

# Test Report

**REPORT NO 1002453297**

**Revision 1**

PAGE: PAGE 1/37

To: Benetton Industrille Tunisie  
Route De Sousse Oued Hamdoun  
5012 Sahline  
SAHLINE 5012  
Tunisia  
ATTN: Sondes Skhiri  
Sondes.Skhiri@olimpias.com

Received Date: Sep 18, 2024  
Date In: Sep 18, 2024  
Report Date: Oct 30, 2024



© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 2/37

SAMPLE INFORMATION:	
ZDHC Gateway ID	A387XY80
Type of Discharge	Direct Discharge
Amount of Water Discharged	>15m3/day
Sludge Disposal Path	B: Landfill with Significant Control Measures
Is there an Homogenisation Tank with average holding time > 12 Hours ?	Yes
How Many wastewater Sampling Point are there ?	2
How Many Sludge Sampling Point are there ?	1
Are the ETP Equiped with a Flowmeter	Yes
Pack Requested	Direct Discharge
Sampler ID	C74D106819580

**Sample description assigned by laboratory:**

**Number of Samples: 3**

Sample Number:	Description:
Effluent	Effluent
Sludge	Sludge
Untreated Wastewater	Untreated Wastewater

TEST	Untreated Wastewater	Effluent	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)	PASS	-	-
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs) Content	-	-	Ref Only

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 3/37

TEST	Untreated Wastewater	Effluent	Sludge
Azo Dyes	FAIL	-	-
Absorbable Organic Halogens (AOX)	-	PASS	-
Cyanide	-	PASS	-
Cyanide Content	-	-	PASS
Oil and Grease	-	PASS	-
Sulfide	-	PASS	-
Sulfite	-	PASS	-
Total Phenol	-	PASS	-
Total Phosphorus	-	PASS	-
Biological Oxygen Demand (BOD)	-	PASS	-
Chemical Oxygen Demand (COD)	-	PASS	-
Total Suspended Solids (TSS)	-	PASS	-
TDS	-	PASS	-
pH	-	-	Ref Only
pH Value	-	PASS	-
Colour (436, 525, 620nm)	-	PASS	-
Total Nitrogen	-	PASS	-
Ammonium - Nitrogen	-	PASS	-
Temperature Difference	-	PASS	-
Persistent Foam	-	PASS	-
% Solids	-	-	Ref Only
E.coli	-	PASS	-
Dissolved Oxygen (DO)	-	PASS	-
Total Chlorine	-	PASS	-
Sulfate	-	PASS	-
Chloride	-	PASS	-
Paint Filter Test	-	-	Ref Only
Fecal Coliform	-	-	Ref Only
Chlorinated Paraffins	PASS	-	-
Chlorophenols	PASS	-	-
Allergenic Disperse Dyes	PASS	-	-
Carcinogenic Dyes	PASS	-	-
Navy Blue Colourant	PASS	-	-
Flame Retardants	FAIL	-	-

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 4/37

TEST	Untreated Wastewater	Effluent	Sludge
Chromium VI Content	-	-	Ref Only
Heavy Metals	-	PASS	-
Total Heavy Metal Content	-	-	Ref Only
Chromium VI	-	PASS	-
Borate, Zinc Salt	FAIL	-	-
Leachable Test - Metals	-	-	Ref Only
Chlorobenzenes and Chlorotoluenes	PASS	-	-
Chlorotoluenes Content	-	-	PASS
2-(2-Aminoethylamino)ethanol (AEEA)	PASS	-	-
Bisphenol A	PASS	-	-
Dimethylformamide (DMFa)	PASS	-	-
Permethrin	PASS	-	-
Quinoline	PASS	-	-
Thiourea	PASS	-	-
Triclosan	PASS	-	-
UV Absorbers	PASS	-	-
o-Phenylphenol	PASS	-	-
Glycols	PASS	-	-
Organotin Compounds	FAIL	-	-
Polycyclic Aromatic Hydrocarbons (PAHs)	PASS	-	-
Polycyclic Aromatic Hydrocarbons (PAHs) Content	-	-	PASS
Perfluorinated and Polyfluorinated Chemicals (PFCs)	PASS	-	-
Phthalates	PASS	-	-
Halogenated Solvents	PASS	-	-
Volatile Organic Compounds (VOC)	PASS	-	-

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
2. Note on revision: Please note that we did revise to remove the overall conclusion from first page as requested by the client.

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 5/37

Approved By



FOUED MELLOULI

Approved By



MANEL KHADHAR

Consumer Manager

Chemical Laboratory  
Supervisor

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 6/37

Test Performed: Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Octylphenol (OP)	<5.0 µg/L	< 5.0 µg/L
Nonylphenol (NP)	<5.0 µg/L	< 5.0 µg/L
OPEO, n=1-2	<5.0 µg/L	< 5.0 µg/L
OPEO, n>2	<5.0 µg/L	< 5.0 µg/L
NPEO, n=1-2	<5.0 µg/L	< 5.0 µg/L
NPEO, n>2	<5.0 µg/L	< 5.0 µg/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. "µg/L" means micrograms per liter.		

