

TEST REPORT

Test Report: RPT/T(W)/24/016368

Date: November 29, 2024



Date of Sample Received: 13/11/2024

Applicant's SHRI SAI TEX PROCESSORS
SFNo.160/3,Patchankattu Palayam,
Palladam Road ,
Tiruppur;Tamil Nadu-641605
India

Attention: Mr. Sathyaseelan

Sample Description	:	Sample (A): Raw Waste Water; Color : - (B): Sludge; Color : -
No. of Working Day(s)	:	14
Test Period	:	14/11/2024 – 29/11/2024
Discharge Mode	:	ZLD plant
Tests Conducted	:	As Requested By The Applicant, For Details Refer To Attached Page(s).

SUMMARY OF TEST RESULTS- ANALYTICAL TEST		
TEST REQUESTED	Result	
	A (Water)	B (Sludge)
Alkylphenols (AP's) and Alkylphenol Ethoxylates (APEOs)	<input type="checkbox"/>	<input type="checkbox"/>
Phthalates	<input type="checkbox"/>	-
Brominated, Chlorinated and Other Flame Retardants	<input type="checkbox"/>	-
Hazardous Colorants – Arylamines (Released from Azo colorants or in free manner)	<input type="checkbox"/>	-
Hazardous Colorants – (Carcinogenic, Allergenic or Banned for other reasons)	<input type="checkbox"/>	-
Organotin Compounds	<input type="checkbox"/>	-
PFC's, Per and Polyfluorinated Compounds	<input type="checkbox"/>	-
Chlorobenzenes and Chlorotoluenes	<input type="checkbox"/>	<input type="checkbox"/>
Chlorinated and Other solvents	<input type="checkbox"/>	-
Chlorophenols	<input type="checkbox"/>	-
Chlorinated Paraffines	<input type="checkbox"/>	-
Heavy Metals and Their Compounds	<input type="radio"/>	<input type="radio"/>
Polycyclic Aromatic Hydrocarbons (PAHs)	<input type="checkbox"/>	<input type="checkbox"/>
Others Substances	<input type="checkbox"/>	<input type="checkbox"/>
Note/ Key: — ■ — Detected/ Fail* — □ — Not Detected/Pass* — O — Refer Results — - — Not Tested		

Remarks: The specifications have been followed as per Detox to Zero by Oeko Tex Edition-02,2024 version

Laboratory:
TÜV SÜD South Asia Pvt. Ltd.
S.F.No.139/1B, Ammananthangal
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Note: The submitted samples were Drawn by the Laboratory.

Unless otherwise agreed upon, PASS or FAIL verdicts are given based on the measured values without any considerations of measurement uncertainties. Every test method has a measurement uncertainty which has been evaluated by the laboratory and are available on request. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL

The testing conditions are followed as per the reported test standard. For additional test conditions, apart from the reported test conditions, the laboratory can be contacted for details. 2. The laboratory will retain the sample(s) for 45 days except for the mandatory retention period specified by the Regulatory Bodies and unless otherwise specified by the client.

Authorized By

Mohanraj Sakthivel
()

Please contact :

For any technical issues : C. Arun at C.Arun@tuvsud.com

For any complaint : A, Saleemraja at Saleemraja.A@tuvsud.com

By accepting this document the customer hereby agrees and accepts the 'Terms & Conditions' and the relevant 'Testing & Certification Regulations' of TÜV SÜD South Asia Pvt. Ltd. which are available at Company's website at the link-<https://www.tuvsud.com/en-in/terms-and-conditions>

Note: The test report is electronically generated. Hence original signature is not required.

Note : (1) The results relate only to the items tested, (2) The test report shall not be reproduced except in full without the written approval of the laboratory, (3) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (4) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

