

Test Report

Client: Jack Wolfskin

Factory name: - **Supplier 5017**

Factory Address: -

Report No.: PX/2015/90072~73a

Date Reported: 2015/10/20

Date Sampled: 2015/09/10

Sample (s): Water, Sludge

REMARKS

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2. The results shown in this test report refer only to the sampling and the sample(s) tested unless otherwise stated.



Carry Kuo

Manager





Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement	Reporting Limit	Sludge	Local Requirement
2.27	Sodium Tetraborate**^	1303-96-4, 1303-43-4, 12179-04-3, 215-540-4	Acid Digestion with ICP analysis	0.5 µg/L	93.8	1113.2	906.2		0.25 mg/kg	81.88	
2.28	Boron trioxide**^	1303-86-2	Acid Digestion with ICP analysis	0.5 µg/L	65.7	779.2	634.3		0.25 mg/kg	57.31	
2.29	Boric acid**^	10043-35-3, 11113-50-1	Acid Digestion with ICP analysis	0.5 µg/L	116.7	1384.1	1126.7		0.25 mg/kg	101.80	
2.30	Antimony trioxide**^	1309-64-4	Acid Digestion with ICP analysis	0.5 µg/L	-	27.8	13.2		0.25 mg/kg	27.05	
6.4	1,2,3-Trichlorobenzene	87-61-6	Solvent extraction with GC/MS analysis	0.02 µg/L	-	-	0.03		0.01 mg/kg	-	
6.5	1,2,4-Trichlorobenzene	120-82-1	Solvent extraction with GC/MS analysis	0.02 µg/L	-	-	0.03		0.01 mg/kg	-	
6.6	1,3,5-Trichlorobenzene	108-70-3	Solvent extraction with GC/MS analysis	0.02 µg/L	-	-	0.02		0.01 mg/kg	-	
7.1	Dichloromethane	75-09-2	Solvent extraction with GC/MS analysis	1 µg/L	2	-	2		0.3 mg/kg	-	
8.5	2,4,6-trichlorophenol	88-06-2	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	-	-	-		0.025 mg/kg	0.136	
8.12	2,4-dichlorophenol	120-83-2	Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	-	-	-		0.025 mg/kg	0.057	
10.2	Total Lead (Pb)	7439-92-1	Acid Digestion with ICP analysis	1 µg/L	-	2	-		1 mg/kg	4	
10.3	Total Mercury (Hg)	7439-97-6	Acid Digestion with ICP analysis	0.05 µg/L	-	0.05	-		0.006 mg/kg	0.081	
10.4	Total Nickel (Ni)	7440-02-0	Acid Digestion with ICP analysis	1 µg/L	-	2	-		1 mg/kg	4	

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Page (2 of 16)

TWB 5055469

Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge		
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement	Reporting Limit	Sludge
10.5	Total Hexavalent Chromium (Cr-VI)	18540-29-9	Solvent extraction and derivatisation followed by UV analysis	1 µg/L	2	3	-		1 mg/kg	1
10.6	Total Arsenic (As)	7440-38-2	Acid Digestion with ICP analysis	1 µg/L	-	5	4		1 mg/kg	13
10.7	Total Chromium (Cr)	7440-47-3	Acid Digestion with ICP analysis	1 µg/L	-	110	4		1 mg/kg	133
10.8	Total Copper (Cu)	7440-50-8	Acid Digestion with ICP analysis	1 µg/L	5	3	1		1 mg/kg	16
10.9	Total Zinc (Zn)	7440-66-6	Acid Digestion with ICP analysis	1 µg/L	33	99	29		4 mg/kg	91
10.10	Total Manganese (Mn)	7439-96-5	Acid Digestion with ICP analysis	1 µg/L	103	217	58		1 mg/kg	146
10.11	Total Antimony (Sb)	7440-36-0	Acid Digestion with ICP analysis	1 µg/L	-	23	11		1 mg/kg	23
10.12	Total Cobalt (Co)*	7440-48-4	Acid Digestion with ICP analysis	1 µg/L	-	18	1		1 mg/kg	13
11.1	Octylphenol	various 140-66-9, 27193-28-8, 1806-26-4	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	-	-	2		0.2 mg/kg	-
11.2	Nonylphenol	various 25154-52-3, 104-40-5, 90481-04-2, 84852-15-3, 1173019-62-9	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	-	-	1		0.2 mg/kg	-
11.3	NPEO, n=1-2	various	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	-	-	7		0.2 mg/kg	-

Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement	Reporting Limit	Sludge	Local Requirement
11.4	NPEO, n=3~18	various 9016-45-9, 26027-38-3 68412-54-4, 127087-87-0, 37205-87-1	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	-	14	-		0.2 mg/kg	-	
11.5	OPEO, n=1~2	various	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	-	-	13		0.2 mg/kg	-	
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 LC/MS analysis	1 µg/L	-	62	-		0.2 mg/kg	4.1	
12.1	PFOA	335-67-1	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	-	0.13	-		0.001 mg/kg	0.002	
12.2	PFNA	375-95-1	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	-	0.03	-		0.001 mg/kg	-	
12.11	PFHXA	307-24-4	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	-	0.24	0.05		0.001 mg/kg	0.007	
12.19	PFHpA	375-85-9	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	-	0.07	-		0.001 mg/kg	-	

Positive result summary

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge		
				Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement	Reporting Limit	Sludge
12.20	PFDA	335-76-2	With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	-	0.02	-		0.001 mg/kg	-
14.11	Acenaphthylene	208-96-8	Solvent extraction with GC/MS analysis	1 µg/L	3	-	-		10 mg/kg	-
14.18	Naphthalene	91-20-3	Solvent extraction with GC/MS analysis	1 µg/L	-	4	3		0.1 mg/kg	3.1
15.1	BOD (5-day)	-	SM 5210	2 mg/L	-	243	27		-	-
15.2	COD	-	USEPA 410.4 or SM 5220D	5 mg/L	-	529	92		-	-
15.3	TSS	-	SM 2540D	5 mg/L	-	279	16		-	-
15.4	TDS	-	SM 2540C	5 mg/L	266	1390	795		-	-
15.5	Cyanide	-	APHA 4500 CN—B, C & E	0.01 mg/L	-	0.01	-		0.01 mg/kg	0.20
15.6	Sulfide	-	SM 4500-S2-D	0.005 mg/L	0.023	0.019	0.012		-	-
15.8	Colour	-	USEPA 110.2 or SM 2120B or ISO 7887-2011 Method D	5 CU	-	125	25		-	-
15.9	Total phenolics	-	SM 5530B	0.002 mg/L	-	0.050 ^A	0.033		-	-
15.10	Ca Hardness	-	SM 2340B	5 mg/L	49	483	90		-	-
15.11	Mg Hardness	-	SM 2340B	5 mg/L	16	190	24		-	-
15.12	AOX [†]	-	-	20 µg/L	-	280	59		10 mg/kg	1900
15.13	Percentage moisture	-	in-house method	-	-	-	-		%	22.5



INORGANIC & ORGANIC ANALYSIS

Report No.: PX201509072-73a

Factory:-

Sampling Address:-

Report No. : PX201590072-73a									
Factory -									
Sampling Address:-									
Sampling Location									
Sampling Time									
Date Sampled									
Date Received									
Sample Description									

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX201500072-73a

Factory:-

Sampling Address:-

Report No. : PX/2015/90072-73a											
Factory:-											
Sampling Address:-											
Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
Subgroup: Other Flame Retardants											
2.25	Tris(1-aziridinyl)phosphine oxide) (TEPA)*	5455-55-1	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5		0.25 mg/kg	<0.25	
2.26	Bis(2,3-dibromopropyl)phosphate (BIS)*	5412-25-9	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5		0.25 mg/kg	<0.25	
2.27	Sodium Tetraborate**	1303-96-4, 1303-43-4, 12179-04-3, 215-540-4	Acid Digestion with ICP analysis	0.5 µg/L	93.8	1113.2	906.2		0.25 mg/kg	81.88	
2.28	Boron trioxide**	1303-86-2	Acid Digestion with ICP analysis	0.5 µg/L	65.7	779.2	634.3		0.25 mg/kg	57.31	
2.29	Boric acid**	10043-35-3, 11113-50-1	Acid Digestion with ICP analysis	0.5 µg/L	116.7	1384.1	1126.7		0.25 mg/kg	101.80	
2.30	Antimony trioxide**	1309-64-4	Acid Digestion with ICP analysis	0.5 µg/L	<0.5	27.8	13.2		0.25 mg/kg	27.05	
2.31	Tri-o-cresyl phosphate*	78-30-8	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5		0.25 mg/kg	<0.25	
2.32	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)*	13674-87-8	Solvent extraction with GC/MS or LC/MS analysis	0.5 µg/L	<0.5	<0.5	<0.5		0.25 mg/kg	<0.25	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
3.5	o-Aminoazobluene	97-56-3	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis.	0.01 µg/L	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01	

