

Well	Date	Dip to leachate (m)	Leachate head (m)	Leachate level (mAOD)	Data Comments
TIR HWM4	26/10/2020	10.35	3.36	10.56	
TIR HWM4	10/11/2020	10.84	2.87	10.07	
TIR HWM4	17/11/2020	10.3	3.41	10.61	
TIR HWM4	27/11/2020	10.41	3.3	10.5	
TIR HWM4	15/12/2020	10.38	3.33	10.53	
TIR HWM5	26/10/2020	8.33	1.34	13.59	
TIR HWM5	10/11/2020	8	1.67	13.92	
TIR HWM5	17/11/2020	8.17	1.5	13.75	
TIR HWM5	27/11/2020	8.03	1.64	13.89	
TIR HWM5	15/12/2020	8.01	1.66	13.91	
TIR HWM6A	26/10/2020	10	0.7	10.28	
TIR HWM6A	10/11/2020	10.12	0.58	10.16	
TIR HWM6A	17/11/2020	8.2	2.5	12.08	
TIR HWM6A	27/11/2020	7.95	2.75	12.33	
TIR HWM6A	15/12/2020	7.54	3.16	12.74	
TIR HWM7	26/10/2020	8.37	0.47	12.48	
TIR HWM7	10/11/2020	8.25	0.59	12.6	
TIR HWM7	17/11/2020	8.15	0.69	12.7	
TIR HWM7	27/11/2020	7.95	1.1	12.9	
TIR HWM7	15/12/2020	7.91	1.14	12.94	
TIR HWM8	26/10/2020	7.54	3.83	11.97	
TIR HWM8	10/11/2020	7.46	3.91	12.05	
TIR HWM8	17/11/2020	7.5	3.87	12.01	
TIR HWM8	27/11/2020	7.54	3.83	11.97	
TIR HWM8	15/12/2020	7.52	3.85	11.99	
TIR HWM9A	26/10/2020	9.78	2.87	11.67	
TIR HWM9A	10/11/2020	9	3.65	12.45	
TIR HWM9A	17/11/2020	8.54	4.11	12.91	
TIR HWM9A	27/11/2020	9.02	3.63	12.43	
TIR HWM9A	15/12/2020	9	3.65	12.45	
TIR HWM10	26/10/2020				Blocked
TIR HWM10	10/11/2020	8.13	0.67	12.28	
TIR HWM10	17/11/2020	8.13	0.67	12.28	
TIR HWM10	27/11/2020	8.13	0.67	12.28	
TIR HWM10	15/12/2020	8.16	0.64	12.25	
TIR HWM11	26/10/2020	8.56	2.31	11.93	
TIR HWM11	10/11/2020	8.69	2.18	11.8	
TIR HWM11	17/11/2020	8.82	2.05	11.67	
TIR HWM11	27/11/2020	8.86	2.01	11.63	
TIR HWM11	15/12/2020	8.26	2.61	12.23	
TIR HWM12	26/10/2020	8.56	1.4	10.97	
TIR HWM12	10/11/2020	8.57	1.39	10.96	
TIR HWM12	17/11/2020	8.2	7.76	17.33	
TIR HWM12	27/11/2020	8.57	1.39	10.96	
TIR HWM12	15/12/2020	5.46	4.5	14.07	
TIR HWM13	26/10/2020	8.75	0.27	10.39	
TIR HWM13	10/11/2020	8.67	0.35	10.47	

TIR HWM13	17/11/2020	8.75	0.27	10.39
TIR HWM13	27/11/2020	8.67	0.35	10.47
TIR HWM13	15/12/2020	8.64	0.38	10.5

Sample Point	Date	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	Atm Pres (mb)
TIRGP001	20/10/2020	1.7	2.1	12.4	1	1	996
TIRGP002	20/10/2020	0	0.1	21	0	1	997
TIRGP003	20/10/2020	0	9.4	6	0	1	997
TIRGP004	20/10/2020	0	1.5	19.1	0	1	997
TIRGP005	20/10/2020	0	2.2	18.7	0	1	997
TIRGP006	20/10/2020	0	2.6	17.5	0	1	997
TIRGP007	20/10/2020	0	1.3	19.3	0	1	997
TIRGP008	20/10/2020	15.2	20.9	0.9	2	2	996