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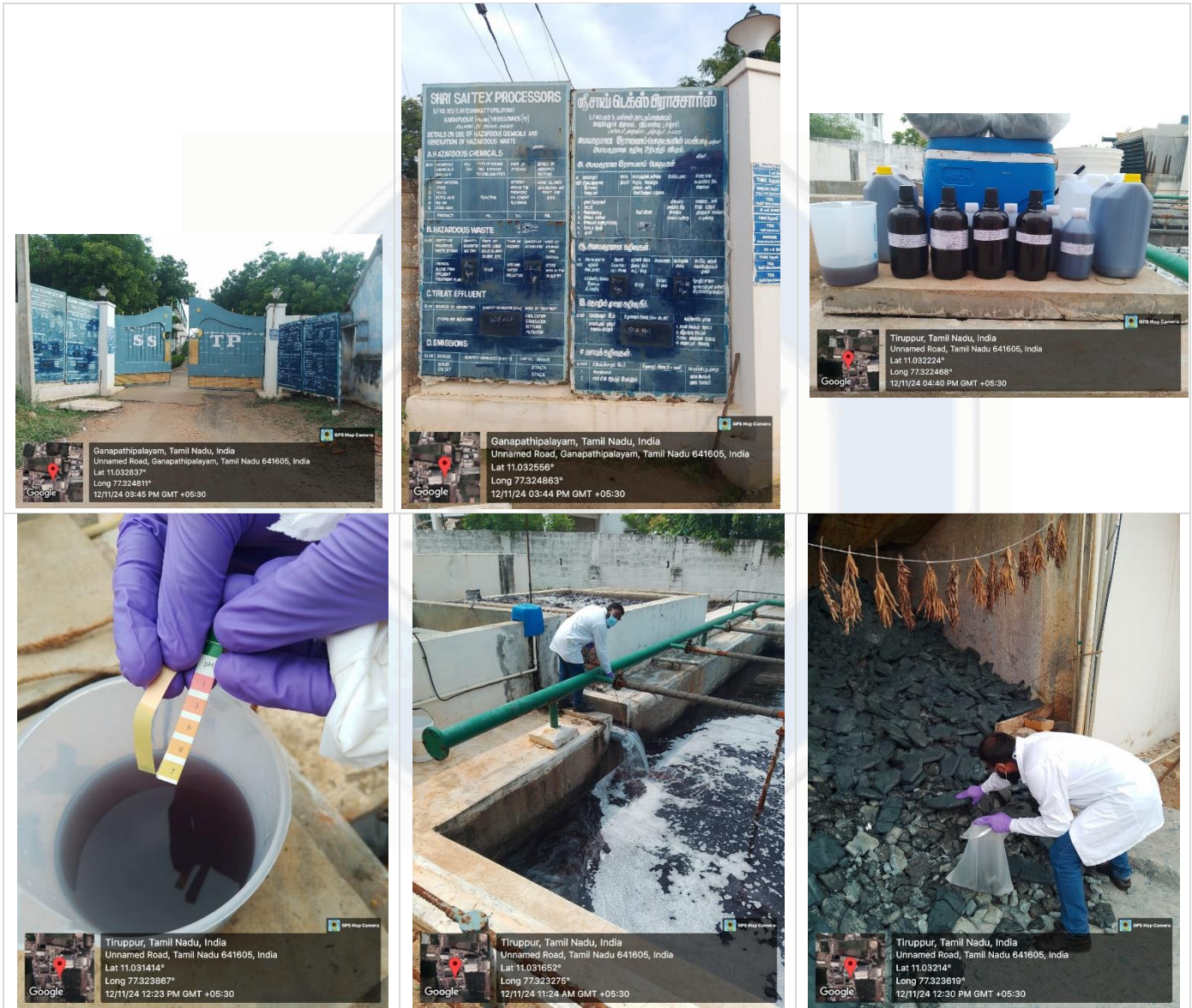
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Sampling Plan

Photo of Sampling points



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Test Results – Accredited Parameters

Sample : Raw Waste Water and Sludge

Table 1: Alkylphenols (AP's) and Alkylphenol Ethoxylates (APEOs):

Test Method : With reference to NP/OP: ISO 18857-2 (modified dichloromethane extraction) & OPEO/NPEO: ISO 18254-1: By Liquid Chromatography – Mass Spectrometry (LC/MS-MS)

Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)	Result (mg/kg)	Reporting Limit (mg/kg)
		Water		Sludge	
Nonylphenol (NP)	104-40-5 11066-49-2 25154-52-3 84852-15-3 90481-04-2	ND	5	ND	0.4
Octylphenol (OP)	140-66-9 1806-26-4 27193-28-8	ND	5	ND	0.4
Nonylphenoethoxylates	9016-45-9 26027-38-3 68412-54-4 127087-87-0 37205-87-1	ND	5	ND	0.4
Octylphenoethoxylates	9002-93-1 9036-19-5 68987-90-6	ND	5	ND	0.4

Detection Limit – Water: 1 µg/L / Sludge: 0.2 mg/kg

Remark: ND = Not detected

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Table 2: Phthalates

Test Method :	Based on US EPA 8270D,ISO 18856, Solvent Extraction followed by Gas Chromatography-Mass Spectrometry (GC-MS/MS) Analysis.
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Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)
Water			
Di-(2-ethyl-hexyl)-phthalate(DEHP)	117-81-7	ND	2
Bis-(2-methoxy-ethyl)-phthalate(DMEP)	117-82-8	ND	2
Di-n-octyl-phthalate(DNOP)	117-84-0	ND	2
Di-iso-decyl-phthalate(DIDP)	26761-40-0 68515-49-1	ND	2
Di-iso-nonyl-phthalate(DINP)	28553-12-0 68515-48-0	ND	2
Di-n-hexyl phthalate (DHP)	84-75-3	ND	2
Di-butyl-phthalate(DBP)	84-74-2	ND	2
Benzyl-butyl-phthalate(BBP)	85-68-7	ND	2
Di-nonyl-phthalate(DNP)	84-76-4	ND	2
Di-ethyl-phthalate(DEP)	84-66-2	ND	2
Di-n-propyl phthalate (DPP)	131-16-8	ND	2
Di-iso-butyl-phthalate(DIBP)	84-69-5	ND	2
Di-cyclohexyl phthalate (DCHP)	84-61-7	ND	2
Di-iso-octyl phthalate (DIOP)	27554-26-3	ND	2
1,2-Benzene-di-carboxylic acid, di-C7,11-branched and linear alkyl esters(DHNUP)	68515-42-4	ND	2
Di-iso-heptyl-phthalate(DIHP)	71888-89-6	ND	2
Dimethylphthalate (DMP)	131-11-3	ND	2
Dihexylphthalates, branched and linear (DHxP)	68515-50-4	ND	2
Di-iso-hexylphthalate (DIHxP)	71850-09-4	ND	2
Di-n-pentylphthalate (DPP)	131-18-0	ND	2
Di-iso-pentylphthalate (DPP)	605-50-5	ND	2
Iso-pentyl-n-pentylphthalate (DPP)	776297-69-9	ND	2
Dipentylphthalate, branched and linear (DPP)	84777-06-0	ND	2

