

SCIENTIFIC SERVICES CUSTOMER SAMPLE BOTTLE GUIDE

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Waste Water Sample Bottles



ALS026

Description:

60ml Glass Bottle - White Capped

Treated: - Yes

0.6ml of 0.0167M Potassium Bromate/Bromide solution and 0.6ml of 36.5-38% Hydrochloric Acid solution

Associated Tests: -

METHG, METHGSOL, METHG_LR,

Directions for Use: -

Remove lid only just before sampling

Fill bottle slowly

Do not rinse

The bottles are date stamped and must be used by the expiry date shown

Deliver to Lab Within: - 72 hours



AMBR1000

Description:

1000ml Amber Glass Duran Bottle - Blue Capped

Treated: - Yes

Copper Nitrate

Associated Tests: -

 $\mbox{PAH_CIP}, \mbox{PAH_GCMS}, \mbox{STEROID}, \mbox{PBDE} \mbox{ and TRICLOSAN}$ in wastewaters and trade effluents.

Directions for Use: -

Fill to 1 litre glass ridge only – **Do not** fill completely. Refrigerate sample once taken



ANION2

Description: -

250ml Square Clear Plastic - Blue Capped

Treated: - No

Associated Tests: -

Fluoride & Sulphate

Directions for Use: -

Fill completely Refrigerate sample once taken

Deliver to Lab Within: - 72 hours



ASCORB_500

Description: -

500ml Glass Duran Bottle - Red Capped

Treated: - Yes

Ascorbic Acid

Associated Tests: -

Di(2-ethylhexyl)phthalate

Directions for Use: -

Fill completely Refrigerate sample once taken



CU_500

Description: -

500ml Glass Duran Bottle - Red Capped

Treated: - Yes

Copper Nitrate

Associated Tests: -

Phenols in wastewaters & trade effluent

Directions for Use: -

Fill completely Refrigerate sample once taken

Deliver to Lab Within: - 72 hours



CYANIDE

Description: -

250ml White Plastic Bottle- White Capped

Treated: - Yes

Sodium Hydroxide & Sodium Thiosulphate

Associated Tests: -

Total Cyanide, Anionic Detergents

Directions for Use: -

Fill completely, Do Not Rinse Bottles are date stamped and must be used by the expiry date Refrigerate sample once taken



EPA (2-7)

Description: -

40ml Amber Glass Vial - Blue Capped

Treated: - Yes

Sodium Thiosulphate

Associated Tests: -

EPA2 – VOCS

EPA3 - Alcohols

EPA4-Furfural

EPA7 – CHLOROMETH

Directions for Use: -

Fill to top without overflowing leaving no headspace, ensure no air bubbles remain after filling, Do Not Rinse

Bottles are date stamped and must be used by the expiry date Refrigerate sample once taken

Deliver to Lab Within: - 72 hours



GEN

Description: -

1 Litre Square Plastic Bottle - White Capped

Treated: - No

Associated Tests: -

Subcontracted nutrients

Directions for Use: -

Fill completely, Do Not Rinse Refrigerate sample once taken



GLASS05

Description: -

 $500\ mL\ Glass\ Duran\ Bottle-Red\ Capped$

Treated: - No

Associated Tests: -

Total Petroleum Hydrocarbons (TPH_GCFID) & GCMS_SCAN (waste matrices only) Except Sludge

Directions for Use: -

Fill to ridge of bottle

Refrigerate sample once taken

Deliver to Lab Within: - 72 hours



GLASS10

Description: -

1 litre Glass Duran Bottle – Blue Capped

Treated: - No

Associated Tests: -

Organotin, APES.

Directions for Use: -

Do not fill above 1 litre line Refrigerate sample once taken



METALS LR

Description: -

250ml Square Clear Plastic - Blue Capped

Treated: - No

Associated Tests: -

Total metals associated with METCIP test suite and Low Range Total Metals analysis.