Test Performed: Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs) Content		
Sample Number:	Sludge	
	Result	Requirements
Octylphenol (OP)	<0.4 mg/kg	< 0.4 mg/kg
Nonylphenol (NP)	<0.4 mg/kg	< 0.4 mg/kg
OPEO, n=1-2	<0.4 mg/kg	< 0.4 mg/kg
OPEO, n>2	<0.4 mg/kg	< 0.4 mg/kg
NPEO, n=1-2	<0.4 mg/kg	< 0.4 mg/kg
NPEO, n>2	<0.4 mg/kg	< 0.4 mg/kg
Conclusion	Ref Only	
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/kg" means milligrams per kilogram.		

Test Performed: Azo Dyes		
Test Method: With reference to EN 14362-1&3 and followed by GCMS &/or LCMS Analysis.		
Sample Number:	Untreated Wastewater	
	Result	Requirements
benzidine	<0.1 µg/L	< 0.1 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 7/37

Test Performed: Azo Dyes		
4-aminodiphenyl	<0.1 µg/L	< 0.1 µg/L
4-chloro-o-toluidine	<0.1 µg/L	< 0.1 µg/L
2-naphthylamine	<0.1 µg/L	< 0.1 µg/L
o-aminoazotoluene	<0.1 µg/L	< 0.1 µg/L
5-nitro-o-toluidine	<0.1 µg/L	< 0.1 µg/L
4-chloroaniline	0.2 µg/L	< 0.1 µg/L
4-methoxy-m-phenylenediamine	<0.1 µg/L	< 0.1 µg/L
4,4-diaminodiphenylmethane	1.1 µg/L	< 0.1 µg/L
3,3-dichlorobenzidine	<0.1 µg/L	< 0.1 µg/L
3,3-dimethoxybenzidine	<0.1 µg/L	< 0.1 µg/L
3,3-dimethylbenzidine	<0.1 µg/L	< 0.1 µg/L
4,4-methylenedi-o-toluidine	<0.1 µg/L	< 0.1 µg/L
p-cresidine	<0.1 µg/L	< 0.1 µg/L
4,4-methylene-bis-(2-chloroaniline)	<0.1 µg/L	< 0.1 µg/L
4,4-oxydianiline	<0.1 µg/L	< 0.1 µg/L
4,4-thiodianiline	<0.1 µg/L	< 0.1 µg/L
o-toluidine	<0.1 µg/L	< 0.1 µg/L
2,4,5-trimethylaniline	<0.1 µg/L	< 0.1 µg/L
4-methyl-m-phenylenediamine	<0.1 µg/L	< 0.1 µg/L
o-anisidine	<0.1 µg/L	< 0.1 µg/L
2,4-xylidine	<0.1 µg/L	< 0.1 µg/L
2,6-xylidine	<0.1 µg/L	< 0.1 µg/L
4-aminoazobenzene	<0.1 µg/L	< 0.1 µg/L
4-chloro-o-toluidine hydrochloride	<0.1 µg/L	< 0.1 µg/L
2-naphthylammonium acetate	<0.1 µg/L	< 0.1 µg/L
2,4-diaminoanisole sulfate	<0.1 µg/L	< 0.1 µg/L
2,4,5-trimethylaniline hydrochloride	<0.1 µg/L	< 0.1 µg/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. "µg/L" means micrograms per liter.		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 8/37

## Test Performed: Azo Dyes

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-methylene-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-xylydine (CAS No. 95-68-1); 2,6-xylydine (CAS No. 87-62-7); 4-aminoazobenzene (CAS No. 60-09-3); 4-chloro-o-toluidine hydrochloride (CAS No. 3165-93-3); 2-naphthylammonium acetate (CAS No. 553-00-4); 2,4-diaminoanisole sulfate (CAS No. 39156-41-7); 2,4,5-trimethylaniline hydrochloride (CAS No. 21436-97-5);

## Test Performed: Absorbable Organic Halogens (AOX)

Sample Number:	Effluent	
	Result	Requirements
Absorbable Organic Halogens (AOX)	<0.1 mg/L	≤ 3.0 mg/L
Conclusion	PASS	

### Remark:

- 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.
- "<" means less than; "≤" means less than or equal to.
- "mg/L" means milligrams per liter.

## Test Performed: Cyanide

Sample Number:	Effluent	
	Result	Requirements
Cyanide	<0.05 mg/L	≤ 0.2 mg/L
Conclusion	PASS	

### Remark:

- 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.
- "<" means less than; "≤" means less than or equal to.
- "mg/L" means milligrams per liter.

## Test Performed: Cyanide Content

Sample Number:	Sludge	
	Result	Requirements
Cyanide	<20.0 mg/kg	< 20.0 mg/kg
Conclusion	PASS	

### Remark:

- 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.

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit



# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 9/37

<b>Test Performed: Cyanide Content</b>
2. "<" means less than; "≤" means less than or equal to.
3. "mg/kg" means milligrams per kilogram.

<b>Test Performed: Oil and Grease</b>		
<b>Sample Number:</b>	Effluent	
	<b>Result</b>	<b>Requirements</b>
n-Hexane Extractable Material (HEM)	<0.5 mg/L	≤ 10.0 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.		

<b>Test Performed: Sulfide</b>		
<b>Sample Number:</b>	Effluent	
	<b>Result</b>	<b>Requirements</b>
Sulfide	<0.01 mg/L	≤ 0.5 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.		

<b>Test Performed: Sulfite</b>		
<b>Sample Number:</b>	Effluent	
	<b>Result</b>	<b>Requirements</b>
Sulfite	<0.2 mg/L	≤ 2.0 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.		

