SGS

Laboratory of Environmental Analysis

TEST REPORT

Company Name :	5010 & 5236 & 5237 & 5094	Sampling Time :	2014/06/05 AM 09:00
Project Name :	Jack Wolfskin Wastewater & Sludge Testing Programme	Until :	2014/06/05 AM 11:05
Sample Type :	Water & Sludge	Received Time :	2014/06/05 PM 06:04
Sample Number :	PX6001301~04	Report Date :	2014/07/01
Sampling :	SGS Taiwan Ltd.	Report Number :	PX/2014/60013
Sampling Place :	*	Contact Person :	Joyce Lin
		TEL/FAX :	02-2299-3279ext2305 / 02-2299-3261

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

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Carry Kuo, M.S. Manager

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TEST REPORT

Sample ：Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/60013-01	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	butyl benzyl phthalate	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	di-n-butyl phthalate	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	diethyl phthalate	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	dimethyl phthalate	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	di-n-octyl phthalate	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	di-isononyl phthalate	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	di-iso-decyl phthalate	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	di-isobutyl phthalate	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	di-n-hexyl phthalate	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	Dinonyl Phthalate (DNP)	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<10.0	ug/L	-	10.0
PX/60013-01	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<10.0	ug/L	-	10.0
Brominated Flame retardants						
PX/60013-01	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<0.5	ug/L	-	0.5
PX/60013-01	USEPA 527 (GC/MS)	4-PBDE	<0.05	ug/L	-	0.05
PX/60013-01	USEPA 527 (GC/MS)	5-PBDE	<0.05	ug/L	-	0.05
PX/60013-01	USEPA 527 (GC/MS)	6-PBDE	<0.05	ug/L	-	0.05
PX/60013-01	USEPA 527 (GC/MS)	7-PBDE	<0.05	ug/L	-	0.05
PX/60013-01	USEPA 527 (GC/MS)	8-PBDE	<0.05	ug/L	-	0.05
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TEST REPORT

Sample ：Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-01	USEPA 527 (GC/MS)	9-PBDE	<0.05	ug/L	-	0.05
PX/60013-01	USEPA 527 (GC/MS)	10-PBDE	<0.05	ug/L	-	0.05
PX/60013-01	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<0.5	ug/L	-	0.5
PX/60013-01	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<0.5	ug/L	-	0.5
PX/60013-01	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<20.0	ug/L	-	20.0
PX/60013-01	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<0.5	ug/L	-	0.5
PX/60013-01	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<20.0	ug/L	-	20.0
Chlorinated Flame Retardants						
PX/60013-01	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<0.5	ug/L	-	0.5
PX/60013-01	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<0.5	ug/L	-	0.5
Azo dyes						
PX/60013-01	USEPA8270	4-AMINOBIPHENYL	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	BENZIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	4-CHLORO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	2-NAPHTHYLAMINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	O-AMINOAZOTOLUENE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	5-NITRO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	4-CHLOROANILINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	3,3'-DICHLOROBENZIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	3,3'-DIMETHYLBENZIDINE	<1.00	ug/L	-	1.00
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TEST REPORT

Sample ：Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-01	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	P-CRESIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	4,4'-OXYDIANILINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	4,4'-THIODIANILINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	2,4,5-TRIMETHYLANILINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	O-ANISIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	4-AMINOAZOBENZENE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	2,4-XYLIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	2,6-XYLIDINE	<1.00	ug/L	-	1.00
PX/60013-01	USEPA8270	ANILINE	<1.00	ug/L	-	1.00
Chlorobenzenes						
PX/60013-01	USEPA8260	Chlorobenzene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	1,2-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	1,3-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	1,4-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	1,2,4-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	1,2,3-Trichlorobenzene,	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	1,3,5-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-01	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	Pentachlorobenzene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	Hexachlorobenzene	<5.00	ug/L	-	5.00
Chlorinated solvents						
PX/60013-01	USEPA8260	Methylene chloride	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	Tetrachloroethene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	Trichloroethene	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	1,1,2-Trichloroethane	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	Carbon tetrachloride	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	Chloroform	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	1,2-Dichloroethane	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8260	1,1-Dichloroethane	<5.00	ug/L	-	5.00
Chlorophenols						
PX/60013-01	USEPA8270SIM	2-Chlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	2,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	2,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	2,3-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	3-Chlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	4-Chlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	2,6-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	2,3,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	2,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	2,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
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TEST REPORT

