Test Report

REPORT NO 1001204851

Revision : 1

To: GARMENT DYEING SERVICE GDS
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Received Date: March 23, 2021
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SAMPLE INFORMATION:	
Sample Description	I001:Incoming water,R001:Raw Wastewater,D001:Discharged Water
Sampler ID	8F146507948
ZDHC Option	Option 2

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Sample description assigned by laboratory:

Number of Samples: 3

Sample Number:	Description:
001	I001-Incoming Water
002	R001-Raw Wastewater
003	D001-Discharged Water

Note: The supplier (GDS) have the same ETP and the same Incoming water Source with another supplier.

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TEST	001	002	003
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs) Content	-	PASS	PASS
Azo Dyes Content	-	PASS	PASS
Absorbable Organic Halogens (AOX)	-	-	PASS
Cyanide	-	-	PASS
Oil and Grease	-	-	PASS
Sulfide	-	-	FAIL
Sulfite	-	-	FAIL
Total Phenol	-	-	PASS
Biological Oxygen Demand (BOD)	-	-	FAIL
Chemical Oxygen Demand (COD)	-	-	FAIL
Total Suspended Solids (TSS)	-	-	PASS
pH Value	-	-	PASS
Colour (436, 525, 620nm)	-	-	PASS
Total Nitrogen as N	-	-	FAIL
Ammonium as N	-	-	PASS
Total Phosphorus as P	-	-	PASS
Temperature	-	-	PASS
Coliform	-	-	FAIL
Persistent Foam	-	-	PASS
Chlorinated Paraffins Content	-	PASS	PASS
Chlorophenols Content	-	PASS	PASS
Allergenic Disperse Dyes Content	-	PASS	PASS
Carcinogenic Dyes Content	-	PASS	PASS
Flame Retardants Content	-	PASS	PASS
Total Heavy Metals Content	-	PASS	PASS
Chlorobenzenes and Chlorotoluenes Content	-	PASS	PASS
Glycols Content	-	PASS	PASS
Organotin Compounds Content	FAIL	FAIL	FAIL
Polycyclic Aromatic Hydrocarbons (PAHs) Content	-	PASS	PASS
Perfluorinated Compounds (PFCs) Content	-	PASS	PASS
Phthalates Content	-	PASS	PASS
Halogenated Solvents Content	FAIL	FAIL	FAIL
Volatile Organic Compounds (VOC) Content	-	PASS	PASS

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Note: NC = No Comment; NA = Not Applicable; NR = Not Requested; NT = Not Tested; Ref Only = Reference only; ** = test result(s) will be added later

Note:

1. The results relate only to the items tested

Note on Revision: **Please Note that we did revise this test Report to Correct Organotin Compounds Results**.

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Approved By	Approved By
	
FOUED MELLOULI	MOHAMED BAKIRA
Consumer Manager	Chemical Laboratory Supervisor

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Test Performed: Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs) Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
Octylphenol (OP)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Nonylphenol (NP)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
OPEO, n=1-2	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
OPEO, n>2	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
NPEO, n=1-2	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
NPEO, n>2	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Conclusion	PASS	PASS	

Remark:
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Test Performed: Azo Dyes Content			
Test Method: With reference to EN 14362-1&3 and followed by GCMS &/or LCMS Analysis.			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
benzidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4-aminodiphenyl	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4-chloro-o-toluidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
2-naphthylamine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
o-aminoazotoluene	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
5-nitro-o-toluidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4-chloroaniline	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4-methoxy-m-phenylenediamine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4,4-diaminodiphenylmethane	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
3,3-dichlorobenzidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
3,3-dimethoxybenzidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
3,3-dimethylbenzidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4,4-methylenedi-o-toluidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L

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Test Performed: Azo Dyes Content			
p-cresidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4,4-methlyene-bis-(2-chloroaniline)	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4,4-oxydianiline	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4,4-thiodianiline	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
o-toluidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
2,4,5-trimethylaniline	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4-methyl-m-phenylenediamine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
o-anisidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
2,4-xylidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
2,6-xylidine	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
4-aminoazobenzene	<0.1 µg/L	<0.1 µg/L	< 0.1 µg/L
Conclusion	PASS	PASS	

Remark:

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3. "µg/L" means micrograms per liter.

