

TEST REPORT NO.:	EHS - LHR-087-2020	Date:	25-03-2020	Page 01 of 19
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Factory Name: **BISMILLAH TEXTILE LIMITED**
 Factory Address: **1 K.M JARANWALA ROAD KHURRIANWALA FAISALABAD**

The following sample was collected by: **SGS Pakistan (Private) Limited**

Sample Received Quantity: **(A) Inlet (8L), (B) Before Treatment water (8L), (C) After treatment water (8L) & (D) Sludge (2kg)**
 Sampling Country: **Pakistan**
 Sampling Date: **05-03-2020**
 Sample Receiving Date: **05-03-2020**
 Test Performing Period: **05-03-2020 - 24-03-2020**
 Sample Description: **(A) Inlet, (B) Before Treatment water, (C) After Treatment water, (D) Sludge**
 Season: **1910**
 Testing Institute: **SGS Pakistan (Private) Limited**
 Discharge Method: **Direct discharge**

Remarks:

- 1.This test document cannot be reproduced in any way, except in full content, without prior approval in writing by the laboratory.
- 2.The results shown in this test report refer only to the sampling and the sample(s) tested unless otherwise stated.

Signed for and on behalf of
 SGS Pakistan (Private) Limited



Syed Faseeh
Senior Manager - Environment, Health & Safety

Slim no. KH20-02850

POSITIVE RESULT SUMMARY

Ref. No.	ITEMS	CAS No.	METHOD	Water					Sludge		
				Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge
2.32	Antimony trioxide*^	1309-64-4	Acid Digestion with ICP analysis	0.5	µg/L	n.d.	66.9	n.d.	0.25	mg/kg	3.00
10.2	Total Lead (Pb)	7439-92-1	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	n.d.	2	n.d.	1	mg/kg	219
10.4	Total Nickel (Ni)	7440-02-0	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	3	15	2	1	mg/kg	31
10.6	Total Arsenic (As)	7440-38-2	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	n.d.	4	n.d.	1	mg/kg	5
10.7	Total Chromium (Cr)	7440-47-3	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	2	6201	10	1	mg/kg	110
10.8	Total Copper (Cu)	7440-50-8	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	3	233	8	1	mg/kg	603
10.9	Total Zinc (Zn)	7440-66-6	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	73	62	66	4	mg/kg	208
10.10	Total Manganese (Mn)	7439-96-5	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	2	49	8	1	mg/kg	234
10.11	Total Antimony (Sb)	7440-36-0	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	n.d.	73	n.d.	1	mg/kg	2
10.12	Total Cobalt (Co)	7440-48-4	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	n.d.	2	n.d.	1	mg/kg	6
19.1	BOD (5-day)	-	SM 5210	2	mg/L	n.d.	67	2	-	-	-
19.2	COD	-	USEPA 410.4 or SM 5220D	5	mg/L	n.d.	232	7	-	-	-
19.3	TSS	-	SM 2540D	5	mg/L	n.d.	105	n.d.	-	-	-
19.4	TDS	-	SM 2540C	5	mg/L	295	2421	865	-	-	-
19.7	pH Value	-	SM 4500H+	-	-	8.1	8.3	8.1	-	-	-
19.8	Colour	-	USEPA 110.2 or SM 2120B or ISO 7887-2011 Method D	5	CU	n.d.	145	n.d.	-	-	-
19.10	Ca Hardness	-	SM 2340B	5	mg/L	98	250	140	-	-	-
19.11	Mg Hardness	-	SM 2340B	5	mg/L	93	300	124	-	-	-

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black

Ref. No.	ITEMS	CAS No.	METHOD	Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge ⁶
1	Phthalates										
1.1	Di-Butyl Phthalate (DBP)	84-74-2	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.2	Di(2-Ethyl Hexyl) Phthalate(DEHP)	117-81-7	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.3	Benzyl Butyl Phthalate (BBP)	85-68-7	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.4	Di-Iso-Nonyl Phthalate (DINP)	28553-12-0, 68515-48-0	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.5	Di-N-Octyl Phthalate (DNOP)	117-84-0	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.6	Di-Iso-Decyl Phthalate (DIDP)	26761-40-0, 68515-49-1	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.7	Di-Iso-Butyl Phthalate (DIBP)	84-69-5	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.8	Di-N-Hexyl Phthalate (DNHP)	84-75-3	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.9	Bis(2-methoxyethyl)phthalate (DMEP)*	117-82-8	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.10	1,2-Benzenedicarboxylic acid, Di-C7-11 Branched and Linear Alkyl Esters (DHNUP)*	68515-42-4	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.11	Di-Iso-Hexyl Phthalate (DIHP)*	71888-89-6	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.12	Di-pentylphthalate (n-, iso-, or mixed) (DPP)*	131-18-0	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.13	D-inonyl Phthalate (DNP)*	84-76-4	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.14	Diethyl Phthalate (DEP)*	84-66-2	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.15	Di-n-propyl Phthalate (DPrP)*	131-16-8	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.16	Di-cyclohexyl Phthalate (DCHP)*	84-61-7	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
1.17	Di-iso-octyl Phthalate (DIOP)*	27554-26-3	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3	mg/kg	n.d.
2	Halogenated Flame retardants										
2.1	Polybrominated biphenyls (PBBs)	Sum of polybrominated biphenyls	-	-	-	-	-	-	-	-	-
2.2	Monobromo biphenyls (MonoBB)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.3	Dibromo biphenyls (DiBB)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.4	Tribromo biphenyls (TriBB)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.5	Tetrabromo bipenyls (TetraBB)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.6	Pentabromo biphenyls (PentaBB)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.7	Hexabromo biphenyls (HexaBB)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.8	Heptabromo biphenyls (HeptaBB)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.9	Octabromo biphenyls (OctaBB)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.10	Nonabromo biphenyls (NonaBB)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black

