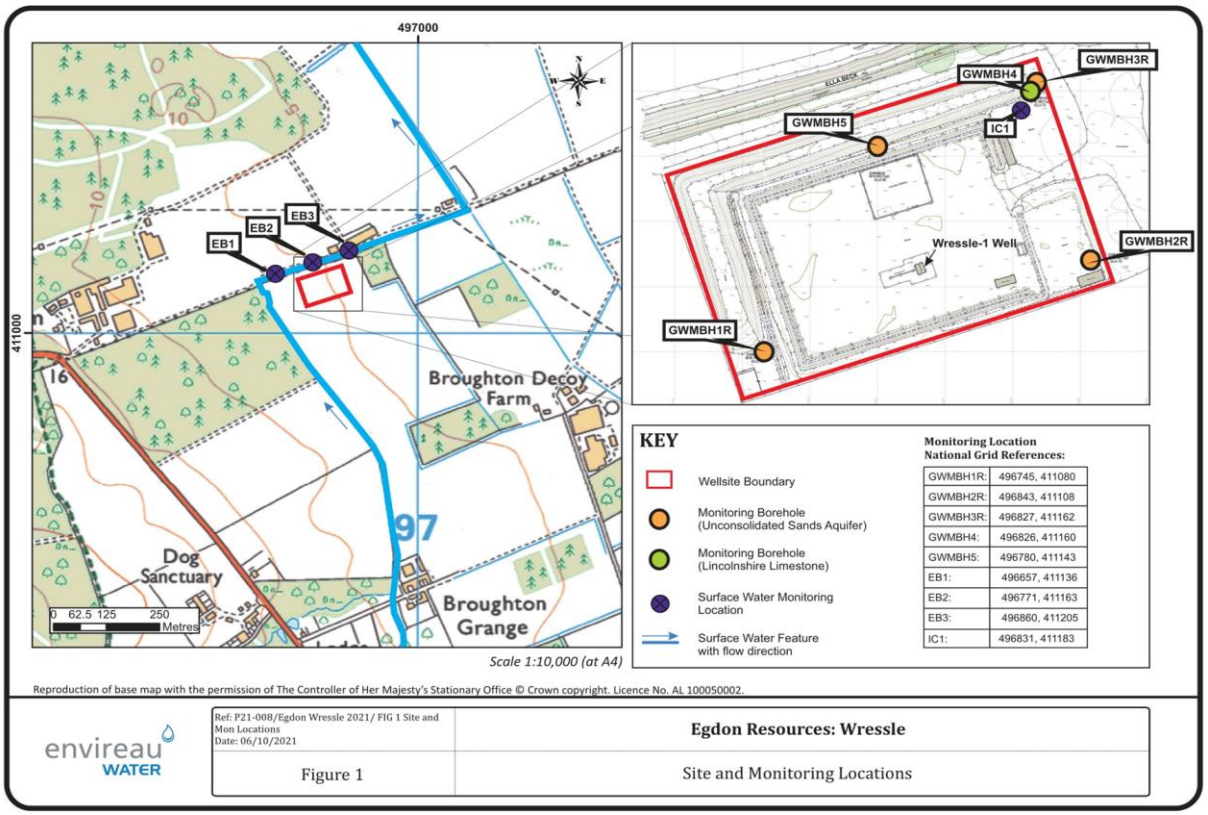
Produced by Envireau Water
Project Reference: P21-008 - Egdon Wressle 2021
Client: Egdon Resources UK Limited
Water Quality Data
Wressle- 1 Wellsite, North Lincolnshire

Tab Colours	
Green	Monitoring Round Chemistry Data
Yellow	Additional tabs for data manipulation
Blue	Graphs



Ref: P21-008/Egdon Wressle 2021/ FIG 1 Site and Mon Locations
Date: 06/10/2021

Egdon Resources: Wressle

Figure 1

Site and Monitoring Locations

Element Materials Technology

Report: **Liquid**

EMT Job No:	20/6828
Client:	Envireau Ltd
Client ref:	P20-041
Location:	Wressle
Contact	Stephen Craig

	GWMBH1R	GWMBH2R	MBH2R dupli	GWMBH3R	GWMBH5	GWMBH4	Blank
Sample ID	GWMBH1R/1	GWMBH2R/1	GWMBH2R/1D	GWMBH3R/1	GWMBH5/1	GWMBH4/1	B1
Depth							
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Distilled
Sampled Date	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020	27/05/2020
Sample Received Date	29/05/2020	29/05/2020	29/05/2020	29/05/2020	29/05/2020	29/05/2020	29/05/2020
EMT Sample No	29-35	15-21	36-42	8-14	22-28	1-7	43-49
Batch Number	1	1	1	1	1	1	1

Test	Method	Units	LOD							
Dissolved Aluminium #	TM30/PM14	ug/l	<20	21	<20	<20	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2	<2	4	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	3.9	5.2	5.3	6.4	52.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	59	73	74	134	45	23	<3
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	90	171	173	121	92	83	<12
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	8	20	20	4	11	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	17	<7	<7	<7	9	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	1460	272	374	2189	<20	3726	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	122	262	262	373	<2	62	<2
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	6	6	6	3	2	4	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	29	39	40	13	45	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	5.8	2.7	2.9	<1.5	31.2	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	4	17	17	5	43	4	4
VOC MS										
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	89	90	91	102	84	73	89
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	83	89	99	103	86	96	98
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	89	90	91	102	84	73	89
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	83	89	99	103	86	96	98
SVOC MS										
Phenols										
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
PAHs										
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phthalates										
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Other SVOCs										
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	107	107	99	103	108	100	105
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	122	109	103	112	113	108	109
TPH CWG										
Aliphatics										
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics										
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Alcohols/Acetates										
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500	<500	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500	<500	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
	Salinity	TM64/PM0	%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	636	822	806	885	457	967	5
A	pH #	TM73/PM0	pH units	<0.01	7.35	7.16	7.1	7.38	7.04	7.93	7.31
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	15	<10	65	<10	27	<10
	Total Dissolved Solids #	TM20/PM0	mg/l	<35	549	587	582	615	373	642	<35
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	30.1	162.7	160.2	179	54.5	169.5	<0.5
B	Chloride #	TM38/PM0	mg/l	<0.3	9.4	11.4	11.3	16.4	7.6	47.4	<0.3
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	143.2	32.5	32.3	0.4	75.9	2.2	<0.2
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.12	0.07	0.07	<0.02	<0.02	<0.02	<0.02
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	138	216	218	292	94	290	8
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	138	216	218	292	94	290	8
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	77	123.1	124.3	128.5	58.8	146.2	<0.2
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	8.5	9	9.1	10.3	5.2	14.4	<0.1
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	37.5	41.6	41.8	51.7	22.3	2.9	<0.1
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	8.1	9	9.2	13.7	8.1	39.3	<0.1
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.28	0.05	0.05	0.15	0.03	0.15	<0.03
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.36	0.06	0.06	0.19	0.04	0.19	<0.03
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1	21	<1	58	<1

Key

A	Key physio-chemical paramter
B	Major anion
C	Major cation
D	Key dissolved gas

Conversion to meq/L

		GWMBH1R/1	GWMBH2R/1	GWMBH2R/1D	GWMBH3R/1	GWMBH5/1	GWMBH4/1	B1
Sulphate	meq/l	0.627	3.388	3.335	3.727	1.135	3.529	

#	Other	Chloride	meq/l	0.265	0.322	0.319	0.463	0.214	1.337	
		Nitrate	meq/l	2.309	0.524	0.521	0.006	1.224	0.035	
		Total Alk	meq/l	2.758	4.316	4.356	5.835	1.878	5.795	
		Calcium	meq/l	3.842	6.143	6.203	6.412	2.934	7.295	
		Magnesium	meq/l	0.699	0.741	0.749	0.848	0.428	1.185	
		Potassium	meq/l	0.959	1.064	1.069	1.322	0.570	0.074	
		Sodium	meq/l	0.352	0.391	0.400	0.596	0.352	1.709	
		Ammonium	meq/l	0.020	0.004	0.004	0.011	0.002	0.011	
		Sum Anions	meq/l	5.959	8.549	8.531	10.031	4.451	10.696	
		Sum Cations	meq/l	5.873	8.342	8.424	9.189	4.287	10.275	
		Ion blanace error	%	0.7%	1.2%	0.6%	4.4%	1.9%	2.0%	

Element Materials Technology

Report: **Liquid**

EMT Job No:	20/6828
Client:	Envireau Ltd
Client ref:	P20-041
Location:	Wressle
Contact	Stephen Craig

	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH5	GWMBH4	/MBH4 duplic	Blank
Sample ID	GWMBH1R/2	GWMBH2R/2	GWMBH3R/2	GWMBH5/2	GWMBH4/2	GWMBH4/2D	B2
Depth							
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Distilled
Sampled Date	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020	18/06/2020
Sample Received Date	20/06/2020	20/06/2020	20/06/2020	20/06/2020	20/06/2020	20/06/2020	20/06/2020
EMT Sample No	1-10	11-20	21-30	31-40	41-50	61-70	51-60
Batch Number	1	1	1	1	1	1	1

Test	Method	Units	LOD							
Dissolved Aluminium #	TM30/PM14	ug/l	<20	23	<20	<20	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2	3	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5	53.2	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	56	84	128	45	24	24	<3
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	100	162	141	97	79	81	<12
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	9	20	4	12	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	20	<7	<7	9	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	157	426	1795	<20	3879	3868	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	53	265	358	<2	68	<2	67
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	6	6	4	3	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	29	40	16	47	2	<2	2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	9.6	3.5	<1.5	38.2	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	5	21	4	46	4	3	<3
VOC MS										
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	86	85	95	88	84	85	82
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	92	91	93	91	86	85	85
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	86	85	95	88	84	82	85
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	92	91	93	91	86	85	85
SVOC MS										
Phenols										
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
PAHs										
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phthalates										
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Other SVOCs										
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	110	102	94	107	107	116	115
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	107	105	99	114	113	120	119
TPH CWG										
Aliphatics										
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics										
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Alcohols/Acetates										
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500	<500	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500	<500	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100
	Salinity	TM64/PM0	%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	318	674	485	382	757	580	28
A	pH #	TM73/PM0	pH units	<0.01	7.5	7.12	7.48	7.05	7.64	7.73	5.49
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	19	24	39	20	19	15	<10
	Total Dissolved Solids #	TM20/PM0	mg/l	<35	531	540	624	382	651	660	<35
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	27.7	134.3	178.9	65	160.7	161.5	<0.5
B	Chloride #	TM38/PM0	mg/l	<0.3	10.8	11.2	27.6	7.4	45.7	45.8	<0.3
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	142.7	37.6	1	76.8	0.9	1	<0.2
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	118	204	236	88	300	294	6
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	118	204	236	88	300	294	6
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	68.4	112.1	121.4	60.2	151.5	152.2	<0.2
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	8.4	9	10.1	5.6	14	13.9	<0.1
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	36.9	39.4	52	22.2	3	3.1	<0.1
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	7.9	9.1	27.2	8.2	38.9	39.2	<0.1
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.19	0.05	0.13	<0.03	0.13	0.13	<0.03
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.24	0.07	0.17	<0.03	0.17	0.17	<0.03
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	6	<1	32	38	<1

Key

A	Key physio-chemical paramter
B	Major anion
C	Major cation
D	Key dissolved gas

Conversion to meq/L

		GWMBH1R/2	GWMBH2R/2	GWMBH3R/2	GWMBH5/2	GWMBH4/2	GWMBH4/2D
Sulphate	meq/l	0.577	2.796	3.725	1.353	3.346	3.363

#	Other								
		Chloride	meq/l	0.305	0.316	0.778	0.209	1.289	1.292
		Nitrate	meq/l	2.301	0.606	0.016	1.239	0.015	0.016
		Total Alk	meq/l	2.358	4.076	4.716	1.758	5.995	5.875
		Calcium	meq/l	3.413	5.594	6.058	3.004	7.560	7.595
		Magnesium	meq/l	0.691	0.741	0.831	0.461	1.152	1.144
		Potassium	meq/l	0.944	1.008	1.330	0.568	0.077	0.079
		Sodium	meq/l	0.344	0.396	1.183	0.357	1.692	1.705
		Ammonium	meq/l	0.014	0.004	0.009	0.001	0.009	0.009
		Sum Anions	meq/l	5.541	7.795	9.235	4.559	10.644	10.545
		Sum Cations	meq/l	5.405	7.741	9.411	4.390	10.490	10.532
		Ion blanace error	%	1.2%	0.3%	-0.9%	1.9%	0.7%	0.1%

Element Materials Technology

Report:	**Liquid**
EMT Job No:	20/9739
Client:	Envireau Ltd
Client ref:	P20-041
Location:	Wressle
Contact	Phil Ham

	GWMBH1R	**GWMBH2R**	**GWMBH3R**	**GWMBH5**	**/MBH5 duplic**	**GWMBH4**	**EB1**	**EB2**	**EB3**	**Blank**
Sample ID	GWMBH1R/3	GWMBH2R/3	GWMBH3R/3	GWMBH5/3	GWMBH5/3D	GWMBH4/3	EB1/3	EB2/3	EB3/3	B3
Depth										
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water	Distilled
Sampled Date	22/07/2020	22/07/2020	22/07/2020	22/07/2020	22/07/2020	22/07/2020	22/07/2020	22/07/2020	22/07/2020	22/07/2020
Sample Received Date	24/07/2020	24/07/2020	24/07/2020	24/07/2020	24/07/2020	24/07/2020	24/07/2020	24/07/2020	24/07/2020	24/07/2020
EMT Sample No	1-9	10-18	19-27	28-36	82-90	37-45	46-54	55-63	64-72	73-81
Batch Number	1	1	1	1	1	1	1	1	1	1

Test	**Method**	**Units**	**LOD**									
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	132	<20	<20	<20	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	4	2	<2	3	4	<2	3	4	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5	52.8	55.8	<2.5	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	53	97	94	44	45	15	29	28	29	<3
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	105	142	160	108	110	83	78	82	77	<12
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	9	17	3	11	11	<2	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	16	<7	<7	<7	<7	<7	<7	<7	<7	404
Total Dissolved Iron #	TM30/PM14	ug/l	<20	63	516	921	<20	<20	1239	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	40	333	349	<2	<2	22	<2	<2	<2	<2
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	4	5	4	<2	<2	<2	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	31	38	17	46	46	<2	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	7.2	<1.5	<1.5	36.4	36.8	<1.5	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	3	6	<3	40	41	<3	<3	<3	<3	<3
VOC MS													
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	99	96	100	101	94	102	95	97	96	92
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	145	143	145	148	141	148	142	145	145	149
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	99	96	100	101	94	102	95	97	96	92
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	145	143	145	148	141	148	142	145	145	149
SVOC MS													
Phenols													
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
PAHs													
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phthalates													
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Other SVOCs													
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	122	114	116	121	119	119	105	119	115	121
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	129	130	127	127	125	128	111	130	130	123
TPH CWG													
Aliphatics													
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics													
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	100
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	100
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	100
Alcohols/Acetates													
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Salinity	TM64/PM0	%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	567	774	893	513	530	992	896	893	849	4
A	pH #	TM73/PM0	pH units	<0.01	7.45	7.13	7.52	7.11	7.03	7.61	8.39	8.35	8.37	6.07
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	40	56	33	<10	<10	<10	<10	<10	<10	<10
	Total Dissolved Solids #	TM20/PM0	mg/l	<35	533	542	565	419	401	651	588	603	567	<35
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	29.2	112.6	161.8	93.7	92.9	165.9	92.4	91.4	97.8	<0.5
B	Chloride #	TM38/PM0	mg/l	<0.3	11.6	12.8	27	8.7	8.8	47.9	58.4	57.8	57.9	<0.3
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	154.4	40.8	3.4	68.7	69	1.1	28.5	29.8	29.5	<0.2
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.15	<0.02	<0.02	<0.02	<0.02	<0.02	0.05	0.06	0.06	<0.02
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	121	232	252	89	86	298	270	264	276	6
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	121	232	252	89	86	298	258	255	266	6
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	71.8	115.2	108.8	73.9	73.4	154.5	140.3	143.5	139.6	<0.2
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	9.1	9.7	9	6.1	6.1	14.3	8.1	8.5	8.2	<0.1
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	37	36.8	48.1	22.4	22	2.9	7.2	8	8	<0.1
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	8.5	9.9	36.8	9.1	9.1	38.5	28.1	28.9	27.9	<0.1
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.1	0.05	0.08	<0.03	<0.03	0.14	0.04	0.05	0.05	<0.03
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.13	0.06	0.1	<0.03	<0.03	0.18	0.05	0.06	0.07	<0.03
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	1	<1	<1	20	1	2	6	<1

Key

A	Key physio-chemical paramter
B	Major anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L

		GWMBH1R/3	GWMBH2R/3	GWMBH3R/3	GWMBH5/3	GWMBH5/3D	GWMBH4/3	EB1/3	EB2/3	EB3/3
Sulphate	meq/l	0.608	2.344	3.369	1.951	1.934	3.454	1.924	1.903	2.036
Chloride	meq/l	0.327	0.361	0.762	0.245	0.248	1.351	1.647	1.630	1.633
Nitrate	meq/l	2.490	0.658	0.055	1.108	1.113	0.018	0.460	0.481	0.476
Total Alk	meq/l	2.418	4.636	5.036	1.778	1.718	5.955	5.155	5.095	5.315
Calcium	meq/l	3.583	5.749	5.429	3.688	3.663	7.710	7.001	7.161	6.966
Magnesium	meq/l	0.749	0.798	0.741	0.502	0.502	1.177	0.667	0.699	0.675
Potassium	meq/l	0.946	0.941	1.230	0.573	0.563	0.074	0.184	0.205	0.205
Sodium	meq/l	0.370	0.431	1.601	0.396	0.396	1.675	1.222	1.257	1.214
Ammonium	meq/l	0.007	0.004	0.006	0.001	0.001	0.010	0.003	0.004	0.004
Sum Anions	meq/l	5.843	7.999	9.221	5.083	5.014	10.778	9.186	9.109	9.460
Sum Cations	meq/l	5.655	7.922	9.006	5.159	5.124	10.645	9.077	9.325	9.063
Ion blanace error	%	1.6%	0.5%	1.2%	-0.7%	-1.1%	0.6%	0.6%	-1.2%	2.1%

Element Materials Technology

Report: **Liquid**

EMT Job No: 21/322

Client: Envireau Ltd

Client ref: P21-008

Location: Wressle

Contact Phil Ham

	EB1	EB2	EB3
Sample ID	EB1/4	EB2/4	EB3/4
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	11/01/2021	11/01/2021	11/01/2021
Sample Received Date	13/01/2021	13/01/2021	13/01/2021
EMT Sample No	1-7	8-14	15-21
Batch Number	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	4	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	4.7	<2.5	4.4
Dissolved Barium #	TM30/PM14	ug/l	<3	31	31	31
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	64	63	57
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	7	6	7
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	2.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	3	3	3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	102	101	101

Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	105	102	104
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	102	101	101
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	105	102	104
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	94	95	95
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	98	102	97
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10

	Alcohols/Acetates						
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	856	824	815
A	pH #	TM73/PM0	pH units	<0.01	8.2	8.23	8.21
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	585	586	613
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	96.7	98.1	92
B	Chloride #	TM38/PM0	mg/l	<0.3	48.3	48.3	48.5
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	46.2	46.5	47.3
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.06	0.06	0.06
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	275	276	270
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	275	276	270
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	144.3	144.5	146.6
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6.4	6.5	6.6
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4.1	4.3	4.3
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	24.4	24.4	24.8
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.04	0.05	0.04
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.05	0.06	0.05
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1

Key

A	Key physio-chemical parameter
B	Majjor Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/4	EB2/4	EB3/4
Sulphate	meq/l	2.013	2.043	1.916
Chloride	meq/l	1.362	1.362	1.368
Nitrate	meq/l	0.745	0.750	0.763
Total Alk	meq/l	5.495	5.515	5.395
Calcium	meq/l	7.201	7.211	7.315
Magnesium	meq/l	0.527	0.535	0.543
Potassium	meq/l	0.105	0.110	0.110
Sodium	meq/l	1.061	1.061	1.079
Ammonium	meq/l	0.003	0.004	0.003
Sum Anions	meq/l	9.616	9.670	9.442
Sum Cations	meq/l	8.896	8.920	9.050
Ion blanace error	%	4%	4%	2%

Element Materials Technology

Report: **Liquid**

EMT Job No: 21/737

Client: Envireau Ltd

Client ref: P21-008

Location: Wressle

Contact Joe Shipperbottom

	EB1	EB2	EB3
Sample ID	EB1/5	EB2/5	EB3/5
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	19/01/2021	19/01/2021	19/01/2021
Sample Received Date	21/01/2021	21/01/2021	21/01/2021
EMT Sample No	1-7	8-14	15-21
Batch Number	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	3
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	27	26	26
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	36	37	33
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	10	10	10
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	2.4	3	2.7
Dissolved Zinc #	TM30/PM14	ug/l	<3	4	3	3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	101	102	99

Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	96	97	98
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	101	102	99
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	96	97	98
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	90	96	98
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	97	101	105
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10

	Alcohols/Acetates						
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	805	786	791
A	pH #	TM73/PM0	pH units	<0.01	8.16	8.37	8.16
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	12	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	543	536	549
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	89.1	87.8	87.2
B	Chloride #	TM38/PM0	mg/l	<0.3	51.8	51.1	51.8
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	44.2	42.9	42.6
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.03	0.02	0.02
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	237	225	238
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	237	238	238
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	134.1	131.8	128.7
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	5.6	5.6	5.5
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	3.5	3.4	3.5
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	29.1	28.7	28.9
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.04	0.04	0.04
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.05	0.05	0.05
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1

Key

A	Key physio-chemical parameter
B	Majjor Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/5	EB2/5	EB3/5
Sulphate	meq/l	1.855	1.828	1.816
Chloride	meq/l	1.461	1.441	1.461
Nitrate	meq/l	0.713	0.692	0.687
Total Alk	meq/l	4.736	4.756	4.756
Calcium	meq/l	6.692	6.577	6.422
Magnesium	meq/l	0.461	0.461	0.453
Potassium	meq/l	0.090	0.087	0.090
Sodium	meq/l	1.266	1.248	1.257
Ammonium	meq/l	0.003	0.003	0.003
Sum Anions	meq/l	8.765	8.717	8.719
Sum Cations	meq/l	8.511	8.376	8.224
Ion blanace error	%	1%	2%	3%

Element Materials Technology

Report: **Liquid**

EMT Job No: 21/737

Client: Envireau Ltd

Client ref: P21-008

Location: Wressle

Contact Joe Shipperbottom

	EB1	EB2	EB3
Sample ID	EB1/6	EB2/6	EB3/6
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	26/01/2021	26/01/2021	26/01/2021
Sample Received Date	28/01/2021	28/01/2021	28/01/2021
EMT Sample No	1-7	8-14	15-21
Batch Number	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	3.9	2.7	3.1
Dissolved Barium #	TM30/PM14	ug/l	<3	26	26	26
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	45	45	46
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	8	7	8
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	2.3	3	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	101	103	100

Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	97	99	99
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	101	103	100
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	97	99	99
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	92	94	95
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	98	98	104
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10

	Alcohols/Acetates						
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	818	827	816
A	pH #	TM73/PM0	pH units	<0.01	8.21	8.25	8.23
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	12	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	571	561	559
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	99	98.6	99.2
B	Chloride #	TM38/PM0	mg/l	<0.3	40.1	40.1	40.1
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	47.6	48.2	48
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	<0.02	<0.02	<0.02
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	260	262	266
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	260	262	266
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	144.3	143.6	143
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6	6	6
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	3.5	3.7	3.7
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	21.5	21.4	21.3
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.03	0.03	0.03
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.04	0.04	0.04
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1

Key

A	Key physio-chemical parameter
B	Majjor Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/6	EB2/6	EB3/6
Sulphate	meq/l	2.061	2.053	2.065
Chloride	meq/l	1.131	1.131	1.131
Nitrate	meq/l	0.768	0.777	0.774
Total Alk	meq/l	5.195	5.235	5.315
Calcium	meq/l	7.201	7.166	7.136
Magnesium	meq/l	0.494	0.494	0.494
Potassium	meq/l	0.090	0.095	0.095
Sodium	meq/l	0.935	0.931	0.926
Ammonium	meq/l	0.002	0.002	0.002
Sum Anions	meq/l	9.155	9.197	9.286
Sum Cations	meq/l	8.721	8.687	8.653
Ion blanace error	%	2%	3%	4%

Element Materials Technology

Report: **Liquid**

EMT Job No: 21/4013
Client: Envireau Ltd
Client ref: P21-008
Location: Wressle
Contact Joe Shipperbottom

	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH5	GWMBH4/7	EB1	EB2	EB3	Blank	EB3 duplicate
Sample ID	GWMBH1R/7	GWMBH2R/7	GWMBH3R/7	GWMBH5/7	GWMBH4/7	EB1/7	EB2/7	EB3/7	B/7	EB3/7D
Depth										
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sampled Date	16/03/2021	16/03/2021	16/03/2021	16/03/2021	16/03/2021	16/03/2021	16/03/2021	16/03/2021	16/03/2021	16/03/2021
Sample Received Date	18/03/2021	18/03/2021	18/03/2021	18/03/2021	18/03/2021	18/03/2021	18/03/2021	18/03/2021	18/03/2021	18/03/2021
EMT Sample No	33-40	41-48	49-56	65-72	57-64	1-8	9-16	17-24	25-32	73-80
Batch Number	1	1	1	1	1	1	1	1	1	1

Test	Method	Units	LOD										
Dissolved Aluminium #	TM30/PM14	ug/l	<20	-	-	-	-	-	<20	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	11.2	8.5	<2.5	38.4	<2.5	<2.5	3.5	2.7	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	-	-	-	-	-	30	30	30	<3	29
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	95	199	119	83	91	51	51	56	19	50
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	-	-	-	-	-	<1.5	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	16	<7	<7	11	<7	<7	<7	<7	23	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	42	95	67	22	6284	<20	21	20	<20	21
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	7	180	222	3	128	10	11	11	<2	10
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	24	28	18	78	3	<2	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	4	<3	<3	4	<3	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	-	-	-	-	-	<1.5	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	7	12	6	104	<3	<3	<3	<3	<3	<3
VOC MS													
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	-	-	-	-	-	<4	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	-	-	-	-	-	103	107	102	100	101
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	-	-	-	-	-	95	97	93	91	92
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	-	-	-	-	-	103	107	102	100	101
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	-	-	-	-	-	95	97	93	91	92
SVOC MS													
Phenols													
2-Chlorophenol #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
PAHs													
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Phthalates													
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	-	-	-	-	-	<1.5	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Other SVOCs													
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1

1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	-	-	-	-	-	121	121	120	121	120
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	-	-	-	-	-	129	118	118	121	122
TPH CWG													
Aliphatics													
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics													
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Alcohols/Acetates													
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	-	-	-	-	-	<500	<500	<500	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	-	-	-	-	-	<500	<500	<500	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
PAH MS	TM4/PM30	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
Naphthalene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	-	-	-	-	-
Fluorene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-
Anthracene #	TM4/PM30	ug/l	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	-	-	-	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-
Pyrene #	TM4/PM30	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	-	-	-	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-
Chrysene #	TM4/PM30	ug/l	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	-	-	-	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	-	-	-	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	-	-	-	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-
Benzo(k)fluoranthene	TM4/PM30	%	<0	85	90	90	89	90	-	-	-	-	-
PAH Surrogate % Recovery													
Dissolved Strontium	TM30/PM14	ug/l	<5	117	306	219	176	1414	-	-	-	-	-
Total organic carbon	TM60/PM0	mg/l	<2	16	9	7	15	<2	-	-	-	-	-
MTBE #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
Benzene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
Toluene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
Ethylbenzene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
m/p-Xylene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
o-Xylene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
Salinity	TM64W/PM0	%	<0.1										
A Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	602	796	1088	858	982	804	882	882	4	858
A pH #	TM73/PM0	pH units	<0.01	7.25	7.1	7.46	7.26	7.71	8.35	8.36	8.39	6.16	8.36
A Total Suspended Solids #	TM37/PM0	mg/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10
A Total Dissolved Solids #	TM20/PM0	mg/l	<35	-	-	-	-	-	614	607	601	<35	625
B Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	54.8	211.1	233.4	119.5	168.1	90.8	91.1	91.4	<0.5	90
B Chloride #	TM38/PM0	mg/l	<0.3	16	12.1	112.7	9.9	49.1	52.5	52.8	52.7	<0.3	52.4
B Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	113.8	32.6	5.2	176.8	0.7	38.5	38.8	41.8	<0.2	42.3
B Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	-	-	-	-	-	0.09	0.09	0.09	<0.02	0.09
B Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	-	-	-	-	-	254	242	233	11	238
B Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	120	150	122	100	252	254	261	253	11	255
C Dissolved Calcium #	TM30/PM14	mg/l	<0.2	71.5	123.6	125.4	109.8	145.7	149.7	148.8	149.4	<0.2	150.5
C Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	10.2	8.1	13.4	13.1	16.5	6.4	6.5	6.5	<0.1	6.5
C Dissolved Potassium #	TM30/PM14	mg/l	<0.1	31.6	35.3	45.1	29.6	2.8	3.8	4.1	4.2	<0.1	4.2
C Dissolved Sodium #	TM30/PM14	mg/l	<0.1	9.2	7.6	44.4	11.2	41.3	26.5	26.5	26.6	<0.1	26.7
C Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.03	0.04	0.07	0.06	0.19	0.06	0.06	0.05	0.03	0.06
C Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	-	-	-	-	-	0.08	0.08	0.07	0.04	0.08
D Dissolved Methane #	TM25/PM0	ug/l	<1	-	-	-	-	-	2	1	1	<1	1