benzidine (CAS No. 92-87-5); 4-aminodiphenyl (CAS No. 92-67-1); 4-chloro-o-toluidine (CAS No. 95-69-2); 2-naphthylamine (CAS No. 91-59-8); o-aminoazotoluene (CAS No. 97-56-3); 5-nitro-o-toluidine (CAS No. 99-55-8); 4-chloroaniline (CAS No. 106-47-8); 4-methoxy-m-phenylenediamine (CAS No. 615-05-4); 4,4-diaminodiphenylmethane (CAS No. 101-77-9); 3,3-dichlorobenzidine (CAS No. 91-94-1); 3,3-dimethoxybenzidine (CAS No. 119-90-4); 3,3-dimethylbenzidine (CAS No. 119-93-7); 4,4-methylenedi-o-toluidine (CAS No. 838-88-0); p-cresidine (CAS No. 120-71-8); 4,4-methlyene-bis-(2-chloroaniline) (CAS No. 101-14-4); 4,4-oxydianiline (CAS No. 101-80-4); 4,4-thiodianiline (CAS No. 139-65-1); o-toluidine (CAS No. 95-53-4); 2,4,5-trimethylaniline (CAS No. 137-17-7); 4-methyl-m-phenylenediamine (CAS No. 95-80-7); o-anisidine (CAS No. 90-04-0); 2,4-xylidine (CAS No. 95-68-1); 2,6-xylidine (CAS No. 87-62-7); 4-aminoazobenzene (CAS No. 60-09-3);

Test Performed: Absorbable Organic Halogens (AOX)		
Sample Number:	003	
	Result	**Requirements**
Absorbable Organic Halogens (AOX)	<0.1 mg/L	≤ 5.0 mg/L
Conclusion	PASS	

Remark:

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Test Performed: Absorbable Organic Halogens (AOX)
3. "mg/L" means milligrams per liter.

Test Performed: Cyanide		
Sample Number:	003	
	Result	**Requirements**
Cyanide	<0.05 mg/L	≤ 0.2 mg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than; "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: Oil and Grease		
Sample Number:	003	
	Result	**Requirements**
n-Hexane Extractable Material (HEM)	<0.1 mg/L	≤ 10.0 mg/L
Conclusion	PASS	
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Test Performed: Sulfide		
Sample Number:	003	
	Result	**Requirements**
Sulfide	0.80 mg/L	≤ 0.5 mg/L
Conclusion	FAIL	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than; "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: Sulfite		
Sample Number:	003	
	Result	**Requirements**
Sulfite	5.4 mg/L	≤ 2.0 mg/L

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Test Performed: Sulfite		
Conclusion	FAIL	

Remark:
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Test Performed: Total Phenol		
Sample Number:	003	
	Result	**Requirements**
Total Phenol	<0.001 mg/L	≤ 0.5 mg/L
Conclusion	PASS	

Remark:
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Test Performed: Biological Oxygen Demand (BOD)		
Sample Number:	003	
	Result	**Requirements**
BOD (5-day)	45.0 mg/L	≤ 30.0 mg/L
Conclusion	FAIL	

Test Performed: Chemical Oxygen Demand (COD)		
Sample Number:	003	
	Result	**Requirements**
COD	151 mg/L	≤ 150.0 mg/L
Conclusion	FAIL	

Remark:
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Test Performed: Total Suspended Solids (TSS)		
Sample Number:	003	
	Result	**Requirements**
TSS	24.0 mg/L	≤ 50.0 mg/L

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Test Performed: Total Suspended Solids (TSS)		
Conclusion	PASS	

Remark:
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Test Performed: pH Value		
Sample Number:	003	
	Result	**Requirements**
pH value	7.5	6.0 to 9.0
Conclusion	PASS	

Test Performed: Colour (436, 525, 620nm)		
Sample Number:	003	
	Result	**Requirements**
Colour (436nm)	<2.0 absorbance	≤ 7.0 absorbance
Colour (525nm)	<2.0 absorbance	≤ 5.0 absorbance
Colour (620nm)	<1.0 absorbance	≤ 3.0 absorbance
Conclusion	PASS	

Test Performed: Total Nitrogen as N		
Sample Number:	003	
	Result	**Requirements**
Total Nitrogen as N	21.9 mg/L	≤ 20.0 mg/L
Conclusion	FAIL	

Remark:
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Test Performed: Ammonium as N		
Sample Number:	003	
	Result	**Requirements**
Ammonium as N	2.95 mg/L	≤ 10.0 mg/L
Conclusion	PASS	

Remark:

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Test Performed: Ammonium as N
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than; "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.