Sample ：Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-01	USEPA8270SIM	2,3,4-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	3,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	3,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	2,3,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	3,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-01	USEPA8270SIM	Pentachlorophenol	<5.00	ug/L	-	5.00
Organotin Compounds						
PX/60013-01	ISO 17353 (GC/MS)	Monobutyltin	<0.1	ug/L	-	0.1
PX/60013-01	ISO 17353 (GC/MS)	Dibutyltin	<0.1	ug/L	-	0.1
PX/60013-01	ISO 17353 (GC/MS)	Tributyltin	<0.1	ug/L	-	0.1
PX/60013-01	ISO 17353 (GC/MS)	Dioctyltin	<0.1	ug/L	-	0.1
PX/60013-01	ISO 17353 (GC/MS)	Triphenyltin	<0.1	ug/L	-	0.1
PX/60013-01	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.1	ug/L	-	0.1
PX/60013-01	ISO 17353 (GC/MS)	Trioctyltin	<0.1	ug/L	-	0.1
PX/60013-01	ISO 17353 (GC/MS)	Tripropyltin	<0.1	ug/L	-	0.1
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60013-01	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<10.0	ug/L	-	10.0
APEO						
PX/60013-01	Dichloromethane extraction /(GC/MS)	Nonylphenol	<5.00	ug/L	-	5.00
PX/60013-01	Dichloromethane extraction /(GC/MS)	Octylphenol	<5.00	ug/L	-	5.00
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TEST REPORT

Sample ：Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-01	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<5.00	ug/L	-	5.00
PX/60013-01	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/60013-01	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<5.00	ug/L	-	5.00
PX/60013-01	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60013-01	SolidPhaseExtration/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<1.00	ug/L	-	1.00
PX/60013-01	SolidPhaseExtration/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<1.00	ug/L	-	1.00
PFCs						
PX/60013-01	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<1.00	ug/L	-	1.00
PX/60013-01	USEPA 3535A /(LC/MS)	perfluoroctane sulfonate (PFOS)	<1.00	ug/L	-	1.00
Heavy Metals						
PX/60013-01	NIEA W313	Arsenic, As	0.112	mg/L	0.00002	-
PX/60013-01	NIEA W313	Cadmium, Cd	ND<0.00002	mg/L	0.00002	-
PX/60013-01	NIEA W313	Cobalt, Co	0.00016	mg/L	0.00004	-
PX/60013-01	NIEA W313	Chromium, Cr (total)	0.00500	mg/L	0.00005	-
PX/60013-01	NIEA W320	Chromium, hexavalent, Cr(VI)	ND<0.01	mg/L	0.01	-
PX/60013-01	NIEA W313	Copper, Cu	0.00243	mg/L	0.00006	-
PX/60013-01	NIEA W313	Mercury, Hg	<0.00005(0.00002)	mg/L	0.00002	-
PX/60013-01	NIEA W313	Manganese, Mn	0.111	mg/L	0.00004	-
PX/60013-01	NIEA W313.	Nickel, Ni	0.00058	mg/L	0.00005	-
PX/60013-01	NIEA W313	Lead, Pb	0.0148	mg/L	0.00002	-
PX/60013-01	NIEA W313	Antimony, Sb	0.00011	mg/L	0.00003	-
PX/60013-01	NIEA W313	Zinc, Zn	0.0732	mg/L	0.00002	-

