



Scope of Accreditation

ACCREDITATION NO: 14429

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FACILITIES: Public testing service

This laboratory complies with the requirements of ISO/IEC 17025 (1999)

7.16 Fuels

.01 Petroleum gaseous fuels

Analysis by GC-SCD technique

by the methods of -

in-house method MA-1113

for the following determinations

Reduced sulphur compounds: n-butyl mercaptan; carbonyl sulphide; dimethyl sulphide; ethyl mercaptan; hydrogen sulphide; methyl mercaptan; propyl mercaptan; tetrahydrothiophene; thiophene

.02 Petroleum liquid fuels

Analysis by GC/MS

by methods of

in-house method MA-1310

for the following determinations

Tert-amyl methyl ether; isobutanol; n-butanol; sec-butanol; tert-butanol; diisopropyl ether; ethanol; ethyl-tert-butyl ether; methanol; methyl-tert-butyl ether; tert-pentanol; isopropanol; n-propanol

7.22 Trace analyses in petroleum products

Analysis of insulating and transformer oils

Analysis by GC/MS techniques

by the methods of

in-house method MA-82

for the following determinations -

Arochlors 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, 1268



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7.51 Foods

.05 Fish, crustaceans and mollusks

analysis of fish

Analysis by LC-ICP/MS technique

by the methods of-

in-house method MA-1400-SPC

for the following determinations-

Methyl Mercury

.51 Vitamins in foods

Analysis by HPLC

by the methods of

in-house F101, F103

for the following determinations

Niacin (B3), riboflavin (B2), thiamine (B1)

7.52 Residues in foods and agricultural materials

.01 Elements

Analysis of cereal and cereal products, meat and meat products, fish, crustaceans and mollusks

Analysis by ICP-MS techniques

by the methods of

USEPA 3015A, 3051A, 6020A

for the following determinations

Aluminium; antimony; arsenic; barium; beryllium; boron; cadmium; calcium; cerium; chromium; cobalt; copper; gallium; iron; lead; magnesium; manganese; mercury; molybdenum; nickel; potassium; selenium; silver; sodium; strontium; thallium; titanium; vanadium; zinc

.03 Antibiotics

Analysis of honey, tissue and seafood

Analysis by HPLC/MS technique

by the methods of

in-house method F-1464

for the following determinations

Nitrofurantoin (nitrofurantoin; nitrofurantoin) metabolites

Analysis of honey, seafood and tissue

Analysis by LC/MS technique

by the methods of



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in-house method F-1000
for the following determinations -
Chloramphenicol

Analysis of seafood, poultry and tissue
Analysis by LC/MS technique
by the methods of
in-house method F-1003
for the following determinations -
Trimethoprim

Analysis of honey
Analysis by LC/MS technique
by the methods of
in-house method F-1002
for the following determinations
Aminoglycosides: - aprimycin, dihydrostrptomycin; gentamycin; neomycin; streptomycin

Analysis of honey and seafood Analysis
by HPLC/MS technique
by the methods of
in-house method F-114
for the following determinations
Tetracycline: - chlorocycline; doxycycline; oxytetracycline; tetracycline

Analysis of spices
Analysis by LC/MS technique
by the methods of
in-house method F-1021
for the following determinations
Sudan red:- Azobenzene (dimethyl yellow); orange II; parared; rhodamine B; sudan I; sudan II; sudan III (sudan red B); sudan IV; sudan orange G (solvent orange I)

Analysis of seafood
Analysis by LC/MS technique
by the methods of
in-house method F-1047
for the following determinations -
Leucomalachite green; malachite green; methylene blue



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Analysis of honey

Analysis by HPLC technique

by the methods of

in-house method F-113

for the following determinations

Sulfonamides:- sulfachloropyridazine; sulfadiazine; sulfadimethoxine; sulfadoxine; sulfafurazole; sulfamerazine; sulfameter (sulfamethoxine); sulfamethazine; sulfamethizole; sulfamethoxazole; sulfamethoxypyridazine; sulfamonomethoxine; sulfaphenazole; sulfapyridine; sulfaquinoxaline; sulfathiazole; sulfisoxazole

Analysis of fish

Analysis by HPLC technique

by the methods of

in-house method F-116

for the following determinations -

Oxolinic acid

.99 Other residues

Analysis of spices

Analysis by GC/MS technique

by the methods of

in-house method F-1510

for the following determinations -

Ethylene Chlorohydrin

7.66 Waters

.01 Waters for potable and domestic purposes

Analysis by AAS (vapour generation), GC/MS, HPLC, IC, ICP-MS, photometric detection of luminescence, UV/ VIS and classical techniques

by the methods of

APHA section: 2510; 2580 method B; 3500-Cr method B; 3500-Fe method B; 4500-H⁺ method B; 4500-O method G; 5540 method C;

