METHOD STATEMENT



Determinand:

Determination of water-insoluble fat, oil and grease. This can also be known as Non Volatile Matter (NVM)

Matrix:

Sample Type: final effluents, trade discharge and crude sewage.

Principle of Method:

The aqueous sample is shaken with petroleum ether in a separating funnel and the resulting supernatant layer is removed and then filtered. The entire petroleum ether extract is transferred to a weighed dish and the petroleum ether is removed by evaporation. The dish is reweighed to obtain the weight of petroleum ether-extractable matter.

Sampling and Sample Preparation:

Samples should be provided within a separate glass bottle (ideally 250 ml). There is no sample preservative used for this test. All samples should be stored at 3±2°C Samples are stable for 17 days (Coventry In House Data)

Interferences

False low results may be obtained if the oil adheres to the walls of the sample bottle and is therefore not detected.

Performance of Method:

Range of Application:

30mg/l upwards Reporting limit: <30mg/l

Limit of Detection:

29.9mg/l

Recoveries of Compounds and Uncertainty of measurement:

		Extractable mg/l	RSD	% Recovery	% Uncertainty
Low Standard		1010	5.95%	104.1	16.1
High Standard		2020	3.31%	102.7	9.4
Cooper Bridge Final	Sample	5.72	***	***	****
	Low Spike	1039	4.34	102.4	11.1
	High Spike	2044	2.81	101.1	6.7
Cooper Bridge Crude	Sample	217	7.2	****	****
	Low Spike	1226	3.22	100.1	6.5
	High Spike	2242	3.27	100.4	6.9
Kerfoot Trade	Sample	2639	6.6	****	****
	Low Spike	3622	5.36	97.4	13.3
	High Spike	4702	4.69	102.2	11.6

References:

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The determination of oils and fats in waste water by filtration, extraction and gravimetry 1987. Methods for the examination of waters and associated materials. HMSO ISBN 0117520764.