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Page (7 of 16)

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX201509072-73a

Factory:-

Sampling Address:-

Ref. No	ITEMS	CAS No.	METHOD	Water					Sludge	
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge
				Sampling Location Sampling Time Date Sampled Date Received Sample Description	09:15-10:00 2015/09/10 2015/09/10 2015/09/10 -	10:05-10:50 2015/09/10 2015/09/10 2015/09/10 -	10:55-11:30 2015/09/10 2015/09/10 2015/09/10 -	Local Requirement (if applicable)	11:35-11:50 2015/09/10 2015/09/10 2015/09/10 -	Local Requirement (if applicable)
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
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	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
3.23	2,4-Xyldine	95-88-1	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
3.24	2,5-Xyldine	87-62-7	With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
4	Subgroup: Carcinogenic Dyes									
4.1	Acid Red 26*	3761-53-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.2	Basic Red 9*	569-61-9	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.3	Basic Violet 14*	632-99-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.4	Direct Blue 6*	2602-46-2	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.5	Direct Red 28*	573-58-0	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.6	Direct Black 38*	1937-37-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.7	Disperse Blue 1*	2475-45-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.8	Disperse Yellow 3*	2832-40-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.9	Disperse Orange 11*	82-28-0	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.10	Disperse Orange 23*	6250-23-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.11	Disperse Orange 149*	85136-74-9	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.12	Solvent Yellow 1*	60-09-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.13	Solvent Yellow 2*	60-11-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.14	Solvent Yellow 3*	97-56-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.15	Solvent Yellow 14*	842-07-9	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.16	Basic Blue 26*	2580-56-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.17	Basic Blue 26*	8004-87-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.18	Basic Violet 1*	16071-86-6	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.19	Direct Brown 95*	2429-74-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.20	Direct Blue 15*	2429-74-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.21	Direct Blue 218*	28407-37-6	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.22	Acid Red 114*	6459-94-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.23	Acid Violet 49*	1694-09-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.23	Subgroup: Allegenic Disperse Dyes									
4.24	Disperse Blue 1*	2475-45-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.25	Disperse Blue 3*	2475-46-9	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1
4.25	Disperse Blue 7*	3179-90-6	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.1 mg/kg	<0.1

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX201509072-73a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
4.26	Disperse Blue 26*	3860-63-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.27	Disperse Blue 35*	12222-75-2	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.28	Disperse Blue 102*	12222-97-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.29	Disperse Blue 106*	12222-01-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.30	Disperse Blue 124*	61951-51-7	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.31	Disperse Brown 1*	23365-64-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.32	Disperse Orange 1*	2581-69-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.33	Disperse Orange 3*	730-40-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.34	Disperse Orange 37/76*	13301-61-6	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.35	Disperse Red 1*	2872-52-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.36	Disperse Red 11*	2872-48-2	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.37	Disperse Red 17*	3179-89-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.38	Disperse Yellow 1*	119-15-3	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.39	Disperse Yellow 3*	2832-40-8	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.40	Disperse Yellow 9*	6373-73-5	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.41	Disperse Yellow 39*	12236-29-2	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
4.42	Disperse Yellow 49*	54624-37-2	Solvent extraction with LC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1	<0.1	0.1 mg/kg	<0.1	<0.1
5	Organotin compounds										
5.1	Monobutyltin (MBT)	1118-46-3	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.2	Diethyltin (DBT)	1002-53-5	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.3	Tributyltin (TBT)	56573-85-4	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.4	Triphenyltin (TPHT)	892-20-6	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.5	Dioctyltin (DOT)	94410-05-6	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.6	Monooctyltin (MOT)	15231-44-4	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.7	Diphenyltin (DPHT)	1011-95-6	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.8	Tetraethyltin (TeBT)	1461-25-2	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.9	Tricyclohexyltin (TCyT)	NA	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.10	Tripropyltin (TPt)	NA	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.11	Tetraethyltin (TeET)	597-64-8	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.12	Bis(tributyltin) oxide (TBTO)*	56-35-9	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.13	Diethyltin dichloride (DBTC)*	683-18-1	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01
5.14	Triphenyltin (TPt)*	668-34-8	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01	<0.01	0.01 mg/kg	<0.01	<0.01