REMARK						

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TWB 0349536

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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/60013-02	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	butyl benzyl phthalate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	di-n-butyl phthalate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	diethyl phthalate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	dimethyl phthalate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	di-n-octyl phthalate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	di-isononyl phthalate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	di-iso-decyl phthalate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	di-isobutyl phthalate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	di-n-hexyl phthalate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	Dinonyl Phthalate (DNP)	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<20.0	ug/L	-	20.0
PX/60013-02	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<20.0	ug/L	-	20.0
Brominated Flame retardants						
PX/60013-02	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<0.5	ug/L	-	0.5
PX/60013-02	USEPA 527 (GC/MS)	4-PBDE	<0.05	ug/L	-	0.05
PX/60013-02	USEPA 527 (GC/MS)	5-PBDE	<0.05	ug/L	-	0.05
PX/60013-02	USEPA 527 (GC/MS)	6-PBDE	<0.05	ug/L	-	0.05
PX/60013-02	USEPA 527 (GC/MS)	7-PBDE	<0.05	ug/L	-	0.05
PX/60013-02	USEPA 527 (GC/MS)	8-PBDE	<0.05	ug/L	-	0.05
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-02	USEPA 527 (GC/MS)	9-PBDE	<0.05	ug/L	-	0.05
PX/60013-02	USEPA 527 (GC/MS)	10-PBDE	<0.05	ug/L	-	0.05
PX/60013-02	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<0.5	ug/L	-	0.5
PX/60013-02	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<0.5	ug/L	-	0.5
PX/60013-02	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<20.0	ug/L	-	20.0
PX/60013-02	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<0.5	ug/L	-	0.5
PX/60013-02	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<20.0	ug/L	-	20.0
Chlorinated Flame Retardants						
PX/60013-02	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<0.5	ug/L	-	0.5
PX/60013-02	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<0.5	ug/L	-	0.5
Azo dyes						
PX/60013-02	USEPA8270	4-AMINOBIPHENYL	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	BENZIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	4-CHLORO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	2-NAPHTHYLAMINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	O-AMINOAZOTOLUENE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	5-NITRO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	4-CHLOROANILINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	3,3'-DICHLOROBENZIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	3,3'-DIMETHYLBENZIDINE	<1.00	ug/L	-	1.00
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-02	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	P-CRESIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	4,4'-OXYDIANILINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	4,4'-THIODIANILINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	2,4,5-TRIMETHYLANILINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	O-ANISIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	4-AMINOAZOBENZENE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	2,4-XYLIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	2,6-XYLIDINE	<1.00	ug/L	-	1.00
PX/60013-02	USEPA8270	ANILINE	<1.00	ug/L	-	1.00
Chlorobenzenes						
PX/60013-02	USEPA8260	Chlorobenzene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	1,2-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	1,3-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	1,4-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	1,2,4-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	1,2,3-Trichlorobenzene,	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	1,3,5-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-02	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	Pentachlorobenzene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	Hexachlorobenzene	<5.00	ug/L	-	5.00
Chlorinated solvents						
PX/60013-02	USEPA8260	Methylene chloride	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	Tetrachloroethene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	Trichloroethene	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	1,1,2-Trichloroethane	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	Carbon tetrachloride	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	Chloroform	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	1,2-Dichloroethane	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8260	1,1-Dichloroethane	<5.00	ug/L	-	5.00
Chlorophenols						
PX/60013-02	USEPA8270SIM	2-Chlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	2,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	2,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	2,3-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	3-Chlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	4-Chlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	2,6-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	2,3,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	2,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	2,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-02	USEPA8270SIM	2,3,4-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	3,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	3,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	2,3,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	3,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-02	USEPA8270SIM	Pentachlorophenol	<5.00	ug/L	-	5.00
Organotin Compounds						
PX/60013-02	ISO 17353 (GC/MS)	Monobutyltin	<0.1	ug/L	-	0.1
PX/60013-02	ISO 17353 (GC/MS)	Dibutyltin	<0.1	ug/L	-	0.1
PX/60013-02	ISO 17353 (GC/MS)	Tributyltin	<0.1	ug/L	-	0.1
PX/60013-02	ISO 17353 (GC/MS)	Dioctyltin	<0.1	ug/L	-	0.1
PX/60013-02	ISO 17353 (GC/MS)	Triphenyltin	<0.1	ug/L	-	0.1
PX/60013-02	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.1	ug/L	-	0.1
PX/60013-02	ISO 17353 (GC/MS)	Trioctyltin	<0.1	ug/L	-	0.1
PX/60013-02	ISO 17353 (GC/MS)	Tripropyltin	<0.1	ug/L	-	0.1
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60013-02	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<10.0	ug/L	-	10.0
APEO						
PX/60013-02	Dichloromethane extraction /(GC/MS)	Nonylphenol	<5.00	ug/L	-	5.00
PX/60013-02	Dichloromethane extraction /(GC/MS)	Octylphenol	<5.00	ug/L	-	5.00
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TWB 0349541