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L

		GWMBH1R/7	GWMBH2R/7	GWMBH3R/7	GWMBH5/7	GWMBH4/7	EB1/7	EB2/7	EB3/7	B/7	EB3/7D
Sulphate	meq/l	1.141	4.395	4.860	2.488	3.500	1.891	1.897	1.903		1.874
Chloride	meq/l	0.451	0.341	3.179	0.279	1.385	1.481	1.489	1.486		1.478
Nitrate	meq/l	1.835	0.526	0.084	2.851	0.011	0.621	0.626	0.674		0.682
Total Alk	meq/l	2.398	2.997	2.438	1.998	5.036	5.075	5.215	5.055		5.095
Calcium	meq/l	3.568	6.168	6.257	5.479	7.270	7.470	7.425	7.455		7.510
Magnesium	meq/l	0.839	0.667	1.103	1.078	1.358	0.527	0.535	0.535		0.535
Potassium	meq/l	0.808	0.903	1.153	0.757	0.072	0.097	0.105	0.107		0.107
Sodium	meq/l	0.400	0.331	1.931	0.487	1.796	1.153	1.153	1.157		1.161
Ammonium	meq/l	0.002	0.003	0.005	0.004	0.014	0.004	0.004	0.004		0.004
Sum Anions	meq/l	5.825	8.260	10.560	7.617	9.932	9.068	9.227	9.119	0.000	9.130
Sum Cations	meq/l	5.618	8.070	10.450	7.805	10.510	9.251	9.222	9.258	0.000	9.318
Ion blanace error	%	1.8%	1.2%	1%	-1%	-3%	-1%	0%	-1%		-1%

Element Materials Technology

Report: **Liquid**

EMT Job No: 21/5682

Client: Envireau Ltd

Client ref: P21-008

Location: Wressle

Contact Phil Ham

	EB1	EB2	EB3
Sample ID	EB1/8	EB2/8	EB3/8
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	14/04/2021	14/04/2021	14/04/2021
Sample Received Date	16/04/2021	16/04/2021	16/04/2021
EMT Sample No	1-7	8-14	15-21
Batch Number	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	28	27	27
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	46	46	47
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	25	<20	21
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	7	7	7
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	98	91	102

Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	110	100	105
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	98	91	102
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	110	100	105
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	74	66	77
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	90	81	91
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10

	Alcohols/Acetates						
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	875	883	889
A	pH #	TM73/PM0	pH units	<0.01	8.34	8.33	8.33
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	625	624	635
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	101.6	100	99.7
B	Chloride #	TM38/PM0	mg/l	<0.3	53.9	53.1	53.4
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	38.3	38.9	39.2
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.07	0.08	0.08
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	254	252	246
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	269	266	261
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	146	142.7	145.5
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7.2	7.1	7.3
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4.1	4.4	4.6
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	26.7	26	26.4
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.03	0.03	0.03
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.04	0.04	0.04
D	Dissolved Methane #	TM25/PM0	ug/l	<1	6	<1	5

Key

A	Key physio-chemical parameter
B	Majjor Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/8	EB2/8	EB3/8
Sulphate	meq/l	2.115	2.082	2.076
Chloride	meq/l	1.520	1.498	1.506
Nitrate	meq/l	0.618	0.627	0.632
Total Alk	meq/l	5.375	5.315	5.215
Calcium	meq/l	7.285	7.121	7.260
Magnesium	meq/l	0.592	0.584	0.601
Potassium	meq/l	0.105	0.113	0.118
Sodium	meq/l	1.161	1.131	1.148
Ammonium	meq/l	0.002	0.002	0.002
Sum Anions	meq/l	9.629	9.522	9.430
Sum Cations	meq/l	9.146	8.951	9.129
Ion blanace error	%	3%	3%	2%

Element Materials Technology

Report:	**Liquid**
EMT Job No:	21/7567
Client:	Envireau Ltd
Client ref:	P21-008
Location:	Wressle
Contact	Phil Ham

	EB1	EB2	EB3
Sample ID	EB1/9	EB2/9	EB3/9
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	18/05/2021	18/05/2021	18/05/2021
Sample Received Date	20/05/2021	20/05/2021	20/05/2021
EMT Sample No	1-9	10-18	19-27
Batch Number	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	30	29	31
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	60	64	61
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	25	21	27
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	8	8	19
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	103	98	103

Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	98	91	98
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	103	98	103
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	98	91	98
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	105	106	100
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	129	121	118
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10

	Alcohols/Acetates						
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	835	786	792
A	pH #	TM73/PM0	pH units	<0.01	8.2	8.2	8.23
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	11	11	14
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	577	550	578
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	93.4	94.3	93.8
B	Chloride #	TM38/PM0	mg/l	<0.3	53.9	53.4	53.6
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	30.4	30.7	30.5
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.06	0.06	0.06
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	245	239	246
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	245	239	246
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	139.3	138.3	137.9
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7	7	7
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4.5	4.6	4.7
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	26	25.7	25.4
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	<0.03	0.11	0.03
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.03	0.14	0.04
D	Dissolved Methane #	TM25/PM0	ug/l	<1	2	3	4

Key

A	Key physio-chemical parameter
B	Majjor Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/9	EB2/9	EB3/9
Sulphate	meq/l	1.945	1.963	1.953
Chloride	meq/l	1.520	1.506	1.512
Nitrate	meq/l	0.490	0.495	0.492
Total Alk	meq/l	4.896	4.776	4.916
Calcium	meq/l	6.951	6.901	6.881
Magnesium	meq/l	0.576	0.576	0.576
Potassium	meq/l	0.115	0.118	0.120
Sodium	meq/l	1.131	1.118	1.105
Ammonium	meq/l	0.002	0.008	0.002
Sum Anions	meq/l	8.851	8.740	8.872
Sum Cations	meq/l	8.775	8.721	8.684
Ion blanace error	%	0%	0%	1%

Element Materials Technology

Report: **Liquid**

EMT Job No:	21/9334 & 21/9339
Client:	Envireau Ltd
Client ref:	P21-008
Location:	Wressle
Contact	Joe Shipperbottom

	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH5	GWMBH4/7	EB1	EB2	EB3	Blank	EB3 duplicate
Sample ID	GWMBH1R/10	GWMBH2R/10	GWMBH3R/10	GWMBH5/10	GWMBH4/10	EB1/10	EB2/10	EB3/10	B/10	EB3/10D
Depth										
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sampled Date	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021	16/06/2021
Sample Received Date	19/06/2021	19/06/2021	19/06/2021	19/06/2021	19/06/2021	19/06/2021	19/06/2021	19/06/2021	19/06/2021	19/06/2021
EMT Sample No	1-7	8-14	15-21	29-35	22-28	1-9	10-18	19-27	28-36	37-45
Batch Number	1	1	1	1	1	1	1	1	1	1

Test	Method	Units	LOD									
Dissolved Aluminium #	TM30/PM14	ug/l	<20	-	-	-	-	-	<20	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	5.6	<2.5	<2.5	38.9	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	-	-	-	-	-	33	33	33	<3	33
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	84	151	127	90	97	60	59	61	<12	60
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	10	<7	<7	11	<7	<7	<7	<7	17	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	33	416	173	<20	1594	<20	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	5	291	386	<2	55	3	3	5	<2	5
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	21	35	22	74	<2	<2	3	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	6	<3	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	-	-	-	-	-	<1.5	1.6	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	10	18	5	95	3	<3	<3	<3	<3	<3
VOC MS													
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	-	-	-	-	-	<4	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	-	-	-	-	-	118	117	112	116	118
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	-	-	-	-	-	114	114	110	114	114
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	-	-	-	-	-	118	117	112	116	118
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	-	-	-	-	-	114	114	110	114	114
SVOC MS													
Phenols													
2-Chlorophenol #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
PAHs													
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Phthalates													
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	-	-	-	-	-	<1.5	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Other SVOCs													
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1

1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	-	-	-	-	-	141	133	123	137	127
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	-	-	-	-	-	148	142	134	144	138
TPH CWG													
Aliphatics													
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	8	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	30	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	38	<10
Aromatics													
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	<10
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	58	<10
Alcohols/Acetates													
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	-	-	-	-	-	<500	<500	<500	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	-	-	-	-	-	<500	<500	<500	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100
PAH MS													
Naphthalene #	TM4/PM30	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-
Fluorene #	TM4/PM30	ug/l	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	-	-	-	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-
Anthracene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	-	-	-	-	-
Pyrene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	-	-	-	-	-
Chrysene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	-	-	-	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	-	-	-	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	-	-	-	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	83	77	70	74	71	-	-	-	-	-
Dissolved Strontium	TM30/PM14	ug/l	<5	194	224	206	172	1769	-	-	-	-	-
Total organic carbon	TM60/PM0	mg/l	<2	11	9	6	16	<2	-	-	-	-	-
MTBE #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
Benzene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
Toluene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
Ethylbenzene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
m/p-Xylene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
o-Xylene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
	Salinity	TM64W/PM0	%	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	1085	809	1016	869	990	835	843	861	4	848
A	pH #	TM73/PM0	pH units	<0.01	7.4	7.24	7.66	7.34	7.88	8.34	8.37	8.35	6.14	8.33
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	-	-	-	-	-	575	586	571	<35	594
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	39.5	114.7	195.6	119.4	154.1	93.3	94.1	93.5	<0.5	92.5
B	Chloride #	TM38/PM0	mg/l	<0.3	57.7	32.1	97	8.8	46.1	51.6	51.3	50.8	<0.3	50.5
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	335.1	44.9	9.5	203.1	0.5	30.6	30.8	30.7	<0.2	30.6
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	-	-	-	-	-	0.12	0.14	0.14	<0.02	0.14
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	-	-	-	-	-	254	241	231	11	254
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	106	170	134	94	280	269	257	246	11	268
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	134.4	113.9	120.7	115.8	143.7	147.4	147.3	146	<0.2	145.3
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	20.5	9.4	12.1	13.9	19.4	7.5	7.6	7.6	<0.1	7.5
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	49.6	34.6	47.9	32.9	2.9	4.9	5.3	5.4	<0.1	5.4
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	10.5	9.9	39.5	13.6	44.4	26.7	26.8	26.6	<0.1	26.5
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.04	0.05	0.05	0.04	0.21	0.05	0.05	0.06	<0.03	0.05
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	-	-	-	-	-	0.07	0.06	0.08	<0.03	0.07
D	Dissolved Methane #	TM25/PM0	ug/l	<1	-	-	-	-	-	7	7	9	<1	9

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		GWMBH1R/10	GWMBH2R/10	GWMBH3R/10	GWMBH5/10	GWMBH4/10	EB1/10	EB2/10	EB3/10	B/10	EB3/10D
Sulphate	meq/l	0.822	2.388	4.073	2.486	3.208	1.943	1.959	1.947		1.926
Chloride	meq/l	1.628	0.905	2.736	0.248	1.300	1.455	1.447	1.433		1.424
Nitrate	meq/l	5.404	0.724	0.153	3.275	0.008	0.493	0.497	0.495		0.493
Total Alk	meq/l	2.118	3.397	2.678	1.878	5.595	5.375	5.135	4.916		5.355
Calcium	meq/l	6.707	5.684	6.023	5.778	7.171	7.355	7.350	7.285		7.250
Magnesium	meq/l	1.687	0.774	0.996	1.144	1.596	0.617	0.625	0.625		0.617
Potassium	meq/l	1.269	0.885	1.225	0.841	0.074	0.125	0.136	0.138		0.138
Sodium	meq/l	0.457	0.431	1.718	0.592	1.931	1.161	1.166	1.157		1.153
Ammonium	meq/l	0.003	0.004	0.004	0.003	0.015	0.004	0.004	0.004		0.004
Sum Anions	meq/l	9.972	7.415	9.639	7.888	10.112	9.267	9.038	8.790	0.000	9.199
Sum Cations	meq/l	10.122	7.776	9.965	8.358	10.787	9.263	9.281	9.210	0.000	9.162
Ion blanace error	%	-0.7%	-2.4%	-2%	-3%	-3%	0%	-1%	-2%		0%

Element Materials Technology

Report: Liquid

EMT Job No:	21/11477
Client:	Envireau Ltd
Client ref:	P21-008
Location:	Wressle
Contact	Joe Shipperbottom

	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH5	GWMBH4/7	EB1	EB2	EB3	Blank	MBH5 duplic	Proppant Fluid
Sample ID	GWMBH1R/11	GWMBH2R/11	GWMBH3R/11	GWMBH5/11	GWMBH4/11	EB1/11	EB2/11	EB3/11	B/11	GWMBH5/11D	PF/11
Depth											
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water	Surface Water	Ground Water	Surface Water
Sampled Date	26/07/2021	26/07/2021	26/07/2021	26/07/2021	26/07/2021	26/07/2021	26/07/2021	26/07/2021	26/07/2021	26/07/2021	26/07/2021
Sample Received Date	28/07/2021	28/07/2021	28/07/2021	28/07/2021	28/07/2021	28/07/2021	28/07/2021	28/07/2021	28/07/2021	28/07/2021	28/07/2021
EMT Sample No	1-7	8-14	15-21	29-35	22-28	36-42	43-49	50-56	57-63	70-76	64-69
Batch Number	1	1	1	1	1	1	1	1	1	1	1

Test	Method	Units	LOD											
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2	3	<2	<2	<2	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	7.8	<2.5	<2.5	40.5	<2.5	<2.5	<2.5	<2.5	<2.5	36.6	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	112	115	123	87	22	34	35	35	<3	91	31
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	91	132	139	99	84	68	72	69	18	96	21294
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	2.3	2.7	1.9	2	<1.5	<1.5	<1.5	<1.5	<1.5	2.6	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	14	15	6	18	<2	<2	<2	<2	<2	18	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7	<7	<7	<7	<7	<7	23	10	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	32	561	373	<20	2806	<20	<20	<20	<20	<20	842
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	6	314	618	<2	53	3	8	11	<2	2	9
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	4	5	5	2	<2	<2	<2	<2	<2	3	8
Dissolved Nickel #	TM30/PM14	ug/l	<2	24	35	12	60	<2	3	2	2	<2	64	2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	5	<3	<3	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	15.6	1.8	1.7	33.1	<1.5	<1.5	2.4	<1.5	<1.5	32.1	3.8
Dissolved Zinc #	TM30/PM14	ug/l	<3	12	16	4	78	<3	<3	<3	<3	<3	82	45
VOC MS														
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	3
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	105	102	102	103	101	110	110	110	106	114	108
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	105	103	103	100	102	106	107	106	106	110	106
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	105	102	102	103	101	110	110	110	106	114	108
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	105	103	103	100	102	106	107	106	106	110	106
SVOC MS														
Phenols														
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	15
PAHs														
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phthalates														
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<30
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Other SVOCs														
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	94	93	95	92	98	100	92	96	99	100	105
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	124	110	112	114	118	123	118	120	124	121	127
TPH CWG														
Aliphatics														
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	400
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	64
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	40
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1910
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	110
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2524
Aromatics														
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	140
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	140
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2664
Alcohols/Acetates														
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	15380
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	296
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Dissolved Strontium	TM30/PM14	ug/l	<5	214	261	245	181	1668	387	389	389	<5	179	260
Dissolved Silver	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1
A Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	1048	778	1008	775	933	854	864	828	6	777	1824
A pH #	TM73/PM0	pH units	<0.01	6.96	8.12	7.58	7.03	7.92	8.44	8.39	8.4	5.86	7.17	8.75
A Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	34	29	<10	18	<10	<10	<10	<10	<10	397
A Total Dissolved Solids #	TM20/PM0	mg/l	<35	915	586	710	660	624	579	580	579	<35	670	4840
B Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	38.4	96.1	216.8	139.8	154.6	91.8	90.8	93.9	<0.5	139.7	77.7
B Chloride #	TM38/PM0	mg/l	<0.3	56	31.9	83.3	11.8	45.6	59.6	58.9	59.6	0.4	12.1	329.6
B Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	335.6	49.4	9.3	136.9	<0.2	22.6	23.5	23.4	0.9	131.6	0.3
B Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	0.07	0.08	<0.02	<0.02	0.7
B Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	125	226	174	128	291	238	242	242	9	127	261
B Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	125	226	174	128	291	260	259	261	9	127	357
C Dissolved Calcium #	TM30/PM14	mg/l	<0.2	126.6	118.5	128.7	108.4	139.9	133.3	140.6	132	<0.2	108.9	68.9
C Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	19.5	11.2	12.6	12.5	20	8.1	8.8	8.2	<0.1	12.5	6.7
C Dissolved Potassium #	TM30/PM14	mg/l	<0.1	48.5	36.2	49.8	33.3	2.7	6.3	7.5	7.4	<0.1	33.5	13.5
C Dissolved Sodium #	TM30/PM14	mg/l	<0.1	12	12.3	38.9	17.8	46	31.6	33.1	31.2	<0.1	18	136.8
C Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.03	0.05	0.05	0.05	0.23	0.05	0.05	0.05	<0.03	0.05	2.29
C Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.04	0.07	0.07	0.06	0.3	0.07	0.06	0.07	<0.03	0.06	2.95
D Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1	<1	32	<1	5	8	<1	<1	<1

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L

		GWMBH1R/11	GWMBH2R/11	GWMBH3R/11	GWMBH5/11	GWMBH4/11	EB1/11	EB2/11	EB3/11	B/11	GWMBH5/11D	PF/11
Sulphate	meq/l	0.800	2.001	4.514	2.911	3.219	1.911	1.891	1.955		2.909	1.618
Chloride	meq/l	1.580	0.900	2.350	0.333	1.286	1.681	1.661	1.681		0.341	9.297
Nitrate	meq/l	5.412	0.797	0.150	2.208	0.000	0.364	0.379	0.377		2.122	0.005
Total Alk	meq/l	2.498	4.516	3.477	2.558	5.815	5.195	5.175	5.215		2.538	7.134
Calcium	meq/l	6.317	5.913	6.422	5.409	6.981	6.652	7.016	6.587		5.434	3.438
Magnesium	meq/l	1.605	0.922	1.037	1.029	1.646	0.667	0.724	0.675		1.029	0.551
Potassium	meq/l	1.240	0.926	1.274	0.852	0.069	0.161	0.192	0.189		0.857	0.345
Sodium	meq/l	0.522	0.535	1.692	0.774	2.001	1.375	1.440	1.357		0.783	5.950
Ammonium	meq/l	0.002	0.004	0.004	0.004	0.016	0.004	0.004	0.004		0.004	0.163
Sum Anions	meq/l	10.289	8.213	10.490	8.009	10.320	9.152	9.106	9.229	0.000	7.910	18.053
Sum Cations	meq/l	9.686	8.299	10.428	8.067	10.713	8.857	9.375	8.812	0.000	8.106	10.449
Ion blanace error	%	3.0%	-0.5%	0%	0%	-2%	2%	-1%	2%		-1%	27%

Element Materials Technology

Report:	**Liquid**
EMT Job No:	21/13143
Client:	Envireau Ltd
Client ref:	P21-008
Location:	Egdon Wressle
Contact	Joe Shipperbottom

	EB1	EB2	EB3
Sample ID	EB1/12	EB2/12	EB3/12
Depth			
Sample Type	Surface Water	Surface Water	Surface Water
Sampled Date	24/08/2021	24/08/2021	24/08/2021
Sample Received Date	25/08/2021	25/08/2021	25/08/2021
EMT Sample No	1-6	7-12	13-18
Batch Number	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	30	32	30
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	62	61	61
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	4	6	7
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	102	104	100

Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	104	103	102
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	102	104	100
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	104	103	102
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	99	97	101
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	121	116	122
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10

	Alcohols/Acetates						
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	834	807	795
A	pH #	TM73/PM0	pH units	<0.01	8.3	8.31	8.32
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	568	556	600
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	88.2	87.7	86.9
B	Chloride #	TM38/PM0	mg/l	<0.3	46.9	46.3	46.6
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	36.6	36.7	36.8
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.08	0.07	0.07
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	240	256	249
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	254	271	265
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	143	142.6	142.4
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6.6	6.7	6.7
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	5.3	5.5	5.7
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	23.5	23.6	23.6
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.04	0.04	0.05
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.05	0.05	0.06
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	6

Key

A	Key physio-chemical parameter
B	Majjor Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/12	EB2/12	EB3/12
Sulphate	meq/l	1.836	1.826	1.809
Chloride	meq/l	1.323	1.306	1.314
Nitrate	meq/l	0.590	0.592	0.593
Total Alk	meq/l	5.075	5.415	5.295
Calcium	meq/l	7.136	7.116	7.106
Magnesium	meq/l	0.543	0.551	0.551
Potassium	meq/l	0.136	0.141	0.146
Sodium	meq/l	1.022	1.027	1.027
Ammonium	meq/l	0.002	0.003	0.004
Sum Anions	meq/l	8.825	9.139	9.012
Sum Cations	meq/l	8.839	8.837	8.833
Ion blanace error	%	0%	2%	1%

Element Materials Technology

Report: Liquid

EMT Job No: 21/14565, 21/14566, 21/14568

Client: Envireau Ltd

Client ref: P21-008

Location: Wressle

Contact Joe Shipperbottom

	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH5	GWMBH4	EB1	EB2	EB3	Blank	EB3 duplicate	Interception Chamber
Sample ID	GWMBH1R/13	GWMBH2R/13	GWMBH3R/13	GWMBH5/13	GWMBH4/13	EB1/13	EB2/13	EB3/13	B/13	EB3/13D	DP/13
Depth											
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sampled Date	15/09/2021	15/09/2021	15/09/2021	15/09/2021	15/09/2021	15/09/2021	15/09/2021	15/09/2021	15/09/2021	15/09/2021	15/09/2021
Sample Received Date	17/09/2021	17/09/2021	17/09/2021	17/09/2021	17/09/2021	17/09/2021	17/09/2021	17/09/2021	17/09/2021	17/09/2021	17/09/2021
EMT Sample No	1-6	7-12	13-18	25-30	19-24	1-6	7-12	13-18	19-24	25-30	1
Batch Number	1	1	1	1	1	1	1	1	1	1	1

Test	Method	Units	LOD										
Dissolved Aluminium #	TM30/PM14	ug/l	<20	-	-	-	-	-	<20	<20	<20	<20	<20	-
Dissolved Antimony #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	3.4	<2.5	<2.5	39.7	<2.5	2.9	<2.5	<2.5	<2.5	<2.5	-
Dissolved Barium #	TM30/PM14	ug/l	<3	-	-	-	-	-	30	30	33	<3	33	-
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Dissolved Boron	TM30/PM14	ug/l	<12	98	144	134	96	65	61	60	53	<12	58	-
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	0.8	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	1.6	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-
Dissolved Cobalt #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Dissolved Copper #	TM30/PM14	ug/l	<7	9	<7	<7	9	<7	<7	<7	<7	28	<7	-
Total Dissolved Iron #	TM30/PM14	ug/l	<20	23	541	223	<20	520	<20	<20	<20	<20	<20	-
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Dissolved Manganese #	TM30/PM14	ug/l	<2	<2	237	565	<2	11	<2	3	4	<2	4	-
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Dissolved Nickel #	TM30/PM14	ug/l	<2	21	35	16	74	<2	<2	<2	<2	<2	<2	-
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
Dissolved Titanium	TM30/PM14	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5	-
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	-	-	-	-	-	1.7	<1.5	1.9	<1.5	<1.5	-
Dissolved Zinc #	TM30/PM14	ug/l	<3	8	15	4	89	6	<3	<3	<3	<3	<3	-
VOC MS														
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
Chloromethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
Bromomethane	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Chloroethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	-	-	-	-	-	<3	<3	<3	<3	<3	-
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
2,2-Dichloropropane	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Bromochloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Chloroform #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Carbon tetrachloride #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Benzene #	TM15/PM10	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Dibromomethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Bromodichloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Toluene #	TM15/PM10	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5	-
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Dibromochloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Chlorobenzene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Ethylbenzene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
m/p-Xylene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
o-Xylene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Styrene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Bromoform #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Isopropylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	-	-	-	-	-	<4	<4	<4	<4	<4	-
Bromobenzene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Propylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
2-Chlorotoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
4-Chlorotoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
tert-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
sec-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
n-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Hexachlorobutadiene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Naphthalene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	-	-	-	-	-	86	94	96	93	99	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	-	-	-	-	-	104	102	102	98	102	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
Benzene #	TM15/PM10	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Toluene #	TM15/PM10	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5	-
Ethylbenzene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
m/p-Xylene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
o-Xylene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	-	-	-	-	-	86	94	96	93	99	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	-	-	-	-	-	104	102	102	98	102	-
SVOC MS														
Phenols														
2-Chlorophenol #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
2-Methylphenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
2-Nitrophenol	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
4-Methylphenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Nitrophenol	TM16/PM30	ug/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10	-
Pentachlorophenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Phenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
PAHs														
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Naphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Acenaphthylene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Acenaphthene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Fluorene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Phenanthrene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Fluoranthene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Pyrene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Chrysene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Benzo(a)pyrene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Phthalates														
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5	-
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	-	-	-	-	-	<1.5	<1.5	<1.5	<1.5	<1.5	-
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Diethyl phthalate #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Dimethyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Other SVOCs														

1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
2-Nitroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
3-Nitroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Chloroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Nitroaniline	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Azobenzene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Carbazole #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Dibenzofuran #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Hexachlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Hexachloroethane #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Isophorone #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Nitrobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	-	-	-	-	-	121	130	127	133	126	-
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	-	-	-	-	-	125	128	130	131	128	-
TPH CWG														
Aliphatics														
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C35-C44	TM5/PM16/PM30	ug/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10	-
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aromatics														
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10	-
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Alcohols/Acetates														
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	-	-	-	-	-	<500	<500	<500	<500	<500	-
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	-	-	-	-	-	<500	<500	<500	<500	<500	-
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Propyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Butyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
Methyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
Ethyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
i-Propyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Propyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Butyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
PAH MS														
Naphthalene #	TM4/PM30	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-	-
Fluorene #	TM4/PM30	ug/l	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	-	-	-	-	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-	-
Anthracene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	-	-	-	-	-	-
Pyrene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	-	-	-	-	-	-
Chrysene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	-	-	-	-	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	-	-	-	-	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	-	-	-	-	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	92	100	97	86	101	-	-	-	-	-	-
Dissolved Strontium	TM30/PM14	ug/l	<5	210	251	232	179	905	-	-	-	-	-	-
Total organic carbon	TM60/PM0	mg/l	<2	15	14	10	20	<2	-	-	-	-	-	-
MTBE #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
Benzene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
Toluene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
Ethylbenzene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
m/p-Xylene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
o-Xylene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
	Salinity	TM64W/PM0	%	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	1106	800	1053	839	1037	797	774	776	7	778	-
A	pH #	TM73/PM0	pH units	<0.01	7.32	6.92	7.31	7.01	7.74	8.33	8.35	8.33	6.74	8.37	8.02
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	-	-	-	-	-	609	596	578	<35	577	-
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	47.6	119.3	232.9	125.1	181.9	94.8	93.6	93.2	<0.5	93.3	-
B	Chloride #	TM38/PM0	mg/l	<0.3	59.3	32.4	71.2	8.7	47.9	46.4	46	45.4	<0.3	45.2	25.9
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	310.7	46.1	8.9	175.2	0.8	27.2	27.1	26.1	<0.2	26.5	-
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	-	-	-	-	-	0.06	0.07	0.08	<0.02	0.07	-
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	-	-	-	-	-	228	228	224	17	217	-
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	132	206	176	118	282	258	260	254	17	250	-
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	148.1	117.1	135	113.1	157.2	143.8	140.3	133.7	<0.2	149	-
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	21.4	9.6	12.6	12.6	11.4	7	6.9	6.6	<0.1	7.3	-
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	58.4	36.6	57.1	34.7	3.3	5.8	6.1	6.2	<0.1	6.9	-
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	13.1	10.8	35.1	13.2	36.1	24.1	23.5	22.4	<0.1	25.1	-
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.03	0.05	0.06	0.03	0.11	0.04	0.05	0.05	<0.03	0.05	-
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	-	-	-	-	-	0.05	0.06	0.07	<0.03	0.06	-
D	Dissolved Methane #	TM25/PM0	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	5	-