<b>Test Performed: Total Phenol</b>		
<b>Sample Number:</b>	Effluent	
	<b>Result</b>	<b>Requirements</b>

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 10/37

Test Performed: Total Phenol		
Total Phenol	<0.001 mg/L	≤ 0.5 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: Total Phosphorus		
Sample Number:	Effluent	
	Result	Requirements
Total Phosphorus as P	<0.1 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: Biological Oxygen Demand (BOD)		
Sample Number:	Effluent	
	Result	Requirements
BOD (5-day)	13.2 mg/L	≤ 30.0 mg/L
Conclusion	PASS	

Test Performed: Chemical Oxygen Demand (COD)		
Sample Number:	Effluent	
	Result	Requirements
COD	48 mg/L	≤ 150.0 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: Total Suspended Solids (TSS)		
Sample Number:	Effluent	
	Result	Requirements

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 11/37

Test Performed: Total Suspended Solids (TSS)		
TSS	17.0 mg/L	≤ 50.0 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: TDS		
Sample Number:	Effluent	
	Result	Requirements
TDS	3981.0 mg/L	-
Conclusion	Ref Only	

Test Performed: pH		
Sample Number:	Sludge	
	Result	Requirements
pH value	7.67	-
Conclusion	Ref Only	

Test Performed: pH Value		
Sample Number:	Effluent	
	Result	Requirements
pH value	7.8	6.0 to 9.0
Conclusion	PASS	

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

Test Performed: Total Nitrogen		
Sample Number:	Effluent	
	Result	Requirements

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 12/37

Test Performed: Total Nitrogen		
Total Nitrogen as N	16.3 mg/L	≤ 20.0 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: Ammonium - Nitrogen		
Sample Number:	Effluent	
	<b>Result</b>	<b>Requirements</b>
Ammonium as N	8.1 mg/L	≤ 10.0 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 Difference		
Sample Number:	Effluent	
	<b>Result</b>	<b>Requirements</b>
Temperature	20 °C	> 15.0 °C
Conclusion	PASS	
Remark: 1. "<" means less than; "≤" means less than or equal to. 2. "°C " means degrees Celsius.		

Test Performed: Persistent Foam		
Sample Number:	Effluent	
	<b>Result</b>	<b>Requirements</b>
Persistent Foam	Not Visible	Not Visible
Conclusion	PASS	

Test Performed: % Solids		
Sample Number:	Sludge	
	<b>Result</b>	<b>Requirements</b>
Dry mass (total solids)	29.2 %	-

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 13/37

Test Performed: % Solids		
Conclusion	Ref Only	
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. "%" means percent.		

Test Performed: E.coli		
Sample Number:	Effluent	
	Result	Requirements
E.coli	91 CFU/100mL	≤ 126.0 CFU/100mL
Conclusion	PASS	
Remark: 1. "CFU" means "Colony Forming Unit".		

Test Performed: Dissolved Oxygen (DO)		
Sample Number:	Effluent	
	Result	Requirements
Dissolved Oxygen (DO)	5.3 mg/L	-
Conclusion	Ref Only	
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: Total Chlorine		
Sample Number:	Effluent	
	Result	Requirements
Total Chlorine	0 mg/L	-
Conclusion	Ref Only	
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: Sulfate		
Sample Number:	Effluent	

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 14/37

Test Performed: Sulfate		
	Result	Requirements
Sulfate	1330 mg/L	-
Conclusion	Ref Only	
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: Chloride		
Sample Number:	Effluent	
	Result	Requirements
Chloride	1160 mg/L	-
Conclusion	Ref Only	
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: Paint Filter Test		
Sample Number:	Sludge	
	Result	Requirements
Paint Filter Test	PASS	-
Conclusion	Ref Only	

Test Performed: Fecal Coliform		
Sample Number:	Sludge	
	Result	Requirements
Fecal Coliform	<3.0	-
Conclusion	Ref Only	

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

**REPORT NO** 1002453297

**Revision 1**

PAGE: PAGE 15/37

<b>Test Performed: Chlorinated Paraffins</b>		
<b>Sample Number:</b>	<b>Untreated Wastewater</b>	
	<b>Result</b>	<b>Requirements</b>
SCCP	<25.0 µg/L	< 25.0 µg/L
MCCP	<500.0 µg/L	< 500.0 µg/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. "µg/L" means micrograms per liter.		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 16/37

Test Performed: Chlorophenols		
Test Method: With reference USEPA 8270D, Solvent extraction and derivatization with KOH, acetic anhydride followed by GCMS analysis		
Sample Number:	Untreated Wastewater	
	Result	Requirements
PCP	<0.5 µg/L	< 0.5 µg/L
2,3,5,6-Tetrachlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3,4,6-Tetrachlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3,4,5-Tetrachlorophenol	<0.5 µg/L	< 0.5 µg/L
2,4,6-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,4,5-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3,4-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3,5-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
3,4,5-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3,6-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,4-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,5-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,6-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
3,4-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
3,5-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
2-Chlorophenol	<0.5 µg/L	< 0.5 µg/L
3-Chlorophenol	<0.5 µg/L	< 0.5 µg/L
4-Chlorophenol	<0.5 µg/L	< 0.5 µg/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. "µg/L" means micrograms per liter.		