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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-02	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<5.00	ug/L	-	5.00
PX/60013-02	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/60013-02	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<5.00	ug/L	-	5.00
PX/60013-02	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60013-02	SolidPhaseExtration/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<1.00	ug/L	-	1.00
PX/60013-02	SolidPhaseExtration/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<1.00	ug/L	-	1.00
PFCs						
PX/60013-02	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<1.00	ug/L	-	1.00
PX/60013-02	USEPA 3535A /(LC/MS)	perfluoroctane sulfonate (PFOS)	<1.00	ug/L	-	1.00
Heavy Metals						
PX/60013-02	NIEA W313	Arsenic, As	0.0789	mg/L	0.00002	-
PX/60013-02	NIEA W313	Cadmium, Cd	ND<0.00002	mg/L	0.00002	-
PX/60013-02	NIEA W313	Cobalt, Co	0.00210	mg/L	0.00004	-
PX/60013-02	NIEA W313	Chromium, Cr (total)	0.0254	mg/L	0.00005	-
PX/60013-02	NIEA W320	Chromium, hexavalent, Cr(VI)	ND<0.01	mg/L	0.01	-
PX/60013-02	NIEA W313	Copper, Cu	0.0272	mg/L	0.00006	-
PX/60013-02	NIEA W313	Mercury, Hg	0.00050	mg/L	0.00002	-
PX/60013-02	NIEA W313	Manganese, Mn	0.107	mg/L	0.00004	-
PX/60013-02	NIEA W313	Nickel, Ni	0.00278	mg/L	0.00005	-
PX/60013-02	NIEA W313	Lead, Pb	0.00629	mg/L	0.00002	-
PX/60013-02	NIEA W313	Antimony, Sb	0.0623	mg/L	0.00003	-
PX/60013-02	NIEA W313	Zinc, Zn	0.0680	mg/L	0.00002	-