Sample Point	Date	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	Atm Pres (mb)
TIRGP001	26/11/2020	0	0.1	21.9	0	0	1023
TIRGP002	26/11/2020	0	0.2	21.2	0	0	1023
TIRGP003	26/11/2020	0	5.9	10.2	0	0	1023
TIRGP004	26/11/2020	0	2.4	18.3	0	0	1022
TIRGP005	26/11/2020	0	0.3	20.2	0	0	1023
TIRGP006	26/11/2020	0	0.4	21.2	0	0	1021
TIRGP007	26/11/2020	0	1.2	20.2	0	0	1023
TIRGP008	26/11/2020	0.2	1.4	20.5	0	0	1022

Sample Point	Date	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)	Atm Pres (mb)
TIRGP001	09/12/2020	0	0.2	21	0	0	1010
TIRGP002	09/12/2020	0	0.2	20.9	0	0	1009
TIRGP003	09/12/2020	0	7.7	9.8	0	0	1010
TIRGP004	09/12/2020	0	0.4	21.8	0	0	1009
TIRGP005	09/12/2020	0	1.1	20.8	0	0	1010
TIRGP006	09/12/2020	0	0.3	21.8	0	0	1009
TIRGP007	09/12/2020	0	0.6	21	0	0	1009
TIRGP008	09/12/2020	0	10.6	13.2	0	0	1009

Rel. Pressure (mb)	Field Technicians Comments
0.93	
0.04	
0.07	
0.05	
0.09	
0.02	
0.05	
0.04	

Rel. Pressure (mb)	Field Technicians Comments
-0.81	
-0.26	
-0.14	
0	
-0.05	
-0.04	
-0.04	
2.46	

Rel. Pressure (mb)	Field Technicians Comments
2.34	
-7.75	
-0.12	
-0.09	
-0.09	
-0.09	
-0.04	
0.09	

Sample Point	Date	Data Comments	Ammoniacal-N (mg/l)	Arsenic (mg/l)	Bio Oxygen Demand (mg/l)	Chem Oxygen Demand (mg/l)
GDW01(D)	05/11/2020		1.4	0.007	2.9	340
GDW01(S)	05/11/2020		1.3	0.016	2.3	340
GDW02(D)	05/11/2020		6.5	0.001	4	61
GDW02(S)	05/11/2020		17	0.002	1	35
GDW03(D)	05/11/2020		11	<0.001	<1	440
GDW03(S)	05/11/2020		12	0.002	2.2	110
GDW21	03/11/2020		15	0.01	1.9	640
GDW23	03/11/2020		0.22	< 0.001	1.3	90
GDW24(D)	03/11/2020		55	< 0.001	1.7	24
GDW24(S)	03/11/2020		53	0.002	3.3	16
GDW25	03/11/2020		11	< 0.001	2.4	20
GDW26	03/11/2020		30	0.005	4.1	620
TIR JB1	03/11/2020		0.56	< 0.001	1.7	<10
TIR JB3(D)	03/11/2020	Missing				
TIR JB3(S)	03/11/2020	Missing				

Chloride (mg/l)	Conductivity (uS/cm)	Dissolved Oxygen (mg/l)	Iron (mg/l)	Manganese (mg/l)	Mercury (mg/l)	Nitrate (mg/l)	Nitrite (mg/l)
43	701	7.9	0.012	0.1391	0.0003	0.22	0.44
45	699	8.8	0.015	0.1111	0.0003	0.93	0.41
36	1300	7.9	0.032	3.526	< 0.0001	0.19	0.25
140	2600	7.9	0.53	1.096	< 0.0001	1.5	0.96
26	531	6.4	16	0.7976	< 0.0001	0.32	0.46
36	1050	7.5	0.094	1.652	< 0.0001	0.33	0.62
170	3050	8	0.82	0.7498	0.0001	< 0.10	0.15
18	322	8.4	0.012	3.001	< 0.0001	< 0.10	< 0.10
140	1860	7	0.64	0.7346	< 0.0001	0.27	< 0.10
140	1800	5.9	6.3	0.6505	< 0.0001	< 0.10	< 0.10
68	934	7	8.3	0.4624	< 0.0001	< 0.10	< 0.10
380	1930	3.2	16	0.4568	< 0.0001	0.49	< 0.10
19	338	7.5	0.018	0.1457	<0.0001	0.12	<0.1