Directions for Use: -

Fill completely,

Deliver to Lab Within: - 48 hours



METSOL_LR

Description: -

500ml Square Clear Plastic – Blue Capped

Treated: - No

Associated Tests: -

Low Range Dissolved Metals (except Hg) for Final Effluent and Raw Water matrices.

Directions for Use: -

Fill completely

(Samples to be filtered on arrival at lab)



METFIL_LR

Description: -

50ml Plastic Centrifuge Tube – Yellow Capped

Treated: - No

Associated Tests: -

Dissolved Metals associated with test METCIP_SOL test suite.

Directions for Use: -

Sample should be filtered through 0.45um membrane onsite prior to filling. Fill completely,

Deliver to Lab Within: - 48 hours



MICROT_NP

Description: -

500ml Clear Plastic Sterile (<u>labelled</u>) Bottle – Red Capped

Treated: - Yes

Sodium Thiosulphate

Associated Tests: -

Coliforms, E.coli, Faecal Strep, Clostridia perfringens, 22°C Plate Counts, 37°C Plate Counts & Pseudomonas aeruginosa, and Bacterial Flow Cytometry

Directions for Use: -

Fill to base of neck,

Do Not Rinse

Bottles are date stamped and must be used by the expiry date Refrigerate sample once taken



NONDET

Description: -

250ml Square Clear Plastic -- Blue Capped

Treated: - No

Associated Tests: -

Non-Ionic Detergents

Directions for Use: -

Fill completely Refrigerate sample once taken

Deliver to Lab Within: - 72 hours



ORGSUB-1 & ORGSUB-3

Description: -

1litre Amber Glass Bottle - Opaque Cap

Treated: - No

Associated Tests: -

Acetaldehyde, Biphenyl, Phenylether, Cyclohexane & Dimethanol, and Eulans + Furons

Directions for Use: -

Fill completely



PEST 500

Description: -

500ml Glass Duran Bottle – Red Capped

Treated: -Yes

Sodium Thiosulphate

Associated Tests: -

Waste Organochlorine Pesticides, Organophosphorus Pesticides, Pyrethoids and PCB's (W_PEST_PCB)

Directions for Use: -

Fill completely, Do Not Rinse Bottles are date stamped and must be used by the expiry date Refrigerate sample once take

Deliver to Lab Within: - 72 hours



PESTP & NONP

Description: -

1 Litre Glass - PTFE top White Capped (NLS bottle)

Treated: - No

Associated Tests: -

OSM_ORG_P & OSM_NONP

Directions for Use: -

Fill completely



PHEN

Description: -

250ml Round Glass with Stopper (NLS Bottle)

Treated: - Yes

Phen preservative

Associated Tests: -

OSM_PCP

Directions for Use: -

Fill to line

Refrigerate sample once taken

Deliver to Lab Within: - 72 hours



SEM

Description: -

250ml Amber Glass Bottle - Blue Capped

Treated: - No

Associated Tests: -

Total Fats, Oils & Greases, Solvent Extractable Material (hexane)

Directions for Use: -

Fill completely

Refrigerate sample once taken



STL 13

Bottles are listed in LIMS as STL13-1, STL13-2 denoting those separate bottles are required for different tests.

Description: -

1 Litre Square Plastic Bottle - White capped

Treated: - No

Associated Tests: -

Total Nitrogen, CIP Tests for Total Phosphorus, Dissolved Phosphorus, BOD, COD, Soluble BOD, Soluble COD, pH, Suspended Solids, Ammonia, TON,