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX201500072-73a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water					Sludge	
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge
5.15	Dibutyltin hydrogen borate (DBB)*	75113-37-0	With reference to DIN EN17353 and followed by GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.01 mg/kg	<0.01
6	Chloro-Benzenes									
6.1	1,2-Dichlorobenzene	95-50-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.2	1,3-Dichlorobenzene	541-73-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.3	1,4-Dichlorobenzene	106-46-7	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.4	Trichlorobenzene	various	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	0.03		0.01 mg/kg	<0.01
6.5	1,2,3-Trichlorobenzene	87-61-6	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	0.03		0.01 mg/kg	<0.01
6.6	1,2,4-Trichlorobenzene	120-82-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	0.02		0.01 mg/kg	<0.01
6.7	1,3,5-Trichlorobenzene	108-70-3	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	0.02		0.01 mg/kg	<0.01
6.8	Tetrachlorobenzene	12408-10-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.9	1,2,3,4-Tetrachlorobenzene	634-66-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.10	1,2,3,5-Tetrachlorobenzene	634-90-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.11	Pentachlorobenzene	95-94-3	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.12	Hexachlorobenzene	608-93-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.13	1,2,3,4,5-Pentachlorobenzene	118-74-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.14	1,2,3,4,6-Pentachlorobenzene	95-49-8	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.15	1,2,3,5,6-Pentachlorobenzene	108-41-8	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.16	1,2,3,4,6-Pentachlorobenzene	106-43-4	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.17	1,2,3,4,5-Pentachlorobenzene	32768-54-0	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.18	1,2,3,4,6-Pentachlorobenzene	95-73-8	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.19	1,2,3,4,5-Pentachlorobenzene	13398-61-9	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.20	1,2,3,4,6-Pentachlorobenzene	118-69-4	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.21	1,2,3,4,5-Pentachlorobenzene	95-75-0	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.22	1,2,3,4,6-Pentachlorobenzene	2077-46-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.23	1,2,3,4,5-Pentachlorobenzene	6639-30-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.24	1,2,3,4,6-Pentachlorobenzene	98-07-7	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.25	1,2,3,4,5-Pentachlorobenzene	94-99-5	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.26	1,2,3,4,6-Pentachlorobenzene	2014-83-7	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.27	1,2,3,4,5-Pentachlorobenzene	102-47-6	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.28	1,2,3,4,6-Pentachlorobenzene	81-19-6	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.29	1,2,3,4,5-Pentachlorobenzene	2136-89-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.30	1,2,3,4,6-Pentachlorobenzene	5216-25-1	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
6.31	1,2,3,4,5-Pentachlorobenzene	877-11-2	Solvent extraction with GC/MS analysis	0.02 µg/L	<0.02	<0.02	<0.02		0.01 mg/kg	<0.01
7	Chlorinated solvents									
7.1	Dichloromethane	75-09-2	Solvent extraction with GC/MS analysis	1 µg/L	2	<1	2		0.3 mg/kg	<0.3
7.2	Chloroform	67-66-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3
7.3	Tetrachloroethane	56-23-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3
7.4	1,1,2-Trichloroethane	79-00-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3
7.5	1,1,1-Trichloroethane	75-34-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3
7.6	1,2-Dichloroethane	107-06-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3
7.7	Trichloroethylene	79-01-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3
7.8	Perchloroethylene	127-18-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3