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TWB 0349542

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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/60013-03	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	butyl benzyl phthalate	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	di-n-butyl phthalate	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	diethyl phthalate	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	dimethyl phthalate	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	di-n-octyl phthalate	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	di-isononyl phthalate	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	di-iso-decyl phthalate	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	di-isobutyl phthalate	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	di-n-hexyl phthalate	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	Dinonyl Phthalate (DNP)	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<10.0	ug/L	-	10.0
PX/60013-03	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<10.0	ug/L	-	10.0
Brominated Flame retardants						
PX/60013-03	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<0.5	ug/L	-	0.5
PX/60013-03	USEPA 527 (GC/MS)	4-PBDE	<0.05	ug/L	-	0.05
PX/60013-03	USEPA 527 (GC/MS)	5-PBDE	<0.05	ug/L	-	0.05
PX/60013-03	USEPA 527 (GC/MS)	6-PBDE	<0.05	ug/L	-	0.05
PX/60013-03	USEPA 527 (GC/MS)	7-PBDE	<0.05	ug/L	-	0.05
PX/60013-03	USEPA 527 (GC/MS)	8-PBDE	<0.05	ug/L	-	0.05
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-03	USEPA 527 (GC/MS)	9-PBDE	<0.05	ug/L	-	0.05
PX/60013-03	USEPA 527 (GC/MS)	10-PBDE	<0.05	ug/L	-	0.05
PX/60013-03	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<0.5	ug/L	-	0.5
PX/60013-03	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<0.5	ug/L	-	0.5
PX/60013-03	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<20.0	ug/L	-	20.0
PX/60013-03	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<0.5	ug/L	-	0.5
PX/60013-03	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<20.0	ug/L	-	20.0
Chlorinated Flame Retardants						
PX/60013-03	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<0.5	ug/L	-	0.5
PX/60013-03	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<0.5	ug/L	-	0.5
Azo dyes						
PX/60013-03	USEPA8270	4-AMINOBIPHENYL	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	BENZIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	4-CHLORO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	2-NAPHTHYLAMINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	O-AMINOAZOTOLUENE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	5-NITRO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	4-CHLOROANILINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	3,3'-DICHLOROBENZIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	3,3'-DIMETHYLBENZIDINE	<1.00	ug/L	-	1.00
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-03	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	P-CRESIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	4,4'-OXYDIANILINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	4,4'-THIODIANILINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	2,4,5-TRIMETHYLANILINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	O-ANISIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	4-AMINOAZOBENZENE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	2,4-XYLIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	2,6-XYLIDINE	<1.00	ug/L	-	1.00
PX/60013-03	USEPA8270	ANILINE	<1.00	ug/L	-	1.00
Chlorobenzenes						
PX/60013-03	USEPA8260	Chlorobenzene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	1,2-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	1,3-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	1,4-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	1,2,4-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	1,2,3-Trichlorobenzene,	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	1,3,5-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-03	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	Pentachlorobenzene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	Hexachlorobenzene	<5.00	ug/L	-	5.00
Chlorinated solvents						
PX/60013-03	USEPA8260	Methylene chloride	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	Tetrachloroethene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	Trichloroethene	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	1,1,2-Trichloroethane	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	Carbon tetrachloride	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	Chloroform	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	1,2-Dichloroethane	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8260	1,1-Dichloroethane	<5.00	ug/L	-	5.00
Chlorophenols						
PX/60013-03	USEPA8270SIM	2-Chlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	2,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	2,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	2,3-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	3-Chlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	4-Chlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	2,6-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	2,3,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	2,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	2,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-03	USEPA8270SIM	2,3,4-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	3,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	3,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	2,3,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	3,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60013-03	USEPA8270SIM	Pentachlorophenol	<5.00	ug/L	-	5.00
Organotin Compounds						
PX/60013-03	ISO 17353 (GC/MS)	Monobutyltin	<0.1	ug/L	-	0.1
PX/60013-03	ISO 17353 (GC/MS)	Dibutyltin	<0.1	ug/L	-	0.1
PX/60013-03	ISO 17353 (GC/MS)	Tributyltin	<0.1	ug/L	-	0.1
PX/60013-03	ISO 17353 (GC/MS)	Dioctyltin	<0.1	ug/L	-	0.1
PX/60013-03	ISO 17353 (GC/MS)	Triphenyltin	<0.1	ug/L	-	0.1
PX/60013-03	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.1	ug/L	-	0.1
PX/60013-03	ISO 17353 (GC/MS)	Trioctyltin	<0.1	ug/L	-	0.1
PX/60013-03	ISO 17353 (GC/MS)	Tripropyltin	<0.1	ug/L	-	0.1
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60013-03	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<10.0	ug/L	-	10.0
APEO						
PX/60013-03	Dichloromethane extraction /(GC/MS)	Nonylphenol	<5.00	ug/L	-	5.00
PX/60013-03	Dichloromethane extraction /(GC/MS)	Octylphenol	<5.00	ug/L	-	5.00
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-03	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<5.00	ug/L	-	5.00
PX/60013-03	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/60013-03	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<5.00	ug/L	-	5.00
PX/60013-03	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60013-03	SolidPhaseExtration/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<1.00	ug/L	-	1.00
PX/60013-03	SolidPhaseExtration/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<1.00	ug/L	-	1.00
PFCs						
PX/60013-03	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<1.00	ug/L	-	1.00
PX/60013-03	USEPA 3535A /(LC/MS)	perfluoroctane sulfonate (PFOS)	<1.00	ug/L	-	1.00
General Chemistry						
PX/60013-03	NIEA W424	pH	6.8(33.8℃)	-	-	-
PX/60013-03	NIEA W510	BOD(5-DAY)	2.9	mg/L	1.0	-
PX/60013-03	NIEA W517	COD	44.9	mg/L	2.8	-
PX/60013-03	NIEA W208	Total Hardness	246	mg/L	1.7	-
PX/60013-03	NIEA W521	Total phenolics	ND<0.0009	mg/L	0.0009	-
PX/60013-03	NIEA W433	sulfide	ND<0.01	mg/L	0.01	-
PX/60013-03	NIEA W210	TSS	4.1	mg/L	1.0	-
PX/60013-03	NIEA W210	TDS	1650	mg/L	5.0	-
PX/60013-03	NIEA W223	True Color	92	mg/L	25	-
Heavy Metals						
PX/60013-03	NIEA W313	Arsenic, As	0.00964	mg/L	0.00002	-
PX/60013-03	NIEA W313	Cadmium, Cd	ND<0.00002	mg/L	0.00002	-
PX/60013-03	NIEA W313	Cobalt, Co	0.00105	mg/L	0.00004	-
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-03	NIEA W313	Chromium, Cr (total)	0.00250	mg/L	0.00005	-
PX/60013-03	NIEA W320	Chromium, hexavalent, Cr(VI)	ND<0.01	mg/L	0.01	-
PX/60013-03	NIEA W313	Copper, Cu	0.00639	mg/L	0.00006	-
PX/60013-03	NIEA W313	Mercury, Hg	<0.00005(0.00003)	mg/L	0.00002	-
PX/60013-03	NIEA W313	Manganese, Mn	0.0685	mg/L	0.00004	-
PX/60013-03	NIEA W313	Nickel, Ni	0.00127	mg/L	0.00005	-
PX/60013-03	NIEA W313	Lead, Pb	0.00048	mg/L	0.00002	-
PX/60013-03	NIEA W313	Antimony, Sb	0.0928	mg/L	0.00003	-
PX/60013-03	NIEA W313	Zinc, Zn	0.00560	mg/L	0.00002	-
PX/60013-03	NIEA W441	Cyanide, CN^-	ND<0.002	mg/L	0.002	-