Detection Limit – 2 µg/L

Remark: ND = Not detected

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Table 3: Brominated, Chlorinated and Other Flame Retardants

Test Method :	Based on US EPA 8270, ISO 22032, USEPA 527 & USEPA 8321 B: Solvent Extraction followed by Liquid Chromatography - Mass Spectrometry (LC-MS/MS)* and Gas Chromatography – Mass Spectrometry (GC-MS/MS)** Analysis.
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Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)
		Water	
**Polybromobiphenyls (PBBs)	59536-65-1	ND	Sum 5
**Monobromobiphenyls (MonoBB)	Various	ND	1
**Dibromobiphenyls (DiBB)	Various	ND	1
**Tribromobiphenyls (TriBB)	Various	ND	1
**Tetrabromobiphenyls (TetraBB)	Various	ND	1
**Pentabromobiphenyls (PentaBB)	Various	ND	1
**Hexabromobiphenyls (HexaBB)	Various	ND	1
**Heptabromobiphenyls (HeptaBB)	Various	ND	1
**Octabromobiphenyls (OctaBB)	Various	ND	1
**Nonabromobiphenyls (NonaBB)	Various	ND	1
**Decabromobiphenyls (DecaBB)	13654-09-6	ND	1
**Polybrominated diphenyl ethers (PBDEs)	Various	ND	Sum 5
**Monobromodiphenylethers (MonoBDEs)	Various	ND	1
**Dibromodiphenylethers (DiBDEs)	Various	ND	1
** Tribromodiphenylethers (TriBDEs)	Various	ND	1
**Tetrabromodiphenylethers (TetraBDEs)	Various (40088-47-8)	ND	1
**Pentabromodiphenylethers (PentaBDEs)	Various (32534-81-9)	ND	1
**Hexabromodiphenylethers (HexaBDEs)	Various (36483-60-0)	ND	1
**Heptabromodiphenylethers (HeptaBDEs)	Various (68928-80-3)	ND	1
**Octabromodiphenylethers (OctaBDEs)	Various (32536-52-0)	ND	1
**Nonabromodiphenylethers (NonaBDEs)	Various (63936-56-1)	ND	1
**Decabromodiphenylethers (DecaBDE)	1163-19-5	ND	1
* Tri-(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	ND	1
* Tris-(2-chloroethyl)-phosphate (TCEP)	115-96-8	ND	1
* Hexabromocyclododecane(HBCDD) and all main diastereo-meres identified (alpha-,beta,gama-)	3194-55-6, 13237-50-6, 13423751-7, 134237-52-8, 25637-99-4	ND	1
* Tetra-bromo-bisphenol A (TBBA)	79-94-7	ND	1
* Bis-(2,3-dibromopropyl) phosphate	5412-25-9	ND	1
* 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	ND	1
* Tris-(1,3-di-chloro-iso-propyl)-phosphate(TDCPP)	13674-87-8	ND	1

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Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	ND	25
* Tris(1-aziridinyl)phosphine oxide) (TEPA)	545-55-1	ND	1
Borate, zinc salt	12767-90-7	5.09	100
# Boric acid	10043-35-3 1113-50-1	29.1	100
# Diboron trioxide	1303-86-2	16.4	100
# Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12719-04-3	23.7	100
# Disodium octaborate	12008-41-2	24.3	100
# Tetraboran disodium heptaoxide, hydrate	12267-73-1	25.8	100
Dibromopropylether	21850-44-2	ND	25
Tri-o-cresyl-phospate	78-30-8	ND	1
Trixylyl phosphate	25155-23-1	ND	1

denotes determined as total boran
Detection Limit – 1 µg/L
Remark: ND = Not detected



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Table 4: Hazardous Colorants – Arylamines (Released from Azo colorants or in free manner)

Test Method :	Based on EN 14362:1:2017 & EN 14362-3:2017 , By Gas Chromatography - Mass Spectrometric (GC-MS/MS) and High Performance Liquid Chromatography (UPLC-DAD) Analysis.
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Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)
			Water
4,4'-methyl-ene-bis-(2-chloro-aniline)	101-14-4	ND	0.1
4,4'-methylenedianiline	101-77-9	ND	0.1
4,4'-oxydianiline	101-80-4	ND	0.1
4-chloroaniline	106-47-8	ND	0.1
3,3'-dimethoxybenzidine	119-90-4	ND	0.1
3,3'-dimethylbenzidine	119-93-7	ND	0.1
p-Cresidine; 6-Methoxy-m-toluidine	120-71-8	ND	0.1
2,4,5-trimethylaniline	137-17-7	ND	0.1
4,4'-thiodianiline	139-65-1	ND	0.1
4-aminoazobenzene	60-09-3	ND	0.1
4-methoxy-m-phenylenediamine	615-05-4	ND	0.1
4,4'-methylene-di-o-toluidine	838-88-0	ND	0.1
2,6-xylidine	87-62-7	ND	0.1
o-Anisidine (2-Methoxyaniline)	90-04-0	ND	0.1
2-Naphthylamine	91-59-8	ND	0.1
3,3'-dichlorobenzidine	91-94-1	ND	0.1
4-aminodiphenyl	92-67-1	ND	0.1
Benzidine	92-87-5	ND	0.1
o-toluidine	95-53-4	ND	0.1
2,4-xylidine	95-68-1	ND	0.1
4-chloro-o-toluidine	95-69-2	ND	0.1
2,4-Toluyldiamine	95-80-7	ND	0.1
o-aminoazotoluene	97-56-3	ND	0.1
2-Amino-4-nitrotoluene	99-55-8	ND	0.1