Test Performed: Total Phosphorus as P		
Sample Number:	003	
	Result	**Requirements**
Total Phosphorus as P	0.2 mg/L	≤ 3.0 mg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than; "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: Temperature		
Sample Number:	003	
	Result	**Requirements**
Temperature	27.5 °C	≤ 35.0 °C
Conclusion	PASS	
Remark: 1. "<" means less than; "≤" means less than or equal to. 2. "°C " means degrees Celsius.		

Test Performed: Coliform		
Sample Number:	003	
	Result	**Requirements**
Coliform Colonies/100mL	4000	≤ 400.0
Conclusion	FAIL	

Test Performed: Persistent Foam		
Sample Number:	003	
	Result	**Requirements**
Persistent Foam	Not Visible	Not Visible
Conclusion	PASS	

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Test Performed: Chlorinated Paraffins Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
SCCP	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Conclusion	PASS	PASS	

Remark:
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Test Performed: Chlorophenols Content			
Test Method: With reference USEPA 8270D, Solvent extraction and derivatization with KOH, acetic anhydride followed by GCMS analysis			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
PCP	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,3,5,6-Tetrachlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,3,4,6-Tetrachlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,3,4,5-Tetrachlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,4,6-Trichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,4,5-Trichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,3,4-Trichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,3,5-Trichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
3,4,5-Trichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,3,6-Trichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,3-Dichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,4-Dichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,5-Dichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2,6-Dichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
3,4-Dichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
3,5-Dichlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
2-Chlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
3-Chlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
4-Chlorophenol	<0.5 µg/L	<0.5 µg/L	< 0.5 µg/L
Conclusion	PASS	PASS	

Remark:
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Test Performed: Allergenic Disperse Dyes Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**

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Test Performed: Allergenic Disperse Dyes Content			
C.I. Disperse Blue 7 (CAS 3179-90-6)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 26 (CAS 3860-63-7)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 35 (CAS 12222-75-2)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 35 (CAS 56524-77-7/CAS 56524-76-6)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 102 (CAS 12222-97-8)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 106 (CAS 12223-01-7)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 124 (CAS 61951-51-7)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Brown 1 (CAS 23355-64-8)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Orange 1 (CAS 2581-69-3)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Orange 3 (CAS 730-40-5)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Orange 37/59/76 (CAS 12223-33-5/ 13301-61-6/ 51811-42-8)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Red 1 (CAS 2872-52-8)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Red 11 (CAS 2872-48-2)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Red 17 (CAS 3179-89-3)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Yellow 1 (CAS 119-15-3)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Yellow 3 (CAS 2832-40-8)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Yellow 9 (CAS 6373-73-5)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L

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Test Performed: Allergenic Disperse Dyes Content			
C.I. Disperse Yellow 39 (CAS 12236-29-2)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Yellow 49 (CAS 54824-37-2)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
Blue colorant (CAS 118685-33-9)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
Conclusion	PASS	PASS	

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Test Performed: Carcinogenic Dyes Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
C.I. Disperse Blue 1 (CAS 2475-45-8)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Disperse Blue 3 (CAS 2475-46-9)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Disperse Orange 11 (CAS 82-28-0)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Acid Red 26 (CAS 3761-53-3)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Blue 26 (CAS 2580-56-5)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Red 9 (CAS 569-61-9)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Green 4 (malachite green chloride) (CAS 569-64-2)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Green 4 (malachite green oxalate) (CAS 2437-29-8)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Green 4			

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Test Performed: Carcinogenic Dyes Content			
(malachite green)(CAS 10309-95-2)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Violet 14 (CAS 632-99-5)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Direct Black 38 (CAS 1937-37-7)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Direct Blue 6 (CAS 2602-46-2)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
C.I. Direct Red 28 (CAS 573-58-0)	<500.0 µg/L	<500.0 µg/L	< 500.0 µg/L
Conclusion	PASS	PASS	