Ref. No.	ITEMS	CAS No.	METHOD	Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge ⁶
2.11	Decabromo biphenyls (DecaBB)	13654-09-6	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.12	Polybrominated diphenyl ethers (PBDEs)	Sum of polybrominated biphenyls	-	-	-	-	-	-	-	-	-
2.13	Monobromo diphenyl ethers (MonoBDE)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.14	Dibromo diphenyl ethers (DIBDE)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.15	Tribromo diphenyl ethers (TriBDE)	-	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.16	Tetrabromo diphenyl ethers (TetraBDE)	40088-47-9	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.17	Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.18	Hexabromo diphenyl ethers (HexaBDE)	36483-60-0	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.19	Heptabromo diphenyl ethers (HeptaBDE)	68928-80-3	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.20	Octabromo diphenyl ethers (OctaBDE)	32536-52-0	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.21	Nonabromo diphenyl ethers (NonaBDE)	63936-56-1	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.22	Decabromo diphenyl ethers (DecaBDE)	1163-19-5	Solvent extraction followed by GC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
2.23	Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	Solvent extraction followed by GC/MS or LC/MS analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
2.24	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	Solvent extraction followed by GC/MS or LC/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
2.25	Hexabromocyclododecane (HBCDD)	134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194-55-6	Solvent extraction followed by GC/MS or LC/MS analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
2.26	Tetrabromobisphenol A (TBBPA)	79-94-7	Solvent extraction followed by GC/MS or LC/MS analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
	Subgroup: Other Flame Retardants										
2.27	Tris(1-aziridinyl)phosphine oxide (TEPA)*	545-55-1	Solvent extraction followed by GC/MS or LC/MS analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
2.28	Bis(2,3-dibromopropyl)phosphate (BIS)*	5412-25-9	Solvent extraction followed by GC/MS or LC/MS analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
2.29	Sodium Tetraborate**^	1303-96-4, 1303-43-4, 12179-04-3, 215-540-4	Acid Digestion with ICP analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
2.30	Boron trioxide**^	1303-86-2	Acid Digestion with ICP analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
2.31	Boric acid**^	10043-35-3, 11113-50-1	Acid Digestion with ICP analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
2.32	Antimony trioxide**^	1309-64-4	Acid Digestion with ICP analysis	0.5	µg/L	n.d.	86.9	n.d.	0.25	mg/kg	3.00
2.33	Tri-o-cresyl phosphate*	78-30-8	Solvent extraction followed by GC/MS or LC/MS analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
2.34	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)*	13674-87-8	Solvent extraction followed by GC/MS or LC/MS analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
2.35	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)*	3296-90-0	Solvent extraction followed by GC/MS or LC/MS analysis	0.5	µg/L	n.d.	n.d.	n.d.	0.25	mg/kg	n.d.
3	Amines (Associated with Azo dyes)										
3.1	4-Aminodiphenyl	92-67-1	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black