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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/60013-04	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	butyl benzyl phthalate	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	di-n-butyl phthalate	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	diethyl phthalate	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	dimethyl phthalate	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	di-n-octyl phthalate	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	di-isononyl phthalate	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	di-iso-decyl phthalate	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	di-isobutyl phthalate	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	di-n-hexyl phthalate	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	Dinonyl Phthalate (DNP)	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<5.00	mg/kg	-	5.00
PX/60013-04	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<5.00	mg/kg	-	5.00
Brominated Flame retardants						
PX/60013-04	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<2.50	mg/kg	-	2.50
PX/60013-04	USEPA 527 (GC/MS)	4-PBDE	<0.25	mg/kg	-	0.25
PX/60013-04	USEPA 527 (GC/MS)	5-PBDE	<0.25	mg/kg	-	0.25
PX/60013-04	USEPA 527 (GC/MS)	6-PBDE	<0.25	mg/kg	-	0.25
PX/60013-04	USEPA 527 (GC/MS)	7-PBDE	<0.25	mg/kg	-	0.25
PX/60013-04	USEPA 527 (GC/MS)	8-PBDE	<0.25	mg/kg	-	0.25
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-04	USEPA 527 (GC/MS)	9-PBDE	<0.25	mg/kg	-	0.25
PX/60013-04	USEPA 527 (GC/MS)	10-PBDE	<0.25	mg/kg	-	0.25
PX/60013-04	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<2.50	mg/kg	-	2.50
PX/60013-04	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<2.50	mg/kg	-	2.50
PX/60013-04	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<75.0	mg/kg	-	75.0
PX/60013-04	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<2.50	mg/kg	-	2.50
PX/60013-04	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<75.0	mg/kg	-	75.0
Chlorinated Flame Retardants						
PX/60013-04	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<2.50	mg/kg	-	2.50
PX/60013-04	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<2.50	mg/kg	-	2.50
Azo dyes						
PX/60013-04	USEPA8270	4-AMINOBIPHENYL	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	BENZIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	4-CHLORO-O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	2-NAPHTHYLAMINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	O-AMINOAZOTOLUENE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	5-NITRO-O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	4-CHLOROANILINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	3,3'-DICHLOROBENZIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	3,3'-DIMETHYLBENZIDINE	<0.50	mg/kg	-	0.50
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-04	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	P-CRESIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	4,4'-OXYDIANILINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	4,4'-THIODIANILINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	2,4,5-TRIMETHYLANILINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	O-ANISIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	4-AMINOAZOBENZENE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	2,4-XYLIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	2,6-XYLIDINE	<0.50	mg/kg	-	0.50
PX/60013-04	USEPA8270	ANILINE	<0.50	mg/kg	-	0.50
Chlorobenzenes						
PX/60013-04	USEPA8260	Chlorobenzene	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	1,2-Dichlorobenzene	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	1,3-Dichlorobenzene	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	1,4-Dichlorobenzene	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	1,2,4-Trichlorobenzene	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	1,2,3-Trichlorobenzene,	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	1,3,5-Trichlorobenzene	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	<1.25	mg/kg	-	1.25
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-04	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	Pentachlorobenzene	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	Hexachlorobenzene	<1.25	mg/kg	-	1.25
Chlorinated solvents						
PX/60013-04	USEPA8260	Methylene chloride	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	Tetrachloroethene	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	Trichloroethene	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	1,1,2-Trichloroethane	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	Carbon tetrachloride	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	Chloroform	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	1,2-Dichloroethane	<0.10	mg/kg	-	0.10
PX/60013-04	USEPA8260	1,1-Dichloroethane	<0.10	mg/kg	-	0.10
Chlorophenols						
PX/60013-04	USEPA8270SIM	2-Chlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	2,4-Dichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	2,5-Dichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	2,3-Dichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	3-Chlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	4-Chlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	2,6-Dichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	2,3,5-Trichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	2,4,6-Trichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	2,4,5-Trichlorophenol	<1.25	mg/kg	-	1.25
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-04	USEPA8270SIM	2,3,4-Trichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	3,5-Dichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	3,4-Dichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	2,3,4,6-Trichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	3,4,5-Trichlorophenol	<1.25	mg/kg	-	1.25
PX/60013-04	USEPA8270SIM	Pentachlorophenol	<1.25	mg/kg	-	1.25
Organotin Compounds						
PX/60013-04	ISO 17353 (GC/MS)	Monobutyltin	<0.002	mg/kg	-	0.002
PX/60013-04	ISO 17353 (GC/MS)	Dibutyltin	<0.002	mg/kg	-	0.002
PX/60013-04	ISO 17353 (GC/MS)	Tributyltin	<0.002	mg/kg	-	0.002
PX/60013-04	ISO 17353 (GC/MS)	Dioctyltin	<0.002	mg/kg	-	0.002
PX/60013-04	ISO 17353 (GC/MS)	Triphenyltin	<0.002	mg/kg	-	0.002
PX/60013-04	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.002	mg/kg	-	0.002
PX/60013-04	ISO 17353 (GC/MS)	Trioctyltin	<0.002	mg/kg	-	0.002
PX/60013-04	ISO 17353 (GC/MS)	Tripropyltin	<0.002	mg/kg	-	0.002
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60013-04	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<4.00	mg/kg	-	4.00
APEO						
PX/60013-04	Dichloromethane extraction /(GC/MS)	Nonylphenol	<25.0	mg/kg	-	25.0
PX/60013-04	Dichloromethane extraction /(GC/MS)	Octylphenol	<25.0	mg/kg	-	25.0
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Laboratory of Environmental Analysis