Test Performed: Allergenic Disperse Dyes		
Sample Number:	Untreated Wastewater	
	Result	Requirements
C.I. Disperse Blue 7 (CAS 3179-90-6)	<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

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit



# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 17/37

Test Performed: Allergenic Disperse Dyes		
C.I. Disperse Blue 35 (CAS 12222-75-2)	<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
C.I. Disperse Blue 102 (CAS 12222-97-8)	<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
C.I. Disperse Blue 124 (CAS 61951-51-7)	<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
C.I. Disperse Orange 1 (CAS 2581-69-3)	<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
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
C.I. Disperse Red 1 (CAS 2872-52-8)	<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
C.I. Disperse Red 17 (CAS 3179-89-3)	<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
C.I. Disperse Yellow 3 (CAS 2832-40-8)	<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
C.I. Disperse Yellow 39 (CAS 12236-29-2)	<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
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

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 18/37

## Test Performed: Allergenic Disperse Dyes

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: Carcinogenic Dyes

Sample Number:	Untreated Wastewater	
	Result	Requirements
C.I. Disperse Blue 1 (CAS 2475-45-8)	<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
C.I. Disperse Orange 11 (CAS 82-28-0)	<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
C.I. Acid Violet 49 (CAS 1694-09-3)	<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
C.I. Basic Red 9 (CAS 569-61-9)	<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
C.I. Basic Green 4 (malachite green oxalate)(CAS 2437-29-8)	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Green 4 (malachite green)(CAS 10309-95-2)	<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
C.I. Direct Black 38 (CAS 1937-37-7)	<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
C.I. Direct Red 28 (CAS 573-58-0)	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Violet 3 with >0.1% of Michler's Ketone (CAS 548-62-9)	<500.0 µg/L	< 500.0 µg/L
Conclusion	PASS	

### Remark:

- 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.
- "<" means less than; "≤" means less than or equal to.
- "µg/L" means micrograms per liter.

## Test Performed: Navy Blue Colourant

Sample Number:	Untreated Wastewater	
----------------	----------------------	--

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 19/37

Test Performed: Navy Blue Colourant		
	Result	Requirements
Navy Blue (Component 1: C39H23ClCrN7O12S.2Na)	<500.0 µg/L	< 500.0 µg/L
Navy Blue (Component 2: C46H30CrN10O20S2.3Na)	<500.0 µg/L	< 500.0 µg/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. "µg/L" means micrograms per liter.		

Test Performed: Flame Retardants		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Hexabromocyclododecane (HBCDD)	<25.0 µg/L	< 25.0 µg/L
Monobromodiphenyl ether (MonoBDE)	<25.0 µg/L	< 25.0 µg/L
Tribromodiphenyl ether (TriBDE)	<25.0 µg/L	< 25.0 µg/L
Tetrabromodiphenyl ether (TetraBDE)	<25.0 µg/L	< 25.0 µg/L
Pentabromo diphenyl ether (PentaBDE)	<25.0 µg/L	< 25.0 µg/L
Hexabromodiphenyl ether (HexaBDE)	<25.0 µg/L	< 25.0 µg/L
Heptabromodiphenyl ether (HeptaBDE)	<25.0 µg/L	< 25.0 µg/L
Octabromodiphenyl ether (OctaBDE)	<25.0 µg/L	< 25.0 µg/L
Nonabromodiphenyl ether (NonaBDE)	<25.0 µg/L	< 25.0 µg/L
Decabromodiphenyl ether (DecaDBE)	<25.0 µg/L	< 25.0 µg/L
Polybrominatedbiphenyl (PBB)	<25.0 µg/L	< 25.0 µg/L
Monobromobiphenyls (MonoBB)	<25.0 µg/L	< 25.0 µg/L
Dibromobiphenyls (DiBB)	<25.0 µg/L	< 25.0 µg/L
Octabromobiphenyls (OctaBB)	<25.0 µg/L	< 25.0 µg/L
Nonabromobiphenyls (NonaBB)	<25.0 µg/L	< 25.0 µg/L
Decabromobiphenyls (DecaBB)	<25.0 µg/L	< 25.0 µg/L
2,2-Bis(bromomethyl)propan-1,3-diol (BBMP)	<25.0 µg/L	< 25.0 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 20/37

Test Performed: Flame Retardants		
Bis (2,3-dibromopropyl) phosphate (BDBPP)	<25.0 µg/L	< 25.0 µg/L
Tris- (2,3 Dibromopropyl) phosphate (TRIS)	<25.0 µg/L	< 25.0 µg/L
Tris-aziridinyl phosphine oxide (TEPA)	<25.0 µg/L	< 25.0 µg/L
Tetrabromo Bisphenol A (TBBPA)	<25.0 µg/L	< 25.0 µg/L
Tris(2-chloroethyl)phosphate (TCEP)	<25.0 µg/L	< 25.0 µg/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	<25.0 µg/L	< 25.0 µg/L
Tris(2-chloro-1-isopropyl) phosphate (TCPP)	<5.0 µg/L	< 25.0 µg/L
Diboron trioxide	850.0 µg/L	< 100.0 µg/L
Disodium tetraborate, anhydrous	1225.0 µg/L	< 100.0 µg/L
Tetraboron disodium heptaoxide, hydrate	1339.0 µg/L	< 100.0 µg/L
Boric Acid (HB)	1511.0 µg/L	< 100.0 µg/L
Disodium octaborate, tetrahydrate	1041.0 µg/L	< 100.0 µg/L
Bibromopropylether	<25.0 µg/L	< 25.0 µg/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. "µg/L" means micrograms per liter.		
Hexabromocyclododecane (HBCDD) (CAS No. 25637-99-4/3194-55-6); Monobromodiphenyl ether (MonoBDE) (CAS No. 101-55-3); Tribromodiphenyl ether (TriBDE) (CAS No. 49690-94-0); Tetrabromodiphenyl ether (TetraBDE) (CAS No. 40088-47-9); Pentabromodiphenyl ether (PentaBDE) (CAS No. 32534-81-9); Hexabromodiphenyl ether (HexaBDE) (CAS No. 36483-60-0); Heptabromodiphenyl ether (HeptaBDE) (CAS No. 68928-80-3); Octabromodiphenyl ether (OctaBDE) (CAS No. 32536-52-0); Nonabromodiphenyl ether (NonaBDE) (CAS No. 63936-56-1); 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); 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); Tris(2-chloro-1-isopropyl) phosphate (TCPP) (CAS No. 13674-84-5); Diboron trioxide (CAS No. 1303-86-2); Disodium tetraborate, anhydrous (CAS No. 1303-96-4/1330-43-4/12179-04-3); Tetraboron disodium heptaoxide, hydrate (CAS No. 12267-73-1); Boric Acid (HB) (CAS No. 10043-35-3); Disodium octaborate, tetrahydrate (CAS No. 12008-41-2); Bibromopropylether (CAS No. 21850-44-2);		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 21/37