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		GWMBH1R/13	GWMBH2R/13	GWMBH3R/13	GWMBH5/13	GWMBH4/13	EB1/13	EB2/13	EB3/13	B/13	EB3/13D	DP/13
Sulphate	meq/l	0.991	2.484	4.849	2.605	3.787	1.974	1.949	1.941		1.943	
Chloride	meq/l	1.673	0.914	2.008	0.245	1.351	1.309	1.297	1.281		1.275	
Nitrate	meq/l	5.011	0.743	0.144	2.825	0.000	0.439	0.437	0.421		0.427	
Total Alk	meq/l	2.638	4.116	3.517	2.358	5.635	5.155	5.195	5.075		4.996	
Calcium	meq/l	7.390	5.843	6.737	5.644	7.844	7.176	7.001	6.672		7.435	
Magnesium	meq/l	1.761	0.790	1.037	1.037	0.938	0.576	0.568	0.543		0.601	
Potassium	meq/l	1.494	0.936	1.460	0.887	0.084	0.148	0.156	0.159		0.176	
Sodium	meq/l	0.570	0.470	1.527	0.574	1.570	1.048	1.022	0.974		1.092	
Ammonium	meq/l	0.002	0.004	0.004	0.002	0.008	0.003	0.004	0.004		0.004	
Sum Anions	meq/l	10.312	8.258	10.518	8.033	10.773	8.877	8.879	8.717		8.640	
Sum Cations	meq/l	11.217	8.043	10.765	8.144	10.445	8.951	8.751	8.351		9.308	
Ion blanace error	%	-4.2%	1.3%	-1%	-1%	2%	0%	1%	2%		-4%	

Element Materials Technology

Report: **Liquid**

EMT Job No:	21/17044 21/17045
Client:	Envireau Ltd
Client ref:	P21-008
Location:	Wressle
Contact	Joe Shipperbottom

	EB1	EB2	EB3	Interception Chamber
Sample ID	EB1/14	EB2/14	EB3/14	DP/14
Depth				
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
Sampled Date	27/10/2021	27/10/2021	27/10/2021	27/10/2021
Sample Received Date	28/10/2021	28/10/2021	28/10/2021	28/10/2021
EMT Sample No	1-6	7-12	13-18	1
Batch Number	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	35	35	34
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	67	68	70
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	2	3	4
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	2	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2

1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	110	120	120
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	117	114	114
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	110	120	120
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	117	114	114
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	112	116	119
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	119	122	129
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10

	Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Alcohols/Acetates							
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	896	894	892	
A	pH #	TM73/PM0	pH units	<0.01	8.24	8.26	8.3	7.77
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	586	613	603	
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	93.5	93.8	96.1	
B	Chloride #	TM38/PM0	mg/l	<0.3	45.7	45.3	45.7	53.5
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	37.6	38.5	38.2	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.11	0.1	0.09	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	287	269	271	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	287	281	286	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	153	152.3	151.2	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7	6.9	6.9	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	5.9	6	6.2	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	24.3	24.1	24	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.03	0.03	0.08	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.04	0.04	0.1	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/13	EB2/13	EB3/13	DP/14
Sulphate	meq/l	1.947	1.953	2.001	
Chloride	meq/l	1.289	1.278	1.289	
Nitrate	meq/l	0.606	0.621	0.616	
Total Alk	meq/l	5.735	5.615	5.715	
Calcium	meq/l	7.635	7.600	7.545	
Magnesium	meq/l	0.576	0.568	0.568	
Potassium	meq/l	0.151	0.153	0.159	
Sodium	meq/l	1.057	1.048	1.044	
Ammonium	meq/l	0.002	0.002	0.006	
Sum Anions	meq/l	9.577	9.467	9.621	
Sum Cations	meq/l	9.421	9.371	9.321	
Ion blanace error	%	1%	1%	2%	

Element Materials Technology

Report: **Liquid**

EMT Job No:	21/18687
Client:	Envireau Ltd
Client ref:	P21-008
Location:	Wressle
Contact	Joe Shipperbottom

	EB1	EB2	EB3	Interception Chamber
Sample ID	EB1/15	EB2/15	EB3/15	DP/15
Depth				
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
Sampled Date	24/11/2021	24/11/2021	24/11/2021	24/11/2021
Sample Received Date	25/11/2021	25/11/2021	25/11/2021	25/11/2021
EMT Sample No	1-6	7-12	13-18	1
Batch Number	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	4.7	2.8	4.5
Dissolved Barium #	TM30/PM14	ug/l	<3	30	31	31
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	62	68	64
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	21	20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	8	9	9
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	2.1	2.6	2
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	3
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2

1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	104	97	96
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	107	97	100
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	104	97	96
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	107	97	100
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	117	129	117
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	128	143	144
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10

	Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Alcohols/Acetates							
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	852	858	831	
A	pH #	TM73/PM0	pH units	<0.01	8.24	8.28	8.28	n/a
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	<10	<10	n/a
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	600	613	611	
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	88.6	97.4	97.1	
B	Chloride #	TM38/PM0	mg/l	<0.3	44.7	44.5	44.4	n/a
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	37.1	37.5	37.4	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.06	0.06	0.06	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	298	284	286	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	298	284	286	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	149.5	160	149.8	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7.5	8	7.5	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	6	6.7	6.4	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	23.8	25.5	23.8	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	<0.03	<0.03	<0.03	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	<0.03	<0.03	<0.03	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	5	<1	<1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/13	EB2/13	EB3/13
Sulphate	meq/l	1.845	2.028	2.022
Chloride	meq/l	1.261	1.255	1.252
Nitrate	meq/l	0.598	0.605	0.603
Total Alk	meq/l	5.955	5.675	5.715
Calcium	meq/l	7.460	7.984	7.475
Magnesium	meq/l	0.617	0.658	0.617
Potassium	meq/l	0.153	0.171	0.164
Sodium	meq/l	1.035	1.109	1.035
Ammonium	meq/l	0.015	0.015	0.015
Sum Anions	meq/l	9.659	9.563	9.592
Sum Cations	meq/l	9.281	9.938	9.306
Ion blanace error	%	2%	-2%	2%

Element Materials Technology

Report: Liquid

EMT Job No: 21/14565, 21/14566, 21/14568

Client: Envireau Ltd

Client ref: P21-008

Location: Wressle

Contact Joe Shipperbottom

	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH5	GWMBH4	EB1	EB2	EB3	Blank	EB3 duplicate	Interception Chamber
Sample ID	GWMBH1R/16	GWMBH2R/16	GWMBH3R/16	GWMBH5/16	GWMBH4/16	EB1/16	EB2/16	EB3/16	B/16	EB3/16D	DP/16
Depth											
Sample Type	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sampled Date	16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Sample Received Date	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021
EMT Sample No	1-7	8-14	15-21	22-28	29-35	1-8	9-16	17-24	25-32	33-40	1
Batch Number	1	1	1	1	1	1	1	1	1	1	1

Test	Method	Units	LOD										
Dissolved Aluminium #	TM30/PM14	ug/l	<20	-	-	-	-	-	<20	<20	<20	<20	<20	-
Dissolved Antimony #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	11.4	7.7	<2.5	34.4	3.3	<2.5	<2.5	<2.5	<2.5	<2.5	-
Dissolved Barium #	TM30/PM14	ug/l	<3	-	-	-	-	-	26	27	27	<3	28	-
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Dissolved Boron	TM30/PM14	ug/l	<12	100	151	127	82	74	48	50	46	<12	50	-
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	0.8	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	1.7	<1.5	1.5	<1.5	<1.5	<1.5	3.6	<1.5	<1.5	-
Dissolved Cobalt #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Dissolved Copper #	TM30/PM14	ug/l	<7	13	<7	<7	10	<7	<7	<7	<7	35	<7	-
Total Dissolved Iron #	TM30/PM14	ug/l	<20	35	325	221	<20	1752	<20	<20	21	<20	<20	-
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Dissolved Manganese #	TM30/PM14	ug/l	<2	4	276	545	8	39	7	7	10	<2	10	-
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Dissolved Nickel #	TM30/PM14	ug/l	<2	23	34	16	64	<2	<2	<2	<2	<2	<2	-
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
Dissolved Titanium	TM30/PM14	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5	-
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	-	-	-	-	-	<1.5	<1.5	<1.5	<1.5	<1.5	-
Dissolved Zinc #	TM30/PM14	ug/l	<3	9	18	4	75	<3	<3	<3	<3	<3	<3	-
VOC MS														
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
Chloromethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
Bromomethane	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Chloroethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Dichloromethane (DCM) #	TM15/PM10	ug/l	<5	-	-	-	-	-	<3	<3	<3	<3	<3	-
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
2,2-Dichloropropane	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Bromochloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Chloroform #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Carbon tetrachloride #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Benzene #	TM15/PM10	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Dibromomethane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Bromodichloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Toluene #	TM15/PM10	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5	-
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Dibromochloromethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Chlorobenzene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Ethylbenzene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
m/p-Xylene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
o-Xylene #	TM15/PM10	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Styrene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Bromoform #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
Isopropylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	-	-	-	-	-	<4	<4	<4	<4	<4	-
Bromobenzene #	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Propylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
2-Chlorotoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
4-Chlorotoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
tert-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
sec-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
n-Butylbenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Hexachlorobutadiene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Naphthalene	TM15/PM10	ug/l	<2	-	-	-	-	-	<2	<2	<2	<2	<2	-
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	-	-	-	-	-	<3	<3	<3	<3	<3	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	-	-	-	-	-	100	102	102	105	105	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	-	-	-	-	-	116	116	114	117	116	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1	<0.1	<0.1	<0.1	-
Benzene #	TM15/PM10	ug/l	<0.5	<5	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Ethylbenzene #	TM15/PM10	ug/l	<1	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	-
m/p-Xylene #	TM15/PM10	ug/l	<2	<5	<5	<5	<5	<5	<2	<2	<2	<2	<2	-
o-Xylene #	TM15/PM10	ug/l	<1	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	-	-	-	-	-	100	102	102	105	105	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	-	-	-	-	-	116	116	114	117	116	-
SVOC MS														
Phenols														
2-Chlorophenol #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
2-Methylphenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
2-Nitrophenol	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
4-Methylphenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Nitrophenol	TM16/PM30	ug/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10	-
Pentachlorophenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Phenol	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
PAHs														
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Naphthalene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Acenaphthylene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Acenaphthene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Fluorene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Phenanthrene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Fluoranthene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Pyrene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Chrysene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Benzo(a)pyrene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Phthalates														
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	-	-	-	-	-	<5	<5	<5	<5	<5	-
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	-	-	-	-	-	<1.5	<1.5	<1.5	<1.5	<1.5	-
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Diethyl phthalate #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Dimethyl phthalate	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Other SVOCs														

1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
2-Nitroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
3-Nitroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Chloroaniline	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
4-Nitroaniline	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Azobenzene #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Carbazole #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Dibenzofuran #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Hexachlorobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Hexachloroethane #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Isophorone #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-
Nitrobenzene #	TM16/PM30	ug/l	<1	-	-	-	-	-	<1	<1	<1	<1	<1	-
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	-	-	-	-	-	131	126	130	133	131	-
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	-	-	-	-	-	137	131	131	133	132	-
TPH CWG														
Aliphatics														
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C35-C44	TM5/PM16/PM30	ug/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10	-
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aromatics														
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	-	-	-	-	-	<10	<10	<10	<10	<10	-
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Alcohols/Acetates														
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	-	-	-	-	-	<500	<500	<500	<500	<500	-
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	-	-	-	-	-	<500	<500	<500	<500	<500	-
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Propyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Butyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
Methyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
Ethyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
i-Propyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Propyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
n-Butyl Acetate	TM83/PM10	ug/l	<100	-	-	-	-	-	<100	<100	<100	<100	<100	-
PAH MS														
Naphthalene #	TM4/PM30	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-	-
Fluorene #	TM4/PM30	ug/l	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	-	-	-	-	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-	-
Anthracene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	-	-	-	-	-	-
Pyrene #	TM4/PM30	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	-	-	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	-	-	-	-	-	-
Chrysene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	-	-	-	-	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	-	-	-	-	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	-	-	-	-	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	-	-	-	-	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	90	95	97	89	93	-	-	-	-	-	-
Dissolved Strontium	TM30/PM14	ug/l	<5	170	282	244	200	1421	-	-	-	-	-	-
Total organic carbon	TM60/PM0	mg/l	<2	17	12	10	17	<2	-	-	-	-	-	-
MTBE #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
Benzene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
Toluene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
Ethylbenzene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
m/p-Xylene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
o-Xylene #	TM36/PM12	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-	-
	Salinity	TM64W/PM0	%	<0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	838	794	1049	781	958	831	829	798	7	829	-
A	pH #	TM73/PM0	pH units	<0.01	7.23	7.16	7.50	7.60	7.95	8.24	8.30	8.27	6.87	8.34	
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	-	-	-	-	-	<10	<10	<10	<10	10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	-	-	-	-	-	568	584	580	<35	579	-
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	51.9	135.8	224.9	133.4	169.8	87.0	85.7	87.1	<0.5	87.7	-
B	Chloride #	TM38/PM0	mg/l	<0.3	40.5	31.3	62.9	14.0	48.2	40.7	41.1	41.2	<0.3	41.1	351.8
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	209.8	49.2	5.2	109.4	0.7	43.6	43.3	43.7	0.3	43.2	-
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	-	-	-	-	-	0.03	0.04	0.04	<0.02	0.04	-
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	-	-	-	-	-	290	269	292	13	258	-
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	148	220	220	168	316	290	286	292	13	282	-
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	112.1	127.4	135.7	112.6	159.3	146.6	148.5	148.0	<0.2	146.7	-
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	17.1	10.8	13.4	12.2	13.9	6.4	6.5	6.5	<0.1	6.5	-
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	43.0	32.8	51.9	32.1	3.2	4.4	4.6	4.7	<0.1	4.7	-
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	11.4	11.6	30.8	17.0	39.4	23.8	24.0	24.1	<0.1	24.0	-
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.03	0.05	0.05	0.05	0.15	0.04	0.04	0.04	<0.03	0.05	-
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	-	-	-	-	-	0.05	0.05	0.05	<0.03	0.06	-
D	Dissolved Methane #	TM25/PM0	ug/l	<1	-	-	-	-	-	<1	6	<1	<1	<1	-

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		GWMBH1R/16	GWMBH2R/16	GWMBH3R/16	GWMBH5/16	GWMBH4/16	EB1/16	EB2/16	EB3/16	B/16	EB3/16D	DP/16
Sulphate	meq/l	1.081	2.827	4.683	2.778	3.535	1.811	1.784	1.813		1.826	
Chloride	meq/l	1.142	0.883	1.774	0.395	1.360	1.148	1.159	1.162		1.159	
Nitrate	meq/l	3.383	0.793	0.084	1.764	0.000	0.703	0.698	0.705		0.697	
Total Alk	meq/l	2.957	4.396	4.396	3.357	6.314	5.795	5.715	5.835		5.635	
Calcium	meq/l	5.594	6.357	6.771	5.619	7.949	7.315	7.410	7.385		7.320	
Magnesium	meq/l	1.407	0.889	1.103	1.004	1.144	0.527	0.535	0.535		0.535	
Potassium	meq/l	1.100	0.839	1.327	0.821	0.082	0.113	0.118	0.120		0.120	
Sodium	meq/l	0.496	0.505	1.340	0.739	1.714	1.035	1.044	1.048		1.044	
Ammonium	meq/l	0.002	0.004	0.004	0.004	0.011	0.003	0.003	0.003		0.004	
Sum Anions	meq/l	8.564	8.900	10.937	8.294	11.209	9.457	9.357	9.515		9.317	
Sum Cations	meq/l	8.599	8.593	10.545	8.187	10.899	8.993	9.109	9.091		9.023	
Ion blanace error	%	-0.2%	1.8%	2%	1%	1%	3%	1%	2%		2%	

Element Materials Technology

Report: **Liquid**

EMT Job No: 21/18687
Client: Envireau Ltd
Client ref: P21-008
Location: Wressle
Contact Joe Shipperbottom

	EB1	EB2	EB3	Interception Chamber
Sample ID	EB1/15	EB2/15	EB3/15	DP/17
Depth				
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
Sampled Date	21/01/2022	21/01/2022	21/01/2022	21/01/2022
Sample Received Date	22/01/2022	22/01/2022	22/01/2022	22/01/2022
EMT Sample No	1-6	7-12	13-18	1
Batch Number	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	24	26	26
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	39	38	36
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	5	7	6
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2

1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	103	104	105	
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	100	97	97	
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	103	104	105	
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	100	97	97	
SVOC MS							
Phenols							
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1
PAHs							
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Phthalates							
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Other SVOCs							
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	<0	114	112	112
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	<0	121	120	117
TPH CWG							
Aliphatics							
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Aromatics							
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	

	Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Alcohols/Acetates							
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Salinity	TM64W/PM0	%	<0.1				
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	840	840	841	
A	pH #	TM73/PM0	pH units	<0.01	8.26	8.25	8.24	7.95
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	566	555	571	35
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	<10	<10	<10	
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	94	93.8	94.2	
B	Chloride #	TM38/PM0	mg/l	<0.3	38.9	39.3	39.3	172.4
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	42.1	42.4	42.4	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.03	0.03	0.03	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	276	298	306	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	276	298	306	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	142.6	142.3	141.8	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6	6.1	6	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4	4.2	4.3	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	22.4	22.3	22.3	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.05	0.05	0.05	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.07	0.06	0.06	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/13	EB2/13	EB3/13
Sulphate	meq/l	1.957	1.953	1.961
Chloride	meq/l	1.097	1.109	1.109
Nitrate	meq/l	0.679	0.684	0.684
Total Alk	meq/l	5.515	5.955	6.115
Calcium	meq/l	7.116	7.101	7.076
Magnesium	meq/l	0.494	0.502	0.494
Potassium	meq/l	0.102	0.107	0.110
Sodium	meq/l	0.974	0.970	0.970
Ammonium	meq/l	0.015	0.015	0.015
Sum Anions	meq/l	9.248	9.700	9.868
Sum Cations	meq/l	8.701	8.695	8.665
Ion blanace error	%	3%	5%	6%

Element Materials Technology

Report: **Liquid**

EMT Job No: 21/18687
Client: Envireau Ltd
Client ref: P21-008
Location: Wressle
Contact Lewis Miles

	EB1	EB2	EB3	Interception Chamber
Sample ID	EB1/18	EB2/18	EB3/18	DP/18
Depth				
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
Sampled Date	17/02/2022	17/02/2022	17/02/2022	17/02/2022
Sample Received Date	18/02/2022	18/02/2022	18/02/2022	18/02/2022
EMT Sample No	1-6	7-12	13-18	1
Batch Number	1	1	1	1

Test	Method	Units	LOD				
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20	-
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2	-
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5	-
Dissolved Barium #	TM30/PM14	ug/l	<3	28	28	27	-
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	-
Dissolved Boron	TM30/PM14	ug/l	<12	43	41	42	-
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	-
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	-
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2	-
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7	-
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	21	<20	-
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	-
Dissolved Manganese #	TM30/PM14	ug/l	<2	8	8	8	-
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	-
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2	-
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2	-
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	-
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	-
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	1.8	-
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3	-
VOC MS							
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	-
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3	-
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	-
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	-
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	-
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	-
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	-
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	-
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	-
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	-
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	-
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	-
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	-
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	-
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	-
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	-
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	-

1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	114	110	111	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	115	112	112	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	-
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	-
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	-
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	114	110	111	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	115	112	112	-
SVOC MS							
Phenols							
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	-
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	-
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	-
PAHs							
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Phthalates							-
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	-
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	-
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	-
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-
Other SVOCs							-
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	-
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	-
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	-
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	-
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	104	104	110	-
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	111	111	113	-
TPH CWG							
Aliphatics							
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	-
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	-
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	-
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	-
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	-
Aromatics							
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	-
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	-
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	-
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	-
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-

	Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	-
	Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	-
	Alcohols/Acetates							
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	-
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-
	Salinity	TM64W/PM0	%	<2	<0.1	<0.1	<0.1	-
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<0.01	858	869	884	8.02
A	pH #	TM73/PM0	pH units	<0.1	8.3	8.32	8.34	-
A	Total Suspended Solids #	TM37/PM0	mg/l	<35	572	583	569	-
A	Total Dissolved Solids #	TM20/PM0	mg/l	<10	43	15	<10	<10
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	87.5	87.8	87.7	-
B	Chloride #	TM38/PM0	mg/l	<0.3	58.4	58.1	58.3	96.6
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	32.6	33.3	33	-
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.07	0.07	0.07	-
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	268	254	248	-
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	268	254	252	-
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	132.8	132.4	131.6	-
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	5.8	5.8	5.8	-
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4.3	4.4	4.6	-
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	31.3	31.1	31.3	-
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.04	0.04	0.05	-
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.05	0.05	0.06	-
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1	-

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/13	EB2/13	EB3/13
Sulphate	meq/l	1.822	1.828	1.826
Chloride	meq/l	1.647	1.639	1.644
Nitrate	meq/l	0.526	0.537	0.532
Total Alk	meq/l	5.355	5.075	5.036
Calcium	meq/l	6.627	6.607	6.567
Magnesium	meq/l	0.477	0.477	0.477
Potassium	meq/l	0.110	0.113	0.118
Sodium	meq/l	1.361	1.353	1.361
Ammonium	meq/l	0.015	0.015	0.015
Sum Anions	meq/l	9.350	9.079	9.038
Sum Cations	meq/l	8.590	8.564	8.538
Ion blanace error	%	4%	3%	3%

Element Materials Technology

Report: Liquid

EMT Job No: 21/18687

Client: Envireau Ltd

Client ref: P22-010

Location: Wressle

Contact Stephen Craig

		EB1	EB2	EB3	EB3 duplicate	Blank	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH4R	GWMBH5
Sample ID		EB1/19	EB2/19	EB3/19	EB3/19D	B/19	GWMBH1R/19	GWMBH2R/19	GWMBH3R/19	GWMBH4R/19	GWMBH5/19
Depth											
Sample Type		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water	Ground Water	-	Ground Water
Sampled Date		16/03/2022	16/03/2022	16/03/2022	44636.6875	16/03/2022	16/03/2022	16/03/2022	16/03/2022	-	16/03/2022
Sample Received Date		19/03/2022	19/03/2022	19/03/2022	44639	19/03/2022	19/03/2022	19/03/2022	19/03/2022	-	19/03/2022
EMT Sample No		1-8	9-16	17-24	25-32	33-40	1-7	8-14	15-21	-	22-28
Batch Number		1	1	1	1	1	1	1	1	-	1
Test	**Method**	**Units**	**LOD**									
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20	<20	<20	-	-	-	-	-
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	14.1	6.5	<2.5	-	32.1
Dissolved Barium #	TM30/PM14	ug/l	<3	23	24	24	25	<3	65	80	118	-	89
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	39	42	41	41	<12	91	168	118	-	81
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	13.4	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2	<2	<2	14	<7	<7	-	11
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7	<7	27	37	526	101	-	<20
Total Dissolved Iron #	TM30/PM14	ug/l	<20	575	<20	<20	<20	<20	<5	<5	<5	-	<5
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<2	191	284	-	<2
Dissolved Manganese #	TM30/PM14	ug/l	<2	12	6	7	7	<2	<1	<1	<1	-	<1
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	22	26	19	-	83
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Dissolved Nickel #	TM30/PM14	ug/l	<2	4	<2	<2	<2	<2	22	26	19	-	83
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	20.2	4	<1.5	-	23.1
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	8	13	6	-	94
VOC MS													
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	<4	<4	-	-	-	-	-
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	-	-	-	-	-
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	<3	-	-	-	-	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	115	119	110	102	107	-	-	-	-	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	107	109	101	93	97	-	-	-	-	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	115	119	110	102	107	111	105	108	-	111
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	107	109	101	93	97	105	97	103	-	102
SVOC MS													
Phenols													
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	-	-	-	-	-
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
PAHs													
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Phthalates													
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	-	-	-	-	-
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-

Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Other SVOCs									-	-	-	-	-
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	<1	-	-	-	-	-
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	111	116	111	117	124	-	-	-	-	-
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	117	120	114	119	123	-	-	-	-	-
TPH CWG													
Aliphatics													
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
Aromatics													
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
Alcohols/Acetates													
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500	<500	-	-	-	-	-
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500	<500	-	-	-	-	-
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100	<100	-	-	-	-	-
PAH MS													
Naphthalene #	TM4/PM30	ug/l	<0.1	-	-	-	-	-	<0.1	0.2	<0.1	-	<0.1	-
Acenaphthylene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	0.005	<0.005	-	<0.005	-
Acenaphthene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Fluorene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Phenanthrene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Fluoranthene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Chrysene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.008	-	-	-	-	-	<0.008	<0.008	<0.008	-	<0.008	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.005	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-
PAH 16 Total #	TM4/PM30	ug/l	<0.173	-	-	-	-	-	<0.173	0.205	<0.173	-	<0.173	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	-	-	<0.008	<0.008	<0.008	-	<0.008	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	-	-	<0.008	<0.008	<0.008	-	<0.008	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	-	-	-	-	-	83	86	68	-	73	-
Dissolved Strontium	TM30/PM14	ug/l	<5	-	-	-	-	-	122	309	202	-	162	-
Total organic carbon	TM60/PM0	mg/l	<2	-	-	-	-	-	17	10	9	-	18	-
Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	
A Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	812	803	804	808	8	632	755	859	-	733	
A pH #	TM73/PM0	pH units	<0.01	8.31	8.32	8.32	8.33	6.31	7.3	7.18	7.5	-	7.16	
A Total Suspended Solids #	TM37/PM0	mg/l	<35	<10	<10	<10	<10	<10	-	-	-	-	-	
A Total Dissolved Solids #	TM20/PM0	mg/l	<10	552	555	563	558	<35	-	-	-	-	-	
B Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	92.3	91	89.5	89.3	<0.5	39.5	177.2	189.7	-	90.7	
B Chloride #	TM38/PM0	mg/l	<0.3	39.1	39.2	39.2	38.9	<0.3	25.4	28.7	49.9	-	7	
B Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	39.2	39.9	40	39.4	<0.2	139.2	53.1	9.3	-	166	
B Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.04	0.08	0.04	0.04	<0.02	-	-	-	-	-	
B Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	292	282	288	282	8	-	-	-	-	-	
B Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	292	282	292	286	8	156	176	202	-	134	
C Dissolved Calcium #	TM30/PM14	mg/l	<0.2	145.9	143.7	143.3	142.4	<0.2	85.4	134.4	116.7	-	104.6	
C Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6	6	6	6	<0.1	12.8	8.1	11.5	-	12.5	
C Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4	4.1	4.2	4.1	<0.1	35.7	31.7	53.5	-	31.1	
C Dissolved Sodium #	TM30/PM14	mg/l	<0.1	23.2	22.8	22.9	22.6	<0.1	10.4	11.7	28.6	-	12	
C Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.07	0.05	0.05	0.04	<0.03	0.09	0.09	0.09	-	0.05	
C Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.09	0.06	0.06	0.05	<0.03	-	-	-	-	-	
D Dissolved Methane #	TM25/PM0	ug/l	<1	2	<1	<1	<1	<1	-	-	-	-	-	