Orthophosphate (mg/l)	pH	Potassium (mg/l)	Redox (mV)	Sodium (mg/l)	Temperature (degC)	Total Organic Carbon (mg/l)	Dip to water (m)
0.07	7.5	20	110	39	18	3.2	
0.05	7.5	20	120	42	18	1.7	
< 0.01	7	31	150	34	18	4.6	
< 0.01	6.9	50	130	160	18	3.4	
< 0.01	6.6	4	150	16	19	3.8	
< 0.01	7.2	28	140	28	18	3.3	
0.1	6.9	61	7	180	18	31	3.88
< 0.01	6.8	2.6	73	13	18	9.4	2.4
< 0.01	6.7	60	85	110	18	3.4	4
< 0.01	6.7	60	81	110	18	3.8	3.87
0.14	6.9	25	83	61	18	1.9	4.2
0.07	6.4	36	22	220	18	26	5
<0.01	7	2.7	47	11	19	<1	2.5

Alkalinity (mg/l)	Annual Data
Cadium (mg/l)	
Calcium (mg/l)	
Magnesium (mg/l)	
Mecoprop (ug/l)	
Sulphate (mg/l)	
TributyPhosphate (ug/l)	
Zinc (mg/l)	

Parameter	Units	GDW01(D)	GDW01(S)	GDW02(D)
1,1 Dichloroethylene	ug/l	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	ug/l	< 1	< 1	< 1
1,1,1-Trichloroethane	ug/l	< 1	< 1	< 1
1,1,2-Trichloroethane	ug/l	< 1	< 1	< 1
1,1-Dichloroethane	ug/l	< 1	< 1	< 1
1,1-Dichloropropene	ug/l	< 1	< 1	< 1
1,2,3-Trichlorobenzene	ug/l	< 1	< 1	< 1
1,2,3-Trichloropropane	ug/l	< 1	< 1	< 1
1,2,4 trimethylbenzene	ug/l	< 1	< 1	< 1
1,2,4-Trichlorobenzene	ug/l	< 2	< 2	< 1
1,2-Dibromo-3-Chloropropane	ug/l	< 1	< 1	< 1
1,2-Dibromoethane	ug/l	< 1	< 1	< 1
1,2-Dichlorobenzene	ug/l	< 1	< 1	< 1
1,2-Dichloroethane	ug/l	< 1	< 1	< 1
1,2-Dichloropropane	ug/l	< 1	< 1	< 1
1,3,5 trimethylbenzene	ug/l	< 1	< 1	< 1
1,3-Dichlorobenzene	ug/l	< 2	< 2	< 2
1,3-Dichloropropane	ug/l	< 1	< 1	< 1
1,3-Dinitrobenzene	ug/l	< 2	< 2	< 1
1,4-Dichlorobenzene	ug/l	< 1	< 1	< 1
1,4-Dinitrobenzene	ug/l	< 2	< 2	< 1
2,2-dichloropropane+1,2-dichloroethylene	ug/l	< 1	< 1	< 1
2,3,4,6-Tetrachlorophenol	ug/l	< 2	< 2	< 1
2,3,5,6-tetrachlorophenol old	ug/l	< 2	< 2	< 1
2,4,5-Trichlorophenol	ug/l	< 2	< 2	< 1
2,4,6-Trichlorophenol	ug/l	< 0.13	< 0.1	< 0.1
2,4-D	ug/l	< 0.02	< 0.02	< 0.02
2,4-Dichlorophenol	ug/l	< 0.13	< 0.1	< 0.1
2,4-Dimethylphenol	ug/l	< 0.13	< 0.1	< 0.1
2,4-Dinitrotoluene	ug/l	< 2	< 2	< 1
2,6-Dichlorophenol	ug/l	< 0.13	< 0.1	< 0.1
2,6-Dimethylphenol	ug/l	< 0.13	< 0.1	< 0.1
2,6-Dinitrotoluene	ug/l	< 2	< 2	< 1
2- Nitroaniline	ug/l	< 2	< 2	< 1
2-Chloronaphthalene	ug/l	< 2	< 2	< 1
2-Chlorophenol	ug/l	< 2	< 2	< 1
2-Chlorotoluene	ug/l	< 1	< 1	< 1
2-Methylnaphthalene	ug/l	< 2	< 2	< 1
2-Methylphenol	ug/l	< 2	< 2	< 1
3 Nitroaniline	ug/l	< 2	< 2	< 1
3&4-Methylphenol	ug/l	< 2	< 2	< 1
4,4-DDE	ug/l	< 2	< 2	< 1
4,4-DDT	ug/l	< 2	< 2	< 1
4-Bromophenyl phenyl ether	ug/l	< 2	< 2	< 1
4-Chloro-3-methyl phenol	ug/l	< 0.13	< 0.1	< 0.1
4-Chlorophenyl phenyl ether	ug/l	< 2	< 2	< 1
4-Chlorotoluene	ug/l	< 1	< 1	< 1
4-Nitroaniline	ug/l	< 2	< 2	< 1
4-Nitrophenol	ug/l	< 2	< 2	< 1