ASTM D5660-96

in-house method MA-100; MA- 1127; MA-1135

for the following determinations

Anionic surfactants (MBAS); azide; conductivity; dissolved oxygen; elements as listed under 7.84.01; ferrous iron; iodide; hexavalent chromium; Microtox(R) toxicity test; nitrate; nitrite; pH; redox potential; trace organics as listed under 7.84



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Analysis by LC-ICP/MS technique
by the methods of-
in-house method MA-1400-SPC
for the following determinations-
Methyl Mercury

.02 Waters for irrigation and stock

Analysis by GC/MS, HPLC, IC, detection of luminescence, UV/VIS and classical techniques
by the methods of
APHA section: 2510; 2580 method B; 3500-Cr method B ;3500-Fe method B; 4500-H⁺ method B; 4500-O method
G ASTM D5660-96 in-house method MA-100; MA-1135
for the following determinations
Azide; conductivity; dissolved oxygen; ferrous iron; hexavalent chromium; Microtox(R) toxicity test; nitrate; nitrite;
pH; redox potential; trace organics as listed under 7.84

.03 Waters for industrial and steam-raising purposes

Analysis by AAS (vapour generation), GC/MS, HPLC, IC, ICP-MS, photometric detection of luminescence, UV/ VIS
and classical techniques
by the methods of
APHA section: 2510; 2580 method B; 3500-Cr method B; 3500-Fe method B; 4500-H⁺ method B; 4500-O method
G; 5540 method C; ASTM D5660-96
in-house method MA-100; MA- 1127; MA-1135; MA- 1473
for the following determinations
Anionic surfactants (MBAS); azide; conductivity; dissolved oxygen; elements listed under 7.84.01; ferrous iron;
iodide; hexavalent chromium; Microtox(R) toxicity test; nitrate; nitrite; pH; redox potential; thiosulfate; trace
organics as listed under 7.84

Analysis by LC-ICP/MS technique
by the methods of-
in-house method MA-1400-SPC
for the following determinations-
Methyl Mercury

.04 Sewage

Analysis by GC/MS, HPLC, IC, photometric detection of luminescence, UV/VIS and classical techniques
by the methods of
APHA section: 2510; 2580 method B; 3500-Fe method B; 4500-H⁺ method B; 4500-O method G ASTM D5660-96
in-house method MA-100; MA-1135



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for the following determinations

Azide; conductivity; dissolved oxygen; ferrous iron; Microtox(R) toxicity test; nitrate; nitrite; pH; redox potential; trace organics as listed under 7.84

.05 Trade wastes

Analysis by AAS (vapour generation), GC/MS, HPLC, IC, ICP-MS, photometric detection of luminescence, UV/ VIS and classical techniques

by the methods of

APHA section: 2510; 2580 method B; 3500-Cr method B; 3500-Fe method B; 4500-H⁺ method B; 4500-O method G; 5540 method C; ASTM D5660-96

in-house method MA-100; MA-1135; MA-1473

for the following determinations -

Anionic surfactants (MBAS); azide; conductivity; dissolved oxygen; elements listed under 7.84.01; ferrous iron; hexavalent chromium; Microtox(R) toxicity test; nitrate; nitrite; pH; redox potential; thiosulfate; trace organics as listed under 7.84

Analysis by LC-ICP/MS technique

by the methods of-

in-house method MA-1400-SPC

for the following determinations-

Methyl Mercury

.06 Saline waters

Analysis by GC/MS, HPLC, IC, photometric detection of luminescence, UV/VIS and classical techniques

by the methods of

APHA section: 2510; 2580 method B; 3500-Cr method B; 3500-Fe method B; 4500-H⁺ method B; 4500-O method G; 5540 method C; ASTM D5660-96,

in-house method MA-100; MA-1135

for the following determinations

Anionic surfactants (MBAS); azide; conductivity; dissolved oxygen; ferrous iron; hexavalent chromium; Microtox(R) toxicity test; nitrate; nitrite; pH; redox potential; trace organics as listed under 7.84

Analysis by AAS (vapour generation) technique

by the methods of-

ASTM D6784; USEPA M29 and USEPA SW 846 – 7470A

for the following determinations-

Mercury



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7.70 Gases and aerosols Analysis of impinger solutions and filters