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Test Performed: Flame Retardants Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
Hexabromocyclododecane (HBCDD)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Pentabromo diphenyl ether (PentaBDE)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Octabromodiphenyl ether (OctaBDE)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Decabromodiphenyl ether (DecaDBE)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Polybrominatedbiphenyl (PBB)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Monobromobiphenyls (MonoBB)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Dibromobiphenyls (DiBB)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Tribromobiphenyls (TriBB)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L

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Test Performed: Flame Retardants Content			
Tetrabromobiphenyls (TetraBB)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Pentabrombiphenyls (PentaBB)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Hexabromobiphenyls (HexaBB)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Heptabromobiphenyls (HeptaBB)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Octabromobiphenyls (OctaBB)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Nonabromobiphenyls (NonaBB)	<5.0 µg/L	<5.0 µg/L	-
Decabromobiphenyls (DecaBB)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
2,2-Bis(bromomethyl)propan-1,3-diol (BBMP)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Bis (2,3-dibromopropyl) phosphate (BDBPP)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Tris- (2,3 Dibromopropyl) phosphate (TRIS)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Tris-aziridinyl phosphine oxide (TEPA)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Tetrabromo Bisphenol A (TBBPA)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Tris(2-chloroethyl)phosphate (TCEP)	<5.0 µg/L	<5.0 µg/L	-
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	<5.0 µg/L	<5.0 µg/L	< 5.0 µg/L
Conclusion	PASS	PASS	

Remark:
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than; "≤" means less than or equal to.
3. "µg/L" means micrograms per liter.

Test Report

REPORT NO 1001204851

Test Performed: Flame Retardants Content
Hexabromocyclododecane (HBCDD) (CAS No. 25637-99-4/3194-55-6); Pentabromo diphenyl ether (PentaBDE) (CAS No. 32534-81-9); Octabromodiphenyl ether (OctaBDE) (CAS No. 32536-52-0); Decabromodiphenyl Ether (DecaDBE) (CAS No. 1163-19-5); Polybrominatedbiphenyl (PBB) (CAS No. 59536-65-1); Monobromobiphenyls (MonoBB) (CAS No. 26264-10-8); Dibromobiphenyls (DiBB) (CAS No. 27479-65-8); Tribromobiphenyls (TriBB) (CAS No. 51202-79-0); Tetrabromobiphenyls (TetraBB) (CAS No. 40088-45-7); Pentabrombiphenyls (PentaBB) (CAS No. 56307-79-0); Hexabromobiphenyls (HexaBB) (CAS No. 36355-01-8); Heptabromobiphenyls (HeptaBB) (CAS No. 35194-78-6); Octabromobiphenyls (OctaBB) (CAS No. 27858-07-7); Nonabromobiphenyls (NonaBB) (CAS No. 27753-52-2); Decabromobiphenyls (DecaBB) (CAS No. 13654-09-6); 2,2-Bis(bromomethyl)propan-1,3-diol (BBMP) (CAS No. 3296-90-0); Bis (2,3-dibromopropyl) phosphate (BDBPP) (CAS No. 5412-25-9); Tris- (2,3 Dibromopropyl) phosphate (TRIS) (CAS No. 126-72-7); Tris-aziridinyl phosphine oxide (TEPA) (CAS No. 545-55-1); Tetrabromo Bisphenol A (TBBPA) (CAS No. 79-94-7); Tris(2-chloroethyl)phosphate (TCEP) (CAS No. 115-96-8); Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) (CAS No. 13674-87-8);

Test Performed: Total Heavy Metals Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
Antimony (Sb)	<0.01 mg/L	<0.01 mg/L	≤ 0.1 mg/L
Arsenic (As)	<0.005 mg/L	<0.005 mg/L	≤ 0.05 mg/L
Cadmium (Cd)	<0.01 mg/L	<0.01 mg/L	≤ 0.1 mg/L
Total Chromium (Cr)	<0.05 mg/L	<0.05 mg/L	≤ 0.2 mg/L
Hexavalent Chromium (CrVI)	<0.001 mg/L	<0.001 mg/L	≤ 0.05 mg/L
Cobalt (Co)	<0.01 mg/L	<0.01 mg/L	≤ 0.05 mg/L
Copper (Cu)	<0.25 mg/L	<0.25 mg/L	≤ 1.0 mg/L
Lead (Pb)	<0.01 mg/L	<0.01 mg/L	≤ 0.1 mg/L
Mercury (Hg)	<0.001 mg/L	<0.001 mg/L	≤ 0.01 mg/L
Nickel (Ni)	<0.05 mg/L	<0.05 mg/L	≤ 0.2 mg/L
Silver (Hg)	<0.005 mg/L	<0.005 mg/L	≤ 0.1 mg/L
Zinc (Zn)	<0.50 mg/L	<0.50 mg/L	≤ 5.0 mg/L
Conclusion	PASS	PASS	