Acenaphthene	ug/l	< 0.01	< 0.01	< 0.01
Acenaphthylene	ug/l	< 0.01	< 0.01	< 0.01
aldrin	ug/l	< 2	< 2	< 1
alpha-BHC	ug/l	< 2	< 2	< 1
Ametryn	ug/l	< 2	< 2	< 1
Aniline	ug/l	< 2	< 2	< 1
anthracene	ug/l	< 0.01	< 0.01	< 0.01
Atraton	ug/l	< 2	< 2	< 1
atrazine	ug/l	< 0.02	< 0.02	< 0.02
azinphos-methyl	ug/l	< 2	< 2	< 1
Azobenzene ug/l	ug/l	< 2	< 2	< 1
Bentazone	ug/l	< 0.02	< 0.02	< 0.02
Benzene	ug/l	< 1	< 1	< 1
benzo(a)anthracene	ug/l	< 0.01	< 0.01	< 0.01
benzo(a)pyrene	ug/l	< 0.01	< 0.01	< 0.01
benzo(b)fluoranthene	ug/l	< 0.01	< 0.01	< 0.01
benzo(ghi)perylene old	ug/l	< 0.01	< 0.01	< 0.01
benzo(k)fluoranthene	ug/l	< 0.01	< 0.01	< 0.01
Benzyl Alcohol	ug/l	< 2	< 2	< 1
beta-BHC		< 2	< 2	< 1
Bis (2-chloroethoxy) methane	ug/l	< 2	< 2	< 1
Bis (2-chloroisopropyl) ether	ug/l	< 2	< 2	< 1
Bis (2-ethylhexyl) phthalate	ug/l	< 2	< 2	< 1
Bolstar	ug/l	< 2	< 2	< 1
Bromobenzene	ug/l	< 1	< 1	< 1
Bromochloromethane	ug/l	< 4	< 4	< 4
Bromodichloromethane	ug/l	< 4	< 4	< 4
Bromoform	ug/l	< 1	< 1	< 1
Butyl benzyl phthalate	ug/l	< 2	< 2	< 1
Cadmium, total	mg/l	< 0.0001	0.0011	< 0.0001
Carbazole	ug/l	< 2	< 2	< 1
Carbon Tetrachloride	ug/l	< 1	< 1	< 1
Chlopyrifos	ug/l	< 2	< 2	< 1
Chlorobenzene	ug/l	< 1	< 1	< 1
Chloroform	ug/l	< 1	< 1	< 1
Chlortoluron	ug/l	< 0.1	< 0.1	< 0.1
chrysene	ug/l	< 0.01	< 0.01	< 0.01
cis-1,2-dichloroethylene	ug/l	< 1	< 1	< 1
Cis-1,3-Dichloropropene	ug/l	< 1	< 1	< 1
Cyanide free	ug/l	< 0.1	< 0.1	0.6
Cyanide total	ug/l	< 40	< 40	< 40
delta-BHC	ug/l	< 2	< 2	< 1
Demeton-O	ug/l	< 2	< 2	< 1
Demeton-s-methyl	ug/l	< 2	< 2	< 1
Di-n-butyl phthalate	ug/l	< 2	< 2	16
Di-n-Octyl phthalate	ug/l	< 2	< 2	< 1
Diazinon	ug/l	< 2	< 2	< 1
dibenzo(a,h)anthracene	ug/l	< 0.01	< 0.01	< 0.01
Dibenzofuron	ug/l	< 2	< 2	< 1
Dibromochloromethane	ug/l	< 1	< 1	< 1

