

# QUALITY CERTIFIED™

## Certificate of Compliance

The enclosed containers have been chemically cleaned by using the specified USEPA cleaning procedures for low level chemical analysis. Representative containers have been tested by independent certified laboratories for their appropriate use. ESS containers meet and exceed the required detection limits established by the USEPA in SPECIFICATIONS AND GUIDANCE FOR CONTAMINANT-FREE SAMPLE CONTAINERS (OSWER Directive #9240.0-05A).

### EXTRACTABLE ORGANIC COMPOUNDS (PROCEDURE 1)

Analyte	Quantitation Limit (ug/L)	Gamma-Chlordane	<0.005	Hexachloroethane	<1	2,6-Dinitrotoluene	<1	Butylbenzylphthalate	<1	
<b>PESTICIDES/PCB'S</b>		Toxaphene	<0.005	Nitrobenzene	<1	3-Nitroaniline	<1	1,2'-Dichlorobenzene	<1	
		Aroclor-1016	<0.2	Isophorone	<1	Acenaphthene	<0.2	1,3'-Dichlorobenzene	<1	
		Alpha-BHC	<0.005	Aroclor-1221	<0.2	2-Nitrophenol	<1	1,4'-Dichlorobenzene	<1	
		Beta-BHC	<0.005	Aroclor-1232	<0.2	2,4-Dimethylphenol	<1	3,3'-Dichlorobenzidine	<1	
		Delta-BHC	<0.005	Aroclor-1242	<0.2	bis-(2-Chloroethoxy) methane	<1	Benzo[a]anthracene	<0.15	
		Gamma-BHC (Lindane)	<0.005	Aroclor-1248	<0.2	2,4-Dichlorophenol	<1	Chrysene	<0.1	
		Heptachlor	<0.005	Aroclor-1254	<0.2	1,2,4-Trichlorobenzene	<1	Diethylphthalate	<1	
		Aldrin	<0.005	Aroclor-1260	<0.2	Naphthalene	<0.2	4-Chlorophenyl-Phenylether	<1	
		Heptachlor Epoxide	<0.005	Aroclor-1262	<0.2	4-Chloroaniline	<1	Flourene	<0.15	
		Endosulfan I	<0.005	Aroclor-1268	<0.2	Hexachlorobutadiene	<1	4-Nitroaniline	<1.5	
		Dieldrin	<0.005		4-Chloro-3-Methylphenol	<1	4,6-Dinitro-2-Methylphenol	<1	Benzo[k]fluoranthene	<0.15
		4,4'-DDE	<0.005	<b>SEMIVOLATILES</b>	2-Methylnaphthalene	<0.2	N-Nitrosodiphenylamine	<1	Benzo[a]pyrene	<0.15
		Endrin	<0.005	Phenol	Hexachlorocyclopentadiene	<1	N-Nitrosodimethylamine	<1	Indeno(1,2,3-cd)pyrene	<0.2
		Endosulfan II	<0.005	bis-(2-Chloroethyl) ether	2,4,6-Trichlorophenol	<1	4-Bromophenyl-Phenylether	<1	Dibenzo[a,h]anthracene	<0.15
		4,4'-DDD	<0.005	bis-(2-Chloroisopropyl) ether	2,4,5-Trichlorophenol	<1	Hexachlorobenzene	<1	Benzo[g,h,i]perylene	<0.15
	Endosulfan Sulfate	<0.005	2-Chlorophenol	1,2-Diphenylhydrazene	<1	Pentachlorophenol	<1	Benzoic Acid	<5	
	4,4'-DDT	<0.005	2-Methylphenol	Carbazole	<1	Phenanthrene	<0.2	Benzyl Alcohol	<1	
	Methoxychlor	<0.005	2,2'-Oxybis-(1-Chloropropane)	2-Chloronaphthalene	<0.15	Anthracene	<0.1	Oil and Grease	<5000	
	Endrin Ketone	<0.005	4-Methylphenol	2-Nitroaniline	<1	Di-n-Butylphthalate	<0.2	<b>TPH Diesel</b>	<b>&lt;50.00</b>	
	Endrin Aldehyde	<0.005	N-Nitroso-di-n-propylamine	Dimethylphthalate	<1	Fluoroanthene	<0.1			
	Alpha-Chlordane	<0.005		Acenaphthylene	<0.2	Pyrene	<0.15			