Remark:
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than; "≤" means less than or equal to.
3. "mg/L" means milligrams per liter.

Test Performed: Chlorobenzenes and Chlorotoluenes Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
Monochlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
1,2-Dichlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L

Test Report

REPORT NO 1001204851

Test Performed: Chlorobenzenes and Chlorotoluenes Content			
1,3-Dichlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
1,4-Dichlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
1,2,3-Trichlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
1,3,5-Trichlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
1,2,3,4-Tetrachlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
1,2,3,5-Tetrachlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
1,2,4,5-Tetrachlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
Pentachlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
Hexachlorobenzene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2-Chlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
3-Chlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
4-Chlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,3-Dichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,5-Dichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,6-Dichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,4-Dichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
3,4-Dichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
3,5-Dichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,3,6-Trichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,4,5-Trichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,3,4-Trichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
3,4,5-Trichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,4,6-Trichlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,3,4,5-Tetrachlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,3,4,6-Tetrachlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,3,5,6-Tetrachlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
2,3,4,5,6-Pentachlorotoluene	<0.2 µg/L	<0.2 µg/L	< 0.2 µg/L
Conclusion	PASS	PASS	

Remark:
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than; "≤" means less than or equal to.
3. "µg/L" means micrograms per liter.

Test Report

REPORT NO 1001204851

Test Performed: Chlorobenzenes and Chlorotoluenes Content
Monochlorobenzene (CAS No. 108-90-7); 1,2-Dichlorobenzene (CAS No. 95-50-1); 1,3-Dichlorobenzene (CAS No. 541-73-1); 1,4-Dichlorobenzene (CAS No. 106-46-7); 1,2,3-Trichlorobenzene (CAS No. 87-61-6); 1,2,4-Trichlorobenzene (CAS No. 120-82-1); 1,3,5-Trichlorobenzene (CAS No. 108-70-3); 1,2,3,4-Tetrachlorobenzene (CAS No. 634-66-2); 1,2,3,5-Tetrachlorobenzene (CAS No. 634-90-2); 1,2,4,5-Tetrachlorobenzene (CAS No. 95-94-3); Pentachlorobenzene (CAS No. 608-93-5); Hexachlorobenzene (CAS No. 118-74-1); 2-Chlorotoluene (CAS No. 95-49-8); 3-Chlorotoluene (CAS No. 108-41-8); 4-Chlorotoluene (CAS No. 106-43-4); 2,3-Dichlorotoluene (CAS No. 32768-54-0); 2,5-Dichlorotoluene (CAS No. 19398-61-9); 2,6-Dichlorotoluene (CAS No. 118-69-4); 2,4-Dichlorotoluene (CAS No. 95-73-8); 3,4-Dichlorotoluene (CAS No. 95-75-0); 3,5-Dichlorotoluene (CAS No. 25186-47-4); 2,3,6-Trichlorotoluene (CAS No. 2077-46-5); 2,4,5-Trichlorotoluene (CAS No. 6639-30-1); 2,3,4-Trichlorotoluene (CAS No. 7359-72-0); 3,4,5-Trichlorotoluene (CAS No. 21472-86-6); 2,4,6-Trichlorotoluene (CAS No. 23749-65-7); 2,3,4,5-Tetrachlorotoluene (CAS No. 76057-12-0); 2,3,4,6-Tetrachlorotoluene (CAS No. 875-40-1); 2,3,5,6-Tetrachlorotoluene (CAS No. 29733-70-8); 2,3,4,5,6-Pentachlorotoluene (CAS No. 877-11-2);