Ref. No.	ITEMS	CAS No.	METHOD	Water					Sludge	
				Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Sludge [®]
3.2	Benzidine	92-87-5	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.3	4-Chloro-o-Toluidine	95-69-2	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.4	2-Naphthylamine	91-59-8	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.5	o-Aminoazotoluene	97-56-3	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.6	2-Amino-4-Nitrotoluene	99-55-8	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.7	p-Chloroaniline	106-47-8	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.8	2,4-Diaminoanisole	615-05-4	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.9	4,4'-Diaminodiphenylmethane	101-77-9	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.10	3,3'-Dichlorobenzidine	91-94-1	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.11	3,3'-Dimethoxybenzidine	119-90-4	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.12	3,3'-Dimethylbenzidine	119-93-7	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.14	p-Cresidine	120-71-8	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.15	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.16	4,4'-Oxydianiline	101-80-4	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.17	4,4'-Thiodianiline	139-65-1	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.18	o-Toluidine	95-53-4	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.19	2,4-Toluylenediamine	95-80-7	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.20	2,4,5-Trimethylaniline	137-17-7	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.21	o-Anisidine	90-04-0	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.22	p-Aminoazobenzene	60-09-3	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.23	2,4-Xyldine	95-68-1	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
3.24	2,6-Xyldine	87-62-7	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
4	Subgroup: Carcinogenic Dyes									
4.1	Acid Red 26*	3761-53-3	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg
4.2	Basic Red 9*	569-61-9	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg
4.3	Basic Violet 14*	632-99-5	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg
4.4	Direct Blue 6*	2602-46-2	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black

Ref. No.	ITEMS	CAS No.	METHOD	Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge ^g
4.5	Direct Red 28*	573-58-0	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.6	Direct Black 38*	1937-37-7	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.7	Disperse Blue 1*	2475-45-8	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.8	Disperse Yellow 3*	2832-40-8	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.9	Disperse Orange 11*	82-28-0	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.10	Disperse Yellow 23*	6250-23-3	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.11	Disperse Orange 149*	85136-74-9	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.12	Solvent Yellow 1*	60-09-3	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.13	Solvent Yellow 2*	60-11-7	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.14	Solvent Yellow 3*	97-56-3	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.15	Solvent Yellow 14*	842-07-9	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.16	Basic Blue 26*	2580-56-5	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.17	Basic Violet 1*	8004-87-3	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.18	Direct Brown 95*	16071-86-6	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.19	Direct Blue 15*	2429-74-5	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.20	Direct Blue 218*	28407-37-6	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.21	Acid Red 114*	6459-94-5	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.22	Acid Violet 49*	1694-09-3	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.23	Basic Green 4 (malachite green chloride)*^	569-64-2	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.24	Basic Green 4 (malachite green oxalate)*^	2437-29-8	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.25	Basic Green 4 (malachite green)*	10309-95-2	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
	Subgroup: Allegenic Disperse Dyes										
4.26	Disperse Blue 1*	2475-45-8	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.27	Disperse Blue 3*	2475-46-9	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.28	Disperse Blue 7*	3179-90-6	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.29	Disperse Blue 26*	3860-63-7	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.30	Disperse Blue 35*	12222-75-2	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.31	Disperse Blue 102*	12222-97-8	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black

Ref. No.	ITEMS	CAS No.	METHOD	Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge ¹
4.32	Disperse Blue 106*	12223-01-7	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.33	Disperse Blue 124*	61951-51-7	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.34	Disperse Brown 1*	23355-64-8	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.35	Disperse Orange 1*	2581-69-3	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.36	Disperse Orange 3*	730-40-5	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.37	Disperse Orange 37/59/76*	13301-61-6	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.38	Disperse Red 1*	2872-52-8	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.39	Disperse Red 11*	2872-48-2	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.40	Disperse Red 17*	3179-89-3	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.41	Disperse Yellow 1*	119-15-3	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.42	Disperse Yellow 3*	2832-40-8	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.43	Disperse Yellow 9*	6373-73-5	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.44	Disperse Yellow 39*	12236-29-2	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
4.45	Disperse Yellow 49*	54824-37-2	Solvent extraction followed by LC/DAD/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
5	Organotin compounds										
5.1	Monobutyltin (MBT)	Multiple	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.2	Dibutyltin (DBT)	Multiple	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.3	Tributyltin (TBT)	56573-85-4	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.4	Triphenyltin (TPhT)	Multiple	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.5	Diocetyl tin (DOT)	15231-44-4	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.6	Monooctyltin (MOT)	Multiple	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.7	Diphenyltin (DPhT)	1011-95-6	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.8	Tetrabutyltin (TeBT)	Multiple	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.9	Tricyclohexyltin (TCyT)	Multiple	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.10	Tripropyltin (TPT)	Multiple	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.11	Tetraethyltin (TeET)*	597-64-8	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.12	Bis(tributyltin) oxide (TBTO)**	56-35-9	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
5.13	Dibutyltin dichloride (DBTC)**	683-18-1	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black

