

Our Ref: 24-44099
Your Ref: 259389

Analysis Report

Client: Standard Aero
Airport Service Road
Portsmouth
Hampshire
PO3 5PJ

Sample Details: 4 water samples for analysis

Date report issued: 20 September 2024

Issue number: 1

Number of pages (including this header): 4

Accreditation

All analytes marked ^M have been analysed under the scope of our MCERTS accreditation

All analytes marked ^U have been analysed under the scope of our UKAS accreditation

All analytes marked ^m have been subcontracted and analysed under the scope of their MCERTS accreditation

All analytes marked ^u have been subcontracted and analysed under the scope of their UKAS accreditation

All results labelled with an asterisk (*) are non-conforming due to incorrect sample storage or handling. The result may be invalid.

The results shown in this test report specifically refer to the sample(s) as received unless otherwise stated.

The report shall not be reproduced except in full, without the written approval of Envirochem.

All comments are beyond the scope of our accreditation.

Unless sampled by Envirochem, all sample details are supplied by the client.

Uncertainty of measurement is not accounted for in reported results.

Signed on behalf of Envirochem by an authorised signatory



Dan Dockree

Authorised Signatory



MICROBIOLOGICAL
TESTING



ASBESTOS
SERVICES



CHEMICAL
TESTING



OCCUPATIONAL
HYGIENE

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Client: Standard Aero
Site: Not Supplied
Sampled By: Client
Envirochem Job No. 24-44099

Submitted By: Client
Date Received: 11 September 2024
Date Completed: 20 September 2024
Date Issued: 20 September 2024

Lab Sample No. Deviating Codes Type Sample Date Sample Time				142182 Process // * UT71 Outfall	142183 Process // * TT31 General	142184 Process // * TT29 Chrome	142185 Process // * TT32 NDT	
Determination	Units	Method	Detection Limit					
Phenol	mg/l	6.19/6.26	0.50	< 0.50	< 0.50	< 0.50	2.03	
pH	pH Units	6.03	-	7.07	7.56	2.94	6.68	
Chromium VI	mg/l	6.19	0.1	< 0.1	< 0.1	< 0.1	< 0.1	
(COD) settled 1hr	mg/l	6.19	25.0	< 25.0	720	< 25.0	800	
total inorganic carbon in water	mg/l	6.07	0.2	5.5	3.8	1.4	4.6	
total carbon in water (TC-W)	mg/l	6.07	0.2	38.1	337	19.2	308	
total organic carbon in water	mg/l	6.07	0.2	32.6	333	17.9	303	
Arsenic	mg/l	6.08	0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Boron	mg/l	6.08	0.10	0.13	2.69	< 0.10	< 0.10	
Barium	mg/l	6.08	0.010	0.019	0.065	0.021	0.019	
Cadmium	mg/l	6.08	0.003	< 0.003	0.016	< 0.003	< 0.003	
Cobalt	mg/l	6.08	0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Chromium	mg/l	6.08	0.020	< 0.020	0.058	0.151	< 0.020	
Chromium (III)	mg/l	6.08	0.010	< 0.010	0.058	0.151	< 0.010	
Copper	mg/l	6.08	0.020	< 0.020	< 0.020	0.026	< 0.020	
Mercury	mg/l	6.08	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
Magnesium	mg/l	6.08	0.10	8.26	4.17	0.33	2.45	
Molybdenum	mg/l	6.08	0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Nickel	mg/l	6.08	0.020	< 0.020	0.028	0.025	< 0.020	
Lead	mg/l	6.08	0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Antimony	mg/l	6.08	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Selenium	mg/l	6.08	0.010	< 0.010	0.013	< 0.010	< 0.010	
Thallium	mg/l	6.08	0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Vanadium	mg/l	6.08	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Zinc	mg/l	6.08	0.10	< 0.10	0.42	0.66	0.17	
Fluoride	mg/l	6.02	0.30	0.33	0.80	< 0.30	< 0.30	
Chloride	mg/l	6.02	0.30	915	290	183	36.5	
Bromide	mg/l	6.02	0.30	5.41	< 0.30	1.82	< 0.30	
Nitrite	mg/l	6.02	0.30	< 0.30	< 0.30	< 0.30	< 0.30	
Nitrate	mg/l	6.02	0.30	11.7	< 0.30	12.8	< 0.30	
Phosphate	mg/l	6.02	0.3	< 0.3	< 0.3	< 0.3	1.8	
Sulphate	mg/l	6.02	0.30	953	18.0	12.8	4.84	
Toluene	mg/l	6.11	0.010	< 0.010	< 0.010	< 0.010	< 0.010	