Test Performed: Glycols Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
2-Ethoxyethylacetate (CAS No. 111-15-9)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
Bis-(2-methoxyethyl) ether (CAS No. 111-96-6)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
2-Ethoxyethanol (CAS No. 110-80-5)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
Ethylene glycol dimethyl ether (CAS No. 110-71-4)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
2-Methoxyethanol (CAS No. 109-86-4)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
Triethylene glycol dimethyl ether (CAS No. 112-49-2)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
2-Methoxyethylacetate (CAS No. 110-49-6)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
2-Methoxypropylacetate (CAS No. 70657-70-4)	<50.0 µg/L	<50.0 µg/L	< 50.0 µg/L
Conclusion	PASS	PASS	

Remark:
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3. "µg/L" means micrograms per liter.

Test Report

REPORT NO 1001204851

Test Performed: Organotin Compounds Content				
Sample Number:	001	002	003	
	Result	**Result**	**Result**	**Requirements**
Monobutyltin (MBT)	0.24 µg/L	0.03 µg/L	0.04 µg/L	< 0.01 µg/L
Dibutyltin (DBT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Tributyltin (TBT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Tetrabutyltin (TeBT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Triphenyltin (TPhT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Monooctyltin (MOT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Dioctyltin (DOT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Tricyclohexyltin (TCyT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Trioctyltin (TOcT)	<0.01 µg/L	0.06 µg/L	<0.01 µg/L	< 0.01 µg/L
Tributyltinoxide (TBTO)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Tripropyltin (TPrT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Diphenyltin (DPhT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Dimethyltin (DMT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Trimethyltin (TMT)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Tetraethyltin (TeET)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Dibutyltin dichloride (DBTC)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Triphenyltin(1+)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Dibutyltin hydrogen borate (DBB)	<0.01 µg/L	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Conclusion	FAIL	FAIL	FAIL	

Remark:
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3. "µg/L" means micrograms per liter.

Test Report

REPORT NO 1001204851

Test Performed: Polycyclic Aromatic Hydrocarbons (PAHs) Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
Acenaphthylene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Acenaphthene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Fluorene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Phenanthrene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Anthracene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Fluoranthene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Pyrene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Naphthalene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Benzo(a)anthracene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Chrysene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Benzo(b)fluoranthene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Benzo(k)fluoranthene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Benzo(a)pyrene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Dibenzo(a,h)anthracene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Benzo(g,h,i)perylene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Indeno(123-cd)pyrene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Benzo(e)pyrene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Benzo(j)fluoranthene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Conclusion	PASS	PASS	

Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
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3. "µg/L" means micrograms per liter.

Acenaphthylene (CAS No. 208-96-8); Acenaphthene (CAS No. 83-32-9); Fluorene (CAS No. 86-73-7); Phenanthrene (CAS No. 85-01-8); Anthracene (CAS No. 120-12-7); Fluoranthene (CAS No. 206-44-0); Pyrene (CAS No. 129-00-0); Naphthalene (CAS No. 91-20-3); Benzo(a)anthracene (CAS No. 56-55-3); Chrysene (CAS No. 218-01-9); Benzo(b)fluoranthene (CAS No. 205-99-2); Benzo(k)fluoranthene (CAS No. 207-08-9); Benzo(a)pyrene (CAS No. 50-32-8); Dibenzo(a,h)anthracene (CAS No. 53-70-3); Benzo(g,h,i)perylene (CAS No. 191-24-2); Indeno(123-cd)pyrene (CAS No. 193-39-5); Benzo(e)pyrene (CAS No. 192-97-2); Benzo(j)fluoranthene (CAS No. 205-82-3);

Test Report

REPORT NO 1001204851

Test Performed: Perfluorinated Compounds (PFCs) Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
Perfluorohexane sulfonate (PFHxS) (CAS No 3871-99-6, 355-46-4)	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Perfluorooctane sulfonate (PFOS) (CAS No 1763-23-1)	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Perfluorohexanoate (PFHxA) (CAS No 307-24-4)	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Perfluorooctanoate (PFOA) (CAS No 335-67-1)	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) (CAS No 647-42-7)	<0.01 µg/L	<0.01 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (CAS No 678-39-7)	<0.01 µg/L	<0.01 µg/L	< 1.0 µg/L
Perfluorobutanesulfonate K-salt (LPFBS) (CAS No 29420-49-3)	<0.01 µg/L	<0.01 µg/L	< 0.01 µg/L
Conclusion	PASS	PASS	

Remark:
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than; "≤" means less than or equal to.
3. "µg/L" means micrograms per liter.