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Page (10 of 16)



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/00072-73a

Factory:-

Sampling Address:-

Ref. No	ITEMS	CAS No.	METHOD	Water					Sludge		
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
				1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.9	1,1,1-trichloroethane	71-55-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.10	1,1,1,2-tetrachloroethane	630-20-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.11	1,1,2,2-tetrachloroethane	79-34-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.12	Pentachloroethane	76-01-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
7.13	1,1-Dichloroethylene	75-35-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.3 mg/kg	<0.3	
Other VOCs											
7.14	Methyl-ethyl ketone*	78-93-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.15	Benzene*	71-43-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.16	Toluene*	108-88-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.17	Ethylbenzene*	100-41-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.18	Xylene*	1330-20-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.19	Styrene*	100-42-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.20	Cyclohexanone*	108-94-1	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		2 mg/kg	<2	
7.21	2-ethoxyethylacetate*	111-15-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
7.22	1,2,3-trichloropropane*	96-18-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
7.23	Acetophenone*	98-86-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.24	N,N-dimethylformamide*	68-12-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.25	1-methyl-2-pyrrolidone*	872-90-4	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		50 mg/kg	<50	
7.26	2-phenyl-2-propanol*	617-94-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<0.1	
7.27	Bis(2-methoxyethyl) ether*	111-96-6	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		20 mg/kg	<20	
7.28	N,N-dimethylacetamide*	127-19-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		20 mg/kg	<20	
Chloro-Phenols											
8											
8.1	Pentachlorophenols (PCP)	87-86-5	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.2	Tetrachlorophenols (TeCP)	25167-83-3	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.3	2,3,4,5-Tetrachlorophenol	4901-51-3	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.4	2,3,4,6-Tetrachlorophenol	58-90-2	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.5	2,3,5,6-Tetrachlorophenol	935-95-5	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.6	Trichlorophenol (TriCP)	25167-82-2	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.7	2,4,6-Trichlorophenol	88-06-2	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.8	2,3,4-Trichlorophenol	15950-66-0	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.9	2,3,5-Trichlorophenol	933-78-8	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
8.10	2,3,6-Trichlorophenol	933-75-5	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
	2,4,5-Trichlorophenol	95-95-4	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
	3,4,5-Trichlorophenol	609-19-8	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	
	Dichlorophenols (DiCP)	25167-81-1	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025	

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Page (11 of 16)