Directions for Use: -

Fill completely

Refrigerate sample once taken

Deliver to Lab Within: - 24 hours



STL 17

Description: -

500ml Clear Glass Bottle - White Capped

Treated: - No

Associated Tests: -

Organotin, OSM_ORG_CL & OSM_ORGCYR

Directions for Use: -

Fill completely

Refrigerate sample once taken



STL 33

Description: -

250 ml clear glass round Bottle - White lid with PTFE liner

Treated: - No

Associated Tests: -

GLYCOLS, OSM_ORG_CL & OSM_ORGPYR

Directions for Use: -

Fill completely

Refrigerate sample once taken

Deliver to Lab Within: - 48 hours



STL71

Description: -

60ml White Plastic Bottle - White Capped

Treated: - Yes

Sodium Hydroxide

Associated Tests: -

Subcontracted Total Cyanide and Free Cyanide

Directions for Use: -

Fill completely, Do Not Rinse

Bottles are date stamped and must be used by the expiry date

Refrigerate sample once taken



STL72

Description: -

40ml clear glass vial with green lid.

Treated: - No

Associated Tests: -

DISS_METH - Requires 2 full vials for each test.

Directions for Use: -

Do not rinse before filling Fill to top without over flowing Attach the cap securely without over tightening Refrigerate sample once taken

Deliver to Lab Within: - 48 hours



STL102

Description: -

1Litre Plastic Bottle - White Capped

Treated: - No

Associated Tests: -

Waste Inorganics analysis, General Inorganics, Metals (excluding Mercury analysis)

Directions for Use: -

One full container is required



STL112

Description: -

500ml Round Green Glass Bottle - Black Capped

Treated: - Yes

25ml of Ultra-Resi analysed Methanol

Associated Tests: -

STL112-1 - CIP-HBCDD

STL112-2 – CIP PBDE

STL112-3 – CIP NONPOL

Directions for Use: -

Do Not Rinse, Fill Completely

Two containers are required

Deliver to Lab Within: - 72 hours



SUBCOVID19

Description: -

250ml Opaque Polypropylene Bottle – White Capped

Treated: - No

Associated Tests: -

SubCovid19

Directions for Use: -

Fill Completely



SULPHIDE

Description: -

250ml Square Clear Plastic - White Capped

Treated: - Yes

Sodium Carbonate & Zinc Acetate

Associated Tests: -

Sulphide & Soluble Sulphide

Directions for Use: -

Fill completely. Do not rinse

Deliver to Lab Within: - 48 hours



TECHEM_STD & WWCHEM_STD

Description: -

1 Litre Square Plastic Bottle - White Capped

Treated: - No

Associated Tests: -

Alkalinity, Ammonia, BOD (Total, Settled & Soluble), Cationic Detergents, Chloride, COD (Total, Settled & Soluble), Colourimetric Phenols, Conductivity, Dry Solids, Formaldehyde, Free Cyanide, Hexachrome, Kjeldahl Nitrogen, Nitrate, Nitrite, Non-Anionic Detergents, pH, Redox Potential, Settlement, Soluble Reactive Phosphate, Sulphite, Suspended Solids, Settled Suspended Solids, TOC, TON, Total Solids, Total Dissolved Solids, Total Nitrogen & Volatile Solids

Directions for Use: -

Fill completely, Do Not Rinse Refrigerate sample once taken



WW_BOD_250

Description: -

250ml Square Clear Plastic - Blue Capped

Treated: - No

Associated Tests: -

OSM BOD Final effluent back up.

Directions for Use: -

Fill completely. Refrigerate sample once taken

Deliver to Lab Within: - 48 hours



WWCHEM_CRU

Description: -

1 Litre Square Plastic Bottle – Red Capped

Treated: - No

Associated Tests: -

Alkalinity, Ammonia, Ammonia Low Volume, BOD (Total, Settled & Soluble), Cationic Detergents, Chloride, COD (Total, Settled & Soluble), Colourimetric Phenols, Conductivity, Dry Solids, Formaldehyde, Free Cyanide, Hexachrome, Kjeldahl Nitrogen, Nitrate, Nitrite, Non-Anionic Detergents, pH, Redox Potential, Settlement, Soluble Reactive Phosphate, Sulphite, Suspended Solids, Settled Suspended Solids, TOC, TON, Total Solids, Total Dissolved Solids, Total Nitrogen & Volatile Solids