Dibromomethane	ug/l	< 1	< 1	< 1
Dichloroprop	ug/l	< 0.02	< 0.02	< 0.02
Dichlorvos	ug/l	< 2	< 2	< 1
Dieldrin	ug/l	< 2	< 2	< 1
Diethyl Phthalate	ug/l	< 2	< 2	< 1
Dimethyl Phthalate	ug/l	< 2	< 2	< 1
Diphenylamine	ug/l	< 2	< 2	< 1
Disulfoton	ug/l	< 2	< 2	< 1
Diuron	ug/l	< 0.1	< 0.1	< 0.1
Endosulphan I	ug/l	< 2	< 2	< 1
Endosulphan II	ug/l	< 2	< 2	< 1
Endosulphan sulphate	ug/l	< 2	< 2	< 1
Endrin	ug/l	< 2	< 2	< 1
Endrin aldehyde	ug/l	< 2	< 2	< 1
Endrin ketone	ug/l	< 2	< 2	< 1
EPH Range >C10 - C40 (aq)	ug/l	< 10	11	99
Ethoprop	ug/l	< 2	< 2	< 1
Ethyl benzene	ug/l	< 1	< 1	< 1
Fensulfothion	ug/l	< 2	< 2	< 1
Fenthion	ug/l	< 2	< 2	< 1
Fluoranthene	ug/l	< 0.01	< 0.01	< 0.01
Fluorene	ug/l	< 0.01	< 0.01	< 0.01
gamma-BHC (Lindane)	ug/l	< 2	< 2	< 1
Gamma-Chlordane (trans)	ug/l	< 2	< 2	< 1
Heptachlor	ug/l	< 2	< 2	< 1
Heptachlor epoxide	ug/l	< 2	< 2	< 1
Hexachlorobenzene	ug/l	< 2	< 2	< 1
Hexachlorobutadiene	ug/l	< 1	< 1	< 1
Hexachlorocyclopentadiene	ug/l	< 2	< 2	< 1
indeno(1,2,3-cd)pyrene	ug/l	< 0.01	< 0.01	< 0.01
Isopropylbenzene	ug/l	< 1	< 1	< 1
Isoproturon	ug/l	< 0.1	< 0.1	< 0.1
Linuron	ug/l	< 0.1	< 0.1	< 0.1
m,p-xylenes	ug/l	< 2	< 2	< 2
Malathion	ug/l	< 1	< 1	< 1
Mecoprop	ug/l	< 0.02	< 0.02	< 0.02
Merphos	ug/l	< 2	< 2	< 1
Methoxychlor	ug/l	< 2	< 2	< 1
Methylene Chloride	ug/l	< 27	< 27	< 27
Methylparathion	ug/l	< 2	< 2	< 1
Mevinphos	ug/l	< 2	< 2	< 1
Monuron	ug/l	< 0.1	< 0.1	< 0.1
N-butylbenzene	ug/l	< 1	< 1	< 1
n-propylbenzene	ug/l	< 1	< 1	< 1
Naled	ug/l	< 2	< 2	< 1
Naphthalene	ug/l	< 0.05	< 0.05	< 0.05
o-xylene	ug/l	< 1	< 1	< 1
p-cresol ug/l	ug/l	< 0.13	< 0.1	< 0.1
p-Isopropyltoluene	ug/l	< 1	< 1	< 1
PAH (Sum of EPA 16)	ug/l	< 0.2	< 0.2	< 0.2