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Determination	Units	Method	Detection Limit					
Ethylbenzene	mg/l	6.11	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Benzene	mg/l	6.11	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Xylene	mg/l	6.11	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
BTEX	mg/l	6.11	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
total TPH (C10 - C40)	mg/l	6.04	0.10	0.18	0.51	< 0.10	6.60	
total PAHs	mg/l	6.05	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
PAH Acenaphthylene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Acenaphthene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Anthracene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Benzo(a)pyrene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Benzo(g,h,i)perylene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Benz(a)anthracene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	0.010	
PAH Benzo(k)fluoranthene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Benzo(b)fluoranthene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Chrysene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Dibenzo(a,h)anthracene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Fluorene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Fluoranthene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Indeno(1,2,3-c,d)pyrene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Napthalene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Phenanthrene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
PAH Pyrene	mg/l	6.05	0.010	< 0.010	< 0.010	< 0.010	< 0.010	
TPH Aliphatic (C8-C10)	mg/l	6.04	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
TPH Aliphatic (C10-C12)	mg/l	6.04	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
TPH Aliphatic (C12-C16)	mg/l	6.04	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
TPH Aliphatic (C16-C21)	mg/l	6.04	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
TPH Aliphatic (C21-C40)	mg/l	6.04	0.10	< 0.10	0.39	< 0.10	< 0.10	
TPH Aromatic (C8-C10)	mg/l	6.04	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
TPH Aromatic (C10-C12)	mg/l	6.04	0.10	< 0.10	< 0.10	< 0.10	1.28	
TPH Aromatic (C12-C16)	mg/l	6.04	0.10	< 0.10	< 0.10	< 0.10	2.03	
TPH Aromatic (C16-C21)	mg/l	6.04	0.10	< 0.10	< 0.10	< 0.10	1.31	
TPH Aromatic (C21-C40)	mg/l	6.04	0.10	< 0.10	< 0.10	< 0.10	1.92	

Method Summaries:-

Method Summaries (Soils/ sludges/ solid wastes)

- 5.01 - Soil sample pre-treatment, air-drying, crushing, sieving and subdividing (BS ISO 11464:2006)
- 5.02 - Solvent extraction (acetone/heptane) of soils for hydrocarbon analyses (BS ISO 16703:2004)
- 5.04 - Aqueous leaching of soil and waste samples (BS EN 12457-2:2002)
- 5.05 - Soil texture classification
- 5.06 - Aqueous extraction of dried soils/sludges/waste in a ration of 2.5:1 (BS 1377-3:1990)
- 5.18 - Digestion of solid samples in aqua-regia using hot-block for metals analysis (EPA 200.2 rev 2.8)
- 6.01 - Gravimetric determination of water content of solid samples by oven drying at 105°C. (BS 7755-3.1:1995 (ISO 11464:1993)
- 6.02 - Determination of anions by ion chromatography (EPA 300.1 1999)
- 6.03 - Determination of pH in aqueous samples and extracts by pH electrode.
- 6.04 - Determination of petroleum hydrocarbons by Gas chromatography of solvent extracts (FID)
- 6.05 - Determination of poly-aromatic- hydrocarbons by gas chromatography linked mass spectrometry (GC-MS)
- 6.06 - Determination of poly-chlorinated-biphenyls (PCBs) by gas chromatography linked mass spectrometry (GC-MS)
- 6.07 - Determination of dissolved organic carbon (DOC) and total organic carbon (TOC) by furnace combustion and infra-red detection of carbon dioxide.
- 6.08 - Determination of metals in digests and leachates by inductively coupled plasma optical emission spectrophotometry (ICP-OES)
- 6.09 - Determination of loss on ignition by gravimetry and combustion in muffle furnace
- 6.11 - Determination of BTEX by headspace GC analysis

Method Summaries (water sample)

- 5.07 - Pretreatment of water samples prior to metals analysis, including acidification
- 5.09 - Solvent extraction (acetone/heptane) of waters for hydrocarbons analyses
- 6.02 - Determination of anions by ion chromatography
- 6.03 - Determination of pH in aqueous samples and extracts by pH electrode.
- 6.04 - Determination of TPH by Gas chromatography of solvent extracts (FID)
- 6.05 - Determination of poly-aromatic- hydrocarbons by gas chromatography linked mass spectrometry (GC-MS)
- 6.06 - Determination of poly-chlorinated-biphenyls (PCBs) by gas chromatography linked mass spectrometry (GC-MS)
- 6.07 - Determination of dissolved organic carbon (DOC) by furnace combustion and infra-red detection of carbon dioxide.
- 6.08 - Determination of metals in solution by inductively coupled plasma optical emission spectrophotometry (ICP-OES)
- 6.10 - Determination of suspended solids by filtration, drying at 103°C and gravimetry.
- 6.19 - Colorimetric tests

Deviating Codes

- A - No sample date provided
- B - No sample time provided (water samples only)
- C - Incorrect sample container
- D - Not received in cooled state
- E - Insufficient sample
- F - Exceeds storage time (sampling to receipt)
- G - Exceeds storage time (receipt to analysis)
- P - No sample preservative (for bacti samples only)
- N - No sample temperature
- I - Insufficient paint sample supplied (<0.1g)