Key	
A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	**Other**

Conversion to meq/L		EB1/19	EB2/19	EB3/19	EB3/19D	B/19	GWMBH1R/19	GWMBH2R/19	GWMBH3R/19	GWMBH4R/19	GWMBH5/19
Sulphate	meq/l	1.922	1.895	1.863	1.859	0.005	0.822	3.689	3.950		1.888
Chloride	meq/l	1.103	1.106	1.106	1.097	0.004	0.716	0.810	1.407		0.197
Nitrate	meq/l	0.632	0.643	0.645	0.635	0.002	2.245	0.856	0.150		2.677
Total Alk	meq/l	5.835	5.635	5.835	5.715	0.160	3.117	3.517	4.036		2.678
Calcium	meq/l	7.280	7.171	7.151	7.106	0.005	4.261	6.707	5.823		5.220
Magnesium	meq/l	0.494	0.494	0.494	0.494	0.004	1.053	0.667	0.946		1.029
Potassium	meq/l	0.102	0.105	0.107	0.105	0.001	0.913	0.811	1.368		0.795
Sodium	meq/l	1.009	0.992	0.996	0.983	0.002	0.452	0.509	1.244		0.522
Ammonium	meq/l	0.005	0.004	0.004	0.003	0.001	0.006	0.006	0.006		0.004
Sum Anions	meq/l	9.492	9.279	9.449	9.307	0.171	6.901	8.872	9.544		7.441
Sum Cations	meq/l	8.891	8.765	8.751	8.690	0.014	6.687	8.699	9.388		7.569
Ion blanace error	%	3%	3%	4%	3%	85%	2%	1%	1%		-1%

Element Materials Technology

				EB1	**EB2**	**EB3**	**GWMBH1R**	**GWMBH2R**	**GWMBH3R**	**GWMBH4R**	**GWMBH5**	**Interception Chamber**
			Sample ID	EB1/120	EB2/20	EB3/20	GWMBH1R/20	GWMBH2R/20	GWMBH3R/20	GWMBH4R/20	GWMBH5/20	DP/20
Report:	**Liquid**		**Depth**									
EMT Job No:	21/18687		**Sample Type**	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water
Client:	Envireau Ltd		**Sampled Date**	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022	14/04/2022
Client ref:	P22-010		**Sample Received Date**	15/04/2022	15/04/2022	15/04/2022	15/04/2022	15/04/2022	15/04/2022	15/04/2022	15/04/2022	15/04/2022
Location:	Wressle		**EMT Sample No**	1-8	9-16	17-24	1	2	4	5-12	13	1
Contact	Stephen Craig		**Batch Number**	1	1	1	1	1	1	-	1	1

Test	**Method**	**Units**	**LOD**									
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20	-	-	-	-	-	-
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5	-	-	-	<2.5	-	-
Dissolved Barium #	TM30/PM14	ug/l	<3	27	26	25	-	-	-	-	-	-
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Dissolved Boron	TM30/PM14	ug/l	<12	48	43	42	-	-	-	75	-	-
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.5	-	-
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	<1.5	-	-
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7	-	-	-	<7	-	-
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20	-	-	-	5072	-	-
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	-	-	-	<5	-	-
Dissolved Manganese #	TM30/PM14	ug/l	<2	4	3	3	-	-	-	98	-	-
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	-	-	-	<1	-	-
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	<2	-	-
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	-	-	-	<3	-	-
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	-	-	-	-	-	-
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	-
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3	-	-	-	<3	-	-
VOC MS												
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	-	-	-	-	-	-
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	-	-	-	-	-	-
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	-
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	100	100	97	-	-	-	-	-	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	106	102	105	-	-	-	-	-	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	<5	-	-
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	<5	-	-
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	-	-	-	<5	-	-
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	<5	-	-
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	<5	-	-
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	<5	-	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	100	100	97	-	-	-	-	-	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	106	102	105	-	-	-	-	-	-
SVOC MS												
Phenols												
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	-
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
PAHs												
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-

Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Phthalates												
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	-	-	-	-	-	-
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	-
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Other SVOCs												
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	-
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	118	121	113	-	-	-	-	-	-
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	120	130	117	-	-	-	-	-	-
TPH CWG												
Aliphatics												
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	-	-	-	<5	-	-
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	-	-	-	<10	-	-
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-		-	-
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
Aromatics												
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	-	-	-	<5	-	-
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-		-	-
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	<10	-	-
Alcohols/Acetates												
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	-
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	-
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	-
PAH MS												
Naphthalene #	TM4/PM30	ug/l	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
Acenaphthylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Acenaphthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Fluorene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Phenanthrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Fluoranthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Chrysene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-
PAH 16 Total #	TM4/PM30	ug/l	<0.173	-	-	-	<0.173	<0.173	<0.173	<0.173	<0.173	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	-	-	-	74	76	74	76	79	-
Dissolved Strontium	TM30/PM14	ug/l	<5	-	-	-	-	-	-	1612	-	-
Total organic carbon	TM60/PM0	mg/l	<2	-	-	-	-	-	-	<2	-	-
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	806	806	807	-	-	-	952	-	8.07
A	pH #	TM73/PM0	pH units	<0.01	8.32	8.3	8.31	-	-	-	7.68	-	-
A	Total Suspended Solids #	TM37/PM0	mg/l	<35	558	550	551	-	-	-	-	-	
A	Total Dissolved Solids #	TM20/PM0	mg/l	<10	<10	<10	<10	-	-	-	-	-	<10
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	94.5	94.8	93.7	-	-	-	145.5	-	-
B	Chloride #	TM38/PM0	mg/l	<0.3	41.9	41.6	41.6	-	-	-	45.8	-	566.9
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	36.3	35.9	36.5	-	-	-	0.2	-	-
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.04	0.05	0.05	-	-	-	-	-	-
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	258	244	260	-	-	-	-	-	-
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	258	244	260	-	-	-	310	-	-
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	147.3	148.5	147.2	-	-	-	149.8	-	-
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6.2	6.3	6.3	-	-	-	15.6	-	-
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4.2	4.5	4.6	-	-	-	3.6	-	-
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	24.5	24.4	24	-	-	-	43.8	-	-
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.03	0.03	0.04	-	-	-	0.17	-	-
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.03	0.03	0.05	-	-	-	-	-	-

D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1	-	-	-	-	-	-

Key	
A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	**Other**

Conversion to meq/L		EB1/20	EB2/20	EB3/20	GWMBH1R/20	GWMBH2R/20	GWMBH3R/20	GWMBH4R/20	GWMBH5/20
Sulphate	meq/l	1.968	1.974	1.951				3.029	
Chloride	meq/l	1.182	1.173	1.173				1.292	
Nitrate	meq/l	0.585	0.579	0.589				0.003	
Total Alk	meq/l	5.155	4.876	5.195				6.194	
Calcium	meq/l	7.350	7.410	7.345				7.475	
Magnesium	meq/l	0.510	0.518	0.518				1.284	
Potassium	meq/l	0.107	0.115	0.118				0.092	
Sodium	meq/l	1.066	1.061	1.044				1.905	
Ammonium	meq/l	0.002	0.002	0.003				0.012	
Sum Anions	meq/l	8.890	8.602	8.908				10.519	
Sum Cations	meq/l	9.036	9.107	9.028				10.768	
Ion blanace error	%	-1%	-3%	-1%				-0.012	

Element Materials Technology

			EB1	EB2	EB3	Interception Chamber
		Sample ID	EB1/21	EB2/21	EB3/21	DP/21
Report:	**Liquid**	**Depth**				
EMT Job No:	21/18687	**Sample Type**	Surface Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd	**Sampled Date**	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Client ref:	P22-010	**Sample Received Date**	18/05/2022	18/05/2022	18/05/2022	18/05/2022
Location:	Wressle	**EMT Sample No**	1-6	7-12	13-18	1
Contact	Lewis Miles	**Batch Number**	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	27	28	28
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	57	56	57
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	6	7	8
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.4	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2

1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	114	114	111
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	106	107	104
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	114	114	111
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	106	107	104
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	118	124	109
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	131	136	132
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10

	Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Alcohols/Acetates							
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	798	777	800	
A	pH #	TM73/PM0	pH units	<0.01	8.12	8.23	8.24	8.13
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	531	533	534	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	531	533	534	
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	91.8	99.2	95.5	
B	Chloride #	TM38/PM0	mg/l	<0.3	46.2	45.7	45.4	408.5
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	25.9	25.8	28.2	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.08	0.09	0.08	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	229	231	258	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	229	231	258	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	137.2	136	136.4	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6.8	6.8	6.8	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4.5	4.9	5	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	24.7	24.6	23.7	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.04	0.05	0.05	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.05	0.06	0.06	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/21	EB2/21	EB3/21
Sulphate	meq/l	1.911	2.065	1.988
Chloride	meq/l	1.303	1.289	1.281
Nitrate	meq/l	0.418	0.416	0.455
Total Alk	meq/l	4.576	4.616	5.155
Calcium	meq/l	6.846	6.786	6.806
Magnesium	meq/l	0.560	0.560	0.560
Potassium	meq/l	0.115	0.125	0.128
Sodium	meq/l	1.074	1.070	1.031
Ammonium	meq/l	0.015	0.015	0.015
Sum Anions	meq/l	8.208	8.386	8.879
Sum Cations	meq/l	8.610	8.556	8.540
Ion blanace error	%	-2%	-1%	2%

Element Materials Technology

Report: Liquid

EMT Job No: 21/18687

Client: Envireau Ltd

Client ref: P22-010

Location: Wressle

Contact Lewis Miles

		EB1	EB2	EB3	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH4R	GWMBH5	Blank	EB1 duplicate	Interception Chamber
Sample ID		EB1/22	EB2/22	EB3/22	GWMBH1R/22	GWMBH2R/22	GWMBH3R/22	GWMBH4R/22	GWMBH5/22	B/22	EB1/22D	DP/22
Depth												
Sample Type		Surface Water	Surface Water	Surface Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water
Sampled Date		09/06/2022	09/06/2022	09/06/2022	09/06/2022	09/06/2022	09/06/2022	09/06/2022	09/06/2022	09/06/2022	09/06/2022	09/06/2022
Sample Received Date		10/06/2022	10/06/2022	10/06/2022	10/06/2022	10/06/2022	10/06/2022	10/06/2022	10/06/2022	10/06/2022	10/06/2022	10/06/2022
EMT Sample No		1-8	9-16	17-24	1	2	4	5-12	13	25-32	33-40	1
Batch Number		1	1	1	1	1	1	1	1	1	1	1
Test	**Method**	**Units**	**LOD**									
Dissolved Aluminium #	TM30/PM14	ug/l		<20	<20	<20	<20	-	-	-	-	-	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l		<2.5	<2.5	<2.5	<2.5	18.3	<2.5	<2.5	<2.5	35	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l		<3	34	33	32	-	-	-	-	-	<3	33
Dissolved Beryllium	TM30/PM14	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l		<12	65	63	68	99	148	142	96	124	<12	64
Dissolved Cadmium #	TM30/PM14	ug/l		<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l		<1.5	<1.5	<1.5	<1.5	2.5	<1.5	1.9	<1.5	2	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Copper #	TM30/PM14	ug/l		<7	<7	<7	<7	21	<7	<7	<7	11	18	<7
Total Dissolved Iron #	TM30/PM14	ug/l		<20	<20	<20	<20	61	637	467	3162	23	<20	<20
Dissolved Lead #	TM30/PM14	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l		<2	4	5	5	3	327	631	59	<2	<2	4
Dissolved Mercury #	TM30/PM14	ug/l		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l		<2	<2	<2	<2	30	39	15	2	79	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l		<5	<5	<5	<5	-	-	-	-	-	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l		<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	2.2
Dissolved Zinc #	TM30/PM14	ug/l		<3	<3	<3	<3	10	19	5	<3	89	<3	<3
VOC MS												
Dichlorodifluoromethane	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l		<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l		<0.1	<0.1	<0.1	<0.1	-	-	-	-		<0.1	<0.1
Bromomethane	TM15/PM10	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Chloroethane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Bromochloromethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Chloroform #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Benzene #	TM15/PM10	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dibromomethane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Toluene #	TM15/PM10	ug/l		<5	<5	<5	<5	-	-	-	-	-	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Chlorobenzene #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Ethylbenzene #	TM15/PM10	ug/l		<1	<1	<1	<1	-	-	-	-	-	<2	<2
m/p-Xylene #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<1	<1
o-Xylene #	TM15/PM10	ug/l		<1	<1	<1	<1	-	-	-	-	-	<2	<2
Styrene	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<1	<1
Bromoform #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<2	<2
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l		<4	<4	<4	<4	-	-	-	-	-	<3	<3
Bromobenzene #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<4	<4
1,2,3-Trichloropropane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<2	<2
Propylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<3	<3
1,2,4-Trichlorobenzene	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<2	<2
Hexachlorobutadiene	TM15/PM10	ug/l		<3	<2	<2	<2	-	-	-	-	-	<3	<3
Naphthalene	TM15/PM10	ug/l		<2	<3	<3	<3	-	-	-	-	-	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%		<0	98	109	110	-	-	-	-	-	110	109
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%		<0	107	99	98	-	-	-	-	-	96	95
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l		<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1
Benzene #	TM15/PM10	ug/l		<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l		<1	<1	<1	<1	<5	<5	<5	<5	<5	<1	<1
m/p-Xylene #	TM15/PM10	ug/l		<2	<2	<2	<2	<5	<5	<5	<5	<5	<2	<2
o-Xylene #	TM15/PM10	ug/l		<1	<1	<1	<1	<5	<5	<5	<5	<5	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%		<0	98	109	110	-	-	-	-	-	109	110
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%		<0	107	99	98	-	-	-	-	-	95	96
SVOC MS												
Phenols												
2-Chlorophenol #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<2
2-Methylphenol #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<2
2,4,5-Trichlorophenol #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.6
2,4,6-Trichlorophenol	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<2
4-Chloro-3-methylphenol #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.6
4-Methylphenol	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Nitrophenol	TM16/PM30	ug/l		<10	<10	<10	<10	-	-	-	-	-	<10	<10
Pentachlorophenol	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Phenol	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
PAHs												
2-Chloronaphthalene #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Naphthalene #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Acenaphthylene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.6
Acenaphthene #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<2
Fluorene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1

Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Phthalates													
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Other SVOCs													
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	112	116	93	-	-	-	-	-	116	112
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	118	121	97	-	-	-	-	-	121	119
TPH CWG													
Aliphatics													
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics													
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Alcohols/Acetates													
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
PAH MS													
Naphthalene #	TM4/PM30	ug/l	<0.1				<0.1	<0.1	<0.1	<0.1	<0.1	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluorene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Chrysene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.173	-	-	-	<0.173	<0.173	<0.173	<0.173	<0.173	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	-	-	-	83	86	89	89	79	-	-
Dissolved Strontium	TM30/PM14	ug/l	<5	-	-	-	83	245	187	1523	145	-	-
Total organic carbon	TM60/PM0	mg/l	<2	-	-	-	20	10	8	<2	16	-	-

	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	820	825	818	550	871	919	987	759	7	834	-
A	pH #	TM73/PM0	pH units	<0.01	8.3	8.31	8.33	7.18	7.13	7.53	7.93	7.07	5.99	8.29	6.93
A	Total Suspended Solids #	TM37/PM0	mg/l	<35	<10	<10	11	-	-	-	-	-	<35	14	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<10	542	540	535	-	-	-	-	-	<10	552	-
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	88.8	89.4	89	38.3	95.2	169	161.6	107.3	<0.5	88.7	-
B	Chloride #	TM38/PM0	mg/l	<0.3	48.1	49.6	47.9	10.1	29.8	43.2	46.8	6.9	0.4	48.1	442.1
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	26	26.1	26.1	78	74.7	9.2	0.2	118.9	<0.2	26.4	-
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.15	0.15	0.12	-	-	-	-	-	<0.02	0.16	-
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	248	248	241	-	-	-	-	-	5	252	-
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	254	257	241	140	220	212	340	138	5	255	-
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	139.7	135.8	136.7	64.8	139.4	116.8	146.7	106.1	<0.2	142.4	-
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7.3	7.1	7.2	9.6	11.8	10.7	16.9	12.1	<0.1	7.3	-
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	5.2	5.4	5.7	33	35.7	54.8	2.8	32.9	<0.1	5.2	-
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	26	25.8	26.6	8.8	13.1	24.1	42.3	13.2	<0.1	26.8	-
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.05	0.05	0.05	0.05	0.05	0.06	0.19	0.05	<0.03	0.05	-
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.07	0.07	0.07	-	-	-	-	-	<0.03	0.06	-
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1	-	-	-	-	-		<1	-

Key	
A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	**Other**

Conversion to meq/L		EB1/22	EB2/22	EB3/22	GWMBH1R/22	GWMBH2R/22	GWMBH3R/22	GWMBH4R/22	GWMBH5/22	B/22	EB1/22D	DP/22
Sulphate	meq/l	1.849	1.861	1.853	0.797	1.982	3.519	3.365	2.234		1.847	
Chloride	meq/l	1.357	1.399	1.351	0.285	0.841	1.219	1.320	0.195		1.357	
Nitrate	meq/l	0.419	0.421	0.421	1.258	0.000	0.148	0.003	1.917		0.426	
Total Alk	meq/l	5.075	5.135	4.816	2.798	4.396	4.236	6.794	2.758		5.095	
Calcium	meq/l	6.971	6.776	6.821	3.234	6.956	5.828	7.320	5.294		7.106	
Magnesium	meq/l	0.601	0.584	0.592	0.790	0.971	0.880	1.391	0.996		0.601	

Potassium	meq/l	0.133	0.138	0.146	0.844	0.913	1.402	0.072	0.841	0.133
Sodium	meq/l	1.131	1.122	1.157	0.383	0.570	1.048	1.840	0.574	1.166
Ammonium	meq/l	0.004	0.004	0.004	0.004	0.004	0.004	0.014	0.004	0.004
Sum Anions	meq/l	8.700	8.817	8.441	5.138	7.219	9.122	11.482	7.104	8.725
Sum Cations	meq/l	8.839	8.625	8.720	5.254	9.414	9.163	10.636	7.709	9.009
Ion blanace error	%	-0.8%	1.1%	-2%	-1%	-13%	0%	4%	-4%	-2%

Element Materials Technology

		EB1	EB2	EB3	Interception Chamber
	Sample ID	EB1/23	EB2/23	EB3/23	DP/23
Report:	**Liquid**				
	Depth				
EMT Job No:					
	Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
	22/11537				
Client:	**Sampled Date**	13/07/2022	13/07/2022	13/07/2022	13/07/2022
Client ref:	Envireau Ltd				
Location:	**Sample Received Date**	14/07/2022	14/07/2022	14/07/2022	14/07/2022
Contact	P22-010				
	EMT Sample No	1-6	7-12	13-18	1
	Wressle				
	Batch Number	1	1	1	1
	Lewis Miles				

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	35	34	35
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	74	72	75
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	8	16	19
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	2	2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.4	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3

Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	101	103	103
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	98	97	96
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	101	103	103
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	98	97	96
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	123	124	113
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	128	127	115
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10

	>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
	Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
	Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
	Alcohols/Acetates						
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	811	780	804
A	pH #	TM73/PM0	pH units	<0.01	8.17	7.8	7.79
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	539	519	541
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	93.9	92.5	97.3
B	Chloride #	TM38/PM0	mg/l	<0.3	58	56.4	56
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	18.2	18.4	17.2
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.11	0.11	0.12
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	250	247	244
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	250	247	244
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	118.3	113.9	116.1
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	8	8.3	8.3
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	8.6	9.7	9.9
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	27.8	27.3	26.5
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.07	0.09	0.12
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.09	0.12	0.15
D	Dissolved Methane #	TM25/PM0	ug/l	<1	6	<1	2

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/23	EB2/23	EB3/23
Sulphate	meq/l	1.955	1.926	2.026
Chloride	meq/l	1.636	1.591	1.580
Nitrate	meq/l	0.294	0.297	0.277
Total Alk	meq/l	4.996	4.936	4.876
Calcium	meq/l	5.903	5.684	5.793
Magnesium	meq/l	0.658	0.683	0.683
Potassium	meq/l	0.220	0.248	0.253
Sodium	meq/l	1.209	1.187	1.153
Ammonium	meq/l	0.070	0.090	0.015
Sum Anions	meq/l	8.880	8.749	8.758
Sum Cations	meq/l	8.061	7.892	7.897
Ion blanace error	%	5%	5%	5%

Element Materials Technology

			EB1	EB2	EB3	Interception Chamber
		Sample ID	EB1/24	EB2/24	EB3/24	DP/24
Report:	**Liquid**	**Depth**				
EMT Job No:	22/11537	**Sample Type**	Surface Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd	**Sampled Date**	10/08/2022	10/08/2022	10/08/2022	10/08/2022
Client ref:	P22-010	**Sample Received Date**	11/08/2022	11/08/2022	11/08/2022	11/08/2022
Location:	Wressle	**EMT Sample No**	1-6	7-12	13-18	1
Contact	Lewis Miles	**Batch Number**	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	-	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	-	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	-	9.6	4.9
Dissolved Barium #	TM30/PM14	ug/l	<3	-	58	59
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	-	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	-	113	179
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	-	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	-	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	-	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	-	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	-	53	45
Dissolved Lead #	TM30/PM14	ug/l	<5	-	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	-	56	87
Dissolved Mercury #	TM30/PM14	ug/l	<1	-	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	-	3	3
Dissolved Nickel #	TM30/PM14	ug/l	<2	-	13	8
Dissolved Selenium #	TM30/PM14	ug/l	<3	-	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	-	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	-	4.3	3
Dissolved Zinc #	TM30/PM14	ug/l	<3	-	3	3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	-	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	-	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	-	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	-	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	-	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	-	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	-	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	-	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	-	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	-	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	-	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	-	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	-	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	-	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	-	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	-	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	-	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	-	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	-	<2	<2
Benzene #	TM15/PM10	ug/l	<0.4	-	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	-	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	-	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	-	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	-	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	-	<2	<2
Toluene #	TM15/PM10	ug/l	<5	-	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	-	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	-	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	-	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	-	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	-	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	-	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	-	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	-	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	-	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	-	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	-	<1	<1
Styrene	TM15/PM10	ug/l	<2	-	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	-	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	-	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	-	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	-	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	-	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	-	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	-	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	-	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	-	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	-	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	-	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	-	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	-	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	-	<3	<3

1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	-	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	-	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	-	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	-	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	-	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	-	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	-	100	94
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	-	109	96
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	-	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	-	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	-	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	-	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	-	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	-	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0		100	94
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	-	109	96
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	-	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	-	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	-	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	-	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	-	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	-	<1	<1
Phenol	TM16/PM30	ug/l	<1	-	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	-	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	-	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	-	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	-	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	-	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	-	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	-	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	-	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	-	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	-	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	-	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	-	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	-	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	-	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	-	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	-	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	-	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	-	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	-	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	-	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	-	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	-	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	-	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	-	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	-	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	-	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	-	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	-	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	-	118	148 **SV**
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	-	159 **SV**	143 **SV**
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	-	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	-	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	-	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	-	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	-	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	-	<10	<10

>C21-C35 #	TM5/PM16/PM30	ug/l	<10	-	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	-	<10	<10
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	-	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	-	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	-	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	-	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	-	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	-	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	-	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	-	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	-	<10	<10
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	-	<10	<10
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	-	<10	<10
Alcohols/Acetates						
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	-	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	-	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	-	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	-	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	-	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	-	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	-	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	-	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	-	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	-	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	-	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	-	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	-	<100	<100

	Salinity	TM64W/PM0	%	<0.1		<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2		819	869	
A	pH #	TM73/PM0	pH units	<0.01		8.02	8.03	8.1
A	Total Suspended Solids #	TM37/PM0	mg/l	<10		11	12	
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35		591	588	<10
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5		87.6	114.5	
B	Chloride #	TM38/PM0	mg/l	<0.3		24.5	32.7	61.2
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2		39.9	18.6	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02		0.53	0.46	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1		270	294	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1		270	294	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2		117	126.5	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1		12.2	10.8	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1		34.7	35.2	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1		16	20.9	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03		0.26	0.66	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03		0.34	0.85	
D	Dissolved Methane #	TM25/PM0	ug/l	<1		5	7	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/24	EB2/24	EB3/24
Sulphate	meq/l	0.000	1.824	2.384
Chloride	meq/l	0.000	0.691	0.922
Nitrate	meq/l	0.000	0.643	0.300
Total Alk	meq/l	0.000	5.395	5.875
Calcium	meq/l	0.000	5.838	6.312
Magnesium	meq/l	0.000	1.004	0.889
Potassium	meq/l	0.000	0.887	0.900
Sodium	meq/l	0.000	0.696	0.909
Ammonium	meq/l	0.000	0.260	0.015
Sum Anions	meq/l	0.000	8.554	9.481
Sum Cations	meq/l	0.000	8.686	9.025
Ion blanace error	%	#DIV/0!	-1%	2%

Element Materials Technology

Report: Liquid

EMT Job No:

Client: Envireau Ltd
Client ref: P22-010
Location: Wressle
Contact Lewis Miles

	EB1	EB2	EB3	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH4R	GWMBH5	Blank	EB2 duplicate	Interception Chamber
Sample ID	EB1/25	EB2/25	EB3/25	GWMBH1R/25	GWMBH2R/25	GWMBH3R/25	GWMBH4R/25	GWMBH5/25	B/25	EB2/25D	DP/25
Depth											
Sample Type	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water
Sampled Date	13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022	13/09/2022
Sample Received Date	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022	15/09/2022
EMT Sample No	1-8	9-16	17-24	1	2	4	5-12	13	25-32	33-40	1
Batch Number	1	1	1	1	1	1	1	1	1	1	1

Test	Method	Units	LOD										
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20	-	-	-	-	-	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5	22.1	<2.5	2.8	<2.5	15.9	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	25	26	25	-	-	-	-	-	<3	25
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	55	55	50	107	125	147	99	104	<12	50
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7	24	<7	<7	10	<7	33	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20	50	1297	233	7203	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	<2	<2	<2	<2	501	438	120	419	<2	<2
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1						<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2	41	26	11	<2	60	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3	16	9	<3	<3	55	<3	<3
VOC MS													
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-		<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	-	-	-	-	-	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	114	116	100	-	-	-	-	-	106	103
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	110	111	97	-	-	-	-	-	102	104
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<5	<5	<5	<5	<5	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<5	<5	<5	<5	<5	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<5	<5	<5	<5	<5	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	114	116	100	-	-	-	-	-	106	103
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	110	111	97	-	-	-	-	-	102	104
SVOC MS													
Phenols													
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
PAHs													
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1

Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Phthalates													
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Other SVOCs													
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	122	118	122	-	-	-	-	-	124	129
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	128	125	124	-	-	-	-	-	125	133 SV
TPH CWG													
Aliphatics												<10	<10
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<5
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics													
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Alcohols/Acetates													
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
PAH MS													
Naphthalene #	TM4/PM30	ug/l	<0.1	-	-	-	<0.1	<0.1 SV	<0.1	<0.1	<0.1	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluorene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Chrysene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.173	-	-	-	<0.173	<0.173	<0.173	<0.173	<0.173	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	-	-	-	89	92	97	92	88	-	-
Dissolved Strontium	TM30/PM14	ug/l	<5	-	-	-	96	301	221	1606 AA	309	-	-
Total organic carbon	TM60/PM0	mg/l	<2	-	-	-	20	14	13	<2	13	-	-
Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
A Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	764	753	741	530	897	890	956	861	15	750	-
A pH #	TM73/PM0	pH units	<0.01	8.32	8.36	8.37	7.89	7.75	7.72	8.05	7.62	6.3	8.39	8.15
A Total Suspended Solids #	TM37/PM0	mg/l	<35	<10	10	<10	-	-	-	-	-	<10	12	16
A Total Dissolved Solids #	TM20/PM0	mg/l	<10	497	489	491	-	-	-	-	-	<35	495	-
B Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	89.4	90	90.7	49.2	95.3	135	157.4	141.4	<0.5	90	-
B Chloride #	TM38/PM0	mg/l	<0.3	49.2	48.6	47.7	7.8	24.8	36.9	45.8	27.9	0.3	48.4	46.9
B Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	16.3	15.5	14.4	63.7	81.9	3.6	<0.2	1.9	<0.2	15.4	-
B Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	<0.02	<0.02	-
B Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	244	244	220	-	-	-	-	-	8	236	-
B Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	244	248	228	146	290	292	298	286	8	244	-
C Dissolved Calcium #	TM30/PM14	mg/l	<0.2	124.2	122	119.2	58.5	139	110.8	137.3	131.7	<0.2	121	-
C Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7.4	7.4	7.3	8.6	11.5	9.9	17.7	8.8	<0.1	7.3	-
C Dissolved Potassium #	TM30/PM14	mg/l	<0.1	6.5	6.8	6.8	33.4	35.3	51.3	2.8	28.5	<0.1	6.7	-
C Dissolved Sodium #	TM30/PM14	mg/l	<0.1	26.6	26.3	25.7	12	12.4	22.1	43.6	22.3	<0.1	25.7	-
C Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.06	0.03	0.03	0.05	0.05	0.08	0.21	0.34	<0.03	0.03	-
C Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.08	0.04	0.04	-	-	-	-	-	<0.03	0.04	-
D Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-