Test Performed: Phthalates Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
Di-iso-nonyl phthalate,DINP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Di-n-octyl phthalate,DNOP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Bis(2-ethylhexyl) phthalate,DEHP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L

Test Report

REPORT NO 1001204851

Test Performed: Phthalates Content			
Diisodecyl phthalate,DIDP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Dibutyl phthalate,DBP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Benzyl butyl phthalate,BBP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Di-iso-butyl phthalate,DIBP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Bis(2-methoxyethyle) phthalate,BMEP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Diethyl phthalate,DEP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Di-n-propyl phthalate,DPrP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Di-n-hexyl phthalate,DHP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Dicyclohexyl phthalate,DCHP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Dinonyl phthalate,DNP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Di-iso-octyl phthalate,DIOP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Di-iso-heptyl phthalate,DIHP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Di- (heptyl, nonyl, undecyl) phthalate),DHNUP	<10.0 µg/L	<10.0 µg/L	< 10.0 µg/L
Conclusion	PASS	PASS	

Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than; "≤" means less than or equal to.
3. "µg/L" means micrograms per liter.

Di-iso-nonyl phthalate,DINP (CAS No. 28553-12-0/68515-48-0); Di-n-octyl phthalate,DNOP (CAS No. 117-84-0); Bis(2-ethylhexyl) phthalate,DEHP (CAS No. 117-81-7); Diisodecyl phthalate,DIDP (CAS No. 26761-40-0/ 68515-49-0); Dibutyl phthalate,DBP (CAS No. 84-74-2); Benzyl butyl phthalate,BBP (CAS No. 85-68-7); Di-iso-butyl phthalate,DIBP (CAS No. 84-69-5); Bis(2-methoxyethyle) phthalate,BMEP (CAS No. 117-82-8); Diethyl phthalate,DEP (CAS No. 84-66-2); Di-n-propyl phthalate,DPrP (CAS No. 131-16-8); Di-n-hexyl phthalate,DHP (CAS No. 84-75-3); Dicyclohexyl phthalate,DCHP (CAS No. 84-61-7); Dinonyl phthalate,DNP (CAS No. 84-76-4); Di-iso-octyl phthalate,DIOP (CAS No. 27554-26-3); Di-iso-heptyl phthalate,DIHP (CAS No. 71888-89-6 /41451-28); Di- (heptyl, nonyl, undecyl) phthalate),DHNUP (CAS No. 68515-42-4);

Test Report

REPORT NO 1001204851

Test Performed: Halogenated Solvents Content				
Sample Number:	001	002	003	
	Result	**Result**	**Result**	**Requirements**
1,2-Dichloroethane	<1.0 µg/L	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Trichloroethylene	<1.0 µg/L	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Tetrachloroethylene	2.7 µg/L	7.5 µg/L	7.5 µg/L	< 1.0 µg/L
Dichloromethane	<1.0 µg/L	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Conclusion	FAIL	FAIL	FAIL	

Remark:
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than; "≤" means less than or equal to.
3. "µg/L" means micrograms per liter.

1,2-Dichloroethane (CAS No. 107-06-2); Trichloroethylene (CAS No. 79-01-6); Tetrachloroethylene (CAS No. 127-18-4); Dichloromethane (CAS No. 75-09-2);

Test Performed: Volatile Organic Compounds (VOC) Content			
Sample Number:	002	003	
	Result	**Result**	**Requirements**
Benzene	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Total Xylenes	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
p-Cresol	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
m-Cresol	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
o-Cresol	<1.0 µg/L	<1.0 µg/L	< 1.0 µg/L
Conclusion	PASS	PASS	

Remark:
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than; "≤" means less than or equal to.
3. "µg/L" means micrograms per liter.

Benzene (CAS No. 71-43-2); Total Xylenes (CAS No. 1330-20-7); p-Cresol (CAS No. 106-44-5); m-Cresol (CAS No. 108-39-4); o-Cresol (CAS No. 95-48-7);

Discharged WW

Raw WW

Incoming Water

Test Report

REPORT NO 1001204851

End of Report