



# Final Report

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**Report No.:** 22-08246-1  
**Initial Date of Issue:** 09-Mar-2022  
**Client** Mayer Environmental Ltd  
**Client Address:** Transport Avenue  
Brentford  
TW8 9HA  
**Contact(s):**  
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**Project** 129-001728 EMR Northampton  
Discharge March 2022

<b>Quotation No.:</b>		<b>Date Received:</b>	04-Mar-2022
<b>Order No.:</b>	129003057	<b>Date Instructed:</b>	04-Mar-2022
<b>No. of Samples:</b>	2		
<b>Turnaround (Wkdays):</b>	5	<b>Results Due:</b>	10-Mar-2022
<b>Date Approved:</b>	09-Mar-2022		

**Approved By:**

**Details:** Stuart Henderson, Technical  
Manager

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## Results - Water

**Project: 129-001728 EMR Northampton Discharge March 2022**

<b>Client: Mayer Environmental Ltd</b>	<b>Chemtest Job No.:</b>		22-08246	22-08246		
Quotation No.:	<b>Chemtest Sample ID.:</b>		1384766	1384767		
Order No.: 129003057	Client Sample Ref.:		1	2		
	Client Sample ID.:		DOWNSTREA M DP	DP		
	Sample Location:		Downstream Discharge Point	Discharge Point		
	Sample Type:		WATER	WATER		
	Date Sampled:		02-Mar-2022	02-Mar-2022		
	Time Sampled:		12:00	12:00		
Determinand	Accred.	SOP	Units	LOD		
pH	U	1010		N/A	7.5	7.5
Electrical Conductivity	U	1020	µS/cm	1.0	710	750
Suspended Solids At 105C	U	1030	mg/l	5.0	46	45
Biochemical Oxygen Demand	N	1090	mg O2/l	4.0	< 4.0	< 4.0
Chemical Oxygen Demand	U	1100	mg O2/l	10	< 10	15
Alkalinity (Total)	U	1220	mg/l	10	180	190
Chloride	U	1220	mg/l	1.0	110	110
Ammonia (Free)	N	1220	mg/l	0.050	< 0.050	< 0.050
Ammoniacal Nitrogen	U	1220	mg/l	0.050	0.68	0.68
Nitrate	U	1220	mg/l	0.50	7.6	7.8
Phosphate	U	1220	mg/l	0.200	< 0.20	< 0.20
Sulphate	U	1220	mg/l	1.0	60	61
Cyanide (Total) Low-Level	N	1300	mg/l	0.0050	< 0.0050	< 0.0050
Sulphide	U	1325	mg/l	0.050	< 0.050	< 0.050
Arsenic (Dissolved)	U	1455	µg/l	0.20	0.57	0.55
Boron (Dissolved)	U	1455	µg/l	10.0	140	150
Cadmium (Dissolved)	U	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Dissolved)	U	1455	µg/l	0.50	0.99	5.7
Copper (Dissolved)	U	1455	µg/l	0.50	5.1	4.1
Iron (Dissolved)	N	1455	µg/l	5.0	37	47
Manganese (Dissolved)	U	1455	µg/l	0.50	48	45
Nickel (Dissolved)	U	1455	µg/l	0.50	2.1	2.2
Lead (Dissolved)	U	1455	µg/l	0.50	0.60	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Dissolved)	U	1455	µg/l	2.5	43	34
Arsenic (Total)	N	1455	µg/l	0.20	0.54	0.59
Boron (Total)	N	1455	µg/l	10.0	140	150
Cadmium (Total)	N	1455	µg/l	0.11	< 0.11	< 0.11
Chromium (Total)	N	1455	µg/l	0.50	0.92	5.7
Copper (Total)	N	1455	µg/l	0.50	5.0	4.1
Iron (Total)	N	1455	µg/l	5.0	36	47
Mercury (Total)	N	1455	µg/l	0.05	< 0.05	< 0.05
Manganese (Total)	N	1455	µg/l	0.50	48	45
Nickel (Total)	N	1455	µg/l	0.50	2.1	2.2

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	Sample Type:		WATER	WATER		
	Date Sampled:		02-Mar-2022	02-Mar-2022		
	Time Sampled:		12:00	12:00		
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>		
Lead (Total)	N	1455	µg/l	0.50	0.64	< 0.50
Selenium (Total)	N	1455	µg/l	0.50	< 0.50	< 0.50
Zinc (Total)	N	1455	µg/l	2.5	43	34
Mercury Low Level	U	1460	mg/l	0.000010	0.00005	0.00003
Total TPH >C10-C40	U	1670	µg/l	10	< 10	< 10
Total Phenols	N	1900	µg/l	5.00	< 5.0	< 5.0

## Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1030	Total Suspended Solids	Total suspended solids	Filtration of a mixed sample through a standard glass fibre filter and determination of the mass of residue retained dried at 105°C.
1090	Biochemical Oxygen Demand	Biochemical Oxygen demand (BOD)	Colorimetric determination of dissolved oxygen in seeded sample after 5 days incubation at 20°C.
1100	Chemical Oxygen Demand	Chemical Oxygen demand (COD)	Dichromate oxidation of organic matter in sample followed by colorimetric determination of residual Cr[VI].
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1460	Mercury low-level in Waters by AFS	Mercury	Atomic Fluorescence Spectrometry, with collimated UV source, wavelength 253.7 nm.
1670	Total Petroleum Hydrocarbons (TPH) in Waters by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO	Pentane extraction / GC FID detection
1900	Phenols in Waters by GC-MS	Approximately 24 substituted Phenols, including Chlorophenols	Solvent extraction / GCMS detection

## **Report Information**

### **Key**

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U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

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A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

### **Sample Retention and Disposal**

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All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.com](mailto:customerservices@chemtest.com)