## Test Performed: Chromium VI Content

Sample Number:	Sludge	
	Result	Requirements
Hexavalent Chromium (CrVI)	<20 mg/kg	< 20.0 mg/kg
Conclusion	Ref Only	

Remark:

- 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.
- "<" means less than; "≤" means less than or equal to.
- "mg/kg" means milligrams per kilogram.

## Test Performed: Heavy Metals

Sample Number:	Effluent	
	Result	Requirements
Arsenic (As)	<0.01 mg/L	≤ 0.05 mg/L
Lead (Pb)	<0.01 mg/L	≤ 0.1 mg/L
Mercury (Hg)	<0.00 mg/L	≤ 0.01 mg/L
Conclusion	PASS	

Remark:

- 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.
- "<" means less than; "≤" means less than or equal to.
- "mg/L" means milligrams per liter.

## Test Performed: Total Heavy Metal Content

Sample Number:	Sludge	
	Result	Requirements
Antimony (Sb)	<5.0 mg/kg	< 5.0 mg/kg
Arsenic (As)	<5.0 mg/kg	< 5.0 mg/kg
Barium (Ba)	<200.0 mg/kg	< 200.0 mg/kg
Cadmium (Cd)	<1.0 mg/kg	< 1.0 mg/kg
Total Chromium (Cr)	<50.0 mg/kg	< 50.0 mg/kg
Cobalt (Co)	<400.0 mg/kg	< 400.0 mg/kg
Copper (Cu)	514.0 mg/kg	< 50.0 mg/kg
Lead (Pb)	<5.0 mg/kg	< 5.0 mg/kg
Mercury (Hg)	<1.0 mg/kg	< 1.0 mg/kg
Nickel (Ni)	<20.0 mg/kg	< 20.0 mg/kg
Selenium (Se)	<5.0 mg/kg	< 5.0 mg/kg

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 22/37

Test Performed: Total Heavy Metal Content		
Silver (Hg)	<50.0 mg/kg	< 50.0 mg/kg
Zinc (Zn)	<400.0 mg/kg	< 400.0 mg/kg
Conclusion	Ref Only	
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/kg" means milligrams per kilogram.		

Test Performed: Chromium VI		
Sample Number:	Effluent	
	Result	Requirements
Hexavalent Chromium (CrVI)	<0.00 mg/L	≤ 0.05 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: Borate, Zinc Salt		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Total Boron and Total Zinc	862.0 µg/L	< 100.0 µg/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. "µg/L" means micrograms per liter.		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 23/37

Test Performed: Leachable Test - Metals		
Sample Number:	Sludge	
	Result	Requirements
Sb (Antimony)	<0.6 mg/L	<0.6 mg/L
As (Arsenic)	<0.5 mg/L	<0.5 mg/L
Ba (Barium)	<35.0 mg/L	<35.0 mg/L
Cd (Cadmium)	<0.2 mg/L	<0.2 mg/L
Cr (Chromium)	<5.0 mg/L	<5.0 mg/L
Co (Cobalt)	<80.0 mg/L	<80.0 mg/L
Cu (Copper)	<10.0 mg/L	<10.0 mg/L
Pb (Lead)	<0.5 mg/L	<0.5 mg/L
Hg (Mercury)	<0.050 mg/L	<0.050 mg/L
Ni (Nickel)	<3.5 mg/L	<3.5 mg/L
Se (Selenium)	<0.5 mg/L	<0.5 mg/L
Ag (Silver)	<5.0 mg/L	<5.0 mg/L
Zn (Zinc)	<50.0 mg/L	<50.0 mg/L
Conclusion	Ref Only	

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/kg" means milligrams per kilogram.