PCB - 052	ug/l	< 0.2	< 0.2	< 0.2
PCB - 101	ug/l	< 0.3	< 0.3	< 0.3
PCB - 138	ug/l	< 0.2	< 0.2	< 0.2
PCB - 153	ug/l	< 0.2	< 0.2	< 0.2
PCB - 180	ug/l	< 0.2	< 0.2	< 0.2
PCB 118 + PCB 123	ug/l	< 0.6	< 0.6	< 0.6
PCB 28 + PCB 31	ug/l	< 0.3	< 0.3	< 0.3
PCB 7 Total	ug/l	< 1	< 1	< 1
Pentachlorophenol	ug/l	< 2	< 2	< 1
Phenanthrene	ug/l	< 0.01	< 0.01	< 0.01
Phenol	ug/l	< 0.13	< 0.1	< 0.1
Phorate	ug/l	< 2	< 2	< 1
Prometon	ug/l	< 2	< 2	< 1
Prometryn	ug/l	< 2	< 2	< 1
Propazine	ug/l	< 2	< 2	< 1
Pyrene	ug/l	< 0.01	< 0.01	< 0.01
Ronnel	ug/l	< 2	< 2	< 1
sec-butylbenzene	ug/l	< 1	< 1	< 1
Secbumeton	ug/l	< 2	< 2	< 1
Simazine	ug/l	< 2	< 2	< 1
Stirofos	ug/l	< 2	< 2	< 1
Styrene	ug/l	< 1	< 1	< 1
Symetryn	ug/l	< 2	< 2	< 1
Terbuthylazine	ug/l	< 2	< 2	< 1
Terbutryn	ug/l	< 2	< 2	< 1
Tert-butylbenzene	ug/l	< 1	< 1	< 1
Tetrachloroethylene	ug/l	< 1	< 1	< 1
Tokuthion	ug/l	< 2	< 2	< 1
Toluene	ug/l	< 1	< 1	< 1
Trans-1,2 Dichloroethene	ug/l	< 1	< 1	< 1
Trans-1,3 Dichloropropene	ug/l	< 1	< 1	< 1
Tributyl Phosphate	ug/l	< 0.02	< 0.02	< 0.02
Tributyl tin (TBT)	ug/l	< 1	< 1	< 1
Trichlorinate	ug/l	< 2	< 2	< 1
Trichloroethene	ug/l	< 1	< 1	< 1
Triphenyl tin	ug/l	< 1	< 1	< 1

[illegible]

< 0.01	< 0.01	< 0.01
< 0.01	< 0.01	< 0.01
< 1	< 1	< 1
< 1	< 1	< 1
< 1	< 1	< 1
< 1	< 1	< 1
< 0.01	< 0.01	0.01
< 1	< 1	< 1
< 0.02	< 0.02	< 0.02
< 1	< 1	< 1
< 1	< 1	< 1
< 0.02	< 0.02	< 0.02
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< 0.01	< 0.01	< 0.01
< 0.01	< 0.01	< 0.01
< 0.01	< 0.01	< 0.01
< 0.01	< 0.01	< 0.01
< 1	< 1	< 1
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< 1	< 1	< 1
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< 1	< 1	< 1
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< 1	< 1	< 1
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< 1	< 1	< 1
< 0.01	< 0.01	< 0.01
< 1	< 1	< 1
< 1	< 1	< 1