Key		
A	Key physio-chemical parameter	
B	Major Anion	
C	Major cation	
D	Key dissolved gas	
#	**Other**	

Conversion to meq/L		EB1/25	EB2/25	EB3/25	GWMBH1R/25	GWMBH2R/25	GWMBH3R/25	GWMBH4R/25	GWMBH5/25	B/25	EB2/25D	DP/25
Sulphate	meq/l	1.861	1.874	1.888	1.024	1.984	2.811	3.277	2.944		1.87	
Chloride	meq/l	1.388	1.371	1.345	0.220	0.700	1.041	1.292	0.787		1.37	
Nitrate	meq/l	0.263	0.250	0.232	1.027	1.321	0.058	0.00	0.031		0.25	
Total Alk	meq/l	4.876	4.956	4.556	2.917	5.795	5.835	5.955	5.715		4.88	
Calcium	meq/l	6.198	6.088	5.948	2.919	6.936	5.529	6.851	6.572		6.04	
Magnesium	meq/l	0.609	0.609	0.601	0.429	0.574	0.494	0.883	0.439		0.60	

Potassium	meq/l	0.166	0.174	0.174	1.667	1.761	2.560	0.140	1.422	0.17
Sodium	meq/l	1.157	1.144	1.118	0.599	0.619	1.103	2.176	1.113	1.12
Ammonium	meq/l	0.004	0.002	0.002	0.004	0.004	0.006	0.015	0.024	0.00
Sum Anions	meq/l	8.388	8.450	8.022	5.189	9.799	9.744	10.527	9.477	8.363
Sum Cations	meq/l	8.134	8.017	7.843	5.617	9.894	9.691	10.065	9.570	7.930
Ion blanace error	%	1.5%	2.6%	1%	-4%	0%	0%	2%	0%	3%

Element Materials Technology

			EB1	EB2	EB3	Interception Chamber
		Sample ID	EB1/26	EB2/26	EB3/26	DP/26
Report:	**Liquid**	Depth				
EMT Job No:	22/11537	Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd	Sampled Date	11/10/2022	11/10/2022	11/10/2022	11/10/2022
Client ref:	P22-010	Sample Received Date	12/10/2022	12/10/2022	12/10/2022	12/10/2022
Location:	Wressle	EMT Sample No	1-8	9-16	17-24	1
Contact	Lewis Miles	Batch Number	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	2.6	3.1
Dissolved Barium #	TM30/PM14	ug/l	<3	28	29	30
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	62	69	75
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	3	2	3
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	2.2
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.4	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3

1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	90	92	87
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	97	96	93
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	90	92	87
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	97	96	93
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1 +	<1 +	<1 +
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1 +	<1 +	<1 +
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1 +	<1 +	<1 +
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1 +	<1 +	<1 +
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	104	90	100
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	106	94	102
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10

>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Aromatics							
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Alcohols/Acetates							
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	

	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	758	760	761	
A	pH #	TM73/PM0	pH units	<0.01	8.35	8.35	8.31	7.65
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	<10	<10	
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	493	495	484	<10
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	86.4	84.2	87.8	
B	Chloride #	TM38/PM0	mg/l	<0.3	49.1	48.1	48.2	192.3
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	14.7	14.8	14.6	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	<0.02	<0.02	<0.02	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	250	248	244	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	254	252	244	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	127.7	126.2	124.9	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7.8	7.8	7.7	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	7.1	7.3	7.9	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	28.2	27.4	27.5	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	<0.03	<0.03	0.03	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	<0.03	<0.03	0.03	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	<1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/26	EB2/26	EB3/26
Sulphate	meq/l	1.799	1.753	1.828
Chloride	meq/l	1.385	1.357	1.360
Nitrate	meq/l	0.237	0.239	0.235
Total Alk	meq/l	5.075	5.036	4.876
Calcium	meq/l	6.372	6.297	6.233
Magnesium	meq/l	0.642	0.642	0.634
Potassium	meq/l	0.182	0.187	0.202
Sodium	meq/l	1.227	1.192	1.196
Ammonium	meq/l	<0.03	<0.03	0.015
Sum Anions	meq/l	8.496	8.384	8.299
Sum Cations	meq/l	8.422	8.318	8.279
Ion blanace error	%	0%	0%	0%

Element Materials Technology

		EB1	EB2	EB3	Interception Chamber
	Sample ID	EB1/27	EB2/27	EB3/27	DP/27
Report:	**Liquid**				
	Depth				
EMT Job No:					
	Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
	22/11537				
Client:	**Sampled Date**	16/11/2022	16/11/2022	16/11/2022	16/11/2022
Envireau Ltd	**Sample Received Date**	17/11/2022	17/11/2022	17/11/2022	17/11/2022
Client ref:	**EMT Sample No**	1-8	9-16	17-24	1
P22-010	**Batch Number**	1	1	1	1
Location:					
Wressle					
Contact					
Lewis Miles					

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	30	30	30
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	64	63	63
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	5	5	5
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	1.7	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3

1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	111	107	104
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	107	104	103
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	111	107	104
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	107	104	103
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5+	<0.5+	<0.5+
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5+	<0.5+	<0.5+
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1+	<1+	<1+
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1+	<1+	<1+
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1+	<1+	<1+
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5+	<0.5+	<0.5+
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	108	112	113
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	108	114	110
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5

>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Aromatics							
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Alcohols/Acetates							
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	

	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	829	823	827	
A	pH #	TM73/PM0	pH units	<0.01	8.24	8.27	8.27	8.04
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	542	545	541	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	<10	<10	<10	
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	86.9	88.1	89.1	
B	Chloride #	TM38/PM0	mg/l	<0.3	45.3	45.2	45.4	85.7
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	30.3	30.2	29.9	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.05	0.05	0.05	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	298	292	302	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	298	292	302	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	138.9	137	137.5	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7.6	7.6	7.6	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	6.2	6.3	6.6	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	25.9	26	25.9	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.05	0.05	0.04	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.06	0.07	0.05	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	3	<1	<1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/27	EB2/27	EB3/27
Sulphate	meq/l	1.809	1.834	1.855
Chloride	meq/l	1.278	1.275	1.281
Nitrate	meq/l	0.489	0.487	0.482
Total Alk	meq/l	5.955	5.835	6.035
Calcium	meq/l	6.931	6.836	6.861
Magnesium	meq/l	0.379	0.379	0.379
Potassium	meq/l	0.309	0.314	0.329
Sodium	meq/l	1.292	1.297	1.292
Ammonium	meq/l	0.050	0.050	0.040
Sum Anions	meq/l	9.530	9.431	9.653
Sum Cations	meq/l	8.962	8.877	8.902
Ion blanace error	%	3%	3%	4%

Element Materials Technology

				EB1	**EB2**	**EB3**	**GWMBH1R**	**GWMBH2R**	**GWMBH3R**	**GWMBH4R**	**GWMBH5**	**Blank**	**EB3 duplicate**	**Interception Chamber**
			Sample ID	EB1/28	EB2/28	EB3/28	GWMBH1R/28	GWMBH2R/28	GWMBH3R/28	GWMBH4R/28	GWMBH5/28	B/28	EB3/28D	DP/28
Report:	**Liquid**		**Depth**											
EMT Job No:			**Sample Type**	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd		**Sampled Date**	13/12/2022	13/12/2022	13/12/2022	13/12/2022	13/12/2022	13/12/2022	13/12/2022	13/12/2022	13/12/2022	13/12/2022	13/12/2022
Client ref:	P22-010		**Sample Received Date**	15/12/2022	15/12/2022	15/12/2022	15/12/2022	15/12/2022	15/12/2022	15/12/2022	15/12/2022	15/12/2022	15/12/2022	15/12/2022
Location:	Wressle		**EMT Sample No**	1-8	9-16	17-24	1	2	4	5-12	13	25-32	33-40	1
Contact	Lewis Miles		**Batch Number**	1	1	1	1	1	1	1	1	1	1	1
Test	**Method**	**Units**	**LOD**											
Dissolved Aluminium #	TM30/PM14	ug/l		<20	<20	<20	<20	-	-	-	-	-	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l		<2.5	<2.5	<2.5	<2.5	11	<2.5	<2.5	<2.5	14.4	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l		<3	26	28	29	-	-	-	-	-	<3	28
Dissolved Beryllium	TM30/PM14	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l		<12	47	48	47	93	116	115	80	91	<12	47
Dissolved Cadmium #	TM30/PM14	ug/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l		<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Copper #	TM30/PM14	ug/l		<7	<7	<7	<7	13	<7	<7	<7	7	45	<7
Total Dissolved Iron #	TM30/PM14	ug/l		<20	20	<20	<20	27	666	142	2120	30	<20	<20
Dissolved Lead #	TM30/PM14	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l		<2	9	8	9	4	513	358	42	328	<2	8
Dissolved Mercury #	TM30/PM14	ug/l		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l		<2	<2	<2	<2	25	40	15	<2	45	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l		<5	<5	<5	<5	-	-	-	-	-	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l		<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l		<3	<3	<3	<3	6	18	4	<3	49	<3	<3
VOC MS														
Dichlorodifluoromethane	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l		<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l		<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Chloroethane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Bromochloromethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Chloroform #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Benzene #	TM15/PM10	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dibromomethane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Toluene #	TM15/PM10	ug/l		<5	<5	<5	<5	-	-	-	-	-	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Chlorobenzene #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Ethylbenzene #	TM15/PM10	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
m/p-Xylene #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
o-Xylene #	TM15/PM10	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Styrene	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Bromoform #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l		<4	<4	<4	<4	-	-	-	-	-	<4	<4
Bromobenzene #	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Propylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Naphthalene	TM15/PM10	ug/l		<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l		<3	<3	<3	<3	-	-	-	-	-	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%		<0	66	83	84	-	-	-	-	-	91	67
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%		<0	78	99	96	-	-	-	-	-	104	77
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l		<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1
Benzene #	TM15/PM10	ug/l		<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l		<1	<1	<1	<1	<5	<5	<5	<5	<5	<1	<1
m/p-Xylene #	TM15/PM10	ug/l		<2	<2	<2	<2	<5	<5	<5	<5	<5	<2	<2
o-Xylene #	TM15/PM10	ug/l		<1	<1	<1	<1	<5	<5	<5	<5	<5	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%		<0	66	83	84	-	-	-	-	-	91	67
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%		<0	78	99	96	-	-	-	-	-	104	77
SVOC MS														
Phenols														
2-Chlorophenol #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Methylphenol #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Nitrophenol	TM16/PM30	ug/l		<10	<10	<10	<10	-	-	-	-	-	<10	<10
Pentachlorophenol	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Phenol	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
PAHs														
2-Chloronaphthalene #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Naphthalene #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Acenaphthylene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Fluorene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l		<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l		<1	<1	<1	<1	-	-	-	-	-	<1	<1

Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Phthalates													
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Other SVOCs													
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1+	<1+	<1+	-	-	-	-	-	<1+	<1+
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	109	121	115	-	-	-	-	-	100	103
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	105	108	106	-	-	-	-	-	90	93
TPH CWG													
Aliphatics													
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics													
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Alcohols/Acetates													
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
PAH MS													
Naphthalene #	TM4/PM30	ug/l	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluorene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Chrysene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.173	-	-	-	<0.173	<0.173	<0.173	<0.173	<0.173	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	-	-	-	79	86	83	83	84	-	-
Dissolved Strontium	TM30/PM14	ug/l	<5	-	-	-	172	232	167	984	260	-	-
Total organic carbon	TM60/PM0	mg/l	<2	-	-	-	13	14	11	<2	12	-	-

	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	852	859	855	833	908	824	994	881	46	846	-
A	pH #	TM73/PM0	pH units	<0.01	8.29	8.26	8.31	7.89	7.1	7.47	7.85	7.57	8.30	8.30	7.87
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<0.1	<0.1	<0.1	-	-	-	-	-	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	554	567	566	-	-	-	-	-	<35	566	-
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	89.5	90.8	91	85.5	91.1	94.4	161.6	150.7	<0.5	91.6	-
B	Chloride #	TM38/PM0	mg/l	<0.3	39.9	39.9	40.2	24.9	26.1	34.9	46.1	21.4	<0.3	40	472.9
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	43.8	44	43.8	2	70.9	9.6	<0.2	45.4	0.4	43.9	-
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.02	0.02	0.02	-	-	-	-	-	<0.02	0.02	-
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	290	298	288	-	-	-	-	-	<1	286	-
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	280	282	272	352	298	274	308	244	29	276	-
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	146.9	147.2	146.2	125.5	137.8	105.2	148.5	131.8	0.5	147.4	-
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6.7	6.7	6.7	12.3	13.7	9.6	14.1	9.1	<0.1	6.7	-
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	5	5.2	5.3	36	34.3	47.4	2.9	28	<0.1	5.3	-
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	23.2	23.2	23.2	16.3	13.1	23.5	41.9	20.4	1	23.4	-
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.05	0.05	0.07	0.03	0.05	0.05	0.16	0.24	<0.03	0.05	-
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.07	0.07	0.09	-	-	-	-	-	<0.03	0.07	-
D	Dissolved Methane #	TM25/PM0	ug/l	<1	3	<1	5	<1	<1	3	29	3	<1	<1	-

Key		
A	Key physio-chemical parameter	
B	Major Anion	
C	Major cation	
D	Key dissolved gas	
#	**Other**	

Conversion to meq/L		EB1/28	EB2/28	EB3/28	GWMBH1R/28	GWMBH2R/28	GWMBH3R/28	GWMBH4R/28	GWMBH5/28	B/28	EB3/28D	DP/28
Sulphate	meq/l	1.863	1.891	1.895	1.780	1.897	1.965	3.365	3.138		1.91	
Chloride	meq/l	1.125	1.125	1.134	0.702	0.736	0.984	1.300	0.604		1.13	
Nitrate	meq/l	0.706	0.710	0.706	0.032	1.143	0.155	0.00	0.732		0.71	
Total Alk	meq/l	5.595	5.635	5.435	7.034	5.955	5.475	6.155	4.876		5.52	
Calcium	meq/l	7.330	7.345	7.295	6.262	6.876	5.250	7.410	6.577		7.36	
Magnesium	meq/l	0.551	0.551	0.551	0.614	0.684	0.479	0.704	0.454		0.55	
Potassium	meq/l	0.128	0.133	0.136	1.796	1.712	2.365	0.145	1.397		0.14	
Sodium	meq/l	1.009	1.009	1.009	0.813	0.654	1.173	2.091	1.018		1.02	
Ammonium	meq/l	0.004	0.004	0.005	0.020	0.004	0.004	0.011	0.017		0.004	
Sum Anions	meq/l	9.290	9.361	9.170	9.548	9.731	8.580	10.823	9.349		9.258	
Sum Cations	meq/l	9.022	9.042	8.996	9.506	9.929	9.270	10.361	9.463		9.064	
Ion blanace error	%	1.5%	1.7%	1%	0%	-1%	-4%	2%	-1%		1%	

Element Materials Technology

			EB1	EB2	EB3	Interception Chamber
		Sample ID	EB1/29	EB2/29	EB3/29	DP/29
Report:	**Liquid**	**Depth**				
EMT Job No:	22/11537	**Sample Type**	Surface Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd	**Sampled Date**	12/01/2022	12/01/2022	12/01/2022	12/01/2022
Client ref:	3490485	**Sample Received Date**	13/01/2022	13/01/2022	13/01/2022	13/01/2022
Location:	Wressle	**EMT Sample No**	1-8	9-16	17-24	1
Contact	Lewis Miles	**Batch Number**	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	30	29	29
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	58	60	60
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	9	9	8
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	4	3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3

1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	110	88	97
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	114	90	98
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	110	88	97
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	114	90	98
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	107	101	104
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	114	106	108
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10

>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Aromatics							
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Alcohols/Acetates							
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	

	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	817	825	821	
A	pH #	TM73/PM0	pH units	<0.01	8.18	8.21	8.21	8.47
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	554	529	548	
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	81.1	81.8	82	
B	Chloride #	TM38/PM0	mg/l	<0.3	41.1	41.3	41.5	95.4
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	42.9	42.5	42.3	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.05	0.04	0.03	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	288	268	258	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	288	268	258	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	142.4	142	139.8	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6.7	6.7	6.6	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4.9	5	5.2	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	23.6	24.5	24.3	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.06	0.05	0.04	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.08	0.07	0.05	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	5	2	1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L

		EB1/29	EB2/29	EB3/29
Sulphate	meq/l	1.689	1.703	1.707
Chloride	meq/l	1.159	1.165	1.171
Nitrate	meq/l	0.692	0.685	0.682
Total Alk	meq/l	5.755	5.355	5.155
Calcium	meq/l	7.106	7.086	6.976
Magnesium	meq/l	0.334	0.334	0.329
Potassium	meq/l	0.245	0.250	0.259
Sodium	meq/l	1.178	1.223	1.213
Ammonium	meq/l	0.060	0.050	0.040
Sum Anions	meq/l	9.295	8.909	8.715
Sum Cations	meq/l	8.922	8.942	8.817
Ion blanace error	%	2%	0%	-1%

Element Materials Technology

			EB1	EB2	EB3	Interception Chamber
		Sample ID	EB1/30	EB2/30	EB3/30	DP/30
Report:	**Liquid**	**Depth**				
EMT Job No:	22/11537	**Sample Type**	Surface Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd	**Sampled Date**	14/02/2023	14/02/2023	14/02/2023	14/02/2023
Client ref:	3490485	**Sample Received Date**	15/02/2023	15/02/2023	15/02/2023	15/02/2023
Location:	Wressle	**EMT Sample No**	1-8	9-16	17-24	1
Contact	Lewis Miles	**Batch Number**	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	31	30	32
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	69	62	62
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	7	9	9
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3

1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	122	97	78
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	120	95	78
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	122	97	78
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	120	95	78
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	128	122	112
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	129	127	114
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10

>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Alcohols/Acetates						
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100

	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	874	864	870
A	pH #	TM73/PM0	pH units	<0.01	8.28	8.29	8.29
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	569	555	567
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	93	93.6	94.7
B	Chloride #	TM38/PM0	mg/l	<0.3	45.5	45.5	45.4
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	39.3	40.5	40.4
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.12	0.13	0.14
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	272	276	276
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	272	276	276
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	148.1	145.6	147.9
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7.3	7.3	7.4
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	5.8	6.1	6.3
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	25	24.2	24.5
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.06	0.05	0.06
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.08	0.07	0.08
D	Dissolved Methane #	TM25/PM0	ug/l	<1	2	1	1

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/30	EB2/30	EB3/30
Sulphate	meq/l	1.936	1.949	1.972
Chloride	meq/l	1.283	1.283	1.281
Nitrate	meq/l	0.634	0.653	0.652
Total Alk	meq/l	5.435	5.515	5.515
Calcium	meq/l	7.390	7.265	7.380
Magnesium	meq/l	0.601	0.601	0.609
Potassium	meq/l	0.148	0.156	0.161
Sodium	meq/l	1.087	1.053	1.066
Ammonium	meq/l	0.060	0.050	0.060
Sum Anions	meq/l	9.289	9.400	9.419
Sum Cations	meq/l	9.287	9.125	9.276
Ion blanace error	%	0%	1%	1%

Element Materials Technology

				EB1	EB2	EB3	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH4R	GWMBH5	Blank	EB3 duplicate	Interception Chamber
			Sample ID	EB1/31	EB2/31	EB3/31	GWMBH1R/31	GWMBH2R/31	GWMBH3R/31	GWMBH4R/31	GWMBH5/31	B/31	EB3/31D	DP/31
Report:	**Liquid**		Depth											
EMT Job No:			Sample Type	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd		Sampled Date	14/03/2023	14/03/2023	14/03/2023	14/03/2023	14/03/2023	14/03/2023	14/03/2023	14/03/2023	14/03/2023	14/03/2023	14/03/2023
Client ref:	3490485		Sample Received Date	15/03/2023	15/03/2023	15/03/2023	15/03/2023	15/03/2023	15/03/2023	15/03/2023	15/03/2023	15/03/2023	15/03/2023	15/03/2023
Location:	Wressle		EMT Sample No	1-8	9-16	17-24	1	2	4	5-12	13	25-32	33-40	1
Contact	Lewis Miles		Batch Number	1	1	1	1	1	1	1	1	1	1	1
Test	**Method**	**Units**	**LOD**											
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20	-	-	-	-	-	<20	<20	
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5	16	<2.5	<2.5	<2.5	26.1	<2.5	<2.5	
Dissolved Barium #	TM30/PM14	ug/l	<3	24	24	24	-	-	-	-	-	<3	24	
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
Dissolved Boron	TM30/PM14	ug/l	<12	41	44	50	87	131	103	75	72	<12	40	
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5	
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7	15	<7	<7	<7	12	<7	<7	
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20	35	59	258	1911	20	<20	20	
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Dissolved Manganese #	TM30/PM14	ug/l	<2	10	10	9	<2	360	539	40	<2	<2	10	
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2	25	38	17	<2	84	<2	<2	
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5	
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	1.9	<1.5	2.7	-	-	-	-	-	<1.5	2.7	
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3	9	21	5	<3	94	<3	<3	
VOC MS														
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5	
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	-	-	-	-	-	<4	<4	
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	115	118	119	-	-	-	-	-	114	115	
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	108	108	108	-	-	-	-	-	105	107	
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1	
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<5	<0.5	<0.5	
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<5	<5	<5	<5	<5	<1	<1	
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<5	<5	<5	<5	<5	<2	<2	
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<5	<5	<5	<5	<5	<1	<1	
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	115	118	119	-	-	-	-	-	114	115	
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	108	108	108	-	-	-	-	-	105	107	
SVOC MS														
Phenols														
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10	
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
PAHs														
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	

Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Phthalates													
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	3	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Other SVOCs													
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	125	110	129	-	-	-	-	-	134[SV]	128
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	134[SV]	116	135[SV]	-	-	-	-	-	140[SV]	136[SV]
TPH CWG													
Aliphatics													
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics													
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Alcohols/Acetates													
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<101	-	-	-	-	-	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
PAH MS													
Naphthalene #	TM4/PM30	ug/l	<0.1	-	-	-	<0.1	<0.1	<0.1		<0.1	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.004	<0.005	<0.005		<0.005	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Fluorene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Chrysene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008		<0.008	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005		<0.005	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.173	-	-	-	<0.173	<0.173	<0.173		<0.173	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008		<0.008	-	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008		<0.008	-	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	-	-	-	91	94	100		94	-	-
Dissolved Strontium	TM30/PM14	ug/l	<5	-	-	-	119	290	195	1325[AA]	188	-	-
Total organic carbon	TM60/PM0	mg/l	<2	-	-	-	17	14	12	<2	20	-	-
Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
A Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	776	790	770	641	871	799	997	881	14	776	-
A pH #	TM73/PM0	pH units	<0.01	8.32	8.31	8.26	7.37	7.31	7.66	7.83	7.23	6.31	8.29	8.27
A Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	23	15	-	-	-	-	-	<10	<10	<10
A Total Dissolved Solids #	TM20/PM0	mg/l	<35	486	491	488	-	-	-	-	-	<35	489	-
B Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	71.8	72	69.4	90.3	133.5	104.2	161.9	109.2	<0.5	69.9	-
B Chloride #	TM38/PM0	mg/l	<0.3	58.9	63.6	59.9	17.1	21	34	45.5	7.2	<0.3	59.4	77.8
B Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	23.5	26	3.4	61.6	57.8	17.4	0.8	201	<0.2	22.1	-
B Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.11	0.09	0.12	-	-	-	-	-	<0.02	0.11	-
B Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	230	226	222	-	-	-	-	-	8	224	-
B Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	230	226	222	160	244	234	296	136	8	224	-
C Dissolved Calcium #	TM30/PM14	mg/l	<0.2	113.5	115.4	113	78.6	130.6	101.7	149.8	115.7	0.3	113.2	-
C Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6	6.1	6	11.8	13.1	9.6	14.8	14.9	<0.1	6	-
C Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4.6	4.9	5.2	35.7	30.6	47.2	2.9	31.9	<0.1	4.6	-
C Dissolved Sodium #	TM30/PM14	mg/l	<0.1	37.2	38.5	37.5	12.4	11	22.3	41.5	12	0.5	37.4	-
C Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.06	0.05	0.05	<0.03	<0.03	0.05	0.16	<0.03	<0.03	0.06	-
C Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.08	0.07	0.07	-	-	-	-	-	<0.03	0.08	-
D Dissolved Methane #	TM25/PM0	ug/l	<1	3	1	1	<1	<1	11	22	<1	<1	1	-

Key	
A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	**Other**

Conversion to meq/L		EB1/31	EB2/31	EB3/31	GWMBH1R/31	GWMBH2R/31	GWMBH3R/31	GWMBH4R/31	GWMBH5/31	B/31	EB1/31D	DP/31
Sulphate	meq/l	1.495	1.499	1.445	1.880	2.780	2.170	3.371	2.274		1.46	
Chloride	meq/l	1.661	1.794	1.690	0.482	0.592	0.959	1.283	0.203		1.68	
Nitrate	meq/l	0.379	0.419	0.055	0.993	0.932	0.281	0.01	3.242		0.36	
Total Alk	meq/l	4.596	4.516	4.436	3.197	4.876	4.676	5.915	2.718		4.48	
Calcium	meq/l	5.664	5.758	5.639	3.922	6.517	5.075	7.475	5.773		5.65	
Magnesium	meq/l	0.494	0.502	0.494	0.589	0.654	0.479	0.739	0.744		0.49	
Potassium	meq/l	0.951	0.125	0.133	1.781	1.527	2.355	0.145	1.592		0.12	

Sodium	meq/l	1.618	1.675	1.631	0.619	0.549	1.113	2.071	0.599	1.63
Ammonium	meq/l	0.004	0.004	0.004	0.03	0.030	0.004	0.011	0.030	0.004
Sum Anions	meq/l	8.131	8.228	7.625	6.553	9.180	8.085	10.582	8.436	7.963
Sum Cations	meq/l	8.731	8.064	7.900	6.941	9.277	9.026	10.441	8.738	7.891
Ion blanace error	%	-3.6%	1.0%	-2%	-3%	-1%	-5%	1%	-2%	0%

Element Materials Technology

			EB1	EB2	EB3	Interception Chamber
		Sample ID	EB1/32	EB2/32	EB3/32	DP/32
Report:	**Liquid**	**Depth**				
EMT Job No:	22/11537	**Sample Type**	Surface Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd	**Sampled Date**	18/04/2023	18/04/2023	18/04/2023	18/04/2023
Client ref:	3490485	**Sample Received Date**	19/04/2023	19/04/2023	19/04/2023	19/04/2023
Location:	Wressle	**EMT Sample No**	1-8	9-16	17-24	1
Contact	Lewis Miles	**Batch Number**	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	29	28	26
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	65	53	58
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	8	7	7
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	1.7	1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3

Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	105	109	105
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	104	106	100
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	105	109	105
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	104	106	100
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	118	118	112
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	125	132	116
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10