Analysis of impinger solutions and filters

Analysis by ICP-MS and AAS (vapour generation) techniques

by the methods of

ASTM D6784; USEPA 6020, 7470A, Method 29 (analyses only), Method 0060 (analyses only)

for the following determinations

Aluminium; antimony; arsenic; barium; beryllium; bismuth; boron; cadmium; calcium; cerium; chromium; cobalt; copper; gold; gallium; iron; lead; lithium; magnesium; manganese; mercury; molybdenum; nickel; phosphorus; potassium; rubidium; selenium; silver; sodium; strontium; tellurium; thallium; thorium; tin; titanium; uranium; vanadium; yttrium; zinc; zirconium

Analysis of carbon tubes, silica gel and passive badges (analysis only)

Analysis by GC/MS techniques

by the methods of

in-house method MA-8

for the following determinations

Aniline; n-butanol; 2-butoxy ethanol; di-iodomethone; di-isobutyl ketone; ethyl acetate; methyl ethyl ketone

Analysis of sorbent tubes (analysis only)

Analysis by GC/MS techniques

by the methods of

USEPA TO-17

for the following determinations

Benzene; bromobenzene; bromochloromethane; bromodichloromethane; bromomethane; n-butylbenzene; sec-butylbenzene; tert-butylbenzene; carbon tetrachloride; chlorobenzene; chloroethane; chloromethane; 2-chlorotoluene; 4-chlorotoluene; dibromomethane; dibromochloromethane; 1,2-dibromo-3-chloropropane; 1,2-dibromoethane; 1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; cis-1,2-dichloroethene; cis-1,3-dichloropropene; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; 1,2-dichloropropane; 1,3-dichloropropane; 2,2-dichloropropane; 1,1-dichloropropene; dichlorodifluoromethane; dichloromethane; trans-1,2-dichloroethene; ethylbenzene; hexachlorobutadiene; isopropylbenzene; 4-isopropyltoluene; naphthalene; n-propylbenzene; styrene; 1,1,1,2-tetrachloroethane; 1,1,2,2-tetrachloroethane; tetrachloroethene; toluene; trans-1,3-dichloropropene; tribromomethane; 1,2,3-trichlorobenzene; 1,2,4-trichlorobenzene; 1,1,1-trichloroethane; 1,1,2-trichloroethane; trichloroethene; trichlorofluoromethane; trichloromethane; 1,2,3-trichloropropane; 1,2,5-trimethylbenzene; 1,2,4-trimethylbenzene; vinyl chloride; xylene (o,m&p)

Analysis of adsorbent cartridges and DNPH solutions (analysis only)

Analysis by HPLC techniques

by the methods of

USEPA TO5, TO11 in-house method MA-1159



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for the following determinations

Acetaldehyde; acetone; acrolein; benzaldehyde; butanal; 2-butanone; butenal; formaldehyde; hexanal; isobutyraldehyde; methacrolein; methyl ethyl ketone (MEK); pentanal; 2-pentanone; propanal; tolualdehyde

Analysis of impinger solutions (analysis only)

Analysis by IC techniques

by the methods of

In-house MA1127

for the following determinations

Iodide

Analysis of impinger solutions (analysis only)

Analysis by UV-Vis techniques

by the methods of

APHA 3500-Cr method B

for the following determinations

Hexavalent chromium

Analysis of impinger solutions (analysis only)

Analysis by HPLC techniques

by the methods of

In-house MA1425, MA1426

for the following determinations

Carboxylic acids: acetic acid; butyric acid; formic acid; heptanoic acid; hexanoic acid; lactic acid; propionic acid; valeric acid
Dicarboxylic acids: citric acid; malic acid; oxalic acid; succinic acid; tartaric acid.