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< 0.02	< 0.02	< 0.02
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< 1	< 1	< 1
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55	45	110
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< 0.1	< 0.1	< 0.1
< 1	< 1	< 1
< 1	< 1	< 1
< 1	< 1	< 1
< 0.05	< 0.05	< 0.05
< 1	< 1	< 1
< 0.13	< 0.1	< 0.1
< 1	< 1	< 1
< 0.2	< 0.2	< 0.2

[illegible]

Date	Parameter				
		TIR HWM4	TIR HWM5	TIR HWM06A	TIR HWM07
06/10/2020	Ammoniacal N (mg/l)		10	20	120
	Alkalinity CaCO3 (mg/l)		690	750	1200
	Arsenic (mg/l)		0.012	0.099	0.006
	BOD (mg/l)		<1	17	<1
	Calcium (mg/l)		410	290	240
	Cadmium (mg/l)		<0.0001	<0.0001	<0.0001
	Chloride (mg/l)		960	220	380
	COD (mg/l)		4400	24000	420
	Conductivity (uS/cm)		2520	1770	2790
	Chromium (mg/l)		0.0021	0.0011	0.0023
	Copper (mg/l)		0.0069	0.0105	0.0169
	Iron (mg/l)		21	5	12
	Fluoride (mg/l)	Damp at	<50	<20	<50
	Mercury (mg/l)	base not	<0.0001	<0.0001	<0.0001
	Potassium (mg/l)	enough to	32	21	93
	Magnesium (mg/l)	collect	49	22	49
	Manganese (mg/l)	sample	3.343	2.614	2.882
	Sodium (mg/l)		170	53	110
	Nickel (mg/l)		0.0046	0.0023	0.0067
	Nitrate (mg/l)		1.1	0.21	0.46
	Nitrite (mg/l)		<0.035	<0.035	0.082
	Orthophosphate (mg/l)		0.19	2.2	<0.01
	Lead (mg/l)		0.0043	0.0045	0.0046
	pH		6.9	7.3	7
	Sulphate (mg/l)		780	230	280
	Temperature (degC)		16	16	16
	TOC (mg/l)		45	120	46
	TON (mg/l)		<0.1	130	61
	Zinc (mg/l)		0.073	0.18	0.068

Sample Point				
TIR HWM08	TIR HWM09A	TIR HWM10	TIR HWM13	TIR LCH DRAIN
14		0.35	83	520
730		480	1200	1200
0.008		0.008	0.04	0.063
4		3	1.6	70
130		580	230	200
<0.0001		<0.0001	<0.0001	<0.0001
230		580	1300	1900
7700		170	250	1100
1750		2510	3330	7110
0.0052		<0.0003	0.0008	0.29
0.0121		0.0628	0.0109	0.0379
23		0.22	0.11	2.8
<20		<50	<100	<100
<0.0001	Damp at base not enough to collect sample	<0.0001	<0.0001	0.0001
24		21	130	240
31		33	130	84
1.54		0.077	1.419	0.7132
200		110	180	550
0.0079		0.0083	0.015	0.081
0.14		<0.1	0.12	<0.1
<0.035		<0.035	<0.035	0.94
<0.01		0.13	8.6	10
0.0041		0.0048	0.0045	0.0089
7.1		7.6	7.5	7.9
130		560	450	560
17		17	17	18
44		37	36	580
<0.1		3.5	17	69
0.067		0.056	0.052	0.19

Sample Point	Date	Calcium (mg/l)	DOC (mg/l)	pH	Data Comments
TIR ETM1 (6a)	03/11/2020	120	3.8	6.7	
TIR ETM1 (6b)	03/11/2020	84	25	6.8	
TIR ETM2 (6a)	03/11/2020	47	9.2	6.5	
TIR ETM2 (6b)	03/11/2020	43	13	6.6	
TIR ETM5 (6a)	03/11/2020	34	30	6.5	
TIR ETM5 (6b)	03/11/2020	17	28	5.6	
TIR ETM6 (6a)	03/11/2020	27	8.5	6.5	
TIR ETM6 (6b)	03/11/2020	37	9.5	6.4	
TIR ETM7 (6a)	03/11/2020	23	<2	6.5	
TIR ETM7 (6b)	03/11/2020	140	<2	6.7	

