

## Tharbogang Borehole Test Results 2020-2021

### Depth (m)

	Test Results		2020/2021			
	Mar-21	Sep-21	Frequency require by EPL sample for period	MIN of samples for period	MAX of samples for period	AVERAGE
Bore Hole 1	10.45	14.59	2	10.45	14.59	12.52
Bore Hole 2	0	14.56	2	0	0	0
Bore Hole 3	14.56	19.25	2	14.56	14.56	14.56
Bore Hole 4	7.25	7.25	2	7.25	19.25	13.25
Bore Hole 5	20	18.26	2	7.25	20	13.625
Bore Hole 6	18	20.74	2	18	18.26	18.13
Bore Hole 7	20.87	20.74	2	20.74	20.87	20.805
Leachate dam 1 Pt 9	0	0	2	0	0	0
Sed Pond dam 2 Pt 8	0	0	2	0	0	0

### pH

	Test Results					
	Mar-21	Sep-21				
Bore Hole 1	7.87	7.39	2	7.8	7.87	7.835
Bore Hole 2	0.00	0.00	2	0	0	0
Bore Hole 3	7.72	7.74	2	7.39	7.72	7.555
Bore Hole 4	7.92	7.52	2	7.74	7.92	7.83
Bore Hole 5	7.77	8.26	2	7.52	7.77	7.645
Bore Hole 6	8.36	7.69	2	8.26	8.36	8.31
Bore Hole 7	7.89	7.69	2	7.69	7.89	7.79
Leachate dam 1 Pt 9	9.83	9.71	2	9.71	9.83	9.77
Sed Pond dam 2 Pt 8	9.31	8.81	2	8.81	9.31	9.06

### Alkalinity (mg/L)

	Test Results					
	Mar-21	Sep-21				
Bore Hole 1	850.00	771.00	2	771	850	850
Bore Hole 2	0.00	0.00	2	0	0	0
Bore Hole 3	344.00	348.00	2	344	348	348
Bore Hole 4	1300.00	1310.00	2	1300	1310	1310
Bore Hole 5	803.00	970.00	2	803	970	970
Bore Hole 6	948.00	940.00	2	940	948	948
Bore Hole 7	865.00	869.00	2	865	869	869
Leachate dam 1 Pt 9	516.00	136.00	2	136	516	516
Sed Pond dam 2 Pt 8	162.00	835.00	2	162	835	835

### Fluoride (mg/L)

	Test Results					
	Mar-21	Aug-18				
Bore Hole 1	1.30	<0.1	2	1.3	1.3	1.3
Bore Hole 2	0.00	0.00	2	0	0	0
Bore Hole 3	0.90	0.80	2	0.8	0.9	0.9
Bore Hole 4	0.80	0.90	2	0.8	0.9	0.9
Bore Hole 5	0.80	1.00	2	0.8	1	1
Bore Hole 6	1.30	1.50	2	1.3	1.5	1.5
Bore Hole 7	0.90	0.90	2	0.9	0.9	0.9
Leachate dam 1 Pt 9	0.70	0.40	2	0.4	0.7	0.7
Sed Pond dam 2 Pt 8	0.80	0.60	2	0.6	0.8	0.8

### Chloride (mg/L)

	Test Results					
	Mar-21	Aug-18				
Bore Hole 1	1890.00	1720.00	2	1760	1890	1890
Bore Hole 2	0.00	0.00	2	0	0	0
Bore Hole 3	434.00	438.00	2	434	440	440
Bore Hole 4	4210.00	3290.00	2	4210	4320	4320
Bore Hole 5	1510.00	1480.00	2	1510	1700	1700
Bore Hole 6	1850.00	1740.00	2	1750	1850	1850
Bore Hole 7	1230.00	1350.00	2	1230	1240	1240
Leachate dam 1 Pt 9	908.00	6010.00	2	849	908	908
Sed Pond dam 2 Pt 8	79.00	73.00	2	68	79	79

## Tharbogang Borehole Test Results 2020-2021

### 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-21	Aug-18					
323.00	482.00	2	482	560	560	28/10/2021
0.00	0.00	2	0	0	0	28/10/2021
12.00	27.00	2	27	29	29	28/10/2021
0.00	578.00	2	578	618	618	28/10/2021
0.00	174.00	2	174	186	186	28/10/2021
321.00	272.00	2	272	321	321	28/10/2021
323.00	305.00	2	305	323	323	28/10/2021
30.00	<1	2	30	30	30	28/10/2021
12.00	5.00	2	5	12	12	28/10/2021

### 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-21	Aug-18					
8080.00	7420.00	2	7420	8080	8080	28/10/2021
0.00	0.00	2	0	0	0	28/10/2021
1750.00	2080.00	2	1750	2080	2080	28/10/2021
15900.00	15900.00	2	15900	15900	15900	28/10/2021
5950.00	7760.00	2	5950	7760	7760	28/10/2021
7550.00	8270.00	2	7550	8270	8270	28/10/2021
832.00	9240.00	2	832	9240	9240	28/10/2021
3710.00	4430.00	2	3710	4430	4430	28/10/2021
553.00	396.00	2	396	553	553	28/10/2021