TEST REPORT

Sample ：Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60013-04	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<25.0	mg/kg	-	25.0
PX/60013-04	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/60013-04	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<25.0	mg/kg	-	25.0
PX/60013-04	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60013-04	SolidPhaseExtration/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<0.02	mg/kg	-	0.02
PX/60013-04	SolidPhaseExtration/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<0.02	mg/kg	-	0.02
PFCs						
PX/60013-04	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<0.01	mg/kg	-	0.01
PX/60013-04	USEPA 3535A /(LC/MS)	perfluoroctane sulfonate (PFOS)	<0.01	mg/kg	-	0.01
Heavy Metals						
PX/60013-04	NIEA S310	Arsenic, As	217	mg/kg	0.102	-
PX/60013-04	NIEA R355	Cadmium, Cd	<10.0	mg/kg	10.0	-
PX/60013-04	NIEA R355	Cobalt, Co	<10.0	mg/kg	10.0	-
PX/60013-04	NIEA R355	Chromium, Cr (total)	63.9	mg/kg	10.0	-
PX/60013-04	NIEA T303	Chromium, hexavalent, Cr(VI)	<0.50	mg/kg	-	0.50
PX/60013-04	NIEA R355	Copper, Cu	128	mg/kg	10.0	-
PX/60013-04	NIEA M317	Mercury, Hg	<2.00	mg/kg	0.037	-
PX/60013-04	NIEA R355	Manganese, Mn	215	mg/kg	10.0	-
PX/60013-04	NIEA R355	Nickel, Ni	18.2	mg/kg	10.0	-
PX/60013-04	NIEA R355	Lead, Pb	26.8	mg/kg	10.0	-
PX/60013-04	NIEA S410	pH	7.1(24.9℃)	-	-	-
PX/60013-04	NIEA R355	Antimony, Sb	38.5	mg/kg	10.0	-
PX/60013-04	NIEA R355	Zinc, Zn	390	mg/kg	10.0	-
PX/60013-04	NIEA S280	Moisture	8.2	%	-	-

REMARK	1.Sample interference by matrix, Mercury is diluted by the factor of 20.					