Ref. No.	ITEMS	CAS No.	METHOD	Water					Sludge	
				Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Sludge [®]
5.14	Triphenyltin (TPT)*	668-34-8	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
5.15	Dibutyltin hydrogen borate (DBB)**	75113-37-0	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
5.16	Dimethyltin (DMT)*	Multiple	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
5.17	Trioctyltin (TOT)*	Multiple	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
5.18	Trimethyltin (TMT)*	Multiple	With reference to DIN EN17353 and followed by GC/MS analysis.	0.01	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6	Chloro- Benzenes									
6.1	Monochlorobenzene	108-90-7	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.2	Dichlorobenzene	Sum of dichlorobenzenes	-	-	-	n.d.	n.d.	n.d.	0.01	mg/kg
6.3	1,2-Dichlorobenzene	95-50-1	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.4	1,3-Dichlorobenzene	541-73-1	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.5	1,4-Dichlorobenzene	106-46-7	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.6	Trichlorobenzene	Sum of trichlorobenzene	-	-	-	n.d.	n.d.	n.d.	0.01	mg/kg
6.7	1,2,3-Trichlorobenzene	87-61-6	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.8	1,2,4-Trichlorobenzene	120-82-1	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.9	1,3,5-Trichlorobenzene	108-70-3	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.10	Tetrachlorobenzene	Sum of tetrachlorobenzene	-	-	-	n.d.	n.d.	n.d.	0.01	mg/kg
6.11	1,2,3,4-Tetrachlorobenzene	634-66-2	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.12	1,2,3,5-Tetrachlorobenzene	634-90-2	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.13	1,2,4,5-Tetrachlorobenzene	95-94-3	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.14	Pentachlorobenzene	608-93-5	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.15	Hexachlorobenzene	118-74-1	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
	Chloro-Toluenes									
6.16	2-Chlorotoluene*	95-49-8	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.17	3-Chlorotoluene*	108-41-8	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.18	4-Chlorotoluene*	106-43-4	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.19	2,3-Dichlorotoluene*	32768-54-0	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.20	2,4-Dichlorotoluene*	95-73-8	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
6.21	2,5-Dichlorotoluene*	19398-61-9	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black

Ref. No.	ITEMS	CAS No.	METHOD	Water		Sludge		Sludge [®]	
				Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit
6.22	2,6-Dichlorotoluene*	118-69-4	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.23	3,4-Dichlorotoluene*	95-75-0	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.24	2,3,6-Trichlorotoluene*	2077-46-5	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.25	2,4,5-Trichlorotoluene*	6639-30-1	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.26	Benzotrichloride*	98-07-7	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.27	alfa,2,4-Trichlorotoluene*	94-99-5	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.28	alfa,2,6-Trichlorotoluene*	2014-83-7	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.29	alfa,3,4-Trichlorotoluene*	102-47-6	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.30	alpha, alpha, 2,6-Tetrachlorotoluene*	81-19-6	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.31	alpha, alpha, alpha, 2-Tetrachlorotoluene*	2136-89-2	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.32	alpha, alpha, alpha, 4-Tetrachlorotoluene*	5216-25-1	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
6.33	2,3,4,5,6-Pentachlorotoluene*	877-11-2	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	0.02	µg/L	n.d.	n.d.	n.d.	0.01 mg/kg
7	Chlorinated solvents								
7.1	Dichloromethane	75-09-2	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.2	Chloroform	67-66-3	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.3	Tetrachloromethane	56-23-5	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.4	1,1,2-Trichloroethane	79-00-5	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.5	1,1-Dichloroethane	75-34-3	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.6	1,2-Dichloroethane	107-06-2	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.7	Trichloroethylene	79-01-6	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.8	Perchloroethylene	127-18-4	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.9	1,1,1-Trichloroethane	71-55-6	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.10	1,1,1,2-Tetrachloroethane	630-20-6	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.11	1,1,2,2-Tetrachloroethane	79-34-5	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.12	Pentachloroethane	76-01-7	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
7.13	1,1-Dichloroethylene	75-35-4	With reference to USEPA 8260C or Head-space or Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.3 mg/kg
	Other VOCs								
7.14	Methyl-ethyl ketone*	78-93-3	With reference to USEPA 8260C or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.1 mg/kg