Analysis of sorbent tubes and impinger solutions (analysis only)

Analysis by GC/MS techniques

by the methods of

In-house MA1175, MA1517

for the following determinations

Aromatic amines: Aniline; NN-dimethylbenzamine; NN-dimethyl-p-toluidine; O-toluidine; 2,4-xylidine
Aliphatic amines: n-butylamine; cyclohexylamine; diethylamine; dimethylamine; di-n-butylamine; di-n-propylamine; n-hexylamine; monoisopropylamine; n-propylamine

Analysis of sorbent tubes (analysis only)

Analysis by GC/MS techniques

by the methods of

In-house MA1418,



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for the following determinations

Ethanol; methanol

.04 Industrial fumes and emissions

.05 Atmospheric pollution

7.81 Constituents of the environment

.21 Air

Analysis of carbon tubes, silica gel and passive badges (analysis only)

Analysis by GC/MS techniques

by the methods of

in-house method MA-8

for the following determinations

Aniline; n-butanol; 2-butoxy ethanol; di-iodomethone; di-isobutyl ketone; ethyl acetate; methyl ethyl ketone

Analysis of sorbent tubes (analysis only)

Analysis by GC/MS techniques

by the methods of -

USEPA TO-17

for the following determinations

Benzene; bromobenzene; bromochloromethane; bromodichloromethane; bromomethane; n-butylbenzene; sec-butylbenzene; tert-butylbenzene; carbon tetrachloride; chlorobenzene; chloroethane; chloromethane; 2-chlorotoluene; 4-chlorotoluene; dibromomethane; dibromochloromethane; 1,2-dibromo-3-chloropropane; 1,2-dibromoethane; 1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; cis-1,2-dichloroethene; cis-1,3-dichloropropene; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; 1,2-dichloropropane; 1,3-dichloropropane; 2,2-dichloropropane; 1,1-dichloropropene; dichlorodifluoromethane; dichloromethane; trans-1,2-dichloroethene; ethylbenzene; hexachlorobutadiene; isopropylbenzene; 4-isopropyltoluene; naphthalene; n-propylbenzene; styrene; 1,1,1,2-tetrachloroethane; 1,1,2,2-tetrachloroethane; tetrachloroethene; toluene; trans-1,3-dichloropropene; tribromomethane; 1,2,3-trichlorobenzene; 1,2,4-trichlorobenzene; 1,1,1-trichloroethane; 1,1,2-trichloroethane; trichloroethene; trichlorofluoromethane; trichloromethane; 1,2,3-trichloropropane; 1,2,5-trimethylbenzene; 1,2,4-trimethylbenzene; vinyl chloride; xylene (o,m&p)

Analysis of adsorbent cartridges and DNPH solutions (analysis only)

Analysis by HPLC techniques

by the methods of

USEPA TO5, TO11 in-house method MA-1159

for the following determinations

Acetaldehyde; acetone; acrolein; benzaldehyde; butanal; 2-butanone; butenal; formaldehyde; hexanal;



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isobutyraldehyde; methacrolein; methyl ethyl ketone (MEK); pentanal; 2-pentanone; propanal; tolualdehyde

Analysis by GC-SCD technique

by the methods of -

in-house method MA-1113

for the following determinations

Reduced sulphur compounds: n-butyl mercaptan; carbonyl sulphide; dimethyl sulphide; ethyl mercaptan; hydrogen sulphide; methyl mercaptan; propyl mercaptan; tetrahydrothiophene; thiophene

.31 Soils

Analysis by classical, HPLC, ICP-MS and GC/MS techniques

for the following determinations

Elements as listed under 7.84.01, trace organics as listed under 7.84

Analysis by LC-ICP/MS technique

by the methods of-

in-house method MA-1400-SPC

for the following determinations-

Methyl Mercury

.32 Sediments

Analysis by classical, HPLC, ICP-MS and GC/MS techniques

for the following determinations

Elements as listed under 7.84.01, trace organics as listed under 7.84

Analysis by LC-ICP/MS technique

by the methods of-

in-house method MA-1400-SPC

for the following determinations-

Methyl Mercury

.35 Leachate procedures

by the methods of

USEPA 1311, AS 4439.3

for the following determinations

TCLP (inorganics, non-volatiles only)



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7.82 Workplace environment and hazards

.05 Organic vapours

Analysis of solid sorbent charcoal tubes only

Analysis by GC/MS techniques

by the methods of

in-house method MA-5

for the following determinations

Aromatic and halogenated hydrocarbons as listed in the method

Analysis of carbon tubes, silica gel and passive badges (analysis only)

Analysis by GC/MS techniques

by the methods of

in-house method MA-8

for the following determinations

Aniline; n-butanol; 2-butoxy ethanol; di-iodomethane; di-isobutyl ketone; ethyl acetate; methyl ethyl ketone

Analysis of sorbent tubes (analysis only)