Detection Limit – 0.1 µg/L

Remark: ND = Not detected

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Table:5 Hazardous Colorants – (Carcinogenic, Allergenic or Banned for other reasons)

Test Method:	LAB_P_SOP_373, Solvent Extraction followed by Liquid Chromatography - Mass Spectrometry (LC-MS/MS)
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Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)
Water			
Disperse Yellow 1	119-15-3	ND	1
Disperse Blue 102	12222-97-8	ND	1
Disperse Blue 106	12223-01-7	ND	1
Disperse Yellow 39	12236-29-2	ND	1
Disperse Orange 37/59/76	13301-61-6	ND	1
Disperse Brown 1	23355-64-8	ND	1
Disperse Orange 1	2581-69-3	ND	1
Disperse Yellow 3	2832-40-8	ND	1
Disperse Red 11	2872-48-2	ND	1
Disperse Red 1	2872-52-8	ND	1
Disperse Red 17	3179-89-3	ND	1
Disperse Blue 7	3179-90-6	ND	1
Disperse Blue 26	3860-63-7	ND	1
Disperse Yellow 49	54824-37-2	ND	1
Disperse Blue 3	2475-46-9	ND	1
Disperse Blue 124	61951-51-7	ND	1
Disperse Yellow 9	6373-73-5	ND	1
Solvent Yellow 3 (o-Aminoazotoluene (Pure))	97-56-3	ND	1
Disperse Blue 35	56524-77-7	ND	1
C.I. Direct Black 38	1937-37-7	ND	1
C.I. Direct Blue 6	2602-46-2	ND	1
C.I. Acid Red 26	3761-53-3	ND	1
C.I. Basic Red 9	569-61-9	ND	1
C.I. Direct Red 28	573-58-0	ND	1
C.I. Basic Violet 14	632-99-5	ND	1
C.I. Disperse Blue 1	2475-45-8	ND	1
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	ND	1
C.I. Basic Green 4 (malachite greenchloride)	569-64-2	ND	Sum 1
C.I. Basic Green 4 (malachite green oxalate)	2437-29-8 18015-76-4	ND	
C.I. Basic Green 4 (malachite green)	10309-95-2	ND	
Disperse Orange 11	82-28-0	ND	1
Disperse Blue 35	12222-75-2	ND	1
Disperse Orange 3	730-40-5	ND	1
C.I. Acid Red 114	6459-94-5	ND	1
C.I. Acid violet 49	1694-09-3	ND	1

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C.I. Basic Violet 1	8004-87-3	ND	1
C.I. Direct Blue 15	2429-74-5	ND	1
C.I. Direct Blue 218	28407-37-6	ND	1
C.I. Direct Brown 95	16071-86-6	ND	1
C.I. Disperse Blue 35 (Component 2)	56524-76-6	ND	1
C.I. Disperse Orange 149	85136-74-9	ND	1
C.I. Disperse yellow 39	12236-29-2	ND	1
C.I. Solvent Yellow 1 (4- Aminobenzene (pure); Aniline Yellow)	60-09-3	ND	1
C.I. Solvent Yellow 2 (C.I. 11020)	60-11-7	ND	1
C.I. Solvent Yellow 14	842-07-09	ND	1
C.I. Basic Violet 3	548-62-9	ND	1
C.I. Disperse Yellow 23 (C.I. 26070)	6250-23-3	ND	1
C.I. Solvent Blue 4	6786-83-0	ND	1
C.I. Solvent Violet 8	561- 41-1	ND	1
C.I. Basic Yellow 2/Solvent Yellow 34	2465-27-2	ND	-
Navy blue, index no. 611-070-00- 2 (Component 1 & 2)	118685-33-9	ND	500

Detection Limit – 1 µg/L

Remark: ND = Not detected

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Table 6: Organotin Compounds

Test Method :	Based on ISO 17353: 2004 followed by Gas Chromatography-Mass Spectrometry (GC-MS/MS) Analysis.
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Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)
Water			
Monomethyl tin	993-16-8	ND	0.01
Dimethyltin	753-73-1	ND	0.01
Trimethyl tin	Various	ND	0.01
Mono Butyltin	Various	ND	0.01
Dibutyltin	Various (683-18-1)	ND	0.01
Monophenyltin	1124-19-12	ND	0.01
Diphenyltin	Various (1011-95-6)	ND	0.01
Trioctyltin	Various	ND	0.01
Tributyltin	Various	ND	0.01
Triphenyltin	Various (668-34-8)	ND	0.01
Monooctyltin	Various	ND	0.01
Diocetyl tin	Various	ND	0.01
Tetrabutyltin	1461-25-2	ND	0.01
Tetraethyltin	597-64-8	ND	0.01
Tricyclohexyltin	Various	ND	0.01
Tripropyltin	Various	ND	0.01
Dipropyltin	Various 867- 36-7	ND	0.01
Tetraoctyltin compounds (TeOT)	Various	ND	0.01

Detection Limit – 0.01 µg/L
Remark: ND = Not detected

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Table 7: PFC's, Per- and Polyfluorinated Compounds