	>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	
	>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
	>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
	>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
	>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
	Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Alcohols/Acetates							
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	793	794	794	
A	pH #	TM73/PM0	pH units	<0.01	8.19	8.26	8.28	8.02
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	10	15	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	504	516	522	
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	83.1	82.6	83	
B	Chloride #	TM38/PM0	mg/l	<0.3	40.4	40.6	40.7	75.1
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	39.9	39.3	39.2	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	<0.02	<0.02	0.03	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	257	257	251	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	257	257	251	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	140.4	142.6	144.9	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6.3	6.4	6.4	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4.4	4.5	4.5	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	22.7	22.8	23.5	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	<0.03	<0.03	<0.03	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	<0.03	<0.03	<0.03	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	2	<1	<1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/32	EB2/32	EB3/32
Sulphate	meq/l	1.730	1.720	1.728
Chloride	meq/l	1.140	1.145	1.148
Nitrate	meq/l	0.643	0.634	0.632
Total Alk	meq/l	5.135	5.135	5.016
Calcium	meq/l	7.006	7.116	7.231
Magnesium	meq/l	0.518	0.527	0.527
Potassium	meq/l	0.113	0.115	0.115
Sodium	meq/l	0.987	0.992	1.022
Ammonium	meq/l	<0.03	<0.03	<0.03
Sum Anions	meq/l	8.649	8.634	8.524
Sum Cations	meq/l	8.624	8.749	8.894
Ion blanace error	%	0%	-1%	-2%

Element Materials Technology

			EB1	EB2	EB3	Interception Chamber
		Sample ID	EB1/33	EB2/33	EB3/33	DP/33
Report:	**Liquid**	Depth				
EMT Job No:	22/11537	Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd	Sampled Date	16/05/2023	16/05/2023	16/05/2023	16/05/2023
Client ref:	3490485	Sample Received Date	17/05/2023	17/05/2023	17/05/2023	17/05/2023
Location:	Wressle	EMT Sample No	1-8	9-16	17-24	1
Contact	Lewis Miles	Batch Number	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	24	24	24
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	38	39	38
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	5	5	5
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3

Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	110	111	108
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	102	104	100
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	110	111	108
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	102	104	100
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	121	118	114
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	128	127	119
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10

	>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	
	>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
	>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
	>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
	>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
	Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
	Alcohols/Acetates							
	Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
	i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
	Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	820	818	819	
A	pH #	TM73/PM0	pH units	<0.01	8.3	8.29	8.29	8.03
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	11	11	10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	538	538	553	
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	84	84.8	84.9	
B	Chloride #	TM38/PM0	mg/l	<0.3	38.8	38.6	38.5	45
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	37.8	38.2	38.1	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	<0.02	<0.02	<0.02	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	266	274	274	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	266	274	274	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	137.7	136.9	137.8	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	5.9	5.9	5.9	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	3.9	4	4.1	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	22.4	22.5	22.5	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	<0.03	<0.03	<0.03	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	<0.03	<0.03	<0.03	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	2	<1	<1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/33	EB2/33	EB3/33
Sulphate	meq/l	1.749	1.766	1.768
Chloride	meq/l	1.094	1.089	1.086
Nitrate	meq/l	0.610	0.616	0.614
Total Alk	meq/l	5.315	5.475	5.475
Calcium	meq/l	6.871	6.831	6.876
Magnesium	meq/l	0.485	0.485	0.485
Potassium	meq/l	0.100	0.102	0.105
Sodium	meq/l	0.974	0.979	0.979
Ammonium	meq/l	<0.03	<0.03	<0.03
Sum Anions	meq/l	8.768	8.946	8.943
Sum Cations	meq/l	8.431	8.398	8.445
Ion blanace error	%	2%	3%	3%

Element Materials Technology

Report: Liquid

EMT Job No:

Client: Envireau Ltd
Client ref: 3490485
Location: Wressle
Contact Lewis Miles

	EB1	EB2	EB3	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH4	GWMBH5	Blank	EB2 duplicate	Interception Chamber
Sample ID	EB1/34	EB2/34	EB3/34	GWMBH1R/34	GWMBH2R/34	GWMBH3R/34	GWMBH4/34	GWMBH5/34	B/34	EB2/34D	DP/34
Depth											
Sample Type	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water
Sampled Date	15/06/2023	15/06/2023	15/06/2023	15/06/2023	15/06/2023	15/06/2023	15/06/2023	15/06/2023	15/06/2023	15/06/2023	
Sample Received Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	
EMT Sample No	1-8	9-16	17-24	1	2	4	5-12	13	25-32	33-40	1
Batch Number	1	1	1	1	1	1	1	1	1	1	1

Test	Method	Units	LOD										
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20	-	-	-	-	-	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	3	<2	<2	-	-	-	-	-	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5	17.8	7.4	<2.5	<2.5	32.4	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	32	33	36	-	-	-	-	-	<3	37
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	63	60	73	93	184	120	86	84	<12	74
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	1	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7	12	<7	<7	<7	13	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20	30	45	178	4992	26	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	4	7	9	2	210	354	88	3	<2	7
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2	23	31	17	<2	94	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	2.6	1.7	<1.5	-	-	-	-	-	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3	11	16	4	5	133	<3	<3
VOC MS													
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	-	-	-	-	-	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	122	111	112	-	-	-	-	-	116	111
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	105	92	90	-	-	-	-	-	94	92
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<5	<5	<5	<5	<5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<5	<5	<5	<5	<5	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<5	<5	<5	<5	<5	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<5	<5	<5	<5	<5	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	122	111	112	-	-	-	-	-	116	111
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	105	92	90	-	-	-	-	-	94	92
SVOC MS													
Phenols													
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
PAHs													
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1

Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Phthalates													
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	1.6	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	4	<1
Other SVOCs													
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	134	131	133	-	-	-	-	-	135	131
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	144	139	145	-	-	-	-	-	144	139
TPH CWG													
Aliphatics													
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics													
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Alcohols/Acetates													
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100
PAH MS													
Naphthalene #	TM4/PM30	ug/l	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluorene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Chrysene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.173	-	-	-	<0.173	<0.173	<0.173	<0.173	<0.173	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	-	-	-	86	76	87	84	86	-	-
Dissolved Strontium	TM30/PM14	ug/l	<5	-	-	-	142	323	184	1492$_{AA}$	194	-	-
Total organic carbon	TM60/PM0	mg/l	<2	-	-	-	12	10	9	<2	19	-	-
Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
A Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	829	837	836	937	899	784	960	998	12	838	-
A pH #	TM73/PM0	pH units	<0.01	8.28	8.32	8.29	7.19	7.17	7.67	7.85	7.18	6.12	8.29	
A Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10	
A Total Dissolved Solids #	TM20/PM0	mg/l	<35	545	558	554	-	-	-	-	-	<35	559	-
B Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	87.8	87.9	87.7	65.2	162.3	135.5	156	95.3	<0.5	88.2	-
B Chloride #	TM38/PM0	mg/l	<0.3	48.7	48.2	47.8	37.8	26.9	33.1	46.1	5.6	<0.3	46.9	
B Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	31.4	33	33.1	202.2	74	18.3	0.2	275.5	<0.2	33	-
B Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.13	0.17	0.18	-	-	-	-	-	<0.02	0.19	-
B Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	264	264	260	-	-	-	-	-	6	260	-
B Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	264	264	260	134	188	208	300	128	6	260	-
C Dissolved Calcium #	TM30/PM14	mg/l	<0.2	134.1	134.3	140.8	96.9	137.8	99	143	136.5	<0.2	139.4	-
C Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7.4	7.6	8	14.1	10.4	8.9	15.2	17.2	<0.1	7.9	-
C Dissolved Potassium #	TM30/PM14	mg/l	<0.1	6.1	6.7	7.1	41.5	31.8	51.2	3	34.4	<0.1	7	-
C Dissolved Sodium #	TM30/PM14	mg/l	<0.1	26.1	25.9	26.2	13.5	10.9	24.4	42.4	11	<0.1	25.5	-
C Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.11	0.07	0.08	0.03	0.03	0.06	0.16	0.04	<0.03	0.06	-
C Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.14	0.09	0.1	-	-	-	-	-	<0.03	0.08	-
D Dissolved Methane #	TM25/PM0	ug/l	<1	<1	1	1	<1	<1	2	26	<1	<1	1	-

Key	
A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	**Other**

Conversion to meq/L		EB1/34	EB2/34	EB3/34	GWMBH1R/34	GWMBH2R/34	GWMBH3R/34	GWMBH4/34	GWMBH5/34	B/34	EB2/34D	DP/34
Sulphate	meq/l	1.828	1.830	1.826	1.358	3.379	2.821	3.248	1.984		1.84	
Chloride	meq/l	1.374	1.360	1.348	1.066	0.759	0.934	1.300	0.158		1.32	
Nitrate	meq/l	0.506	0.532	0.534	3.261	1.193	0.295	0.00322538	4.443		0.53	
Total Alk	meq/l	5.275	5.275	5.195	2.678	3.757	4.156	5.995	2.558		5.20	
Calcium	meq/l	6.692	6.702	7.026	4.835	6.876	4.940	7.136	6.811		6.96	
Magnesium	meq/l	0.369	0.379	0.399	0.704	0.519	0.444	0.758	0.858		0.39	
Potassium	meq/l	0.304	0.334	0.354	2.071	1.587	2.555	0.150	1.717		0.35	
Sodium	meq/l	1.302	1.292	1.307	0.674	0.544	1.218	2.116	0.549		1.27	
Ammonium	meq/l	0.008	0.005	0.006	0.002	0.002	0.004	0.011	0.003		0.00	

Sum Anions	meq/l	8.983	8.997	8.903	8.362	9.088	8.206	10.546	9.143	8.887
Sum Cations	meq/l	8.676	8.713	9.093	8.286	9.528	9.161	10.171	9.938	8.975
Ion blanace error	%	1.7%	1.6%	-1%	0%	-2%	-5%	2%	-4%	0%

Element Materials Technology

			EB1	EB2	EB3	Interception Chamber
		Sample ID	EB1/35	EB2/35	EB3/35	DP/35
Report:	**Liquid**	Depth				
EMT Job No:	22/11537	Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd	Sampled Date	07/07/2023	07/07/2023	07/07/2023	07/07/2023
Client ref:	3490485	Sample Received Date	10/07/2023	10/07/2023	10/07/2023	10/07/2023
Location:	Wressle	EMT Sample No	1-8	9-16	17-24	1
Contact	Lewis Miles	Batch Number	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	3.7	2.8	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	35	37	37
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	79	85	85
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	2	8	9
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3

1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	108	106	112
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	101	97	103
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	108	106	112
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	101	97	103
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	109	123	124
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	124	141 **SV**	142 **SV**
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10

>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Aromatics							
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	
Alcohols/Acetates							
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	877	864	871	
A	pH #	TM73/PM0	pH units	<0.01	8.32	8.34	8.29	8.16
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	557	567	563	
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	84.7	84.6	86	
B	Chloride #	TM38/PM0	mg/l	<0.3	52.6	52.4	51.9	33.5
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	28.1	29.3	29.2	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.05	0.06	0.06	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	260	268	252	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	260	272	252	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	146.6	143.3	142.3	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	8.1	8.3	8.1	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	7.4	8.4	8.6	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	29.5	28.4	28.2	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.04	0.05	0.06	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.05	0.07	0.08	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	<1	<1	1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L		EB1/35	EB2/35	EB3/35
Sulphate	meq/l	1.764	1.761	1.791
Chloride	meq/l	1.484	1.478	1.464
Nitrate	meq/l	0.453	0.473	0.471
Total Alk	meq/l	5.195	5.435	5.036
Calcium	meq/l	7.315	7.151	7.101
Magnesium	meq/l	0.667	0.683	0.667
Potassium	meq/l	0.189	0.215	0.220
Sodium	meq/l	1.283	1.235	1.227
Ammonium	meq/l	0.040	0.015	0.060
Sum Anions	meq/l	8.896	9.147	8.761
Sum Cations	meq/l	9.494	9.299	9.274
Ion blanace error	%	-3%	-1%	-3%

Element Materials Technology

			EB1	EB2	EB3	Interception Chamber
		Sample ID	EB1/36	EB2/36	EB3/36	DP/36
Report:	**Liquid**	Depth				
EMT Job No:	22/11537	Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
Client:	Envireau Ltd	Sampled Date	08/08/2023	08/08/2023	08/08/2023	08/08/2023
Client ref:	3490485	Sample Received Date	09/08/2023	09/08/2023	09/08/2023	09/08/2023
Location:	Wressle	EMT Sample No	1-8	9-16	17-24	1
Contact	Lewis Miles	Batch Number	1	1	1	1

Test	Method	Units	LOD			
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	31	32	33
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	72	72	70
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	3	3	3
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3
VOC MS						
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3

1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	73	95	92
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	93	104	102
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	73	95	92
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	93	104	102
SVOC MS						
Phenols						
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1
PAHs						
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Phthalates						
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1
Other SVOCs						
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	127	129	125
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	147**SV**	149**SV**	146**SV**
TPH CWG						
Aliphatics						
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5

>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<70 AA	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<70 AA	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<70 AA	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<70 AA	<10
Total aliphatics C5-35	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<70 AA	<10
Aromatics						
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<35 AA	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<70 AA	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<70 AA	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<70 AA	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<70 AA	<10
Total aromatics C5-35/44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<70 AA	<10
Total aliphatics and aromatics(C5-35/44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<70 AA	<10
Alcohols/Acetates						
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100

	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	834	816	811	
A	pH #	TM73/PM0	pH units	<0.01	8.32	8.31	8.31	7.98
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	16	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	516	540	534	
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	79.7	78.9	78.8	
B	Chloride #	TM38/PM0	mg/l	<0.3	41.4	41.3	41.4	58.4
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	37.2	37.5	36.8	
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.04	0.04	0.04	
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	272	280	276	
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	272	280	276	
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	139.1	137	136.9	
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6.5	6.4	6.5	
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	5.7	5.6	5.6	
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	25.3	25	24.8	
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.03	0.04	0.03	
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.04	0.05	0.04	
D	Dissolved Methane #	TM25/PM0	ug/l	<1	2	1	1	

Key

A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	Other

Conversion to meq/L

		EB1/36	EB2/36	EB3/36
Sulphate	meq/l	1.659	1.643	1.641
Chloride	meq/l	1.168	1.165	1.168
Nitrate	meq/l	0.600	0.605	0.593
Total Alk	meq/l	5.435	5.595	5.515
Calcium	meq/l	6.941	6.836	6.831
Magnesium	meq/l	0.535	0.527	0.535
Potassium	meq/l	0.146	0.143	0.143
Sodium	meq/l	1.100	1.087	1.079
Ammonium	meq/l	0.030	0.040	0.030
Sum Anions	meq/l	8.862	9.007	8.917
Sum Cations	meq/l	8.752	8.634	8.618
Ion blanace error	%	1%	2%	2%

Element Materials Technology

Report: Liquid

EMT Job No:

Client: Envireau Ltd
Client ref: 3490485
Location: Wressle
Contact Lewis Miles

	EB1	EB2	EB3	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH4	GWMBH5	Blank	EB1 duplicate	Interception Chamber
Sample ID	EB1/37	EB2/37	EB3/37	GWMBH1R/37	GWMBH2R/37	GWMBH3R/37	GWMBH4/37	GWMBH5/37	B/37	EB1/37D	DP/37
Depth											
Sample Type	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water
Sampled Date	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023	14/09/2023
Sample Received Date	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023	15/09/2023
EMT Sample No	1-8	9-16	17-24	1	2	4	5-12	13	25-32	33-40	1
Batch Number	1	1	1	1	1	1	1	1	1	1	1

Test	Method	Units	LOD											
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20	-	-	-	-	-	<20	<20	-
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	3	3.5	3.4	16.8	6.8	<2.5	<2.5	40.7	<2.5	<2.5	-
Dissolved Barium #	TM30/PM14	ug/l	<3	27	27	28	-	-	-	-	-	<3	27	-
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Dissolved Boron	TM30/PM14	ug/l	<12	57	56	62	97	189	162	74	115	<12	61	-
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	-
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5	-
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7	11	<7	<7	<7	9	14	<7	-
Total Dissolved Iron #	TM30/PM14	ug/l	<20	<20	<20	<20	28	33	120	1830	<20	<20	<20	-
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
Dissolved Manganese #	TM30/PM14	ug/l	<2	<2	<2	<2	<2	301	366	47	<2	<2	<2	-
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2	23	37	16	<2	85	<2	<2	-
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5	-
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5	-
Dissolved Zinc #	TM30/PM14	ug/l	<3	<3	<3	<3	10	19	5	<3	95	<3	<3	-
VOC MS														
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5	-
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	-	-	-	-	-	<4	<4	-
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	95	98	96	-	-	-	-	-	95	96	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	103	105	105	-	-	-	-	-	104	101	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5	-
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	95	98	96	-	-	-	-	-	95	96	-
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	103	105	105	-	-	-	-	-	104	101	-
SVOC MS														
Phenols														
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10	-
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
PAHs														
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-

Phthalates														
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5	-
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5	-
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Other SVOCs														
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	118	108	109	-	-	-	-	-	108	119	
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	117	107	108	-	-	-	-	-	109	118	-
TPH CWG														
Aliphatics														
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10	-
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Aromatics														
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10	-
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Alcohols/Acetates														
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500	-
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500	-
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
PAH MS														
Naphthalene #	TM4/PM30	ug/l	<0.1	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Fluorene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Chrysene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.008	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.173	-	-	-	<0.082	<0.082	<0.082	<0.082	<0.082	-	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	-	-	-						-	-	-
Dissolved Strontium	TM30/PM14	ug/l	<5	-	-	-	148	318	176	918	180	-	-	-
Total organic carbon	TM60/PM0	mg/l	<2	-	-	-	12	11	8	<2	17	-	-	-

	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	837	833	832	870	962	764	972	848	7	836	-
A	pH #	TM73/PM0	pH units	<0.01	8.28	8.31	8.29	7.29	7.14	7.53	7.81	7.14	7.7	8.3	7.21
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	553	551	562	-	-	-	-	-	<35	527	-
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	74.9	76.2	76.6	52.3	152.1	138.9	154.5	81.6	<0.5	75.8	-
B	Chloride #	TM38/PM0	mg/l	<0.3	50.3	50.6	50.2	39.1	34.7	17.6	44.6	9.3	<0.3	50.7	38.7
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	28.7	29.5	29.9	193.8	72.4	6.2	<0.2	172.4	<0.2	29.1	-
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.1	0.1	0.1	-	-	-	-	-	<0.02	0.1	-
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	260	252	274	-	-	-	-	-	8	264	-
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	260	252	274	124	194	204	298	152	8	264	-
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	132.1	131.8	133.1	100.1	141.3	95.4	157	115.4	<0.2	130.1	-
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	7.6	7.6	7.8	14.6	11.5	8.5	12.5	13.9	<0.1	7.5	-
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	7.4	7.8	8	45.3	35.7	57.9	3.2	34.2	<0.1	7.3	-
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	28	28	28.1	13.4	13.1	19.9	41.7	13	<0.1	27.3	-
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.06	0.05	0.09	<0.03	<0.03	0.04	0.11	0.03	<0.03	0.05	-
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.08	0.06	0.11	-	-	-	-	-	<0.03	0.05	-
D	Dissolved Methane #	TM25/PM0	ug/l	<1	2	1	2	<1	<1	3	11	<1	<1	<1	-

Key	
A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	**Other**

Conversion to meq/L		EB1/37	EB2/37	EB3/37	GWMBH1R/37	GWMBH2R/37	GWMBH3R/37	GWMBH4/37	GWMBH5/37	B/37	EB1/37D	DP/37
Sulphate	meq/l	1.559	1.587	1.595	1.089	3.167	2.892	3.217	1.699		1.58	
Chloride	meq/l	1.419	1.427	1.416	1.103	0.979	0.496	1.258	0.262		1.43	
Nitrate	meq/l	0.463	0.476	0.482	3.125	1.168	0.100	0.00322538	2.780		0.47	
Total Alk	meq/l	5.195	5.036	5.475	2.478	3.877	4.076	5.955	3.037		5.28	
Calcium	meq/l	6.592	6.577	6.642	4.995	7.051	4.760	7.834	5.758		6.492	
Magnesium	meq/l	0.625	0.625	0.642	1.201	0.946	0.699	1.029	1.144		0.617	
Potassium	meq/l	0.189	0.199	0.205	1.159	0.913	1.481	0.082	0.875		0.187	
Sodium	meq/l	1.218	1.218	1.222	0.583	0.570	0.866	1.814	0.565		1.187	
Ammonium	meq/l	0.004	0.004	0.006	0.002	0.002	0.003	0.008	0.002		0.004	
Sum Anions	meq/l	8.636	8.525	8.968	7.795	9.190	7.565	10.433	7.779		8.753	
Sum Cations	meq/l	8.629	8.623	8.717	7.940	9.482	7.809	10.766	8.345		8.487	
Ion blanace error	%	0.0%	-0.6%	1%	-1%	-2%	-2%	-2%	-4%		2%	

Element Materials Technology

Report: Liquid

EMT Job No:

Client: Envireau Ltd
Client ref: 3490485
Location: Wressle
Contact Lewis Miles

	EB1	EB2	EB3	GWMBH1R	GWMBH2R	GWMBH3R	GWMBH4	GWMBH5	Blank	EB2 duplicate	Interception Chamber
Sample ID	EB1/38	EB2/38	EB3/38	GWMBH1R/38	GWMBH2R/38	GWMBH3R/38	GWMBH4/38	GWMBH5/38	B/38	EB1/38D	DP/38
Depth											
Sample Type	Surface Water	Surface Water	Surface Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Surface Water	Surface Water
Sampled Date	06/12/2023	06/12/2023	06/12/2023	19/12/2023	19/12/2023	19/12/2023	19/12/2023	19/12/2023	19/12/2023	19/12/2023	19/12/2023
Sample Received Date	07/12/2023	07/12/2023	07/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023	20/12/2023
EMT Sample No	1-8	9-16	17-24	1	2	4	5-12	13	25-32	33-40	1
Batch Number	1	1	1	1	1	1	1	1	1	1	1

Test	Method	Units	LOD											
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20	<20	-	-	-	-	-	<20	<20	-
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5	<2.5	12.5	6.7	<2.5	<2.5	22.7	<2.5	<2.5	-
Dissolved Barium #	TM30/PM14	ug/l	<3	28	21	21	<3	-	-	-	-	-	<3	29	-
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Dissolved Boron	TM30/PM14	ug/l	<12	59	50	49	73	252	227	75	131	<12	60	-	
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	1	<0.5	<0.5	-	
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5	-
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7	<7	16	<7	<7	<7	12	<7	<7	-
Total Dissolved Iron #	TM30/PM14	ug/l	<20	26	<20	21	38	<20	26	2231	<20	<20	26	-	
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	
Dissolved Manganese #	TM30/PM14	ug/l	<2	21	12	13	<2	116	46	59	<2	<2	21	-	
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2	19	21	7	<2	59	<2	<2	-	
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	-	
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	<5	-	-	-	-	-	<5	<5	-
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	1.5	-
Dissolved Zinc #	TM30/PM14	ug/l	<3	4	<3	<3	7	13	9	<3	77	<3	3	-	
VOC MS														
Dichlorodifluoromethane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
Chloromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Vinyl Chloride #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	-	-	-	-	-	<5	<5	-
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	<4	-	-	-	-	-	<4	<4	-
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3	-	-	-	-	-	<3	<3	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	99	103	82	-	-	-	-	-	86	87	-	
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	98	107	78	-	-	-	-	-	78	81	-	
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5	-	-	-	-	-	<5	<5	-
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2	-	-	-	-	-	<2	<2	-
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	99	103	82	-	-	-	-	-	86	87	-	
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	98	107	78	-	-	-	-	-	78	81	-	
SVOC MS														
Phenols														
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	<10	-	-	-	-	-	<10	<10	-
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
PAHs														
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-

Phthalates														
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	-	-	-	-	-	<5	<5	-
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	<1.5	<1.5	-
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Other SVOCs														
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	-
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	-	-	-	-	-	<1	<1	-
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	120	118	115	-	-	-	-	-	117	117	
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	126	125	123	-	-	-	-	-	121	123	-
TPH CWG														
Aliphatics														
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	78	<10	<10	<10	<10	<10	<10	<10	-
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10	-
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	78	<10	<10	<10	<10	<10	<10	<10	-
Aromatics														
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	-	-	-	-	-	<10	<10	-
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	78	<10	<10	<10	<10	<10	<10	<10	-
Alcohols/Acetates														
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500	-
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	-	-	-	-	-	<500	<500	-
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	>>2904	-	-	-	-	-	<100	<100	-
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	-	-	-	-	-	<100	<100	-
PAH MS														
Naphthalene #	TM4/PM30	ug/l	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-
Acenaphthylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Acenaphthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Fluorene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Phenanthrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Fluoranthene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Benzo(a)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Chrysene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Benzo(bk)fluoranthene #	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-	-
Benzo(a)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Indeno(123cd)pyrene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Dibenzo(ah)anthracene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
Benzo(ghi)perylene #	TM4/PM30	ug/l	<0.005	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-
PAH 16 Total #	TM4/PM30	ug/l	<0.173	-	-	-	<0.173	<0.173	<0.173	<0.173	<0.173	-	-	-
Benzo(b)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-	-
Benzo(k)fluoranthene	TM4/PM30	ug/l	<0.008	-	-	-	<0.008	<0.008	<0.008	<0.008	<0.008	-	-	-
PAH Surrogate % Recovery	TM4/PM30	%	<0	-	-	-	65	72	72	75	73	-	-	-
Dissolved Strontium	TM30/PM14	ug/l	<5	-	-	-	93	428	164	1006	169	-	-	-
Total organic carbon	TM60/PM0	mg/l	<2	-	-	-	22	10	11	3	20	-	-	-

	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	<0.1	<0.1	-
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	839	838	842	519	938	692	979	777	9	837	-
A	pH #	TM73/PM0	pH units	<0.01	8.3	8.35	8.32	7.32	6.74	7.04	7.57	6.96	7.94	8.34	
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	13	13	16	-	-	-	-	-	<10	19	
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	547	537	552	-	-	-	-	-	<35	548	-
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	79.1	77.6	78.6	39.3	210.7	146.2	165.4	88.6	0.8	76.4	-
B	Chloride #	TM38/PM0	mg/l	<0.3	41.4	41.8	42.3	15.8	29.2	9.4	43.7	7.2	<0.3	41.7	
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	40.1	41.3	41.2	84.3	58.7	19.4	0.3	136.1	<0.2	41	-
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.03	0.03	0.03	-	-	-	-	-	<0.02	0.03	-
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	282	268	278	-	-	-	-	-	10	268	-
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	282	280	282	116	130	164	284	188	10	276	-
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	144.6	145.3	142.2	64.3	148.1	94.5	156.8	112.1	<0.2	143.2	-
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	6.1	6.2	6	9.5	7.5	9.1	13.2	13	<0.1	6	-
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	4.3	4.4	4.5	27.6	32.6	40.1	3.1	28.1	<0.1	4.4	-
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	24.5	24.9	24.3	8.3	16.9	12.5	42.7	8.6	<0.1	24.3	-
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.08	0.08	0.08	0.04	<0.03	0.03	0.12	0.03	0.04	0.08	-
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.1	0.1	0.1	-	-	-	-	-	0.05	0.1	-
D	Dissolved Methane #	TM25/PM0	ug/l	<1	5	3	2	<1	<1	<1	30	<1	<1	3	-

Key	
A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	**Other**

Conversion to meq/L		EB1/38	EB2/38	EB3/38	GWMBH1R/38	GWMBH2R/38	GWMBH3R/38	GWMBH4/38	GWMBH5/38	B/38	EB2/38D	DP/38
Sulphate	meq/l	1.647	1.616	1.637	0.818	4.387	3.044	3.444	1.845		1.59	
Chloride	meq/l	1.168	1.179	1.193	0.446	0.824	0.265	1.233	0.203		1.18	
Nitrate	meq/l	0.647	0.666	0.664	1.359	0.947	0.313	0.00322538	2.195		0.66	
Total Alk	meq/l	5.635	5.595	5.635	2.318	2.598	3.277	5.675	3.757		5.52	
Calcium	meq/l	7.216	7.250	7.096	3.209	7.390	4.716	7.824	5.594		7.146	
Magnesium	meq/l	0.502	0.510	0.494	0.782	0.617	0.749	1.086	1.070		0.494	
Potassium	meq/l	0.110	0.113	0.115	0.706	0.834	1.026	0.079	0.719		0.113	
Sodium	meq/l	1.066	1.083	1.057	0.361	0.735	0.544	1.857	0.374		1.057	
Ammonium	meq/l	0.006	0.006	0.006	0.002	0.002	0.002	0.009	0.002		0.002	
Sum Anions	meq/l	9.096	9.056	9.129	4.941	8.755	6.899	10.355	7.999		8.943	
Sum Cations	meq/l	8.899	8.962	8.767	5.059	9.578	7.036	10.856	7.758		8.811	
Ion blanace error	%	1.1%	0.5%	2%	-1%	-4%	-1%	-2%	2%		1%	