### 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-21	Aug-18					
39.00	173.00	2	39	173	106	28/10/2021
0.00	0.00	2	0	0	0	28/10/2021
<5	2080.00	2	73	73	73	28/10/2021
20.00	8.00	2	8	20	14	28/10/2021
<5	58.00	2	58	58	58	28/10/2021
31.00	1200.00	2	31	1200	615.5	28/10/2021
62.00	48.00	2	48	62	55	28/10/2021
171.00	221.00	2	171	221	196	28/10/2021
10.00	<5	2	8	10	9	28/10/2021

### 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-21	Aug-18					
5.00	16.00	2	5	16	10.5	28/10/2021
0.00	0.00	2	0	0	0	28/10/2021
<1	2.00	2	2	2	2	28/10/2021
17.00	31.00	2	17	31	24	28/10/2021
38.00	43.00	2	38	43	40.5	28/10/2021
2.00	<1	2	2	11	6.5	28/10/2021
1.00	28.00	2	1	28	14.5	28/10/2021
85.00	192.00	2	85	192	138.5	28/10/2021
27.00	24.00	2	24	27	25.5	28/10/2021

### 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-21	Aug-18					
<1.0	<1.0	2	<1.0	<1.0	<1.0	28/10/2021
0.00	0.00	2	0	0	0	28/10/2021
<1.0	<1.0	2	<1.0	<1.0	<1.0	28/10/2021
<1.0	<1.0	2	<1.0	<1.0	<1.0	28/10/2021
<1.0	<1.0	2	<1.0	<1.0	<1.0	28/10/2021
<1.0	<1.0	2	<1.0	<1.0	<1.0	28/10/2021
0.00	0.00	2	<1.0	<1.0	<1.0	28/10/2021
<1.0	<1.0	2	<1.0	<1.0	<1.0	28/10/2021

## Tharbogang Borehole Test Results 2020-2021

### Dissolved Iron (mg/L)

	Test Results						
	Mar-21	Aug-18					
Bore Hole 1	0.33	4.65	2	0.33	4.65	2.49	28/10/2021
Bore Hole 2	0.00	0.00	2	0	0.00	0	28/10/2021
Bore Hole 3	0.46	3.32	2	0.46	3.32	1.89	28/10/2021
Bore Hole 4	1.35	1.44	2	1.35	1.44	1.395	28/10/2021
Bore Hole 5	2.05	1.88	2	1.88	2.05	1.965	28/10/2021
Bore Hole 6	2.51	5.18	2	2.51	5.18	3.845	28/10/2021
Bore Hole 7	0.59	0.60	2	0.59	0.60	0.595	28/10/2021
Leachate dam 1 Pt 9	1.78	1.43	2	1.43	1.78	1.605	28/10/2021
Sed Pond dam 2 Pt 8	0.68	0.27	2	0.27	0.68	0.475	28/10/2021

### Dissolved Manganese (mg/L)

	Test Results						
	Mar-21	Aug-18					
Bore Hole 1	208	0.145	2	0.004	0.145	0.0745	28/10/2021
Bore Hole 2	0.00	0.00	2	0	0	0	28/10/2021
Bore Hole 3	19	0.036	2	0.036	0.052	0.044	28/10/2021
Bore Hole 4	266	0.345	2	0.345	0.356	0.3505	28/10/2021
Bore Hole 5	183	0.302	2	0.3	0.302	0.301	28/10/2021
Bore Hole 6	119	0.043	2	0.033	0.043	0.038	28/10/2021
Bore Hole 7	329	0.175	2	0.166	0.175	0.1705	28/10/2021
Leachate dam 1 Pt 9	36	71.00	2	0.046	1.22	0.633	28/10/2021
Sed Pond dam 2 Pt 8	0.034	0.02	2	0.022	0.034	0.028	28/10/2021

### Dissolved Calcium (mg/L)

	Test Results						
	Mar-21	Aug-18					
Bore Hole 1	46.00	42.00	2	42	46	44.00	28/10/2021
Bore Hole 2	0.00	0.00	2	0	0	0.00	28/10/2021
Bore Hole 3	10.00	7.00	2	7	10	8.50	28/10/2021
Bore Hole 4	111.00	115.00	2	111	115	113.00	28/10/2021
Bore Hole 5	110.00	117.00	2	110	117	113.50	28/10/2021
Bore Hole 6	48.00	60.00	2	48	60	54.00	28/10/2021
Bore Hole 7	207.00	219.00	2	207	219	213.00	28/10/2021
Leachate dam 1 Pt 9	9.00	1.22	2	9	21	15.00	28/10/2021
Sed Pond dam 2 Pt 8	6.00	0.02	2	6	7	6.50	28/10/2021