Asset ID	Date	CH4 (%)	CO2 (%)	O2 (%)	CO (ppm)	H2S (ppm)
TIRW1211	08/10/2020 13:38	4.4	9.1	18.2	0	0
TIRW1211	05/11/2020 13:57	1.2	11.1	18	0	1
TIRW1212	08/10/2020 13:36	16.5	14.5	9.8	0	0
TIRW1212	05/11/2020 13:56	7.6	17.9	7.7	0	1
TIRW1212	30/12/2020 10:46	69.3	32.8	0.1	3	0
TIRW12A1	30/12/2020 10:56	7.5	6.4	18.9	0	0
TIRW12A2	05/11/2020 13:58	68.6	31.3	0.5	1	0
TIRW12A2	30/12/2020 10:49	67.7	34	0.3	2	0
TIRW1401	08/10/2020 13:57	35.6	27.8	7	41	6
TIRW1401	06/11/2020 09:26	55.8	34.5	2.5	22	1
TIRW1402	08/10/2020 13:54	60.4	37.7	0.4	1	4
TIRW1402	06/11/2020 09:28	61.2	39.7	0.6	3	0
TIRW1403	30/12/2020 11:11	34.6	23.1	9.4	4	0
TIRW1404	08/10/2020 14:26	70.1	30.6	0		2
TIRW1404	30/12/2020 11:06	0.1	3	20.2	2	0
TIRW1801	08/10/2020 14:01	59.9	39.4	0.1	3	5
TIRW1801	06/11/2020 09:21	61.3	40.2	0.1	4	0
TIRW1801	30/12/2020 11:20	60.7	41.3	0	14	4
TIRW1802	08/10/2020 13:59	58.9	40.5	0.4	4	7
TIRW1802	06/11/2020 09:23	58.6	42.2	0.1	6	0
TIRW1802	30/12/2020 11:18	57.5	42.2	0.5	11	3
TIRW1803	08/10/2020 13:52	35.6	28.6	7.7	2	4
TIRW1803	06/11/2020 09:30	57.6	41.4	0.2	3	0
TIRW1803	30/12/2020 11:13	61.7	39.3	0.4	14	1
TIRW1804	08/10/2020 13:49	64.9	41.1	0.2		3
TIRW1804	06/11/2020 09:34	63.3	37.3	0.8	4	0
TIRW1804	30/12/2020 11:08	33.8	19.8	11.1	4	0
TIRW1805	08/10/2020 13:48	61.6	38.6	0.1	2	4
TIRW1805	06/11/2020 09:35	63.2	38	0.1	4	1
TIRW1805	30/12/2020 11:03	62.3	39.4	0.2	9	6
TIRW1806	08/10/2020 13:46	66.1	39.9	0.1		2
TIRW1806	06/11/2020 09:37	62.3	39.2	0	4	0
TIRW1806	30/12/2020 11:00	62.4	38	0.7	7	6

Balance Gas (%)	Atm Pressure (mbar)	Relative Pressure (mbar)
68.3	1014	0.4
69.7	1038	0.14
59.2	1015	-0.95
66.8	1039	0.22
0	1003	0.51
67.2	1003	-4.85
0	1038	-21.5
0	1003	-10.52
29.6	1013	51.73
7.2	1027	-3.16
1.5	1013	-24
0	1027	-18.5
32.9	1001	-239.26
0	1013	-4.83
76.7	1002	0.34
0.6	1013	-6.04
0	1026	-13.53
0	1002	14.61
0.2	1013	-22.07
0	1027	-18.82
0	1002	6.6
28.1	1013	-21
0.8	1027	-2.12
0	1002	2.89
0	1012	-22.89
0	1027	-5.49
35.3	1002	-5.47
0	1013	-13.51
0	1027	4.18
0	1002	6.9
0	1012	-0.72
0	1027	5.26
0	1002	-2.17

Data Comment

2
2
2
4
1
2
1
1
2
1
1
1
40
2
1
1
1
1
1
1
1
2
1
1
50
1
2
1
1
1
1
50
1
1