Element Materials Technology

Report:	**Liquid**
EMT Job No:	
Client:	Envireau Ltd
Client ref:	3490831
Location:	Wressle
Contact	Lewis Miles

	EB1	EB2	EB3	DP
Sample ID	EB1/39	EB2/39	EB3/39	DP/39
Depth				
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water
Sampled Date	22/01/2024	22/01/2024	22/01/2024	22/01/2024
Sample Received Date	23/01/2024	23/01/2024	23/01/2024	23/01/2024
EMT Sample No	1-8	9-16	17-24	25-32
Batch Number	1	1	1	1

Test	Method	Units	LOD				
Dissolved Aluminium #	TM30/PM14	ug/l	<20	<20	<20	<20	<20
Dissolved Antimony #	TM30/PM14	ug/l	<2	<2	<2	<2	<2
Dissolved Arsenic #	TM30/PM14	ug/l	<2.5	<2.5	<2.5	<2.5	<2.5
Dissolved Barium #	TM30/PM14	ug/l	<3	29	30	29	74
Dissolved Beryllium	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Dissolved Boron	TM30/PM14	ug/l	<12	39	39	36	57
Dissolved Cadmium #	TM30/PM14	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Total Dissolved Chromium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	2.7
Dissolved Cobalt #	TM30/PM14	ug/l	<2	<2	<2	<2	<2
Dissolved Copper #	TM30/PM14	ug/l	<7	<7	<7	<7	<7
Total Dissolved Iron #	TM30/PM14	ug/l	<20	21	22	22	<20
Dissolved Lead #	TM30/PM14	ug/l	<5	<5	<5	<5	<5
Dissolved Manganese #	TM30/PM14	ug/l	<2	15	16	17	<2
Dissolved Mercury #	TM30/PM14	ug/l	<1	<1	<1	<1	<1
Dissolved Molybdenum #	TM30/PM14	ug/l	<2	<2	<2	<2	9
Dissolved Nickel #	TM30/PM14	ug/l	<2	<2	<2	<2	<2
Dissolved Selenium #	TM30/PM14	ug/l	<3	<3	<3	<3	<3
Dissolved Titanium	TM30/PM14	ug/l	<5	<5	<5	<5	<5
Dissolved Vanadium #	TM30/PM14	ug/l	<1.5	<1.5	<1.5	<1.5	144.7
Dissolved Zinc #	TM30/PM14	ug/l	<3	3	3	4	6
VOC MS							
Dichlorodifluoromethane	TM15/PM10	ug/l	<1	<2	<2	<2	<2
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1	<0.1
Chloromethane #	TM15/PM10	ug/l	<2	<3	<3	<3	<3
Vinyl Chloride #	TM15/PM10	ug/l	<0.0	<0.1	<0.1	<0.1	<0.1
Bromomethane	TM15/PM10	ug/l	<1	<1	<1	<1	<1
Chloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
Trichlorofluoromethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
1,1-Dichloroethene (1,1 DCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
Dichloromethane (DCM) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
trans-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
1,1-Dichloroethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
cis-1-2-Dichloroethene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
2,2-Dichloropropane	TM15/PM10	ug/l	<1	<1	<1	<1	<1
Bromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
Chloroform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
1,1,1-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
1,1-Dichloropropene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
Carbon tetrachloride #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
1,2-Dichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
1,2-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
Dibromomethane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
Bromodichloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
cis-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5
trans-1-3-Dichloropropene	TM15/PM10	ug/l	<2	<2	<2	<2	<2
1,1,2-Trichloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
Tetrachloroethene (PCE) #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
1,3-Dichloropropane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
Dibromochloromethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
1,2-Dibromoethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
Chlorobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
1,1,1,2-Tetrachloroethane #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1
Styrene	TM15/PM10	ug/l	<2	<2	<2	<2	<2
Bromoform #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
Isopropylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3

1,1,2,2-Tetrachloroethane	TM15/PM10	ug/l	<4	<4	<4	<4	<4
Bromobenzene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
1,2,3-Trichloropropane #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
Propylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
2-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
1,3,5-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
4-Chlorotoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
tert-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
1,2,4-Trimethylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
sec-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
4-Isopropyltoluene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
1,3-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
1,4-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
n-Butylbenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
1,2-Dichlorobenzene #	TM15/PM10	ug/l	<3	<3	<3	<3	<3
1,2-Dibromo-3-chloropropane	TM15/PM10	ug/l	<2	<2	<2	<2	<2
1,2,4-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3
Hexachlorobutadiene	TM15/PM10	ug/l	<3	<3	<3	<3	<3
Naphthalene	TM15/PM10	ug/l	<2	<2	<2	<2	<2
1,2,3-Trichlorobenzene	TM15/PM10	ug/l	<3	<3	<3	<3	<3
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	100	104	104	88
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	95	96	96	97
Methyl Tertiary Butyl Ether #	TM15/PM10	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1
Benzene #	TM15/PM10	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene #	TM15/PM10	ug/l	<5	<5	<5	<5	<5
Ethylbenzene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1
m/p-Xylene #	TM15/PM10	ug/l	<2	<2	<2	<2	<2
o-Xylene #	TM15/PM10	ug/l	<1	<1	<1	<1	<1
Surrogate Recovery Toluene D8	TM15/PM10	%	<0	100	104	104	88
Surrogate Recovery 4-Bromofluorobenzene	TM15/PM10	%	<0	95	96	96	97
SVOC MS							
Phenols							
2-Chlorophenol #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
2-Methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
2-Nitrophenol	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
2,4-Dimethylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
2,4,6-Trichlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
4-Methylphenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Nitrophenol	TM16/PM30	ug/l	<10	<10	<10	<10	<10
Pentachlorophenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Phenol	TM16/PM30	ug/l	<1	<1	<1	<1	<1
PAHs							
2-Chloronaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
2-Methylnaphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Naphthalene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Acenaphthylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Fluorene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(bk)fluoranthene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Benzo(a)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Indeno(123cd)pyrene	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Dibenzo(ah)anthracene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(ghi)perylene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Phthalates							
Bis(2-ethylhexyl) phthalate	TM16/PM30	ug/l	<5	<5	<5	<5	<5
Butylbenzyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Di-n-butyl phthalate #	TM16/PM30	ug/l	<1.5	<1.5	<1.5	<1.5	<1.5
Di-n-Octyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Diethyl phthalate #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Dimethyl phthalate	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Other SVOCs							
1,2-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1

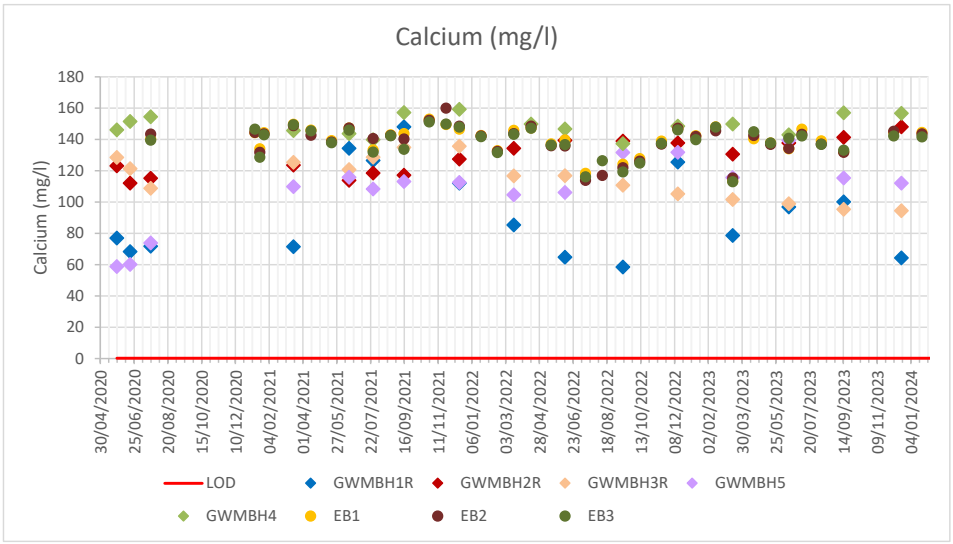
1,3-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
1,4-Dichlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
2-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1
2,4-Dinitrotoluene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
2,6-Dinitrotoluene	TM16/PM30	ug/l	<1	<1	<1	<1	<1
3-Nitroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Bromophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Chloroaniline	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Chlorophenylphenylether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
4-Nitroaniline	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Azobenzene #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethoxy)methane #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Bis(2-chloroethyl)ether #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Carbazole #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenzofuran #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Hexachlorobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Hexachlorobutadiene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Hexachloroethane #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Isophorone #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
N-nitrosodi-n-propylamine #	TM16/PM30	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrobenzene #	TM16/PM30	ug/l	<1	<1	<1	<1	<1
Surrogate Recovery 2-Fluorobiphenyl	TM16/PM30	%	<0	97	99	96	102
Surrogate Recovery p-Terphenyl-d14	TM16/PM30	%	<0	98	101	96	105
TPH CWG							
Aliphatics							
>C5-C6 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10
>C6-C8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10
>C8-C10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10
>C10-C12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5
>C12-C16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10
>C16-C21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10
>C21-C35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10
>C35-C44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10
Total aliphatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10
Aromatics							
>C5-EC7 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10
>EC7-EC8 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10
>EC8-EC10 #	TM36/PM12	ug/l	<10	<10	<10	<10	<10
>EC10-EC12 #	TM5/PM16/PM30	ug/l	<5	<5	<5	<5	<5
>EC12-EC16 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10
>EC16-EC21 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10
>EC21-EC35 #	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10
>EC35-EC44	TM5/PM16/PM30	ug/l	<10	<10	<10	<10	<10
Total aromatics C5-44	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10
Total aliphatics and aromatics(C5-44)	TM5/TM36/PM12/PM16/PM30	ug/l	<10	<10	<10	<10	<10
Alcohols/Acetates							
Methyl Alcohol (Methanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500
Ethyl Alcohol (Ethanol)	TM83/PM10	ug/l	<500	<500	<500	<500	<500
i-Propyl Alcohol (Isopropanol)	TM83/PM10	ug/l	<100	<100	<100	<100	<100
n-Propyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100
n-Butyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100
n-Pentyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100
n-Hexyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100
n-Heptyl Alcohol	TM83/PM10	ug/l	<100	<100	<100	<100	<100
Methyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100
Ethyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100
i-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100
n-Propyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100
n-Butyl Acetate	TM83/PM10	ug/l	<100	<100	<100	<100	<100
	Salinity	TM64W/PM0	%	<0.1	<0.1	<0.1	<0.1	<0.1
A	Electrical Conductivity @25C #	TM76/PM0	uS/cm	<2	905	902	930	1424
A	pH #	TM73/PM0	pH units	<0.01	8.23	8.25	8.14	8.08
A	Total Suspended Solids #	TM37/PM0	mg/l	<10	10	<10	<10	<10
A	Total Dissolved Solids #	TM20/PM0	mg/l	<35	601	596	596	870
B	Sulphate as SO4 #	TM38/PM0	mg/l	<0.5	94	91.6	91.3	119
B	Chloride #	TM38/PM0	mg/l	<0.3	50.1	50.8	51.8	280.9
B	Nitrate as NO3 #	TM38/PM0	mg/l	<0.2	41.6	42.5	41.9	16.6
B	Nitrite as NO2 #	TM38/PM0	mg/l	<0.02	0.02	0.03	0.03	0.19
B	Bicarbonate Alkalinity as CaCO3 (water soluble)	TM75/PM0	mg/l	<1	242	248	238	90

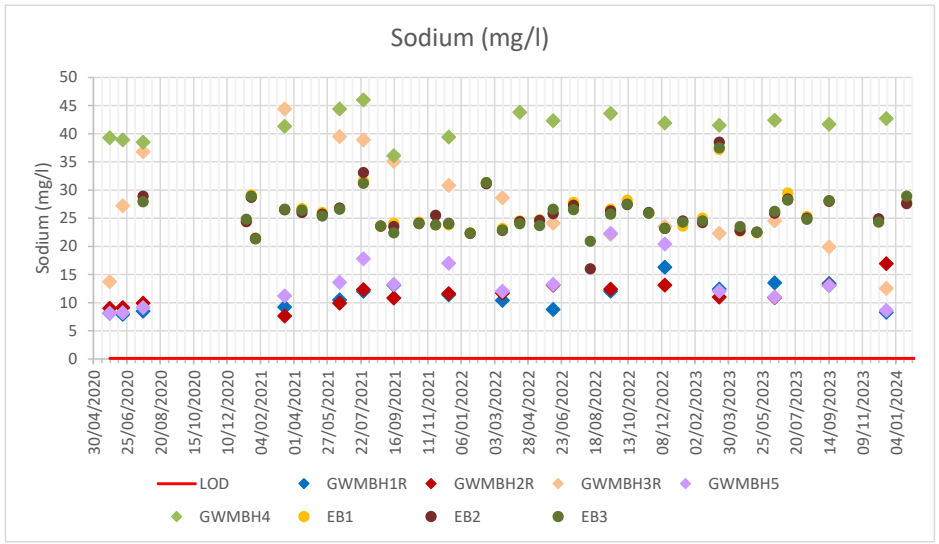
B	Total Alkalinity as CaCO3 #	TM75/PM0	mg/l	<1	242	248	238	90
C	Dissolved Calcium #	TM30/PM14	mg/l	<0.2	144.5	143.6	141.7	96.4
C	Dissolved Magnesium #	TM30/PM14	mg/l	<0.1	5.9	6.0	5.9	5.7
C	Dissolved Potassium #	TM30/PM14	mg/l	<0.1	3.4	3.6	3.7	47.8
C	Dissolved Sodium #	TM30/PM14	mg/l	<0.1	28.0	27.6	28.9	131.5
C	Ammoniacal Nitrogen as N #	TM38/PM0	mg/l	<0.03	0.07	0.06	0.07	0.11
C	Ammoniacal Nitrogen as NH4 #	TM38/PM0	mg/l	<0.03	0.09	0.08	0.09	0.14
D	Dissolved Methane #	TM25/PM0	ug/l	<1	2	<1	<1	<1

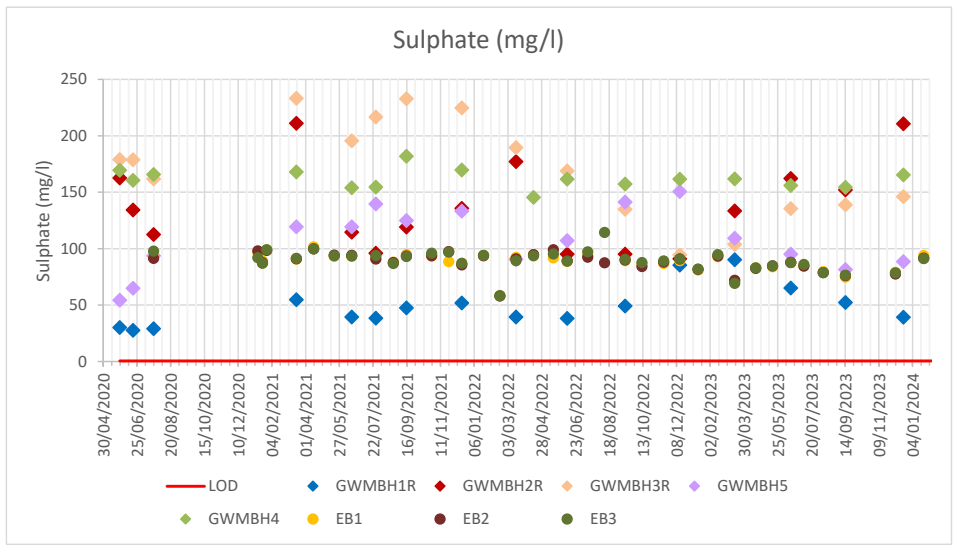
Key	
A	Key physio-chemical parameter
B	Major Anion
C	Major cation
D	Key dissolved gas
#	**Other**

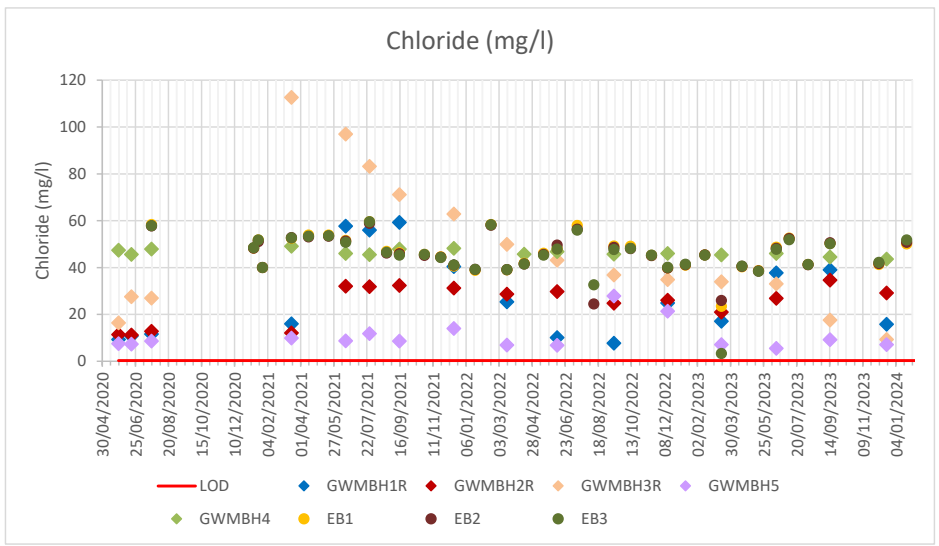
Conversion to meq/L		EB1/39	EB2/39	EB3/39	DP/39
Sulphate	meq/l	1.957	1.907	1.901	2.478
Chloride	meq/l	1.413	1.433	1.461	7.923
Nitrate	meq/l	0.671	0.685	0.676	0.268
Total Alk	meq/l	4.836	4.956	4.756	1.798
Calcium	meq/l	7.211	7.166	7.071	4.810
Magnesium	meq/l	0.485	0.494	0.485	0.469
Potassium	meq/l	0.087	0.092	0.095	1.223
Sodium	meq/l	1.218	1.201	1.257	5.720
Ammonium	meq/l	0.070	0.060	0.070	0.110
Sum Anions	meq/l	8.877	8.981	8.794	12.467
Sum Cations	meq/l	9.071	9.012	8.978	12.332
Ion blanace error	%	-1%	0%	-1%	1%

