole 5	101.00	92.00	2	92	101	96.50	1/08/2020
Bore Hole 6	51.00	34.00	2	34	51	42.50	1/08/2020
Bore Hole 7	199.00	176.00	2	176	199	187.50	1/08/2020
Leachate dam 1 Pt 9	16.00	32.00	2	16	32	24.00	1/08/2020
Sed Pond dam 2 Pt 8	18.00	18.00	2	18	18	18.00	1/08/2020

### Dissolved Magnesium (mg/L)

	Test Results						
	Mar-20	Aug-18					
Bore Hole 1	207.00	204.00	2	204	207	205.5	1/08/2020
Bore Hole 2	0.00	0.00	2	0	0	0	1/08/2020
Bore Hole 3	16.00	15.00	2	15	16	15.5	1/08/2020
Bore Hole 4	189.00	228.00	2	189	228	208.5	1/08/2020
Bore Hole 5	182.00	178.00	2	178	182	180	1/08/2020
Bore Hole 6	121.00	91.00	2	91	121	106	1/08/2020
Bore Hole 7	356.00	296.00	2	296	356	326	1/08/2020
Leachate dam 1 Pt 9	16.00	29.00	2	16	29	22.5	1/08/2020
Sed Pond dam 2 Pt 8	9.00	112.00	2	9	112	60.5	1/08/2020

### Dissolved Potassium (mg/L)

	Test Results						
	Mar-20	Aug-18					
Bore Hole 1	83.00	102.00	2	83	102	92.5	1/08/2020
Bore Hole 2	0.00	0.00	2	0	0	0	1/08/2020
Bore Hole 3	12.00	12.00	2	12	12	12	1/08/2020
Bore Hole 4	151.00	141.00	2	141	151	146	1/08/2020
Bore Hole 5	62.00	67.00	2	62	67	64.5	1/08/2020
Bore Hole 6	71.00	68.00	2	68	71	69.5	1/08/2020
Bore Hole 7	170.00	137.00	2	137	170	153.5	1/08/2020
Leachate dam 1 Pt 9	56.00	59.00	2	56	59	57.5	1/08/2020
Sed Pond dam 2 Pt 8	17.00	16.00	2	16	17	16.5	1/08/2020

## Tharbogang Borehole Test Results 2019-20

### Dissolved Sodium (mg/L)

	Test Results						
	Mar-20	Aug-18					
Bore Hole 1	1260.00	1500.00	2	1260	1500	1380	1/08/2020
Bore Hole 2	0.00	0.00	2	0	0	0	1/08/2020
Bore Hole 3	326.00	31.00	2	31	326	178.5	1/08/2020
Bore Hole 4	2360.00	2380.00	2	2360	2380	2370	1/08/2020
Bore Hole 5	895.00	972.00	2	895	972	933.5	1/08/2020
Bore Hole 6	1300.00	1280.00	2	1280	1300	1290	1/08/2020
Bore Hole 7	966.00	935.00	2	935	966	950.5	1/08/2020
Leachate dam 1 Pt 9	225.00	206.00	2	206	225	215.5	1/08/2020
Sed Pond dam 2 Pt 8	39.00	41.00	2	39	41	40	1/08/2020

### Ammonia (as N) (mg/L) N

	Test Results						
	Mar-20	Aug-18					
Bore Hole 1	0.11	0.03	2	0.05	0.11	0.08	1/08/2020
Bore Hole 2	0.00	6.81	2	0	0	0	1/08/2020
Bore Hole 3	0.90	7.03	2	0.9	1.41	1.155	1/08/2020
Bore Hole 4	0.05	0.21	2	0.04	0.05	0.045	1/08/2020
Bore Hole 5	1.81	0.00	2	1.36	1.81	1.585	1/08/2020
Bore Hole 6	0.05	44075.00	2	0.03	0.05	0.04	1/08/2020
Bore Hole 7	8.78	31.80	2	6.81	8.78	7.795	1/08/2020
Leachate dam 1 Pt 9	0.25	0.00	2	0.25	7.03	3.64	1/08/2020
Sed Pond dam 2 Pt 8	0.06	0.43	2	0.06	0.09	0.075	1/08/2020

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

	Test Results						
	Mar-20	Aug-18					
Bore Hole 1	13.40	31.80	2	13.4	31.8	22.6	1/08/2020
Bore Hole 2	0.00	0.00	2	0	0	0	1/08/2020
Bore Hole 3	0.06	0.43	2	0.06	0.43	0.245	1/08/2020
Bore Hole 4	0.10	0.50	2	0.1	0.5	0.3	1/08/2020
Bore Hole 5	0.48	2.49	2	0.48	2.49	1.485	1/08/2020
Bore Hole 6	1.90	1.29	2	1.29	1.9	1.595	1/08/2020
Bore Hole 7	472.00	338.00	2	338	472	405	1/08/2020
Leachate dam 1 Pt 9	7.31	1.10	2	1.1	7.31	4.205	1/08/2020
Sed Pond dam 2 Pt 8	0.03	0.18	2	0.03	0.18	0.105	1/08/2020

### Volatile Organics (ug/L)

	Test Results						
	Mar-20	Aug-18					
Bore Hole 1	<50	<50	2	<50	<50	<50	1/08/2020
Bore Hole 2	0	0	2				1/08/2020
Bore Hole 3	<50	<50	2	<50	<50	<50	1/08/2020
Bore Hole 4	<50	<50	2	<50	<50	<50	1/08/2020
Bore Hole 5	<50	<50	2	<50	<50	<50	1/08/2020
Bore Hole 6	<50	<50	2	<50	<50	<50	1/08/2020
Bore Hole 7	<50	<50	2	<50	<50	<50	1/08/2020
Leachate dam 1 Pt 9	<50	<50	2	<50	<50	<50	1/08/2020
Sed Pond dam 2 Pt 8	<50	<50	2	<50	<50	<50	1/08/2020