Directions for Use: -

Fill completely, Do Not Rinse. Refrigerate sample once taken



WW_METALS_DIS & WW_METALS

Description: -

250ml Square Clear Plastic – Blue Capped

Treated: - No

Associated Tests: -

All dissolved wastewater metals except Mercury

Directions for Use: -

Fill completely

Deliver to Lab Within: - 48 hours



WW_METALS (HCL)

Description: -

250ml Square Clear Plastic - Blue capped

Treated: - No

Associated Tests: -

Tin, Titanium

Directions for Use: -

Fill Half



WPE

Description: -

250ml Square Clear Plastic PET Bottle - Black Capped

Treated: - No

Associated Tests: -

SUB_AN_DET

Directions for Use: -

Fill completely Refrigerate sample once taken

Sludge Sample Bottles



ALE 218

Description: -

500ml Round Opaque Plastic Tub – Red Capped

Treated: - No

Associated Tests: -

Total Sulphur in Sludges (Subcontracted)

Directions for Use: -

Fill completely

Refrigerate sample once taken



EPA 2 & 3

Description: -

40ml Amber Glass Vial - Blue Capped

Treated: - Yes

Sodium Thiosulphate

Associated Tests: -

EPA2 = VOCS

EPA3 = Alcohols

Directions for Use: -

Fill to top without overflowing leaving no headspace, ensure no air bubbles remain after filling.

Do Not Rinse, Bottles are date stamped and must be used by the expiry date

Refrigerate sample once taken

Deliver to Lab Within: - 72 hours



M_SLUDGE

Description: -

500ml Square Opaque Plastic Tub – White Capped

Treated: - No

Associated Tests: -

Coliforms, E.coli & Salmonella

Directions for Use: -

Fill completely

Refrigerate sample once taken



SLUDGE

Description: -

500ml Square Opaque Plastic Tub - White Capped

Treated: - No

Associated Tests: -

All Inorganic sludge tests and metals (Separate ALE218 & STL20 bottles required for Sulphur and Fluoride analysis)

Directions for Use: -

Fill completely Refrigerate sample once taken

Deliver to Lab Within: - 48 hours



SUB_SLUDGE_2

Description: -

500ml Square Opaque Plastic Tub – White Capped

Treated: - No

Associated Tests: -

Subcontracted tests - NITRATESUB, NITRITESUB, PHOS_SRSUB, SUB_METB, SUB_METSN, SUB_METV, SUB_PFAS_TOTAL-S, SUB_SULPHATE, SUB_TOC, SUB_TOTN-S, SUB_TOTPETROLEUM, SUB_CARBTOT, THALLIUM

(Separate ALE218 & STL20 bottles required for Sulphur and Fluoride analysis)

Directions for Use: -

Fill completely Refrigerate sample once taken



SUB_SLUDGE_3

Description: -

500ml Square Opaque Plastic Tub - White Capped

Treated: - No

Associated Tests: -

Subcontracted tests - SUB_CALORIFIC_VALUE, SUB_KJN (Separate ALE218 & STL20 bottles required for Sulphur and Fluoride analysis)

Directions for Use: -

Fill completely Refrigerate sample once taken

Deliver to Lab Within: - 48 hours



STL20

Description: -

500ml Square Opaque Plastic Tub – Red Capped

Treated: - No

Associated Tests: -

Fluoride Analysis (subcontracted)

Directions for Use: -

Fill completely Refrigerate sample once taken



VFASLUDGE

Description: -

40ml Amber or clear Glass Vial – Blue Caped

Treated: - No

Associated Tests: -

Volatile Fatty Acids

Directions for Use: -

Fill completely, Do Not Rinse Bottles are date stamped and must be used by the expiry date Refrigerate sample once taken

Deliver to Lab Within: - 24 hours

-----END OF WASTEWATER BOTTLE LIST-----