### PURGEABLE VOLATILE ORGANIC COMPOUNDS (PROCEDURE 2)

Analyte	Quantitation Limit (ug/L)	Chlorobenzene	<0.1	1,1-Dichloroethane	<0.1	4-Isopropyltoluene	<0.1	Trichlorotrifluoroethane	<0.1
		Chloroethane	<0.1	1,2-Dichloroethane	<0.1	Methylene Chloride	<0.5	1,2,3-Trichloropropane	<0.1
Acetone	<2.0	Chloromethane	<0.1	1,1-Dichloroethene	<0.1	Napthalene	<0.5	1,2,3-Trimethylbenzene	<0.1
Benzene	<0.1	2-Chlorotoluene	<0.1	cis-1,2-Dichloroethene	<0.1	Propylbenzene	<0.1	1,2,4-Trimethylbenzene	<0.1
Bromoform	<0.1	4-Chlorotoluene	<0.1	trans-1,2-Dichloroethene	<0.1	Styrene	<0.1	1,3,5-Trimethylbenzene	<0.1
Bromobenzene	<0.1	2,4-Chlorotoluene	<0.2	1,2-Dichloropropane	<0.1	1,1,1,2-Tetrachloroethane	<0.1	Vinyl Acetate	<0.5
Bromochloromethane	<0.1	Chloroform	<0.1	1,3-Dichloropropane	<0.1	1,1,2,2-Tetrachloroethane	<0.1	Vinyl Chloride	<0.1
Bromodichloromethane	<0.1	Dibromomethane	<0.1	2,2-Dichloropropane	<0.1	Tetrachloroethene	<0.1	Methyl-Tert-Butyl-Ether	<0.1
Bromomethane	<0.1	1,2-Dibro 3-Chloropropane	<0.1	1,1-Dichloropropene	<0.1	Toluene	<0.1	4-Methyl-2-pentanone	<0.5
z-Butylbenzene	<0.1	Dibromochloromethane	<0.1	cis-1,3-Dichloropropene	<0.1	1,2,3-Trichlorobenzene	<0.1	ethyl-tert-butylether	<0.1
n-Butylbenzene	<0.1	1,2-Dibromoethane (EDB)	<0.1	trans-1,3-Dichloropropene	<0.1	1,2,4-Trichlorobenzene	<0.1	tert-arylmethylether	<0.1
sec-Butylbenzene	<0.1	1,2-Dichlorobenzene	<0.1	Ethylbenzene	<0.1	1,1,1-Trichloroethane	<0.1	diisopropylether	<0.1
tert-Butylbenzene	<0.1	1,3-Dichlorobenzene	<0.1	2-Hexanone	<0.5	1,1,2-Trichloroethane	<0.1	tert-butanol	<0.1
Carbon Tetrachloride	<0.1	1,4-Dichlorobenzene	<0.1	Hexachlorobutadiene	<0.1	Trichloroethene	<0.1	o-xylene	<0.1
Carbon Disulfide	<0.1	Dichlorodifluoromethane	<0.1	Isopropylbenzene	<0.1	Trichlorofluoromethane	<0.1	m-xylene(1)	<0.2
								p-xylene(1)	<0.2
								<b>TPH as Gasoline</b>	<b>&lt;50.00</b>

### METALS & SULFIDE COMPOUNDS (PROCEDURE 3)

Analyte	Detection Limit (ug/L)	Barium	<0.03	Iron	<3	Molybdenum	<0.5	Sodium	<6
		Beryllium	<0.01	Lead	<0.05	Nickel	<0.05	Thallium	<0.09
Aluminum	<0.5	Cadmium	<0.03	Magnesium	<4	Potassium	<50	Zinc	<0.3
Antimony	<0.03	Chromium	<0.06	Manganese	<0.1	Selenium	<0.5	Flouride	<100
Arsenic	<0.01	Copper	<0.08	Mercury	<0.2	Silver	<0.02	Nitrate + Nitrite	<50

This certificate only applies to the enclosed containers and not to any added preservative (except HCL vials). ESS uses only Analytical Grade chemicals. All ESS PrePreserved® containers include a case label with the reagent manufacturer and their lot number. Chemical C of A's can be found online using their lot number. For additional assistance or questions, call 800 233-8424 or email at: [essorders@essvial.com](mailto:essorders@essvial.com).

## ON-TIME PRODUCTS FOR ENVIRONMENTAL SAMPLING & ANALYSIS



ENVIRONMENTAL SAMPLING SUPPLY

ESS PRODUCT NUMBER

PRODUCT LOT NUMBER

For more information on our cleaning & monitoring procedures, please call

1-800-233-8425

[www.essvial.com](http://www.essvial.com)