Analysis by GC/MS techniques

by the methods of

USEPA TO-17

for the following determinations

Benzene; bromobenzene; bromochloromethane; bromodichloromethane; bromomethane; n-butylbenzene; sec-butylbenzene; tert-butylbenzene; carbon tetrachloride; chlorobenzene; chloroethane; chloromethane; 2-chlorotoluene; 4-chlorotoluene; dibromomethane; dibromochloromethane; 1,2-dibromo-3-chloropropane; 1,2-dibromoethane; 1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; cis-1,2-dichloroethene; cis-1,3-dichloropropene; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; 1,2-dichloropropane; 1,3-dichloropropane; 2,2-dichloropropane; 1,1-dichloropropene; dichlorodifluoromethane; dichloromethane; trans-1,2-dichloroethene; ethylbenzene; hexachlorobutadiene; isopropylbenzene; 4-isopropyltoluene; naphthalene; n-propylbenzene; styrene; 1,1,1,2-tetrachloroethane; 1,1,2,2-tetrachloroethane; tetrachloroethene; toluene; trans-1,3-dichloropropene; tribromomethane; 1,2,3-trichlorobenzene; 1,2,4-trichlorobenzene; 1,1,1-trichloroethane; 1,1,2-trichloroethane; trichloroethene; trichlorofluoromethane; trichloromethane; 1,2,3-trichloropropane; 1,2,5-trimethylbenzene; 1,2,4-trimethylbenzene; vinyl chloride; xylene (o,m&p)

Analysis of adsorbent cartridges and DNPH solutions (analysis only)

Analysis by HPLC techniques

by the methods of

USEPA TO5, TO11 in-house method MA-1159

for the following determinations



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Acetaldehyde; acetone; acrolein; benzaldehyde; butanal; 2-butanone; butenal; formaldehyde; hexanal; isobutyraldehyde; methacrolein; methyl ethyl ketone (MEK); pentanal; 2-pentanone; propanal; tolualdehyde

Analysis of filters

Analysis by HPLC techniques

by the methods of

in-house method MA-1457

for the following determinations

Di-isocyanates: 1,6-hexamethylene di-isocyanate; 4,4-methylene di-isocyanate; 2,4-toluene di-isocyanate; 2,6-toluene di-isocyanate

Analysis of solid sorbent tubes

Analysis by GC/MS techniques

by the methods of

in-house method MA1424

for the following determinations

Organosulfides: isobutyl mercaptan; n-butyl mercaptan; n-propyl mercaptan; thiophene

Analysis by GC-SCD technique

by the methods of -

in-house method MA-1113

for the following determinations

Reduced sulphur compounds: n-butyl mercaptan; carbonyl sulphide; dimethyl sulphide; ethyl mercaptan; hydrogen sulphide; methyl mercaptan; propyl mercaptan; tetrahydrothiophene; thiophene

.07 Inorganic gases

Analysis by GC-SCD technique

by the methods of -

in-house method MA-1113

for the following determinations

carbonyl sulphide; hydrogen sulphide

7.84 Residues in constituents of the environment

.01 Elements

Analysis of soils, waters and sediments (covered under 7.66.01, .03, .05; 7.81.31; 7.81.32)

Analysis by ICP-MS and AAS (vapour generation) techniques

by the methods of

ASTM D6784, USEPA M29, 3015A, 3051A, 6020A, 7470A

for the following determinations



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Aluminium; antimony; arsenic; barium; beryllium; boron; cadmium; calcium; cerium; chromium; cobalt; copper; gallium; iron; lead; magnesium; manganese; mercury; molybdenum; nickel; potassium; selenium; silver; sodium; strontium; thallium; titanium; vanadium; zinc

.02 Pesticides Analysis of soils, waters and sediments

Analysis by GC/MS techniques

by the methods of

USEPA 8270

for the following determinations

Acetophenone; aldrin; anilazine; aramite; azinphos-methyl; barban; α -BHC; β -BHC; δ -BHC; γ -BHC; bromoxynil; captafol; captan; carbaryl; carbofuran; carbophenothion; chlordane; chlorfenvinphos; chlorobenzilate; coumaphos; crotoxyphos; 4,4'-DDD; 4,4'-DDE; 4,4'-DDT; demeton-O; demeton-S; diallate (cis or trans); dichlone; dichlorvos; dicrotophos; dieldrin; diethylstilbestrol; dimethoate; dinocap; dinoseb; dioxathion; disulfoton; endosulfan I; endosulfan II; endosulfan sulfate; endrin; endrin aldehyde; endrin ketone; EPN; ethion; ethyl carbamate; ethyl methanesulfonate; famphur; fensulfothion; fenthion; fluchloralin; heptachlor; heptachlor epoxide; hexachlorobenzene; hexamethylphosphoramide; hydroquinone; isodrin; isophorone; isosafrole; kepone; leptophos; malathion; mestranol; methapyrilene; methoxychlor; methyl methanesulfonate; methylparathion; mevinphos; mexacarbarate; mirex; monocrotophos; naled; nitrofen; 4,4'-oxydianiline; parathion; phenacetin; phorate; phosalone; phosmet; phosphamidon; piperonyl sulfoxide; pronamide; propylthiouracil; safrole; strychnine; sulfallate; terbufos; tetrachlorvinphos; tetraethyl dithiopyrophosphate; tetraethyl pyrophosphate; thionazine; toxaphene; trifluralin