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black

Ref. No.	ITEMS	CAS No.	METHOD	Water					Sludge		
				Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge [®]
7.15	Benzene*	71-43-2	With reference to USEPA 8260C or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
7.16	Toluene*	108-88-3	With reference to USEPA 8260C or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
7.17	Ethylbenzene*	100-41-4	With reference to USEPA 8260C or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
7.18	Xylene*	1330-20-7	With reference to USEPA 8260C or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
7.19	Styrene*	100-42-5	With reference to USEPA 8260C or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
7.20	Cyclohexanone*	108-94-1	With reference to USEPA 8260C or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	2	mg/kg	n.d.
7.21	1,2,3-Trichloropropane*	96-18-4	With reference to USEPA 8260C or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
7.22	Acetophenone*	98-86-2	With reference to USEPA 8270D or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
7.23	N,N-Dimethylformamide*	68-12-2	With reference to USEPA 8270D or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
7.24	1-Methyl-2-pyrrolidone*	872-50-4	With reference to USEPA 8270D or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	50	mg/kg	n.d.
7.25	2-Phenyl-2-propanol*	617-94-7	With reference to USEPA 8270D or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
7.26	N,N-Dimethylacetamide*	127-19-5	With reference to USEPA 8270D or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	20	mg/kg	n.d.
7.27	o-Cresol*	95-48-7	With reference to USEPA 8270D or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	20	mg/kg	n.d.
7.28	p-Cresol*	106-44-5	With reference to USEPA 8270D or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	20	mg/kg	n.d.
7.29	m-Cresol*	108-39-4	With reference to USEPA 8270D or Head-space or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	20	mg/kg	n.d.
7.30	Formaldehyde (gas)*	50-00-0	With reference to USEPA 8315A or Solvent extraction with HPLC analysis or Distillation followed by UV analysis	10	µg/L	n.d.	n.d.	n.d.	20	mg/kg	n.d.
8	Chloro- Phenols										
8.1	Pentachlorophenols (PCP)	87-86-5	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.2	Tetrachlorophenols (TeCP)	Sum of tetrachlorophenols 25167-83-3	-	-	-	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.3	2,3,4,5-Tetrachlorophenol	4901-51-3	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.4	2,3,4,6-Tetrachlorophenol	58-90-2	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.5	2,3,5,6-Tetrachlorophenol	935-95-5	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.6	Trichlorophenol (TriCP)	Sum of trichlorophenols	-	-	-	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.7	2,3,4-Trichlorophenol	15950-66-0	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.8	2,3,5-Trichlorophenol	933-78-8	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.9	2,3,6-Trichlorophenol	933-75-5	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.10	2,4,5-Trichlorophenol	95-95-4	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.11	2,4,6-Trichlorophenol	88-06-2	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black
Water			Sludge	

Ref. No.	ITEMS	CAS No.	METHOD	Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge [®]
8.12	3,4,5-Trichlorophenol	609-19-8	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.13	Dichlorophenols (DICP)	Sum of dichlorophenols	-	-	-	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.14	2,3-Dichlorophenol	576-24-9	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.15	2,4-Dichlorophenol	120-83-2	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.16	2,5-Dichlorophenol	583-78-8	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.17	2,6-Dichlorophenol	87-65-0	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.18	3,4-Dichlorophenol	95-77-2	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.19	3,5-Dichlorophenol	591-35-5	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.20	Mono Chlorophenol	Sum of monochlorophenols	-	-	-	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.21	2-Chlorophenol	95-57-8	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.22	3-Chlorophenol	108-43-0	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
8.23	4-Chlorophenol	106-48-9	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg	n.d.
9	Short Chain Chlorinated Paraffins (SCCP) with C10 –C13										
9.1	Short Chain Chlorinated Paraffins (SCCP), C ₁₀ -C ₁₃	85535-84-8	Solvent extraction followed by GC/ECD and GC/NCI analysis	0.4	µg/L	n.d.	n.d.	n.d.	0.03	mg/kg	n.d.
10	Heavy Metals										
10.1	Total Cadmium (Cd)	7440-43-9	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	1	mg/kg	n.d.
10.2	Total Lead (Pb)	7439-92-1	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	n.d.	2	n.d.	1	mg/kg	219
10.3	Total Mercury (Hg)	7439-97-6	With reference to USEPA 7473 or Acid Digestion with ICP or ICP/MS analysis	0.05	µg/L	n.d.	n.d.	n.d.	0.006	mg/kg	n.d.
10.4	Total Nickel (Ni)	7440-02-0	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	3	15	2	1	mg/kg	31
10.5	Total Hexavalent Chromium (Cr-VI)	18540-29-9	With reference to APHA 3500Cr A&B or Solvent extraction and derivatisation followed by UV analysis	1	µg/L	n.d.	n.d.	n.d.	1	mg/kg	n.d.
10.6	Total Arsenic (As)	7440-38-2	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	n.d.	4	n.d.	1	mg/kg	5
10.7	Total Chromium (Cr)	7440-47-3	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	2	6201	10	1	mg/kg	110
10.8	Total Copper (Cu)	7440-50-8	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	3	233	8	1	mg/kg	603
10.9	Total Zinc (Zn)	7440-66-6	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	73	62	66	4	mg/kg	208
10.10	Total Manganese (Mn)	7439-96-5	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	2	49	8	1	mg/kg	234
10.11	Total Antimony (Sb)	7440-36-0	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	n.d.	73	n.d.	1	mg/kg	2
10.12	Total Cobalt (Co)	7440-48-4	With reference to USEPA 200.8, SM 3125 or Acid Digestion with ICP or ICP/MS analysis	1	µg/L	n.d.	2	n.d.	1	mg/kg	6