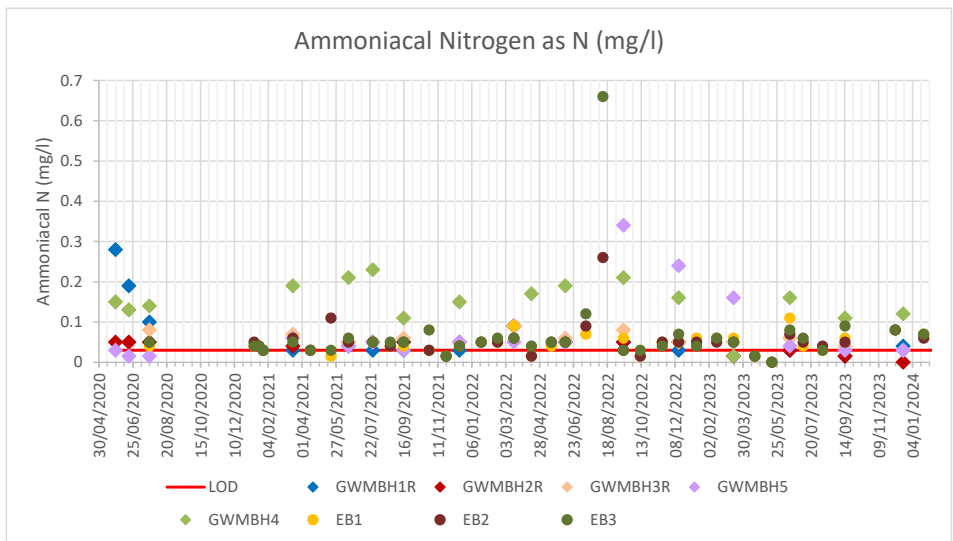
	27/05/2020	18/06/2020	22/07/2020	11/01/2021	19/01/2021	26/01/2021	16/03/2021	14/04/2021	18/05/2021	16/06/2021	26/07/2021	24/08/2021	15/09/2021	27/10/2021	24/11/2021	16/12/2021	21/01/2022	17/02/2022	16/03/2022	14/04/2022	17/05/2022	09/06/2022	13/07/2022	10/08/2022	13/09/2022	11/10/2022	16/11/2022	13/12/2022	12/01/2023	14/02/2023	14/03/2023	18/04/2023	16/05/2023	15/06/2023	07/07/2023	08/08/2023	14/09/2023	06/12/2023	19/12/2023	22/01/2024											########
Ca (mg/l)																																																			
GWMBH1R	77	68.4	71.8				71.5			134.4	126.6		148.1			112.1			85.4			64.8			58.5			125.5			78.6			96.9			100.1		64.3												
GWMBH2R	123.1	112.1	115.2				123.6			113.9	118.5		117.1			127.4			134.4			139.4			139			137.8			130.6			137.8			141.3		148.1												
GWMBH3R	128.5	121.4	108.8				125.4			120.7	128.7		135			135.7			116.7			116.8			110.8			105.2			101.7			99			95.4		94.5												
GWMBH5	58.8	60.2	73.9				109.8			115.8	108.4		113.1			112.6			104.6			106.1			131.7			131.8			115.7			139.4			115.4		112.1												
GWMBH4	146.2	151.5	154.5				145.7			143.7	139.9		157.2			159.3				149.8		146.7			137.3			148.5			149.8			143			157		156.8												
EB1			140.3	144.3	134.1	144.3	149.7	146	139.3	147.4	133.3	143	143.8	153	149.5	146.6	142.6	132.8	145.9	147.3	137.2	139.7	118.3		124.2	127.7	138.9	146.9	142.4	148.1	113.5	140.4	137.7	134.1	146.6	139.1	132.1	144.6		144.5											
EB2			143.5	144.5	131.8	143.6	148.8	142.7	138.3	147.3	140.6	142.6	140.3	152.3	160	148.5	142.3	132.4	143.7	148.5	136	135.8	113.9	117	122	126.2	137	147.2	142	145.6	115.4	142.6	136.9	134.3	143.3	137	131.8	145.3		143.6											
EB3			139.6	146.6	128.7	143	149.4	145.5	137.9	146	132	142.4	133.7	151.2	149.8	148	141.8	131.6	143.3	147.2	136.4	136.7	116.1	126.5	119.2	124.9	137.5	146.2	139.8	147.9	113	144.9	137.8	140.8	142.3	136.9	133.1	142.2		141.7											
LOD	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
PF											68.9																																								
Na (mg/l)																																																			
GWMBH1R	8.1	7.9	8.5				9.2			10.5	12		13.1			11.4			10.4			8.8			12			16.3			12.4			13.5			13.4		8.3												
GWMBH2R	9	9.1	9.9				7.6			9.9	12.3		10.8			11.6			11.7			13.1			12.4			13.1			11			10.9			13.1		16.9												
GWMBH3R	13.7	27.2	36.8				44.4			39.5	38.9		35.1			30.8			28.6			24.1			22.1			23.5			22.3			24.5			19.9		12.5												
GWMBH5	8.1	8.2	9.1				11.2			13.6	17.8		13.2			17			12			13.2			22.3			20.4			12			11			13		8.6												
GWMBH4	39.3	38.9	38.5				41.3			44.4	46		36.1			39.4				43.8		42.3			43.6			41.9			41.5			42.4			41.7		42.7												
EB1			28.1	24.4	29.1	21.5	26.5	26.7	26	26.7	31.6	23.5	24.1	24.3	23.8	23.8	22.4	31.3	23.2	24.5	24.7	26	27.8		26.6	28.2	25.9	23.2	23.6	25	37.2	22.7	22.4	26.1	29.5	25.3	28	24.5		28											
EB2			28.9	24.4	28.7	21.4	26.5	26	25.7	26.8	33.1	23.6	23.5	24.1	25.5	24	22.3	31.1	22.8	24.4	24.6	25.8	27.3	16	26.3	27.4	26	23.2	24.5	24.2	38.5	22.8	22.5	25.9	28.4	25	28	24.9		27.6											
EB3			27.9	24.8	28.9	21.3	26.6	26.4	25.4	26.6	31.2	23.6	22.4	24	23.8	24.1	22.3	31.3	22.9	24	23.7	26.6	26.5	20.9	25.7	27.5	25.9	23.2	24.3	24.5	37.5	23.5	22.5	26.2	28.2	24.8	28.1	24.3		28.9											
LOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
PF											136.8																																								
SO_4 (mg/l)																																																			
GWMBH1R	30.1	27.7	29.2				54.8			39.5	38.4		47.6			51.9			39.5			38.3			49.2			85.5			90.3			65.2			52.3		39.3												
GWMBH2R	162.7	134.3	112.6				211.1			114.7	96.1		119.3			135.8			177.2			95.2			95.3			91.1			133.5			162.3			152.1		210.7												
GWMBH3R	179	178.9	161.8				233.4			195.6	216.8		232.9			224.9			189.7			169			135			94.4			103.8			135.5			138.9		146.2												
GWMBH5	54.5	65	93.7				119.5			119.4	139.8		125.1			133.4			90.7			107.3			141.4			150.7			109.2			95.3			81.6		88.6												
GWMBH4	169.5	160.7	165.9				168.1			154.1	154.6		181.9			169.8				145.5		161.6			157.4			161.6			161.9			156			154.5		165.4												
EB1			92.4	96.7	89.1	99	90.8	101.6	93.4	93.3	91.8	88.2	94.8	93.5	88.6	87	94	58.4	92.3	94.5	91.8	88.8	93.9		89.4	86.4	86.9	89.5	81.1	93	71.8	83.1	84	87.8	84.7	79.7	74.9	79.1		94											
EB2			91.4	98.1	87.8	98.6	91.1	100	94.3	94.1	90.8	87.7	93.6	93.8	97.4	85.7	93.8	58.1	91	94.8	99.2	89.4	92.5	87.6	90	84.2	88.1	90.8	81.8	93.6	72	82.6	84.8	87.9	84.6	78.9	76.2	77.6		91.6											
EB3			97.8	92	87.2	99.2	91.4	99.7	93.8	93.5	93.9	86.9	93.2	96.1	97.1	87.1	94.2	58.3	89.5	93.7	95.5	89	97.3	114.5	90.7	87.8	89.1	91	82	94.7	69.4	83	84.9	87.7	86	78.8	76.6	78.6		91.3											
LOD	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
PF											77.7																																								
Cl (mg/l)																																																			
GWMBH1R	9.4	10.8	11.6				16			57.7	56		59.3			40.5			25.4			10.1			7.8			24.9			17.1			37.8			39.1		15.8												
GWMBH2R	11.4	11.2	12.8				12.1			32.1	31.9		32.4			31.3			28.7			29.8			24.8			26.1			21			26.9			34.7		29.2												
GWMBH3R	16.4	27.6	27				112.7			97	83.3		71.2			62.9			49.9			43.2			36.9			34.9			34			33.1			17.6		9.4												
GWMBH5	7.6	7.4	8.7				9.9			8.8	11.8		8.7			14			7			6.9			27.9			21.4			7.2			5.6			9.3		7.2												
GWMBH4	47.4	45.7	47.9				49.1			46.1	45.6		47.9			48.2				45.8		46.8			45.8			46.1			45.5			46.1			44.6		43.7												
EB1			58.4	48.3	51.8	40.1	52.5	53.9	53.9	51.6	59.6	46.9	46.4	45.7	44.7	40.7	38.9	58.4	39.1	41.9	46.2	48.1	58		49.2	49.1	45.3	39.9	41.1	45.5	23.5	40.4	38.8	48.7	52.6	41.4	50.3	41.4		50.1											
EB2			57.8	48.3	51.1	40.1	52.8	53.1	53.4	51.3	58.9	46.3	46	45.3	44.5	41.1	39.3	58.1	39.2	41.6	45.7	49.6	56.4	24.5	48.6	48.1	45.2	39.9	41.3	45.5	26	40.6	38.6	48.2	52.4	41.3	50.6	41.8		50.8											
EB3			57.9	48.5	51.8	40.1	52.7	53.4	53.6	50.8	59.6	46.6	45.4	45.7	44.4	41.2	39.3	58.3	39.2	41.6	45.4	47.9	56	32.7	47.7	48.2	45.4	40.2	41.5	45.4	3.4	40.7	38.5	47.8	51.9	41.4	50.2	42.3		51.8											
LOD	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
PF											329.6																																								
Amm-N (mg/l)																																																			
GWMBH1R	0.28	0.19	0.1				0.03			0.04	0.03		0.03			0.03			0.09			0.05			0.05			0.03			0.015			0.03			0.015		0.04												
GWMBH2R	0.05	0.05	0.05				0.04			0.05	0.05		0.05			0.05			0.09			0.05			0.05			0.05			0.015			0.03			0.015		<0.03												
GWMBH3R	0.15	0.13	0.08				0.07			0.05	0.05		0.06			0.05			0.09			0.06			0.08			0.05			0.05			0.06			0.04		0.03												
GWMBH5	0.03	0.015	0.015				0.06			0.04	0.05		0.03			0.05			0.05			0.05			0.34			0.24			0.16			0.04			0.03		0.03												
GWMBH4	0.15	0.13	0.14				0.19			0.21	0.23		0.11			0.15				0.17		0.19			0.21			0.16			0.015			0.16			0.11		0.12												
EB1			0.04	0.04	0.04	0.03	0.06	0.03	0.015	0.05	0.05	0.04	0.04	0.03	0.015	0.04	0.05	0.05	0.09	0.015	0.04	0.05	0.07		0.06	0.015	0.05	0.05	0.06	0.06	0.06	0.015	<0.03	0.11	0.04	0.03	0.06	0.08		0.07											
EB2			0.05	0.05	0.04	0.03	0.06	0.03	0.11	0.05	0.05	0.04	0.05	0.03	0.015	0.04	0.05	0.05	0.06	0.015	0.05	0.05	0.09	0.26	0.03	0.015	0.05	0.05	0.05	0.05	0.05	0.015	<0.03	0.07	0.05	0.04	0.05	0.08		0.06											
EB3			0.05	0.04	0.04	0.03	0.05	0.03	0.03	0.06	0.05	0.05	0.05	0.08	0.015	0.04	0.05	0.06	0.06	0.04	0.05	0.05	0.12	0.66	0.03	0.03	0.04	0.07	0.04	0.06	0.05	0.015	<0.03	0.08	0.06	0.03	0.09	0.08		0.07											
LOD	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
PF											2.29																																								
NO_3 (mg/l)																																																			
GWMBH1R	143.2	142.7	154.4				113.8			335.1	335.6		310.7			209.8			139.2			78			63.7			2			61.6			202.2			193.8		84.3												
GWMBH2R	32.5	37.6	40.8				32.6			44.9	49.4		46.1			49.2			53.1			74.7			81.9			70.9			57.8			74			72.4		58.7												
GWMBH3R	0.4	1	3.4				5.2			9.5	9.3		8.9			5.2			9.3			9.2			3.6			9.6			17.4			18.3			6.2		19.4												
GWMBH5	75.9	76.8	68.7				176.8			203.1	136.9		175.2			109.4			166			118.9			1.9			45.4			201			275.5			172.4		136.1												
GWMBH4	2.2	0.9	1.1				0.7			0.5	0.1		0.8			0.7				0.2		0.1			0.1			0.1			0.8			0.2			0.1		0.3												
EB1			28.5	46.2	44.2	47.6	38.5	38.3	30.4	30.6	22.6	36.6	27.2	37.6	37.1	43.6	42.1	32.6	39.2	36.3	25.9	26	18.2		16.3	14.7	30.3	43.8	42.9	39.3	23.5	39.9	37.8	31.4	28.1	37.2	28.7	40.1		41.6											
EB2			29.8	46.5	42.9	48.2	38.8	38.9	30.7	30.8	23.5	36.7	27.1	38.5	37.5	43.3	42.4	33.3	39.9	35.9	25.8	26.1	18.4	39.9	15.5	14.8	30.2	44	42.5	40.5	26	39.3	38.2	33	29.3	37.5	29.5	41.3		42.5											
EB3			29.5	47.3	42.6	48	41.8	39.2	30.5	30.7	23.4	36.8	26.1	38.2	37.4	43.7	42.4	33	40	36.5	28.2	26.1	17.2	18.6	14.4	14.6	29.9	43.8	42.3	40.4	3.4	39.2	38.1	33.1	29.2	36.8	29.9	41.2		41.9											
LOD	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
PF											0.3																																								
Fe (tdiss) (ug/l)																																																			
GWMBH1R	1460	157	63				42			33	32		23			35			<5			61			50			27			35			30			28		38												
GWMBH2R	272	426	516				95			416	561		541			325			<5			637			1297			666			59			45			33		10												
GWMBH3R	2189	1795	921				67			173	373		223			221			<5			467			233			142			258			178			120		10												
GWMBH5	10	10	10				22			10	10		10			10			<5			23			10			30			20			26			10		26												
GWMBH4	3726	3879	1239				6284			1594	2806		520			1752				5072		3162			7203			2120			1911			4992			1830		2231												
EB1			10	10	10	10	10	25	25	10	10	10	10	10	21	10	10	10	575	10	10	10	10		10	10	10	20	10	10	10	10	10	10	10	10	10	26		21											
EB2			10	10	10	10	21	10	21	10	10	10	10	10	20	10	10	21	10	10	10	10	10	53	10	10	10	10	10	10	10	10	10	10	10	10	10	10		22											
EB3			10	10	10	10	20	21	27	10	10	10	10	10	10	21	10	10	10	10	10	10	10	45	10	10	10	10	10	10	10	10	10	10	10	10	10	21		22											
LOD	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
PF											842																																								
CH_4 (ug/l)																																																			
GWMBH1R	0.5	0.5	0.5								0.5																	0.5			0.5			0.5			0.5		0.5												
GWMBH2R	0.5	0.5	0.5								0.5																	0.5			0.5			0.5			0.5		0.5												
GWMBH3R	21	6	1								0.5																	3			11			2			3		0.5												
GWMBH5	0.5	0.5	0.5								0.5																	3			22			0.5			0.5		0.5												
GWMBH4	58	32	20								32																	29			0.5			26			11		30												
EB1			1	0.5	0.5	0.5	2	6	2	7	0.5	0.5	0.5	0.5	5	0.5	0.5	0.5	2	0.5	0.5	0.5	6		0.5	0.5	3	3	5	2	3	2	2	0.5	0.5	2	2	5		2											
EB2			2	0.5	0.5	0.5	1	0.5	3	7	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	0.5	0.5	0.5	2	1	1	0.5	0.5	1	0.5	1	1	3		0.5											
EB3			6	0.5	0.5	0.5	1	5	4	9	8	6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2	7	0.5	0.5	0.5	5	1	1	1	0.5	0.5	1	1	1	2	2		0.5											
LOD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PF											68.9																																								
Total alkalinity (mg/l)																																																			
GWMBH1R	138	118	121				120			106	125		132			148			156			140			146			352			160			134			124		116												
GWMBH2R	216	204	232				150			170	226		206			220			176			220			290			298			244			188			194		130												
GWMBH3R	292	236	252				122			134	174		176			220			202			212			292			274			234			208			204		164												
GWMBH5	94	88	89				100			94	128		118			168			134			138			286			308			136			128			152		188												
GWMBH4	290	300	298				252			280	291		282			316				310		340			298			244			296			300			298		284												
EB1			258	275	237	260	254	269	245	269	260	254	258	287	298	290	276	268	292	258	229	254	250		244	254	298	280	288	272	230	257	266	264	260	272	260	282		242											
EB2			255	276	238	262	261	266	239	257	259	271	260	281	284	286	298	254	282	244	231	257	247	270	248	252	292	282	268	276	226	257	274	264	272	280	252	280		248											
EB3			266	270	238	266	253	261	246	246	261	265	254	286	286	292	306	252	292	260	258	241	244	294	228	244	302	272	258	276	222	251	274	260	252	276	274	282		238											
LOD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PF											357																																								
EC lab (uS/cm)																																																			
GWMBH1R	636	318	567				602			1085	1048		1106			838			632			550			530			852			641			937			870		519												
GWMBH2R	822	674	774				796			809	778		800			794			755			871			897			859			871			899			962		938												
GWMBH3R	885	485	893				1088			1016	1008		1053			1049			859			919			890			855			799			784			764		692												
GWMBH5	457	382	513				858			869	775		839			781			733			759			861			833			881			998			848		777												
GWMBH4	967	757	992				982			990	933		1037			958				952		987			956			908			997			960			972		979												
EB1			896	856	805	818	804	875	835	835	854	834	797	896	852	831	840	858	812	806	798	820	811		764	758	829	824	817	874	776	793	820	829	877	834	837	839		905											
EB2			893	824	786	827	882	883	786	843	864	807	774	894	858	829	840	869	803	806	777	825	780	819	753	760	823	881	825	864	790	794	818	837	864	816	833	838		902											
EB3			849	815	791	816	882	889	792	861	828	795	776	892	831	798	841	884	804	807	800	818	804	869	741	761	827	994	821	870	770	794	819	836	871	811	832	842		930											
LOD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PF											1824																																								
Manganese (ug/l)																																																			
GWMBH1R	122	53	40				7			5	6		1			4			1			3			1			4			1			2			1		1												
GWMBH2R	262	265	333				180			291	314		237			276			1			327			501			513			360			210			301		116												
GWMBH3R	373	358	349				222			386	618		565			545			1			631			438			358			539			354			366		46												
GWMBH5	1	1	1				3			1	1		1			8			1			0.5			419			328			1			3			1		1												
GWMBH4	62	68	22				128			55	53		11			39				98		59			120			42			40			88			47		59												
EB1			1	7	10	8	10	7	8	3	3	4	1	2	8	7	5	8	12	4	6	4	8		1	3	5	9	9	7	10	8	5	4	2	3	1	21		15											
EB2			1	6	10	7	11	7	8	3	8	6	3	3	9	7	7	8	6	3	7	5	16	56	1	2	5	8	9	9	10	7	5	7	8	3	1	12		16											
EB3			1	7	10	8	11	7	19	5	11	7	4	4	9	10	6	8	7	3	8	5	19	87	1	3	5	9	8	9	9	7	5	9	9	3	1	13		17											
LOD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PF											9																																								
Arsenic (ug/l)																																																			
GWMBH1R	3.9	1.25	1.25				11.2			5.6	7.8		3.4			11.4			14.1			18.3			22.1			11			16			17.8			16.8		12.5												
GWMBH2R	5.2	1.25	1.25				8.5			1.25	1.25		1.25			7.7			6.5			1.25			1.25			1.25			1.25			7.4			6.8		6.7												
GWMBH3R	6.4	1.25	1.25				1.25			1.25	1.25		1.25			1.25			1.25			1.25			2.8			1.25			1.25			1.25			1.25		1.25												
GWMBH5	52.5	53.2	52.8				38.4			38.9	40.5		39.7			34.4			32.1			35			15.9			14.4			26.1			32.4			40.7		22.7												
GWMBH4	1.25	1.25	1.25				1.25			1.25	1.25		1.25			3.3				1.25		1.25			1.25			1.25			1.25			1.25			1.25		1.25												
EB1			1.25	4.7	1.25	3.9	1.25	1.25	1.25	1.25	1.25	1.25	2.9	1.25	4.7	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25		1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	3.7	1.25	3	1.25		1.25											
EB2			1.25	1.25	1.25	2.7	3.5	1.25	1.25	1.25	1.25	1.25	1.25	1.25	2.8	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	9.6	1.25	2.6	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	2.8	1.25	3.5	1.25		1.25											
EB3			1.25	4.4	1.25	3.1	2.7	1.25	1.25	1.25	1.25	1.25	1.25	1.25	4.5	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	4.9	1.25	3.1	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	3.4	1.25		1.25											
LOD	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
PF											1.25																																								
Zinc (ug/l)																																																			
GWMBH1R	4	5	3				7			10	12		8			9			8			10			16			6			9			11			10		7												
GWMBH2R	17	21	6				12			18	16		15			18			13			19			9			18			21			16			19		13												
GWMBH3R	5	4	1.5				6			5	4		4			4			6			5			1.5			4			5			4			5		9												
GWMBH5	43	46	40				104			95	78		89			75			94			89			55			49			94			133			95		77												
GWMBH4	4	4	0.5				1.5			3	1.5		6			1.5				1.5		1.5			1.5			1.5			1.5			5			1.5		1.5												
EB1			1.5	3	4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		1.5	1.5	1.5	1.5	4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4		3											
EB2			1.5	3	3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		3											
EB3			1.5	3	3	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		4											
LOD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PF											45																																								
Vanadium (ug/l)																																																			
GWMBH1R	5.8	9.6	7.2								15.6								20.2																																
GWMBH2R	2.7	3.5	0.75								1.8								4																																
GWMBH3R	0.75	0.75	0.75								1.7								0.75																																
GWMBH5	31.2	38.2	36.4								33.1								23.1																																
GWMBH4	0.75	0.75	0.75								0.75																																								
EB1			0.75	2.5	2.4	3	0.75	0.75	0.75	0.75	0.75	0.75	1.7	2	2.1	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75		0.75	0.75	0.75	0.75	0.75	0.75	1.9	0.75	0.75	2.6	0.75	0.75	0.75	0.75		0.75											
EB2			0.75	0.75	3	0.75	0.75	0.75	0.75	1.6	2.4	0.75	0.75	0.75	2.6	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	4.3	0.75	0.75	1.7	0.75	0.75	0.75	0.75	1.7	1.7	1.7	0.75	0.75	0.75	0.75		0.75											
EB3			0.75	0.75	2.7	0.75	0.75	0.75	0.75	0.75	0.75	1.5	1.9	0.75	2	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	3	0.75	2.2	0.75	0.75	0.75	0.75	2.7	1.5	1.5	0.75	0.75	0.75	0.75	0.75		0.75											
LOD	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
PF											3.8																																								
Nickel (ug/l)																																																			
GWMBH1R	29	29	31				24			21	24		21			23			22			30			41			25			25			23			23		19												
GWMBH2R	39	40	38				28			35	35		35			34			26			39			26			40			38			31			37		21												
GWMBH3R	13	16	17				18			22	12		16			16			19			15			11			15			17			17			16		7												
GWMBH5	45	47	46				78			74	60		74			64			83			79			60			45			84			94			85		59												
GWMBH4	1	2	1				3			1	1		1			1				1		2			1			1			1			1			1		1												
EB1			1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	4	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1		1											
EB2			1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1											
EB3			1	1	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	2	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1											
LOD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PF											2																																								
Potassium (mg/l)																																																			
GWMBH1R	37.5	36.9	37				31.6			49.6	48.5		58.4			43			35.7			33			33.4			36			35.7			41.5			45.3		27.6												
GWMBH2R	41.6	39.4	36.8				35.3			34.6	36.2		36.6			32.8			31.7			35.7			35.3			34.3			30.6			31.8			35.7		32.6												
GWMBH3R	51.7	52	48.1				45.1			47.9	49.8		57.1			51.9			53.5			54.8			51.3			47.4			47.2			51.2			57.9		40.1												
GWMBH5	22.3	22.2	22.4				29.6			32.9	33.3		34.7			32.1			31.1			32.9			28.5			28			31.9			34.4			34.2		28.1												
GWMBH4	2.9	3	2.9				2.8			2.9	2.7		3.3			3.2				3.6		2.8			2.8			2.9			2.9			3			3.2		3.1												
EB1			7.2	4.1	3.5	3.5	3.8	4.1	4.5	4.9	6.3	5.3	5.8	5.9	6	4.4	4	4.3	4	4.2	4.5	5.2	8.6		6.5	7.1	6.2	5	4.9	5.8	4.6	4.4	3.9	6.1	7.4	5.7	7.4	4.3		3.4											
EB2			8	4.3	3.4	3.7	4.1	4.4	4.6	5.3	7.5	5.5	6.1	6	6.7	4.6	4.2	4.4	4.1	4.5	4.9	5.4	34.7	9.7	6.8	7.3	6.3	5.2	5	6.1	4.9	4.5	4	6.7	8.4	5.6	7.8	4.4		3.6											
EB3			8	4.3	3.5	3.7	4.2	4.6	4.7	5.4	7.4	5.7	6.2	6.2	6.4	4.7	4.3	4.6	4.2	4.6	5	5.7	35.2	9.9	6.8	7.9	6.6	5.3	5.2	6.3	5.2	4.5	4.1	7.1	8.6	5.6	8	4.5		3.7											
LOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
PF											13.5																																								

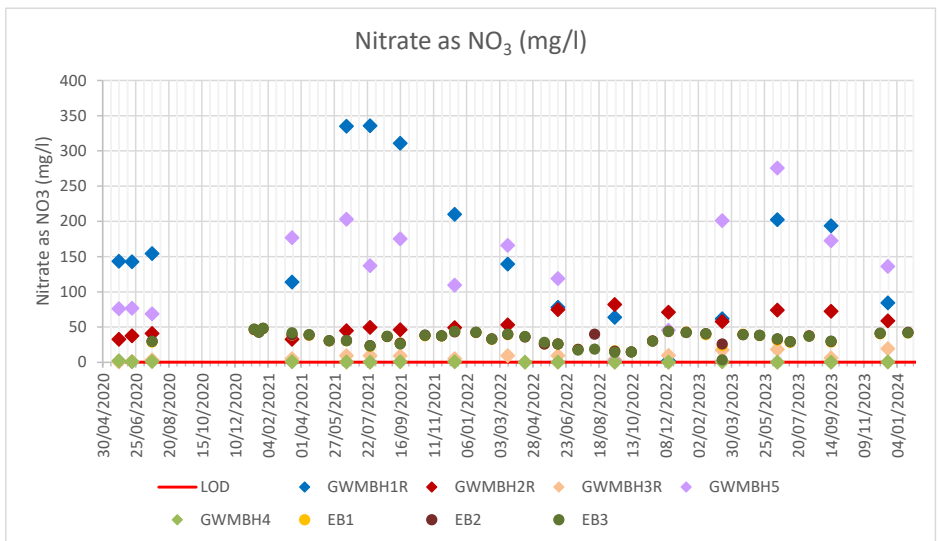

Calcium (mg/l)
Calcium (mg/l)
LOD
GWMBH1R
GWMBH2R
GWMBH3R
GWMBH5
GWMBH4
EB1
EB2
EB3

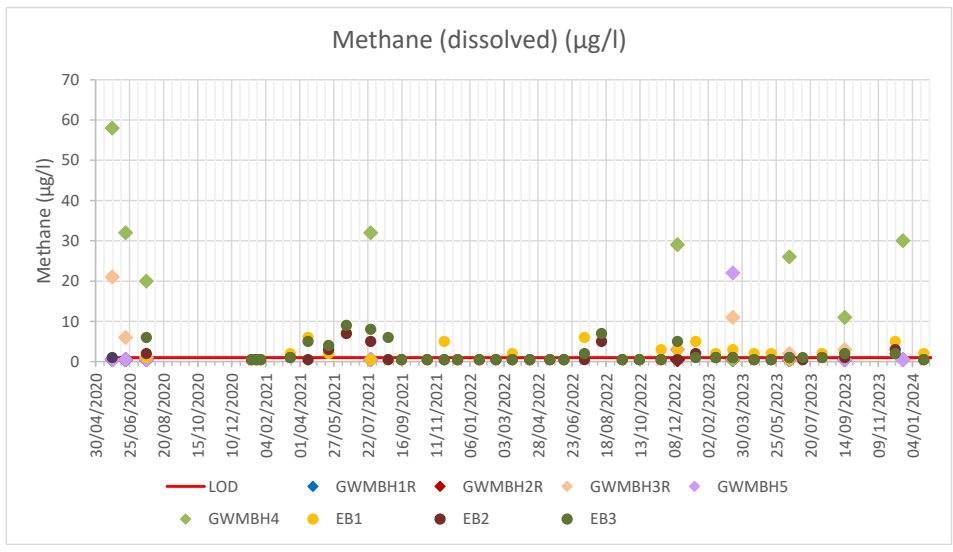

Sodium (mg/l)
Sodium (mg/l)
LOD
GWMBH1R
GWMBH2R
GWMBH3R
GWMBH5
GWMBH4
EB1
EB2
EB3

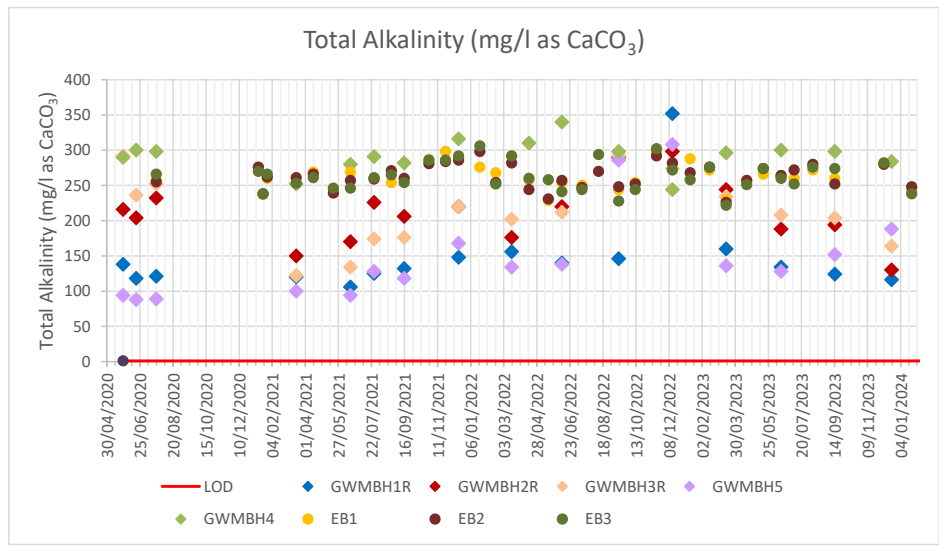

Sulphate (mg/l)
Sulphate (mg/l)
LOD
GWMBH1R
GWMBH2R
GWMBH3R
GWMBH5
GWMBH4
EB1
EB2
EB3

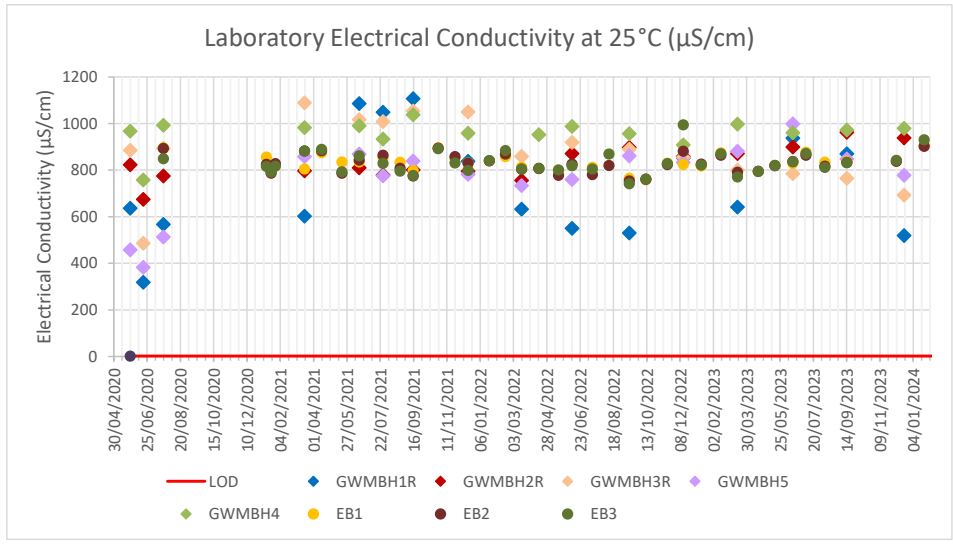

Chloride (mg/l)
Chloride (mg/l)
LOD
GWMBH1R
GWMBH2R
GWMBH3R
GWMBH5
GWMBH4
EB1
EB2
EB3

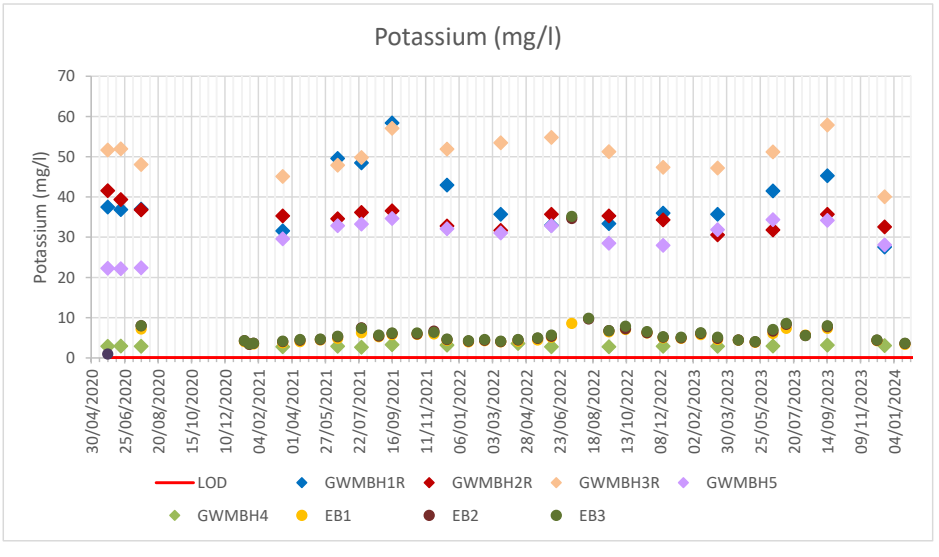

Ammoniacal Nitrogen as N (mg/l)
Ammoniacal N (mg/l)
LOD
GWMBH1R
GWMBH2R
GWMBH3R
GWMBH5
GWMBH4
EB1
EB2
EB3


Nitrate as NO3 (mg/l)
Nitrate as NO3 (mg/l)
LOD
GWMBH1R
GWMBH2R
GWMBH3R
GWMBH5
GWMBH4
EB1
EB2
EB3


Methane (dissolved) (µg/l)
Methane (µg/l)
LOD
GWMBH1R
GWMBH2R
GWMBH3R
GWMBH5
GWMBH4
EB1
EB2
EB3


Total Alkalinity (mg/l as CaCO3)
Total Alkalinity (mg/l as CaCO3)
LOD
GWMBH1R
GWMBH2R
GWMBH3R
GWMBH5
GWMBH4
EB1
EB2
EB3


Laboratory Electrical Conductivity at 25°C (µS/cm)
Electrical Conductivity (µS/cm)
LOD
GWMBH1R
GWMBH2R
GWMBH3R
GWMBH5
GWMBH4
EB1
EB2
EB3


Potassium (mg/l)
Potassium (mg/l)
LOD
GWMBH1R
GWMBH2R
GWMBH3R
GWMBH5
GWMBH4
EB1
EB2
EB3

	Molar mass	Assumed charge	Equiv mass
Ca	40.08	2	20.04
Mg	24.305	2	12.15
Li	6.941	1	6.94
B	10.81		
C	12.011		
H	1.008		
N	14.01	1	14.01
O	15.999		
F	18.998	1	19.00
Na	22.99	1	22.99
P	30.97		
S	32.06		
Cl	35.453	1	35.45
K	39.1	1	39.10
Mn	54.94	2	27.47
Fe	55.85	2	27.93
CaCO3	100.09	2	50.04
CO3	60.01	2	30.00
HCO3	61.02	1	61.02
NO3	62.01	1	62.01
PO4	94.97	3	31.66
BO2	42.81	1	42.81
Si	28.09		
SiO2	60.09		
SO4	96.06	2	48.03
NH4	18.04	1	18.04
Sr	87.62	2	43.81
Br	79.9	1	79.90
H2O	18.02		
MgSO4	120.36		
MgSO4.7H2O	246.47		
Ca(NO3)2	164.10		
Ca(NO3)2.4H2	236.16		
NaHCO3	84.01		
KOH	56.11		
CaCl2	110.986		
KF	58.1		
KCl	74.6		
NaCl	58.443		
Ba	137.327	2	68.66

Methane	16.04
Ethane	30.07