Trace analysis of potable waters

Analysis by GC/MS techniques

by the methods of

in-house method MA-77L

for the following determinations

Organochlorine Pesticides: Aldrin; α -BHC; β -BHC; δ -BHC; γ -BHC; chlordane; 4,4'-DDD; 4,4'-DDE; 4,4'-DDT; dieldrin; endosulfan I; endosulfan II; endosulfan sulfate; endrin; endrin aldehyde; heptachlor; heptachlor epoxide; hexachlorobenzene; methoxychlor; toxaphene

Trace analysis of potable waters

Analysis by GC/MS techniques

by the methods of

in-house method MA-83L

for the following determinations

Organonitrogen Pesticides: Alachlor; ametryne; atraton; atrazine; bromacil; butachlor; butylate; cycloate; dichlorvos; EPTC; ethoprop; fenarimol; fluridone; hexazinone; metolachlor; mevinphos; molinate; napropamide;



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pebulate; promamide; prometon; prometryne; propachlor; propazine; simetryn; terbutryne; triadimefon; trifluralin; vernolate

Trace analysis of potable waters

Analysis by GC/MS techniques

by the methods of

in-house method MA-78L

for the following determinations

Organophosphorus Pesticides: Dimethoate; disulfoton; ethyl parathion; famphur; malathion; methyl parathion; parathion; phorate; sulfotepp; thionazin; O,O,Otriethylphosphorothiate

.03 Polyhalogenated biphenyls Analysis of soils, waters and sediments

Analysis by GC/MS techniques

by the methods of

USEPA 8270

for the following determinations

Arochlors 1016, 1221, 1232, 1242, 1248, 1254, 1260

Trace analysis of potable waters

Analysis by GC/MS techniques

by the methods of

in-house method MA-82L

for the following determinations -

Arochlors 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, 1268

.04 Halogenated hydrocarbons Analysis of soils, waters and sediments

Analysis by GC/MS techniques

by the methods of

USEPA 8270

for the following determinations

Bis(2-chloroethoxy)methane; bis(2-chloroethyl)ether; bis(2-chloroisopropyl)ether; 4-bromophenyl phenyl ether; 4-chlorophenyl phenyl ether; 1,2-dibromo-3-chloropropane; 1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; 3,3'-dichlorobenzidine; hexachlorobenzene; hexachlorobutadiene; hexachlorocyclopentadiene; hexachloroethane; hexachlorophene; pentachlorobenzene; pentachloronitrobenzene; 1,2,4,5-tetrachlorobenzene; 1,2,4-trichlorobenzene

Analysis of soils, waters and sediments

Analysis by GC/MS techniques

by the methods of



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USEPA 8260

for the following determinations

bromobenzene; bromochloromethane; bromodichloromethane; bromoethane; bromoform; bromomethane; carbon tetrachloride; chlorobenzene; chloroethane; chloroform; chloromethane; 2-chlorotoluene; 4-chlorotoluene; dibromochloromethane; 1,2-dibromo-3chloropropane; 1,2-dibromoethane; cis-1,2-dibromoethene; trans-1,2-dibromoethene; dibromomethane; 1,2-dichlorobenzene; 1,3-dichlorobenzene; 1,4-dichlorobenzene; dichlorodifluoromethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethene; cis-1,2-dichloroethene; trans-1,2-dichloroethene; dichloromethane; 1,2-dichloropropane; 1,3-dichloropropane; 2,2-dichloropropane; 1,1-dichloropropene; cis-1,3-dichloropropene; trans-1,3-dichloropropene; hexachlorobutadiene; methylene chloride; 1,2,3-trichlorobenzene; 1,2,4-trichlorobenzene; 1,1,1,2-tetrachloroethane; 1,1,2,2-tetrachloroethane; tetrachloroethene; 1,2,4-trichlorobenzene; 1,1,1-trichloroethane; 1,1,2-trichloroethane; trichloroethene; trichlorofluoromethane; 1,2,3-trichloropropane; 1,2,4-trimethylbenzene; vinyl chloride