Test Method :	DIN 38407-42:2011 (modified) Ionic PFC: Concentration or direct injection, LC-MS/MS); Non-ionic PFC (FTOH): derivatisation with acetic anhydride followed by GC-MS/MS
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Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)
		Water	
Perfluorooctane sulfonic acid and sulphonates (PFOS)	Various 1763-23-1	ND	10.0
Perfluorooctane sulfonamide (PFOSA)	754-94-1	ND	0.1
Perfluorooctane sulfonyl fluoride (PFOSF/ POSF)	307-35-7	ND	0.01
N-Methyl Perfluorooctane sulfonamide (N-Me-FOSA)	31506-32-8	ND	0.1
N-Ethyl Perfluorooctane sulfonamide (N-Et-FOSA)	4151-50-2	ND	0.1
N-Methyl Perfluorooctane sulfonamide ethonal (N-Me-FOSA)	24448-09-7	ND	0.1
N-Ethyl Perfluorooctane sulfonamide ethonal (N-Et-FOSA)	1691-99-2	ND	0.1
Perfluoroheptanoic acid (PFHpA) and salts	Various 375-85-9	ND	0.01
Perfluorooctanoic acid (PFOA) and salts	Various 335-67-1	ND	50
Perfluorononanoic acid (PFNA) and salts	Various 375-95-1	ND	0.01
Perfluorodecanoic acid (PFDA) and salts	Various 335-76-2	ND	0.01
Henicosafleuroundecanoic acid (Perfluorodecanoic acid; PFUdA) and salts	Various 2058-94-8	ND	0.01
Tricosafleurodecanoic acid (Perfluorododecanoic acid; PFDoA) and salts	Various 307-55-1	ND	0.01
Pentacosafleurotridecanoic acid (Perfluorotridecanoic acid; PFTTrDA) and salts	Various 7269-94-8	ND	0.01
Heptacosafleurotetradecanoic acid (Perfluorotetradecanoic acid; PFTeDA) and salts	Various 376-06-7	ND	0.01
Perfluorobutanoic acid (PFBA) and salts	Various 37522-4	ND	0.01
Perfluoropentanoic acid (PFPeA) and salts	Various 2706-90-3	ND	0.01
Perfluorohexanoic acid (PFHxA) and salts	Various 307-24-4	ND	0.01
Perfluoro (3,7-dimethyloctanoic acid) (PF-3,7-DMOA) and salts	Various 172155-07-6	ND	0.01
Perfluorobutane sulfonic acid (PFBS) and salts	Various 375-73-5 59933-66-3	ND	0.01
Perfluorohexane sulfonic acid (PFHxS) and salts	Various 355-46-4	ND	0.01

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Perfluoroheptane sulfonic acid (PFHpS) and salts	Various 375-92-8	ND	0.01
Henicosafuorodecane sulfonic acid (Perfluorodecane sulfonic acid, PFDS) and salts	Various 335-77-3	ND	0.01
7H-Perfluoroheptanoic acid (7HPFHpA) and salts	Various 1546-95-8	ND	0.01
2H,2H,3H,3H-Perfluoroundecanoic acid (4HPFUnA) and salts	Various 34598-33-9	ND	0.01
1H,1H,2H,2H-Perfluorooctane sulfonic acid (1H,1H,2H,2H-PFOS) and salts	Various 27619-97-2	ND	0.01
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	ND	1
1H,1H,2H,2H-perfluoro-1-decanol (8:2 FTOH)	678-39-7	ND	1
1H,1H,2H,2H-perfluoro-1-octanol (6:2 FTOH)	647-42-7	ND	1
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	ND	1
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	ND	1
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9	ND	1
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	ND	1

Detection Limit – 0.01 µg/L

Remark: ND = Not detected

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Table 8: Chlorobenzenes and Chlorotoluenes