Test Performed: Chlorobenzenes and Chlorotoluenes		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Monochlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2-Dichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,3-Dichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,4-Dichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2,3-Trichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,3,5-Trichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2,3,4-Tetrachlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2,3,5-Tetrachlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2,4,5-Tetrachlorobenzene	<0.2 µg/L	< 0.2 µg/L
Pentachlorobenzene	<0.2 µg/L	< 0.2 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 24/37

Test Performed: Chlorobenzenes and Chlorotoluenes		
Hexachlorobenzene	<0.2 µg/L	< 0.2 µg/L
2-Chlorotoluene	<0.2 µg/L	< 0.2 µg/L
3-Chlorotoluene	<0.2 µg/L	< 0.2 µg/L
4-Chlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,5-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,6-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,4-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
3,4-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
3,5-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,6-Trichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,4,5-Trichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,4-Trichlorotoluene	<0.2 µg/L	< 0.2 µg/L
3,4,5-Trichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,4,6-Trichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,4,5-Tetrachlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,4,6-Tetrachlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,5,6-Tetrachlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,4,5,6-Pentachlorotoluene	<0.2 µg/L	< 0.2 µg/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. "µg/L" means micrograms per liter.		
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: Chlorotoluenes Content		
Sample Number:	Sludge	

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit



# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 25/37

Test Performed: Chlorotoluenes Content		
	Result	Requirements
2-Chlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
3-Chlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
4-Chlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,5-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,6-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,4-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
3,4-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
3,5-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,6-Trichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,4,5-Trichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,4-Trichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
3,4,5-Trichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,4,6-Trichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,4,5-Tetrachlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,4,6-Tetrachlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,5,6-Tetrachlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,4,5,6-Pentachlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
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/kg" means milligrams per kilogram. 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: 2-(2-Aminoethylamino)ethanol (AEEA)		
Sample Number:	Untreated Wastewater	
	Result	Requirements
2-(2-Aminoethylamino)ethanol (AEEA)	<500.0 µg/L	< 500.0 µg/L
Conclusion	PASS	

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is NOT responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 26/37

Test Performed: 2-(2-Aminoethylamino)ethanol (AEEA)		
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.		
2-(2-Aminoethylamino)ethanol (AEEA) (CAS No. 111-41-1);		

Test Performed: Bisphenol A		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Bisphenol A (BPA)	<10.0 µg/L	< 10.0 µg/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. "µg/L" means micrograms per liter.		
Bisphenol A (BPA) (CAS No. 80-05-7);		

Test Performed: Dimethylformamide (DMFa)		
Sample Number:	Untreated Wastewater	
	Result	Requirements
N,N-Dimethylformamide (DMFa)	<1000.0 µg/L	< 1000.0 µg/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. "µg/L" means micrograms per liter.		
N,N-Dimethylformamide (DMFa) (CAS No. 68-12-2);		

Test Performed: Permethrin		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Permethrin	<500 µg/L	< 500.0 µg/L
Conclusion	PASS	

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 27/37

Test Performed: Permethrin		
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.		
Permethrin (CAS No. 52645-53-1);		

Test Performed: Quinoline		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Quinoline	<50.0 µg/L	< 50.0 µg/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. "µg/L" means micrograms per liter.		
Quinoline (CAS No. 91-22-5);		

Test Performed: Thiourea		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Thiourea	<50.0 µg/L	< 50.0 µg/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. "µg/L" means micrograms per liter.		
Thiourea (CAS No. 62-56-6);		

Test Performed: Triclosan		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Triclosan	<100.0 µg/L	< 100.0 µg/L
Conclusion	PASS	

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 28/37

## Test Performed: Triclosan

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.

Triclosan (CAS No. 3380-34-5);

## Test Performed: UV Absorbers

Sample Number:	Untreated Wastewater	
	Result	Requirements
2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	<100.0 µg/L	< 100.0 µg/L
2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	<100.0 µg/L	< 100.0 µg/L
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	<100.0 µg/L	< 100.0 µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	<100.0 µg/L	< 100.0 µg/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. "µg/L" means micrograms per liter.

2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (CAS No. 3864-99-1); 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (CAS No. 36437-37-3); 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS No. 3846-71-7); 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) (CAS No. 25973-55-1);

## Test Performed: o-Phenylphenol

Sample Number:	Untreated Wastewater	
	Result	Requirements
o-Phenylphenol (+salts)	<100.0 µg/L	< 100.0 µg/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.

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 29/37

<b>Test Performed: o-Phenylphenol</b>
2. "<" means less than; "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.
o-Phenylphenol (+salts) (CAS No. 90-43-7);

<b>Test Performed: Glycols</b>		
<b>Sample Number:</b>	<b>Untreated Wastewater</b>	
	<b>Result</b>	<b>Requirements</b>
2-Ethoxyethylacetate (CAS No. 111-15-9)	<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
2-Ethoxyethanol (CAS No. 110-80-5)	<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
2-Methoxyethanol (CAS No. 109-86-4)	<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
2-Methoxyethylacetate (CAS No. 110-49-6)	<50.0 µg/L	< 50.0 µg/L
2-Methoxypropylacetate (CAS No. 70657-70-4)	<50.0 µg/L	< 50.0 µg/L
<b>Conclusion</b>	<b>PASS</b>	
<b>Remark:</b> 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.		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 30/37

