MCL 4032 Uncertainty of Measurement for TLV reporting - Version 20

Matrix	Parameter	UOM value	comment
	(_LR indicates low range method)		dp = number of decimal places
Final Effluent	Aluminium	5.5%	Method IC036 - reported as mgAl/l
Final Effluent	Aluminium_LR	5.4%	ICPMS5 is our low range method - reported as ugAl/l
Final Effluent	Ammonia	9.2%	Method GIC007 - reported to 1 dp
Final Effluent	Ammonia_LR	14.0%	IC009 is our low range method - reported to 3dp
Final Effluent	Arsenic	5.6%	
Final Effluent	Biochemical oxygen demand	13.3%	
Final Effluent	Cadmium	4.4%	Method IC036 - reported as mgCd/l
Final Effluent	Cadmium_LR	5.3%	ICPMS5 is our low range method - reported as ugCd/l
Final Effluent	Chlorfenvinphos (Z)	7.6%	
Final Effluent	Chloroform	10.6%	
Final Effluent	Chromium	5.1%	Method IC036 - reported as mgCr/l
Final Effluent	Chromium_LR	5.7%	ICPMS5 is our low range method - reported as ugCr/l
Final Effluent	Coliform bacteria	11.0%	analysis at Edinburgh
Final Effluent	Coliform bacteria	13.0%	analysis at inverness
Final Effluent	Copper	4.8%	Method IC036 - reported as mg/l
Final Effluent	Copper_LR	7.0%	ICPMS5 is our low range method - reported as ugCu/l
Final Effluent	Cyanide	13.6%	Subcontracted test
Final Effluent	Cyfluthrin	5.4%	
Final Effluent	Diazinon	9.2%	
Final Effluent	Dichloromethane	11.9%	
Final Effluent	Dissolved Aluminium	5.4%	ICPMS5 is our low range method - reported as ug/l
Final Effluent	Dissolved Cadmium	5.3%	ICPMS5 is our low range method - reported as ug/l
Final Effluent	Dissolved Chromium	5.7%	ICPMS5 is our low range method - reported as ug/l
Final Effluent	Dissolved Copper	7.0%	ICPMS5 is our low range method - reported as ug/l
Final Effluent	Dissolved Iron	5.3%	ICPMS5 is our low range method - reported as ug/l
Final Effluent	Dissolved Lead	7.1%	ICPMS5 is our low range method - reported as ug/l
Final Effluent	Dissolved Mercury	see comment	subcontracted test - UOM available on request
Final Effluent	Dissolved Nickel	13.9%	ICPMS5 is our low range method - reported as ug/l
Final Effluent	Dissolved Zinc	5.8%	ICPMS5 is our low range method - reported as ug/l
Final Effluent	E. coli	15.0%	analysis at Edinburgh
Final Effluent	E. coli	22.0%	analysis at inverness
Final Effluent	Flucofuron	see comment	subcontracted test - UOM available on request
Final Effluent	Fluoride	9.6%	
Final Effluent	Free Cyanide	13.8%	subcontracted test - UOM available on request
Final Effluent	gamma-HCH	8.4%	
Final Effluent	Hydrogen ion - pH	7.5%	UoM expressed as absolute value (Not %)
Final Effluent	Iron	5.7%	Method IC036 - reported to 1dp
Final Effluent	Iron_LR	5.3%	ICPMS5 is our low range method - reported to 2dp
Final Effluent	Lead_LR	7.1%	ICPMS5 is our low range method - reported as ugPb/l
Final Effluent	Mercury	see comment	subcontracted test - UOM available on request
Final Effluent	Mercury_LR	see comment	subcontracted test - UOM available on request
Final Effluent	Nickel_LR	13.9%	ICPMS5 is our low range method - reported as ugNi/l
Final Effluent	Nonionic Detergents	see comment	subcontracted test - UOM available on request
Final Effluent	Pentachlorophenol	13.6%	Subcontracted test
Final Effluent	Permethrin - all isomers total	6.1%	
Final Effluent	Phosphorus	5.4%	Method IC036 - reported to 2dp
Final Effluent	Phosphorus_LR	5.4%	ICPMS5 is our low range method - reported to 3dp
Final Effluent	Propetamphos	18.4%	
Final Effluent	Soluble Reactive Phosphate	11.8%	
Final Effluent	Soluble Reactive Phosphate_LR	9.9%	IC009 is our low range method - reported as mg/l P
Final Effluent	Sulcofuron	see comment	subcontracted test - UOM available on request
Final Effluent	Suspended solids	8.5%	
Final Effluent	Total Chemical Oxygen Demand	5.3%	
Final Effluent	Total oxidised nitrogen	11.9%	
Final Effluent	Total oxidised nitrogen_LR	7.9%	IC009 is our low range method - reported to 3dp
Final Effluent	TPH (C8-C40)	9.6%	
Final Effluent	Zinc_LR	5.8%	ICPMS5 is our low range method - reported as ugZn/l
Matrix	Parameter	UOM value	comment
Potable Waters	Nitrite	7.5%	
Potable Waters	Colony count at 22°C	58.0%	analysis at Edinburgh
Potable Waters	Colony count at 22°C	21.0%	analysis at Inverness
Potable Waters	Colony count at 37°C	58.0%	analysis at Edinburgh
Potable Waters	Colony count at 37°C	21.0%	analysis at Inverness
Potable Waters	Gross alpha	42.3%	
Potable Waters	Gross beta	29.0%	
Potable Waters	Lead	8.3%	
Potable Waters	Radon	22.8%	
Potable Waters	Sum of PFAS	12.8%	
Potable Waters	THM: Total	8.7%	
Potable Waters	Tritium	32.4%	