Test Method :	Based on USEPA 8260B & 8270D: Dichloromethane extraction followed By Gas Chromatography-Mass Spectrometry (GC-MS/MS).
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Compound(s)	CAS No.	Result (µg/L)		Reporting Limit (µg/L)		Result (mg/kg)		Reporting Limit (mg/kg)	
		Water	Sludge	Water	Sludge	Water	Sludge	Water	Sludge
Chlorobenzene	108-90-7	ND	0.1	-	-	-	-	-	-
1,2-Dichlorobenzene	95-50-1	ND	0.1	-	-	-	-	-	-
1,3-Dichlorobenzene	541-73-1	ND	0.1	-	-	-	-	-	-
1,4-Dichlorobenzene	106-46-7	ND	0.1	-	-	-	-	-	-
1,2,3-Trichlorobenzene	87-61-6	ND	0.1	-	-	-	-	-	-
1,2,4-Trichlorobenzene	120-82-1	ND	0.1	-	-	-	-	-	-
1,3,5-Trichlorobenzene	108-70-3	ND	0.1	-	-	-	-	-	-
1,2,3,4-Tetrachlorobenzene	634-66-2	ND	0.1	-	-	-	-	-	-
1,2,3,5-Tetrachlorobenzene	634-90-2	ND	0.1	-	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	95-94-3	ND	0.1	-	-	-	-	-	-
Pentachlorobenzene	608-93-5	ND	0.1	-	-	-	-	-	-
Hexachlorobenzene	118-74-1	ND	0.1	-	-	-	-	-	-
2-Chlorotoluene	95-49-8	ND	0.1	ND	0.2	ND	0.2	ND	0.2
3-Chlorotoluene	108-41-8	ND	0.1	ND	0.2	ND	0.2	ND	0.2
4-Chlorotoluene	106-43-4	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,3-Dichlorotoluene	32768-54-0	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,4-Dichlorotoluene	95-73-8	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,5-Dichlorotoluene	19398-61-9	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,6-Dichlorotoluene	118-69-4	ND	0.1	ND	0.2	ND	0.2	ND	0.2
3,4-Dichlorotoluene	95-75-0	ND	0.1	ND	0.2	ND	0.2	ND	0.2
3,5-Dichlorotoluene	25186-47-4	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,3,4-Trichlorotoluene	7359-72-0	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,3,6-Trichlorotoluene	2077-46-5	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,4,5-Trichlorotoluene	6639-30-1	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,4,6-Trichlorotoluene	23749-65-7	ND	0.1	ND	0.2	ND	0.2	ND	0.2
3,4,5-Trichlorotoluene	21472-86-6	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,3,4,5-Tetrachlorotoluene	76057-12-0	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,3,5,6-Tetrachlorotoluene	29733-70-8	ND	0.1	ND	0.2	ND	0.2	ND	0.2
2,3,4,6-Tetrachlorotoluene	875-40-1	ND	0.1	ND	0.2	ND	0.2	ND	0.2
Pentachlorotoluene	877-11-2	ND	0.1	ND	0.2	ND	0.2	ND	0.2
Alpha, alpha, alpha-Trichlorotoluene	98-07-7	ND	0.1	ND	0.2	ND	0.2	ND	0.2
Alpha,2,4-Trichlorotoluene	94-99-5	ND	0.1	ND	0.2	ND	0.2	ND	0.2
Alpha,2,6-Trichlorotoluene	2014-83-7	ND	0.1	ND	0.2	ND	0.2	ND	0.2
Alpha,3,4-Trichlorotoluene	102-47-6	ND	0.1	ND	0.2	ND	0.2	ND	0.2
Alpha,alpha,2,6-Tetrachlorotoluene	81-19-6	ND	0.1	ND	0.2	ND	0.2	ND	0.2
Alpha,alpha,alpha,2-Tetrachlorotoluene	2136-89-2	ND	0.1	ND	0.2	ND	0.2	ND	0.2
Alpha,alpha,alpha,4-Tetrachlorotoluene	5216-25-1	ND	0.1	ND	0.2	ND	0.2	ND	0.2

Detection Limit – Water: 0.1 µg/L / Sludge: 0.01 mg/kg

Remark: ND = Not detected
NA = Not Applicable

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Table 9: Chlorinated and Other solvents

Test Method : Based on ISO 11423-1/ USEPA 8260 Purge and Trap GC- MS/MS

Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)
		Water	
*Dichloromethane	75-09-2	ND	1
*Trichloromethane (Chloroform)	67-66-3	ND	1
*Tetrachloromethane (Carbontetrachloride)	56-23-5	ND	1
*Chlorinated ethanes and ethenes	Various	ND	1
*1,1-Dichloroethane	75-34-3	ND	1
*1,2-Dichloroethane	107-06-02	ND	1
*1,1,1-Trichloroethane	71-55-6	ND	1
*1,1,2-Trichloroethane	79-00-5	ND	1
*1,1,1,2-Tetrachloroethane	630-20-6	ND	1
*1,1,2,2-Tetrachloroethane	79-34-5	ND	1
*Pentachloroethane	76-01-7	ND	1
*1,1-Dichloroethylene	75-35-4	ND	1
	540-59-0,156-60-5		
*1,2-Dichloroethylene, cis and trans	156-59-2	ND	1
*Trichloroethylene	79-01-06	ND	1
*Tetrachloroethylene	127-18-4	ND	1
*1,2,3-Trichloropropane	96-18-4	ND	1
*Hexachlorobutadiene	87-68-3	ND	1
**Methyl-ethyl ketone	78-93-3	ND	10
*Ethylbenzene	100-41-4	ND	1
*Xylene	1330-20-7	ND	1
*o-Xylene	95-47-6	ND	1
*m-Xylene	108-38-3	ND	1
*p-Xylene	106-42-3	ND	1
**Cyclohexanone	108-94-1	ND	10
2-Ethoxyethyl acetate	111-15-9	ND	10
**Acetophenone	98-86-2	ND	10
**2-Phenyl-2-propanole	617-94-7	ND	10
*Bis (2-methoxyethyl) ether	111-96-6	ND	1
*Styrene	100-42-5	ND	1
*Benzene	71-43-2	ND	1
*Toluene	108-88-3	ND	1
**1-Methyl-2-pyrrolidone (NMP)	872-50-4	ND	10
**N,N-Dimethylacetamide (DMAc)	127-19-5	ND	10
**N,N-Dimethylformamide (DMF)	68-12-2	ND	10
**2-Ethoxyethanol	110-80-5	ND	50
**Ethylene glycol dimethyl ether (EGDME)	110-71-4	ND	50
**2 Methoxyethanol	109-86-4	ND	50

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**2 Methoxyethylacetate	110-49-6	ND	50
**2-Methoxypropylacetate	70657-70-4	ND	50
**Triethylene glycol dimethyl ether (Tegdme, triglyme)	112-49-2	ND	50

Detection Limit – *1.0 µg/L, **10 µg/L

Remark: ND = Not detected

Table 10: Chlorophenols

Test Method :	Based on USEPA 8270 D, Solvent Extraction, derivatization with KOH,acetic anhydride followed by By Gas Chromatography-Mass Spectrometry (GC-MS/MS).
---------------	---

Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)
Water			
2-chlorophenol	95-57-8	ND	0.5
3-chlorophenol	108-43-0	ND	0.5
4-chlorophenol	106-48-9	ND	0.5
2,3-dichlorophenol	576-24-9	ND	0.5
2,4-dichlorophenol	120-83-2	ND	0.5
2,5-dichlorophenol	583-78-8	ND	0.5
2,6-dichlorophenol	87-65-0	ND	0.5
3,4-dichlorophenol	95-77-2	ND	0.5
3,5-dichlorophenol	591-35-5	ND	0.5
2,3,4-trichlorophenol	15950-66-0	ND	0.5
2,3,5-trichlorophenol	933-78-8	ND	0.5
2,3,6-trichlorophenol	933-75-5	ND	0.5
2,4,5-trichlorophenol	95-95-4	ND	0.5
2,4,6-trichlorophenol	88-06-2	ND	0.5
3,4,5-trichlorophenol	609-19-8	ND	0.5
2,3,4,5-tetrachlorophenol	4901-51-3	ND	0.5
2,3,4,6-tetrachlorophenol	58-90-2	ND	0.5
2,3,5,6-tetrachlorophenol	935-95-5	ND	0.5
Pentachlorophenol	87-86-5	ND	0.5

Detection Limit – 0.5 µg/L

Remark: ND = Not detected

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Table 11: Chlorinated Paraffines

Test Method : Based on EN ISO 18219-1&2:2021 followed by By GC-MS-NCI

Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)
			Water
Short-chain chlorinated paraffins (SCCP) – C10-13	85535-84-8	ND	5
Medium-chain chlorinated paraffins (MCCP), C14-17	85535-85-9	ND	5

Detection Limit – 5 µg/L

Remark: ND = Not detected

Table 12: Heavy Metals and Their Compounds

Parameter	Method	Results (µg/L)	Limit Values (µg/L)	
Heavy Metals			Water	
Antimony	LAB_P_SOP_384	<1.0	100	
Arsenic		<1.0	50	
Lead		2.0	100	
Cadmium		0.002	100	
Chromium		<1.0	200	
Cobalt		<1.0	50	
Copper		210	1000	
Nickel		0.21	200	
Mercury		<0.05	10	
Zinc		0.097	5000	
Manganese		0.030	-	
Silver		<1.0	100	
Chromium (VI)		EN ISO 18412 -2005, USEPA 218.6	<1.0	50

Detection Limit – Cadmium: 0.1 µg/L, Mercury: 0.05 µg/L, Zinc: 5 µg/L Others: 1.0 µg/L

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Table 12: Heavy Metals and Their Compounds

Parameter	Method	Results (mg/kg)	Limit Values (mg/kg)	
Heavy Metals		Sludge		
Antimony	LAB_P_SOP_384	<2.0	-	
Arsenic		<2.0	-	
Lead		<2.0	-	
Cadmium		<2.0	-	
Chromium		49.8	-	
Cobalt		<2.0	-	
Copper		236	-	
Nickel		9.7	-	
Mercury		<0.2	-	
Zinc		179	-	
Manganese		114	-	
Silver		<2.0	-	
Chromium (VI)		EN ISO 18412 -2005, USEPA 218.6	<2.0	-

Detection Limit = Mercury -0.2 mg/kg and Others 2 mg/kg

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Table 14: Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method :	Based on US EPA 8270, DIN 38407-39:2011 Solvent extraction followed Gas Chromatography – Mass Spectrometry (GC-MS) Analysis.
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Compound(s)	CAS No.	Result (µg/L)		Reporting Limit (µg/L)	
		Water	Sludge	Water	Sludge
Benzo[a]pyrene (BaP)	50-32-8	ND	1	ND	0.2
Anthracene	120-12-7	ND	1	ND	0.2
Pyrene	129-00-0	ND	1	ND	0.2
Benzo[ghi]perylene	191-24-2	ND	1	ND	0.2
Benzo[e]pyrene	192-97-2	ND	1	ND	0.2
Indeno[1,2,3-cd]pyrene	193-39-5	ND	1	ND	0.2
Benzo[j]fluoranthene	205-82-3	ND	1	ND	0.2
Benzo[b]fluoranthene	205-99-2	ND	1	ND	0.2
Fluoranthene	206-44-0	ND	1	ND	0.2
Benzo[k]fluoranthene	207-08-9	ND	1	ND	0.2
Acenaphthylene	208-96-8	ND	1	ND	0.2
Chrysene	218-01-9	ND	1	ND	0.2
Dibenz[a,h]anthracene	53-70-3	ND	1	ND	0.2
Benzo[a]anthracene	56-55-3	ND	1	ND	0.2
Acenaphthene	83-32-9	ND	1	ND	0.2
Phenanthrene	85-01-8	ND	1	ND	0.2
Fluorene	86-73-7	ND	1	ND	0.2
Naphthalene	91-20-3	ND	1	ND	0.2

Detection Limit – Water: 1 µg/L / Sludge: 0.1 mg/kg

Remark: ND = Not detected

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Test Results – Non Accredited Parameters

Table 15: Others Substances

Test Method : Cresols:Based on ISO 11423-1/ USEPA 8260 Purge and Trap GC- MS/MS;
Cyanide: Sludge: APHA 24th Edition 2023-4500 CN C,E / Water: IS 3025 (Part 27):Sec 1:2021