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black
Water			Sludge	

Ref. No.	ITEMS	CAS No.	METHOD	Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge [®]
11	Alkylphenols (APEOs)										
11.1	Octylphenol	various 140-66-9, 27193-28-8, 1806-26-4 various	With reference to DIN EN ISO 18857 and followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.2	mg/kg	n.d.
11.2	Nonylphenol	11066-49-2, 25154-52-3, 104-40-5, 90481-04-2, 94050-15-2, 1172019-62-0 various	With reference to DIN EN ISO 18857 and followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.2	mg/kg	n.d.
11.3	NPEO, n=1~2	various	With reference to DIN EN ISO 18857 and followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.2	mg/kg	n.d.
11.4	NPEO, n=3~18	various 9016-45-9, 26027-38-3 68412-54-4, 127087-87-0, 27205-97-1	With reference to DIN EN ISO 18857 and followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.2	mg/kg	n.d.
11.5	OPEO, n=1~2	various	With reference to DIN EN ISO 18857 and followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.2	mg/kg	n.d.
11.6	OPEO, n=3~18	various 9002-93-1, 9036-19-5, 68987-90-6	With reference to DIN EN ISO 18857 and followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.2	mg/kg	n.d.
12	PFCs (Perfluorocarbon / Polyfluorinated Compounds)										
12.1	PFOA	335-67-1	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.
12.2	PFNA	375-95-1	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.
12.3	PFBS	375-73-5, 59933-66-3	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.
12.4	PFOS (include POSF)	1763-23-1	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.
12.5	POSF (reported as PFOS)	307-35-7	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.
12.6	4:2 FTOH	2043-47-2	With reference to CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
12.7	6:2 FTOH	647-42-7	With reference to CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
12.8	8:2 FTOH	678-39-7	With reference to CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
12.9	10:2 FTOH	865-86-1	With reference to CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
12.10	PFHXS	355-46-4	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.
12.11	PFHXA	307-24-4	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.
12.12	PFOSA	754-91-6	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
12.13	N-Me-FOSA	31506-32-8	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
12.14	N-Et-FOSA	4151-50-2	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
12.15	N-Me-FOSE alcohol	24448-09-7	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
12.16	N-Et-FOSE alcohol	1691-99-2	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
12.17	PFBA	375-22-4	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.
12.18	PFPa	2706-90-3	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.
12.19	PFPa	375-85-9	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.
12.20	PFDA	335-76-2	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg	n.d.

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black

Ref. No.	ITEMS	CAS No.	METHOD	Water					Sludge	
				Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Sludge [®]
12.21	PfUnA	2058-94-8	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg
12.22	PfDoA	307-55-1	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg
12.23	PfTrA	72629-94-8	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg
12.24	PfTeA	376-06-7	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg
12.25	PfHpS	375-92-8	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg
12.26	PfDS	335-77-3	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg
12.27	6:2 FTA	17527-29-6	With reference to CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
12.28	8:2 FTA	27905-45-9	With reference to CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
12.29	10:2 FTA	17741-60-5	With reference to CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.1	µg/L	n.d.	n.d.	n.d.	0.01	mg/kg
12.30	PF-3,7-DMOA	172155-07-6	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg
12.31	HPFHpA	1546-95-8	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg
12.32	4HPFUnA	34598-33-9	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg
12.33	1H, 1H, 2H, 2H- PFOS	27619-97-2	With reference to USEPA 537 or CEN/TS 15968 and followed by GC/MS or LC/MS analysis	0.01	µg/L	n.d.	n.d.	n.d.	0.001	mg/kg
13	Ortho- Phenylphenol									
13.1	o-Phenylphenol (OPP)	90-43-7	With reference to BS EN 12673 or Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5	µg/L	n.d.	n.d.	n.d.	0.025	mg/kg
14	Glycols									
14.1	Bis(2-methoxyethyl)-ether	111-96-6	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	20	mg/kg
14.2	2-Ethoxyethanol	110-80-5	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	20	mg/kg
14.3	2-Ethoxyethyl acetate	111-15-9	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg
14.4	Ethylene glycol dimethyl ether	110-71-4	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg
14.5	2-Methoxyethanol	109-86-4	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg
14.6	2-Methoxyethylacetate	110-49-6	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg
14.7	2-Methoxypropylacetate	70657-70-4	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg
14.8	Triethylene glycol dimethyl ether	112-49-2	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg
15	Polycyclic Aromatic Hydrocarbons (PAHs)									
15.1	Bezno[a]pyrene (BaP)	50-32-8	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg
15.2	Anthracene	120-12-7	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg
15.3	Pyrene	129-00-0	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg
15.4	Benzo[ghi]perylene	191-24-2	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black