.05 Phenols Analysis of soils, waters and sediments

Analysis by GC/MS techniques

by the methods of

USEPA 8270

for the following determinations

4-chloro-3-methylphenol; 2-chlorophenol; 2-cyclohexyl-4,6-dinitro phenol; 2,4-dichlorophenol; 2,6-dichlorophenol; 2,4-dimethylphenol; 2,4-dinitrophenol; 2-methylphenol; 3-methylphenol; 4-methylphenol; 2-nitrophenol; 4-nitrophenol; pentachlorophenol; phenol; 2,3,4,6-tetrachlorophenol; 2,4,5-trichlorophenol; 2,4,6-trichlorophenol

.06 Phthalates Analysis of soils, waters and sediments

Analysis by GC/MS techniques

by the methods of

USEPA 8270

for the following determinations

Bis(2-ethylhexyl)phthalate; butyl benzyl phthalate; di-n-butyl phthalate; diethyl phthalate; dimethylphthalate; di-n-octyl phthalate; phthalic anhydride

.11 Hydrocarbons

Analysis of water and waste water

Analysis by GC/MS techniques

by methods of

in-house method MA 1418

for the following determinations

Ethanol; methanol



Scope of Accreditation

.12 Petroleum hydrocarbons

Analysis of soils, waters and sediments

Analysis by GC/MS techniques

by the methods of

in-house methods MA-28, MA-110, MA-111

for the following determinations

Petroleum product identification: total petroleum hydrocarbons in the ranges $C_6 - C_9$; $C_{10} - C_{14}$; $C_{15} - C_{26}$; $C_{27} - C_{36}$

Analysis of soils, waters and oils

Analysis by GC/FID techniques

by the methods of

in-house methods MA-40

for the following determinations

Health risk assessment fractionation - aliphatic and aromatic hydrocarbons ranging from C_6 to C_{36}

.21 Monocyclic aromatic hydrocarbons

Analysis of soils, waters and sediments

Analysis by GC/MS techniques

by the methods of

USEPA 8260

for the following determinations

Benzene; n-butylbenzene; sec-butylbenzene; tert-butylbenzene; ethylbenzene; propylbenzene; isopropylbenzene; p-isopropyltoluene; styrene; toluene; o, m, p-xylene

.22 Polycyclic aromatic hydrocarbons

Analysis of soils, waters and sediments

Analysis by GC/MS techniques

by the methods of

USEPA 8270

for the following determinations

Acenaphthene; acenaphthylene; anthracene; benzo(a)anthracene; benzo(b)fluoranthene; benzo(k)fluoranthene; benzo(g,h,i)perylene; benzo(a)pyrene; 1-chloronaphthalene; 2-chloronaphthalene; chrysene; dibenz(a,j)acridine; dibenz(a,h)anthracene; dibenzofuran; dibenzo(a,e)pyrene; 7,12-dimethylbenz(a)anthracene; fluoranthene; fluorene; indeno(1,2,3cd)pyrene; 3-methylcholanthrene; 2-methylnaphthalene; naphthalene; 1,4-naphthoquinone; 1-naphthylamine; 2-naphthylamine; 5-nitroacenaphthene; phenanthrene; 2-picoline (2-methylpyridine); pyrene; pyridine

Analysis of soils, waters and sediments



Scope of Accreditation

Analysis by GC/MS techniques
by the methods of
USEPA 8260
for the following determinations -
Naphthalene

Trace analysis of potable waters
Analysis by GC/MS techniques
by the methods of
in-house method MA-72L
for the following determinations
Acenaphthene; acenaphthylene; anthracene; benzo(a)anthracene; benzo(b)fluoranthene; benzo(k)fluoranthene;
benzo(g,h,i)perylene; benzo(a)pyrene; dibenz(a,h)anthracene; 7,12dimethylbenz(a)anthracene; fluoranthene;
fluorene; indeno(1,2,3-cd)pyrene; 3methylcholanthrene; naphthalene; phenanthrene; pyrene

.41 Explosives Analysis of soils, waters and sediments

Analysis by GC/MS techniques
by the methods of
USEPA 8270
for the following determinations
1,2-dinitrobenzene; 1,3-dinitrobenzene; 1,4-dinitrobenzene; 4,6-dinitro-2-methylphenol; 2,4-
dinitrotoluene; 2,6-dinitrotoluene; nitrobenzene; resorcinol