### Dissolved Magnesium (mg/L)

	Test Results						
	Mar-21	Aug-18					
Bore Hole 1	208.00	186.00	2	186	208	197	28/10/2021
Bore Hole 2	0.00	0.00	2	0	0	0	28/10/2021
Bore Hole 3	19.00	16.00	2	16	19	17.5	28/10/2021
Bore Hole 4	266.00	263.00	2	263	266	264.5	28/10/2021
Bore Hole 5	183.00	194.00	2	183	194	188.5	28/10/2021
Bore Hole 6	119.00	120.00	2	119	120	119.5	28/10/2021
Bore Hole 7	329.00	324.00	2	324	329	326.5	28/10/2021
Leachate dam 1 Pt 9	36.00	71.00	2	36	71	53.5	28/10/2021
Sed Pond dam 2 Pt 8	10.00	9.00	2	9	10	9.5	28/10/2021

### Dissolved Potassium (mg/L)

	Test Results						
	Mar-21	Aug-18					
Bore Hole 1	85.00	85.00	2	85	85	85	28/10/2021
Bore Hole 2	0.00	0.00	2	0	0	0	28/10/2021
Bore Hole 3	11.00	11.00	2	11	11	11	28/10/2021
Bore Hole 4	155.00	159.00	2	155	159	157	28/10/2021
Bore Hole 5	63.00	72.00	2	63	72	67.5	28/10/2021
Bore Hole 6	72.00	75.00	2	72	75	73.5	28/10/2021
Bore Hole 7	138.00	144.00	2	138	144	141	28/10/2021
Leachate dam 1 Pt 9	178.00	213.00	2	178	213	195.5	28/10/2021
Sed Pond dam 2 Pt 8	24.00	23.00	2	23	24	23.5	28/10/2021

## Tharbogang Borehole Test Results 2020-2021

### Dissolved Sodium (mg/L)

	Test Results						
	Mar-21	Aug-18					
Bore Hole 1	1290.00	1180.00	2	1180	1290	1235	28/10/2021
Bore Hole 2	0.00	0.00	2	0	0	0	28/10/2021
Bore Hole 3	327.00	312.00	2	312	327	319.5	28/10/2021
Bore Hole 4	2470.00	2350.00	2	2350	2470	2410	28/10/2021
Bore Hole 5	855.00	935.00	2	855	935	895	28/10/2021
Bore Hole 6	1310.00	1260.00	2	1260	1310	1285	28/10/2021
Bore Hole 7	939.00	949.00	2	939	949	944	28/10/2021
Leachate dam 1 Pt 9	555.00	508.00	2	508	555	531.5	28/10/2021
Sed Pond dam 2 Pt 8	82.00	68.00	2	68	82	75	28/10/2021

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

	Test Results						
	Mar-21	Aug-18					
Bore Hole 1	0.01	0.07	2	0.01	0.08	0.045	28/10/2021
Bore Hole 2	0.00	9.94	2	0	0	0	28/10/2021
Bore Hole 3	0.43	0.09	2	0.09	0.43	0.26	28/10/2021
Bore Hole 4	0.02	0.03	2	0.02	0.26	0.14	28/10/2021
Bore Hole 5	1.36	0.00	2	1.36	1.85	1.605	28/10/2021
Bore Hole 6	0.02	0.07	2	0.02	0.07	0.045	28/10/2021
Bore Hole 7	5.09	19.50	2	5.09	9.94	7.515	28/10/2021
Leachate dam 1 Pt 9	0.09	0.00	2	0.09	19.4	9.745	28/10/2021
Sed Pond dam 2 Pt 8	0.04	0.53	2	0.03	0.04	0.035	28/10/2021

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

	Test Results						
	Mar-21	Aug-18					
Bore Hole 1	15.00	19.50	2	15	19.5	17.25	28/10/2021
Bore Hole 2	0.00	0.00	2	0	0	0	28/10/2021
Bore Hole 3	0.21	0.53	2	0.21	0.53	0.37	28/10/2021
Bore Hole 4	0.19	0.19	2	0.19	0.19	0.19	28/10/2021
Bore Hole 5	0.03	0.36	2	0.03	0.36	0.195	28/10/2021
Bore Hole 6	1.15	2.86	2	1.15	2.86	2.005	28/10/2021
Bore Hole 7	379.00	361.00	2	361	379	370	28/10/2021
Leachate dam 1 Pt 9	0.03	0.19	2	0.03	0.19	0.11	28/10/2021
Sed Pond dam 2 Pt 8	0.08	0.53	2	0.08	0.53	0.305	28/10/2021

### Volatile Organics (ug/L)

	Test Results						
	Mar-21	Aug-18					
Bore Hole 1	<50	<50	2	<50	<50	<50	28/10/2021
Bore Hole 2	0	0	2				28/10/2021
Bore Hole 3	<50	<50	2	<50	<50	<50	28/10/2021
Bore Hole 4	<50	<50	2	<50	<50	<50	28/10/2021
Bore Hole 5	<50	<50	2	<50	<50	<50	28/10/2021
Bore Hole 6	<50	<50	2	<50	<50	<50	28/10/2021
Bore Hole 7	<50	<50	2	<50	<50	<50	28/10/2021
Leachate dam 1 Pt 9	<50	<50	2	<50	<50	<50	28/10/2021
Sed Pond dam 2 Pt 8	<50	<50	2	<50	<50	<50	28/10/2021