Ref. No.	ITEMS	CAS No.	METHOD	Water					Sludge		
				Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge [®]
15.5	Benzo[e]pyrene	192-97-2	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.6	Indeno[1,2,3-cd]pyrene	193-39-5	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.7	Benzo[j]fluoranthene	205-82-3	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.8	Benzo[b]fluoranthene	205-99-2	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.9	Fluoranthene	206-44-0	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.10	Benzo[k]fluoranthene	207-08-9	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.11	Acenaphthylene	208-96-8	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.12	Chrysene	218-01-9	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.13	Dibenz[a,h]anthracene	53-70-3	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.14	Benzo[a]anthracene	56-55-3	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.15	Acenaphthene	83-32-9	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.16	Phenanthrene	85-01-8	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.17	Fluorene	86-73-7	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
15.18	Naphthalene	91-20-3	With reference to USEPA 8270D or Solvent extraction followed by GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	0.1	mg/kg	n.d.
16	Biocides										
16.1	Aldrin*	309-00-2	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.2	Captafol*	2425-06-1	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.3	Chlordane*	57-74-9	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.4	DDT*	50-29-3	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.5	o,p'-DDT*	789-02-6	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.6	Dieldrin*	60-57-1	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.7	Endrin*	72-20-8	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.8	Heptachlor*	76-44-8	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.9	Hexachlorobenzene*	118-74-1	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.10	α-Hexachlorocyclohexane*	319-84-6	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.11	β-Hexachlorocyclohexane*	319-85-7	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.12	δ-Hexachlorocyclohexane*	319-86-8	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.13	2,4,5- T*	93-76-5	With reference to USEPA 8151A or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black
Water			Sludge	

Ref. No.	ITEMS	CAS No.	METHOD	Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge [®]
16.14	2,4-D*	94-75-7	With reference to USEPA 8151A or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.15	Chlordimeform*	6164-98-3	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.16	Ethyl-4,4'-dichlorobenzilate*	510-15-6	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.17	Dinoseb*	88-85-7	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.18	Monocrotophos*	6923-22-4	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.19	Pentachlorophenol*	87-86-5	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.20	Toxaphene*	8001-35-2	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.21	Methamidophos*	10265-92-6	Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.22	Methyl parathion*	298-00-0	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.23	Parathion*	56-38-2	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.24	Phosphamidon*	13171-21-6	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.25	Lindane*	58-89-9	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.26	DDD*	53-19-0	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.27	DDD (Dichlorodiphenyl-dichloroethane)*	72-54-8	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.28	Diazinon*	333-41-5	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.29	Propetantfos*	31218-83-4	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.30	Chlorfenvinphos*	470-90-6	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.31	Diclorofention*	97-17-6	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.32	Clorpyrifos*	5598-15-2	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.33	Fenchlorphos*	299-84-3	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.34	Diffubenzurone*	35367-38-5	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.35	Triflumurone*	64628-44-0	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.36	Cypermethrin*	52315-07-8	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.37	Deltamethrin*	52918-63-5	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.38	Fenvalerate*	51630-58-1	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.39	Cyhalothrin*	91465-08-6	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.40	Flumethrin*	69770-45-2	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.41	Azinophosmethyl*	86-50-0	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.42	Azinophosethyl*	2642-71-9	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**

Factory: **Bismillah Textile**

Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black
Water				Sludge

Ref. No.	ITEMS	CAS No.	METHOD	Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge ⁶
16.43	Bromophos-ethyl*	4824-78-6	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.44	Carbaryl*	63-25-2	Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.45	Coumaphos*	56-72-4	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.46	Cyfluthrin*	68359-37-5	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.47	DEF*	78-48-8	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.48	DDE*	3424-82-6 72-55-9	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.49	Dichlorprop*	120-36-5	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.50	Dicrotophos*	141-66-2	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.51	Dimethoate*	60-51-5	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.52	Endosulfan, α-*	959-98-8	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.53	Endosulfan, β-*	33213-65-9	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.54	Esfenvalerate*	66230-04-4	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.55	Heptachloroepoxide*	1024-57-3	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.56	Isodrine*	465-73-6	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.57	Kelevane*	4234-79-1	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.58	Kepone*	143-50-0	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.59	Malathion*	121-75-5	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.60	MCPA*	94-74-6	With reference to USEPA 8151A or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.61	MCPB*	94-81-5	With reference to USEPA 8151A or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.62	Mecoprop*	93-65-2	With reference to USEPA 8151A or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.63	Mirex*	2385-85-5	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.64	Methoxychlor*	72-43-5	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.65	Perthane*	72-56-0	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.66	Phosdrin/Mevinphos*	7786-34-7	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.67	Profenophos*	41198-08-7	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.68	Quinalphos*	13593-03-8	With reference to USEPA 8270D or USEPA 8141B or Solvent extraction followed by GC/MS or GC/FPD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.69	Strobane*	8001-50-1	With reference to USEPA 8270D or With reference to USPEA 8081B or Solvent extraction followed by GC/MS or GC/ECD or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.70	Telodrine*	297-78-9	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
16.71	Trifluralin*	1582-09-8	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.