Compound(s)	CAS No.	Result (µg/L)	Reporting Limit (µg/L)	Result (mg/kg)	Reporting Limit (mg/kg)
		Water		Sludge	
Aminoethylethanolamine (AEEA)	111-41-1	ND	500		
Bisphenol A (P)	80-05-7	ND	10		
o-Cresol	95-48-7	ND	1		
m-Cresol	108-39-4	ND	1		
p-Cresol	106-44-5	ND	1		
Permethrin	Various 52645-53-1	ND	500		
o-Phenylphenol (OPP)	90-43-7	ND	100		
Quinoline	91-22-5	ND	50		
Thiourea	62-56-6	ND	50		
Triclosan	3380-34-5	ND	100		
2,4,5-Trimethylaniline hydrochloride	21436-97-5	ND	0.1		
2,4-Diaminoanisole sulphate	39156-41-7	ND	0.1		
2-Naphthaylammonium acetate	553-00-4	ND	0.1		
4-Chlor-o-toluidinium chloride (Azoic Diazo Component 11)	3165-93-3	ND	0.1		
2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND	100		
2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	ND	100		
2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND	100		
2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	ND	100		
Compound(s)	CAS No.	Result (mg/L)	Reporting Limit (mg/L)	Result (mg/kg)	Reporting Limit (mg/kg)
Cyanide ##	57-12-5	ND	0.01	ND	1

Detection Limit – Water: 1 µg/L / 0.001 mg/L, Sludge: 0.1 mg/kg

Remark: ND = Not detected
NA = Not Applicable

Tests subcontracted to ISO/IEC 17025 approved Laboratory

Laboratory:
TÜV SÜD South Asia Pvt. Ltd.
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TEST REPORT

Test Report: RPT/T(W)/24/016368

Date: November 29, 2024



FIELD DATA RECORD ZERO DISCHARGE SAMPLE FOR PRIORITY CHEMICALS

FIELD DATA SHEET FOR WASTEWATER & SLUDGE



Wastewater Flow Device Dimension				
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)
Diameter				
Depth				

Wastewater Sampling Field Testing QA/QC			
Parameter	LCS Known	LCS Measured	Accuracy %
pH			
Total Chlorine			

Field Data for Water/Sludge								
Equipment used								
Factory with effluent treatment plant	Yes <input checked="" type="checkbox"/>				No			
Sample matrix	Incoming water							
	Raw wastewater							
	Discharged wastewater							
	Treated wastewater							
Field Parameters	0	1	2	3	4	5	6	
Recording Time, Hrs.	10.30 am	11.25 am	12.30 pm	1.15 pm	2.30 pm	3.20 pm	4.25 pm	
pH	8.0	8.5	8.0	8.0	8.5	9.0	8.0	
Temp(°C)	40°C	45°C	45°C	50°C	50°C	50°C	50°C	
Conductivity, µS/cm								
Color	Dark	Dark	Dark	Dark	Dark	Dark	Dark	
Persistent foam								
Sample Container Number								
Volume Collected (ml)	3000	3000	2000	3000	3000	3000	3000	
Total Volume Collected (ml)	21000	Remark: Total volume collected must be greater than total of sample size required						

Sampling By: K. Abdul Aziz
(Full name)

Date: 12/11/2024

Prepared By: Saleemrja A
Document No.: LAB_F_344

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Approved by: Anun.C
Issued on: 12/04/2023

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Revision Date: 12/01/2024

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Page 2 of 8

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TEST REPORT

Test Report: RPT/T(W)/24/016368

Date: November 29, 2024



Analysis Required and Preservation Method				
Test	Test Required	Total of Sample Size	Type of Container	Preservation Method
1. Conventional parameters/Heavy Metals		5 Ltr	Amber Glass, pre-add 6.5 ml of 2M HNO ₃	Acidify to pH 2 with HNO ₃ and store at 4° C
2. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers		1 Ltr	Amber Glass, pre-add 6.5 ml of 1M H ₂ SO ₄ Amber Glass, pre-add 6.5 l of 1M H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ and store at 4°C
3. Chlorobenzenes and Chlorotoluenes				
4. Chlorophenols				
5. Dyes – Azo (Forming Restricted Amines)				
6. Dyes – Carcinogenic or Equivalent				
7. Dyes – Disperse (Sensitizing)				
8. Flame Retardants				
9. Glycols				
10. Halogenated Solvents		1 Ltr	Amber Glass, pre-add 6.5 ml of 2M HNO ₃	Acidify to pH 2 with H ₂ SO ₄ and store at 40C
11. Organotin Compounds		1 Ltr	Amber Glass, pre-add 6.5 ml of 1M H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ and store at 4°C
12. Perfluorinated and Polyfluorinated Chemicals (PFCs)		1 Ltr	PE, pre-add 3.4 ml of 1M H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ and store at 4°C
13. Ortho-Phthalates – Including all ortho esters of phthalic acid		1 Ltr	Amber Glass, pre-add 6.5 ml of 1M H ₂ SO ₄	Acidify to pH 2 with H ₂ SO ₄ and store at 4°C
14. Polycyclic Aromatic Hydrocarbons (PAHs)		1 Ltr		
15. Volatile Organic Compounds (VOC)		1 Ltr	Amber Glass, wash with pesticide grade acetone	Fill to full bottle and store at 4°C

END OF THE REPORT

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