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90072-73a

Factory:-

Sampling Address:-

Ref. No	ITEMS	CAS No.	METHOD	Water					Sludge	
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge
8.11	2,3-dichlorophenol	576-24-9	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025
8.12	2,4-dichlorophenol	120-83-2	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	0.057
8.13	2,5-dichlorophenol	583-78-8	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025
8.14	3,4-dichlorophenol	95-77-2	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025
8.15	3,5-dichlorophenol	591-35-5	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025
8.16	Mono Chlorophenol	Various	Solvent extraction and derivatization with acetic anhydride followed by GC/MS analysis.	0.5 µg/L	<0.5	<0.5	<0.5		0.025 mg/kg	<0.025
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 with GC/MS and GC/MS analysis	0.4 µg/L	<0.4	<0.4	<0.4		0.03 mg/kg	<0.03
10	Heavy Metals									
10.1	Total Cadmium (Cd)	7440-43-9	Acid Digestion with ICP analysis	0.1 µg/L	<0.1	<0.1	<0.1		1 mg/kg	<1
10.2	Total Lead (Pb)	7439-92-1	Acid Digestion with ICP analysis	1 µg/L	<1	2	<1		1 mg/kg	4
10.3	Total Mercury (Hg)	7439-97-6	Acid Digestion with ICP analysis	0.05 µg/L	<0.05	0.05	<0.05		0.006 mg/kg	0.081
10.4	Total Nickel (Ni)	7440-02-0	Acid Digestion with ICP analysis	1 µg/L	<1	2	<1		1 mg/kg	4
10.5	Total Hexavalent Chromium (Cr-VI)	18540-29-9	Solvent extraction and derivatization followed by UV analysis	1 µg/L	2	3	<1 ^A		1 mg/kg	1
10.6	Total Arsenic (As)	7440-38-2	Acid Digestion with ICP analysis	1 µg/L	<1	5	4		1 mg/kg	13
10.7	Total Chromium (Cr)	7440-47-3	Acid Digestion with ICP analysis	1 µg/L	<1	110	4		1 mg/kg	133
10.8	Total Copper (Cu)	7440-50-8	Acid Digestion with ICP analysis	1 µg/L	5	3	1		1 mg/kg	16
10.9	Total Zinc (Zn)	7440-66-6	Acid Digestion with ICP analysis	1 µg/L	33	99	29		4 mg/kg	91
10.10	Total Manganese (Mn)	7439-96-5	Acid Digestion with ICP analysis	1 µg/L	103	217	58		1 mg/kg	146
10.11	Total Antimony (Sb)	7440-36-0	Acid Digestion with ICP analysis	1 µg/L	<1	23	11		1 mg/kg	23
10.12	Total Cobalt (Co)*	7440-48-4	Acid Digestion with ICP analysis	1 µg/L	<1	18	1		1 mg/kg	13
11	Alkylphenols (APEOs)									
11.1	Octylphenol	various 140-66-9, 27193-28-8, 1806-26-4	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	2		0.2 mg/kg	<0.2
11.2	Nonylphenol	various 25154-52-3, 104-40-5, 90481-04-2, 84652-15-3, 1173019-62-9	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	1		0.2 mg/kg	<0.2
11.3	NPEO, n=1-2	various	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	7		0.2 mg/kg	<0.2
11.4	NPEO, n=3-18	various 9016-45-9, 26027-38-3, 68412-54-4, 127087-87-0, 37205-87-1	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	14	<1		0.2 mg/kg	<0.2
11.5	OPEO, n=1-2	various	With Reference to DIN EN ISO 18857 and followed by LC/MS analysis	1 µg/L	<1	<1	13		0.2 mg/kg	<0.2

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Page (12 of 16)

INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/0072-73a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
11.6	OPEO, n=3-18	various 9002-93-1, 9036-19-5, 68987-90-6	With Reference to DIN EN ISO 19857 and followed by LC/MS analysis	1 µg/L	<1	62	<1		0.2 mg/kg	4.1	
12	PFCS (Perfluorocarbon / Polyfluorinated Compounds)										
12.1	PFOA	335-67-1	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	0.13	<0.01		0.001 mg/kg	0.002	
12.2	PFNA	375-95-1	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	0.03	<0.01		0.001 mg/kg	<0.001	
12.3	PFBS	375-73-5, 59933-66-3	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.4	PFOS	1763-23-1	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.5	POSF	307-35-7	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.6	4,2 FTOH	2043-47-2	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.7	6,2 FTOH	647-42-7	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.8	8,2 FTOH	678-39-7	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.9	10,2 FTOH	865-86-1	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.10	PFHXS	355-46-4	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.11	PFHXA	307-24-4	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	0.24	0.05		0.001 mg/kg	0.007	
12.12	PFOSA	754-91-6	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.13	N-Me-FOSA	31506-32-8	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.14	N-Et-FOSA	4151-50-2	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.15	N-Me-FOSE alcohol	24448-09-7	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.16	N-Et-FOSE alcohol	1691-99-2	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.17	PFBA	375-22-4	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.18	PFPeA	2706-90-3	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.19	PFFpA	375-85-9	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	0.07	<0.01		0.001 mg/kg	<0.001	
12.20	PFDA	335-76-2	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	0.02	<0.01		0.001 mg/kg	<0.001	
12.21	PFUnA	2058-94-8	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	

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Page (13 of 16)