ORGANIC & INORGANIC ANALYSIS

Report No. **EHS-LHR-087-2020**
Factory: **Bismillah Textile**
Sampling Address: **1 K.M Jaranwala Road Khurrianwala Faisalabad**

Sample ID	2850-01-20	2850-02-20	2850-03-20	2850-04-20
Sampling Location	Inlet	Before Treatment	After Treatment	Sludge
Sampling Time	10:30	11:10 – 13:10	11:00 – 13:00	13:30
Date Sampled	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Date Received	05-03-2020	05-03-2020	05-03-2020	05-03-2020
Sample Description	Colourless (no foam)	Green (no foam)	Colourless (no foam)	Black
Water			Sludge	

Ref. No.	ITEMS	CAS No.	METHOD	Reporting Limit	Unit	Inlet	Before Treatment	After Treatment	Reporting Limit	Unit	Sludge ⁶
17	Biocides - Anti-Mould										
17.1	Dimethyl fumarate (DMFu)*	624-49-7	Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
18	Nitrosamines										
18.1	N-Nitrosodimethylamine (NDMA)*	62-75-9	With reference to USEPA 8070 A or solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
18.2	N-Nitrosodiethylamine (NDEA)	55-18-5	Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
18.3	N-Nitrosodi-n-propylamine (NDPA)*	621-64-7	With reference to USEPA 8070 A or solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
18.4	N-Nitrosodi-n-butylamine (NDBA)*	924-16-3	Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
18.5	N-Nitrosopiperidine (NPIP)*	100-75-4	Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
18.6	N-Nitrosopyrrolidine (NPYR)*	930-55-2	Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
18.7	N-Nitrosomorpholine (NMOR)*	59-89-2	Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
18.8	N-Nitroso N-methyl N-phenylamine (NMPHA)*	614-00-6	Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
18.9	N-Nitroso-N-ethyl-N-phenylamine (NEPHA)*	612-64-6	Solvent extraction with GC/MS analysis	1	µg/L	n.d.	n.d.	n.d.	10	mg/kg	n.d.
19	General Chemistry										
19.1	BOD (5-day)	-	SM 5210	2	mg/L	n.d.	67	2	-	-	-
19.2	COD	-	USEPA 410.4 or SM 5220D	5	mg/L	n.d.	232	7	-	-	-
19.3	TSS	-	SM 2540D	5	mg/L	n.d.	105	n.d.	-	-	-
19.4	TDS	-	SM 2540C	5	mg/L	295	2421	865	-	-	-
19.5	Cyanide	-	APHA 4500 CN—B,C & E	0.01	mg/L	n.d.	n.d.	n.d.	0.01	mg/kg	n.d.
19.6	Sulfide	-	SM 4500-S2-D	0.005	mg/L	n.d.	n.d.	n.d.	-	-	-
19.7	pH Value	-	SM 4500H+	-	-	8.1	8.3	8.1	-	-	-
19.8	Colour	-	USEPA 110.2 or SM 2120B or ISO 7887-2011 Method D	5	CU	n.d.	145	n.d.	-	-	-
19.9	Total phenolics	-	SM 5530B	0.002	mg/L	n.d.	n.d.	n.d.	-	-	-
19.10	Ca Hardness	-	SM 2340B	5	mg/L	98	250	140	-	-	-
19.11	Mg Hardness	-	SM 2340B	5	mg/L	93	300	124	-	-	-
19.12	Percentage moisture	-	In-house method	-	-	-	-	-	-	%	57.9

Note:

n.d. = Not detected

*Best current testing technology with the lowest detection limit

^The test result is based on the calculation of selected element(s) and to the worst-case scenario

*The sample is tested based on dry mass

SAMPLE PICTURES

INLET WATER



GPS for this point ; 31°29'29.9"N 73°16'49.5"E

AFTER TREATMENT WATER



GPS for this point ; 31°29'30.0"N 73°16'48.4"E

BEFORE TREATMENT WATER



GPS for this point ; 31°29'29.6"N 73°16'49.4"E

SLUDGE



GPS for this point ; 31° 29' 30.39"N, 73° 16' 47.80"E

PIPING PLAN