Analysis of soils, water and waste water
Analysis by HPLC techniques
by the methods of
in-house method MA-1129
for the following determinations
4-amino-2,6-dinitrotoluene; 2-amino-4,6-dinitrotoluene; 1,3-dinitrobenzene; 2,4-dinitrotoluene; 2,6-dinitrotoluene;
HMX; nitrobenzene; nitroglycerine; 2-nitrotoluene; 3-nitrotoluene; 4-nitrotoluene; PETN; RDX; tetryl; 1,3,5-
trinitrobenzene; 2,4,6-trinitrotoluene

Analysis of soils, waters and sediments
Analysis by HPLC techniques
by the methods of
in-house method MCAWW353.2
for the following determinations -
Nitrocellulose



Scope of Accreditation

.99 Other substances Analysis of soils, waters and sediments

Analysis by GC/MS techniques

by the methods of

USEPA 8270

for the following determinations

2-acetylaminofluorene; 1-acetyl-thiourea; 2-aminoanthraquinone; aminoazobenzene; 4aminobiphenyl; 3-amino-9-ethylcarbazole; aniline; o-anisidine; benzidine; benzoic acid; p-benzoquinone; benzyl alcohol; 4-chloroaniline; 5-chloro-2-methylaniline; 3(chloromethyl)pyridine hydrochloride; 4-chloro-1,2-phenylenediamine; 4-chloro-1,3-phenylenediamine; p-cresidine; 2,4-diaminotoluene; diethyl sulfate; dihydrosaffrole; 3,3'dimethoxybenzidine; dimethylaminoazobenzene; 3,3'-dimethylbenzidine; α , α dimethylphenethylamine; diphenylamine; 5,5-diphenylhydantoin; 1,2-diphenylhydrazine; maleic anhydride; 4,4'-methylenebis(2-chloroaniline); 4,4'-methylenebis(N,Ndimethylaniline); nicotine; 2-nitroaniline; 3-nitroaniline; 4-nitroaniline; 5-nitro-oanisidine; 4-nitrobiphenyl; 5-nitro-o-toluidine; nitroquinolene-1-oxide; octamethyl pyrophosphoramidate; phenobarbital; 1,4-phenylenediamine; thiophenol (benzenethiol); toluene diisocyanate; o-toluidine; 2,4,5-trimethylaniline; trimethyl phosphate; tris(2,3-dibromopropyl)phosphate; tri-p-toyl phosphate; O,O,O-triethyl phosphorothioate; 1,3,5-trinitrobenzene Nitrosamines: N-nitrosodi-n-butylamine; N-nitrosodiethylamine; N-nitrosodimethylamine; N-nitrosomethylethyldiamine; N-nitrosodiphenylamine; N-nitrosodi-n-propylamine; N-nitrosomorpholine; N-nitrosopiperidine; N-nitrosopyrrolidine

Analysis of waters

Analysis by GC/MS techniques

by the methods of

in-house method MA-1488, MA-1488L

for the following determinations

Oxygenated Hydrocarbons: iso-butanol; n-butanol, sec-butanol; tert-butanol; diisopropyl ether; ethanol; ethyl tert-butyl ether; methanol; methyl tert-butyl ether; tert-pentanol; isopropanol; n-propanol; tert-amyl methyl ether

Analysis of water, waste water and condensate

Analysis by GC/MS techniques

by the methods of

in-house method MA1434

for the following determinations

Mercaptans: ethyl mercaptan; isobutyl mercaptan; n-butyl mercaptan; n-propyl mercaptan

Analysis of water and waste water

Analysis by GC/MS techniques

by the methods of

In-house MA1175, MA1517



Scope of Accreditation

for the following determinations

Aromatic amines: Aniline; NN-dimethylbenzamine; NN-dimethyl-p-toluidine; O-toluidine; 2,4-xylidine Aliphatic amines: n-butylamine; cyclohexylamine; diethylamine; dimethylamine; di-nbutylamine; di-n-propylamine; n-hexylamine; monoisopropylamine; n-propylamine

Analysis of water, waste water and sea water

Analysis by LC/MS techniques

by the method of -in-house method MA1427

for the following determinations

Dibutyltin, diphenyltin, monophenyltin, monobutyltin, tributyltin, triphenyltin

Accreditation No: 14429

Corporate Site No: 14420

(Scope Last Changed 7-AUGUST-08)