Test Performed: Organotin Compounds		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Monobutyltin (MBT)	<0.01 µg/L	< 0.01 µg/L
Dibutyltin (DBT)	<0.01 µg/L	< 0.01 µg/L
Tributyltin (TBT)	<0.01 µg/L	< 0.01 µg/L
Tetrabutyltin (TeBT)	<0.01 µg/L	< 0.01 µg/L
Triphenyltin (TPhT)	<0.01 µg/L	< 0.01 µg/L
Monooctyltin (MOT)	<0.01 µg/L	< 0.01 µg/L
Dioctyltin (DOT)	<0.01 µg/L	< 0.01 µg/L
Tricyclohexyltin (TCyT)	<0.01 µg/L	< 0.01 µg/L
Trioctyltin (TOcT)	<0.01 µg/L	< 0.01 µg/L
Tripropyltin (TPrT)	<0.01 µg/L	< 0.01 µg/L
Diphenyltin (DPhT)	<0.01 µg/L	< 0.01 µg/L
Dipropyltin (DnPT/DProT)	<0.01 µg/L	< 0.01 µg/L
Dimethyltin (DMT)	<0.01 µg/L	< 0.01 µg/L
Monomethyltin (MMT)	<0.01 µg/L	< 0.01 µg/L
Trimethyltin (TMT)	<0.01 µg/L	< 0.01 µg/L
Tetraethyltin (TeET)	0.02 µg/L	< 0.01 µg/L
Monophenyltin (MPT)	<0.01 µg/L	< 0.01 µg/L
Tetraoctyltin (TeOT)	<0.01 µg/L	< 0.01 µg/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. "µg/L" means micrograms per liter.		

Test Performed: Polycyclic Aromatic Hydrocarbons (PAHs)		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Acenaphthylene	<1.0 µg/L	< 1.0 µg/L
Acenaphthene	<1.0 µg/L	< 1.0 µg/L
Fluorene	<1.0 µg/L	< 1.0 µg/L
Phenanthrene	<1.0 µg/L	< 1.0 µg/L
Anthracene	<1.0 µg/L	< 1.0 µg/L
Fluoranthene	<1.0 µg/L	< 1.0 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 31/37

Test Performed: Polycyclic Aromatic Hydrocarbons (PAHs)		
Pyrene	<1.0 µg/L	< 1.0 µg/L
Naphthalene	<1.0 µg/L	< 1.0 µg/L
Benzo(a)anthracene	<1.0 µg/L	< 1.0 µg/L
Chrysene	<1.0 µg/L	< 1.0 µg/L
Benzo(b)fluoranthene	<1.0 µg/L	< 1.0 µg/L
Benzo(k)fluoranthene	<1.0 µg/L	< 1.0 µg/L
Benzo(a)pyrene	<1.0 µg/L	< 1.0 µg/L
Dibenzo(a,h)anthracene	<1.0 µg/L	< 1.0 µg/L
Benzo(g,h,i)perylene	<1.0 µg/L	< 1.0 µg/L
Indeno(123-cd)pyrene	<1.0 µg/L	< 1.0 µg/L
Benzo(e)pyrene	<1.0 µg/L	< 1.0 µg/L
Benzo(j)fluoranthene	<1.0 µg/L	< 1.0 µg/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. "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 Performed: Polycyclic Aromatic Hydrocarbons (PAHs) Content		
Sample Number:	Sludge	
	Result	Requirements
Acenaphthylene	<0.2 mg/kg	< 0.2 mg/kg
Acenaphthene	<0.2 mg/kg	< 0.2 mg/kg
Fluorene	<0.2 mg/kg	< 0.2 mg/kg
Phenanthrene	<0.2 mg/kg	< 0.2 mg/kg
Anthracene	<0.2 mg/kg	< 0.2 mg/kg
Fluoranthene	<0.20 mg/kg	< 0.2 mg/kg
Pyrene	<0.2 mg/kg	< 0.2 mg/kg
Naphthalene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(a)anthracene	<0.2 mg/kg	< 0.2 mg/kg

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 32/37

Test Performed: Polycyclic Aromatic Hydrocarbons (PAHs) Content		
Chrysene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(b)fluoranthene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(k)fluoranthene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(a)pyrene	<0.2 mg/kg	< 0.2 mg/kg
Dibenzo(a,h)anthracene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(g,h,i)perylene	<0.2 mg/kg	< 0.2 mg/kg
Indeno(123-cd)pyrene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(e)pyrene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(j)fluoranthene	<0.2 mg/kg	< 0.2 mg/kg
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/kg" means milligrams per kilogram. 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 Performed: Perfluorinated and Polyfluorinated Chemicals (PFCs)		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Perfluorooctane sulfonate (PFOS) (CAS No 1763-23-1)	<0.01 µg/L	< 0.01 µg/L
Perfluorobutane sulfonate (PFBS) (CAS No 375-73-5)	<0.01 µg/L	< 0.01 µg/L
Perfluorohexane sulfonate (PFHxS) (CAS No 355-46-4)	<0.01 µg/L	< 0.01 µg/L
Perfluoroheptane sulfonate (PFHpS) (CAS No 375-92-8)	<0.01 µg/L	< 0.01 µg/L
Perfluorodecane sulfonate (PFDS/PFDcS) (CAS No 335-77-3, 126105-34-8)	<0.01 µg/L	< 0.01 µg/L
Perfluorobutanoate (PFBA) (CAS No 375-22-4)	<1.00 µg/L	< 1.0 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit



# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 33/37

Test Performed: Perfluorinated and Polyfluorinated Chemicals (PFCs)		
Perfluoropentanoate (PFPA) (CAS No 2706-90-3)	<1.00 µg/L	< 1.0 µg/L
Perfluorohexanoate (PFHxA) (CAS No 307-24-4)	<1.00 µg/L	< 1.0 µg/L
Perfluoroheptanoate (PFHpA) (CAS No 375-85-9)	<1.00 µg/L	< 1.0 µg/L
Perfluorooctanoate (PFOA) (CAS No 335-67-1)	<0.01 µg/L	< 0.01 µg/L
Perfluorononanoate (PFNA) (CAS No 375-95-1)	<1.00 µg/L	< 1.0 µg/L
Perfluorodecanoate (PFDA/PFDcA) (CAS No 335-76-2)	<1.00 µg/L	< 1.0 µg/L
Perfluoroundecanoate (PFUnA) (CAS No 2058-94-8)	<1.00 µg/L	< 1.0 µg/L
Perfluorododecanoate (PFDoA) (CAS No 307-55-1)	<1.00 µg/L	< 1.0 µg/L
Perfluorotetradecanoate (PFTeA) (CAS No 376-06-7)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-octane sulfonic acid (1H,1H,2H,2H-PFOS) (CAS No 27619-97-2)	<1.0 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) (CAS No 2043-47-2)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) (CAS No 647-42-7)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (CAS No 678-39-7)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) (CAS No 865-86-1)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) (CAS No 17527-29-6)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA) (CAS No 27905-45-9)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) (CAS No 17741-60-5)	<1.00 µg/L	< 1.0 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 34/37

Test Performed: Perfluorinated and Polyfluorinated Chemicals (PFCs)		
Perfluoro-3,7-dimethyloctanoate (PF-3,7-DMOA) (CAS No 172155-07-6)	<1.00 µg/L	< 1.0 µg/L
7H-dodecafluoroheptanoate (HPFHpA) (CAS No 1546-95-8)	<1.00 µg/L	< 1.0 µg/L
2H,2H-Perfluorodecanoic acid (H2PFDA) (CAS No 27854-31-5)	<1.00 µg/L	< 1.0 µg/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. "µg/L" means micrograms per liter.		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 35/37

Test Performed: Phthalates		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Di-iso-nonyl phthalate,DINP	<10.0 µg/L	< 10.0 µg/L
Di-n-octyl phthalate,DNOP	<10.0 µg/L	< 10.0 µg/L
Bis(2-ethylhexyl) phthalate,DEHP	<10.0 µg/L	< 10.0 µg/L
Diisodecyl phthalate,DIDP	<10.0 µg/L	< 10.0 µg/L
Dibutyl phthalate,DBP	<10.0 µg/L	< 10.0 µg/L
Benzyl butyl phthalate,BBP	<10.0 µg/L	< 10.0 µg/L
Di-iso-butyl phthalate,DIBP	<10.0 µg/L	< 10.0 µg/L
Diisopentyl phthalate,DIPP	<10.0 µg/L	< 10.0 µg/L
Bis(2-methoxyethyle) phthalate,BMEP	<10.0 µg/L	< 10.0 µg/L
Diethyl phthalate,DEP	<10.0 µg/L	< 10.0 µg/L
Di-n-propyl phthalate,DPrP	<10.0 µg/L	< 10.0 µg/L
Di-n-pentyl phthalate,DnPP	<10.0 µg/L	< 10.0 µg/L
Di-n-hexyl phthalate,DHP	<10.0 µg/L	< 10.0 µg/L
Dicyclohexyl phthalate,DCHP	<10.0 µg/L	< 10.0 µg/L
Dinonyl phthalate,DNP	<10.0 µg/L	< 10.0 µg/L
Di-iso-octyl phthalate,DIOP	<10.0 µg/L	< 10.0 µg/L
Di-iso-heptyl phthalate,DIHP	<10.0 µg/L	< 10.0 µg/L
Di- (heptyl, nonyl, undecyl) phthalate),DHNUP	<10.0 µg/L	< 10.0 µg/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. "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); Diisopentyl phthalate,DIPP (CAS No. 605-50-5); 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-pentyl phthalate,DnPP (CAS No. 131-18-0); 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);		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

REPORT NO 1002453297

Revision 1

PAGE: PAGE 36/37

Test Performed: Halogenated Solvents		
Sample Number:	Untreated Wastewater	
	Result	Requirements
1,2-Dichloroethane	<1.0 µg/L	< 1.0 µg/L
Trichloroethylene	<1.0 µg/L	< 1.0 µg/L
Tetrachloroethylene	<1.0 µg/L	< 1.0 µg/L
Dichloromethane	<1.0 µg/L	< 1.0 µg/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. "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)		
Sample Number:	Untreated Wastewater	
	Result	Requirements
Benzene	<1.0 µg/L	< 1.0 µg/L
Toluene	<1.0 µg/L	< 1.0 µg/L
Total Xylenes	<1.0 µg/L	< 1.0 µg/L
p-Cresol	<1.0 µg/L	< 1.0 µg/L
m-Cresol	<1.0 µg/L	< 1.0 µg/L
o-Cresol	<1.0 µg/L	< 1.0 µg/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. "µg/L" means micrograms per liter.		
Benzene (CAS No. 71-43-2); Toluene (CAS No. 108-88-3); 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);		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit

# Test Report

**REPORT NO 1002453297**

**Revision 1**

PAGE: PAGE 37/37

End of Report

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result applies to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of Conformity (Pass/Fail) is taking into account the uncertainty of measurement in accordance with ILAC G8 based on Client Choice mentioned previously on the test request Form. Risk associated and Uncertainty are added on the test report when the uncertainty affects the conformity to the specifications limit