INORGANIC & ORGANIC ANALYSIS

Report No.: PX201500072-73a

Factory:-

Sampling Address:-

Ref. No	ITEMS	CAS No.	METHOD	Water				Sludge			
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
12.22	PfDoA	307-55-1	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.23	PfTtA	72629-94-8	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.24	PfTeA	376-06-7	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.25	PfHpS	375-92-8	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.26	PfDS	335-77-3	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.27	6,2 FTA	17527-29-6	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.28	8,2 FTA	27905-45-9	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.29	10,2 FTA	17741-60-5	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.1 µg/L	<0.1	<0.1	<0.1		0.01 mg/kg	<0.01	
12.30	PF-3,7-DMOA	172155-07-6	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.31	HPFHpA	1546-95-8	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.32	4HPFUnA	34598-33-9	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
12.33	1H, 1H, 2H, 2H- PFOS	27619-97-2	With reference to CENTS 15968 and analysis with LC/MS and GC/MS analysis	0.01 µg/L	<0.01	<0.01	<0.01		0.001 mg/kg	<0.001	
13	Ortho- Phenylphenol o-Phenylphenol (OPP)										
13.1	Polycyclic Aromatic Hydrocarbons (PAHs)	90-43-7	Solvent extraction followed by GC/MS analysis.						0.025 mg/kg	<0.025	
14	Benzo(a)pyrene (BaP)	50-32-8	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.1	Anthracene	120-12-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.2	Pyrene	129-00-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.3	Benzo(a)fluoranthene	191-24-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.4	Benzo(b)fluoranthene	192-37-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.5	Indeno(1,2,3-cd)pyrene	193-39-5	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.6	Benzo(k)fluoranthene	205-82-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.7	Benzo(i)fluoranthene	205-99-2	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.8	Fluoranthene	206-44-0	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.9	Benzo(a)fluoranthene	207-08-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.10	Acenaphthylene	208-96-8	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.11	Chrysene	218-01-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.12	Dibenz(a,h)anthracene	53-70-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.13	Benzo(a)anthracene	56-55-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.14	Acenaphthene	83-32-9	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.15	Phenanthrene	85-01-8	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.16	Fluorene	86-73-7	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		10 mg/kg	<10	
14.17	Naphthalene	91-20-3	Solvent extraction with GC/MS analysis	1 µg/L	<1	<1	<1		0.1 mg/kg	<1	
14.18											

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Page (14 of 16)



INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90072-73a

Factory:-

Sampling Address:-

Ref. No.	ITEMS	CAS No.	METHOD	Water					Sludge		
				Waste Water Reporting Limit	Inlet	Before Treatment	After Treatment	Local Requirement (if applicable)	Reporting Limit	Sludge	Local Requirement (if applicable)
15	General Chemistry										
15.1	BOD (5-day)	-	SM 5210	2 mg/L	<2	243	27		-	-	
15.2	COD	-	USEPA 410.4 or SM 5220D	5 mg/L	<5	529	92		-	-	
15.3	TSS	-	SM 2540D	5 mg/L	<5	279	16		-	-	
15.4	TDS	-	SM 2540C	5 mg/L	266	1390	795		-	-	
15.5	Cyanide	-	APHA 4500 CN-B,C & E	0.01 mg/L	<0.01	0.01	<0.01		0.01 mg/kg	0.20	
15.6	Sulfide	-	SM 4500-S2-D	0.005 mg/L	0.023	0.019	0.012		-	-	
15.7	pH Value	-	SM 54500H+	-	7.7(30.6℃)	10.0(36.3℃)	6.8(30.3℃)		-	-	
15.8	Colour	-	USEPA 110.2 or SM 2120B or ISO 7887-2011	5 CU	<5	125	25		-	-	
15.9	Total phenolics	-	Method D						-	-	
15.10	Ca Hardness	-	SM 5530B	0.002 mg/L	<0.002	0.050 ^A	0.033		-	-	
15.11	Mg Hardness	-	SM 2340B	5 mg/L	49	483	90		-	-	
15.12	AOX ¹	-	SM 2340B	5 mg/L	16	190	24		-	-	
15.13	Percentage moisture	-	-	20 µg/L	<20	280	59		10 mg/kg	1900	
			in-house method						%	22.5	

Remark:

^ABest current testing technology using lowest detection^BThe test result is based on the calculation of selected element(s) and to the worst-case scenario^CThe sample is diluted before testing due to matrix interference.^DAOX testing was performed by SGS Nederland BV

End of Report

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Page (15 of 16)

PHOTOGRAPHS

INLET



AFTER TREATMENT



BEFORE TREATMENT



SLUDGE



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