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QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
Ortho-phthalates						
PX/60013-01~03	USEPA8270SIM	bis(2-ethylhexyl) phthalate	LCS	86.3%	60	140
PX/60013-01~03	USEPA8270SIM	butyl benzyl phthalate	LCS	87.6%	60	140
PX/60013-01~03	USEPA8270SIM	di-n-butyl phthalate	LCS	84.2%	60	140
PX/60013-01~03	USEPA8270SIM	diethyl phthalate	LCS	84.6%	60	140
PX/60013-01~03	USEPA8270SIM	dimethyl phthalate	LCS	83.9%	60	140
PX/60013-01~03	USEPA8270SIM	di-n-octyl phthalate	LCS	82.7%	60	140
PX/60013-01~03	USEPA8270SIM	di-isononyl phthalate	LCS	79.7%	60	140
PX/60013-01~03	USEPA8270SIM	di-iso-decyl phthalate	LCS	104.9%	60	140
PX/60013-01~03	USEPA8270SIM	di-isobutyl phthalate	LCS	85.9%	60	140
PX/60013-01~03	USEPA8270SIM	di-n-hexyl phthalate	LCS	87.5%	60	140
PX/60013-01~03	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	LCS	86.2%	60	140
PX/60013-01~03	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	LCS	84.2%	60	140
PX/60013-01~03	USEPA8270SIM	Dinonyl Phthalate (DNP)	LCS	84.5%	60	140
PX/60013-01~03	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	LCS	79.1%	60	140
PX/60013-01~03	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	LCS	76.2%	60	140
Brominated Flame retardants						
PX/60013-01~03	USEPA 527 (GC/MS)	3-PBDE	LCS	44.7%	-	-
PX/60013-01~03	USEPA 527 (GC/MS)	4-PBDE	LCS	45.2%	-	-
PX/60013-01~03	USEPA 527 (GC/MS)	5-PBDE	LCS	42.0%	-	-
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Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-01~03	USEPA 527 (GC/MS)	6-PBDE	LCS	44.0%	-	-
PX/60013-01~03	USEPA 527 (GC/MS)	7-PBDE	LCS	48.4%	-	-
PX/60013-01~03	USEPA 527 (GC/MS)	10-PBDE	LCS	49.8%	-	-
PX/60013-01~03	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	LCS	82.6%	-	-
PX/60013-01~03	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	LCS	100.6%	-	-
PX/60013-01~03	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	LCS	89.0%	-	-
PX/60013-01~03	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	LCS	93.3%	-	-
PX/60013-01~03	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	LCS	94.3%	-	-
Chlorinated Flame Retardants						
PX/60013-01~03	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	LCS	98.6%	-	-
PX/60013-01~03	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	LCS	99.8%	-	-
Azo dyes						
PX/60013-01~03	USEPA8270	4-AMINOBIPHENYL	LCS	45.0%	-	-
PX/60013-01~03	USEPA8270	BENZIDINE	LCS	19.0%	-	-
PX/60013-01~03	USEPA8270	4-CHLORO-O-TOLUIDINE	LCS	44.0%	-	-
PX/60013-01~03	USEPA8270	2-NAPHTHYLAMINE	LCS	45.0%	-	-
PX/60013-01~03	USEPA8270	4-CHLOROANILINE	LCS	39.0%	-	-
PX/60013-01~03	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	LCS	22.0%	-	-
PX/60013-01~03	USEPA8270	3,3'-DICHLOROBENZIDINE	LCS	48.0%	-	-
PX/60013-01~03	USEPA8270	3,3'-DIMETHOXYBENZIDINE	LCS	18.0%	-	-
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QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-01~03	USEPA8270	3,3'-DIMETHYLBENZIDINE	LCS	34.0%	-	-
PX/60013-01~03	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	LCS	25.0%	-	-
PX/60013-01~03	USEPA8270	P-CRESIDINE	LCS	44.0%	-	-
PX/60013-01~03	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	LCS	45.0%	-	-
PX/60013-01~03	USEPA8270	4,4'-OXYDIANILINE	LCS	21.0%	-	-
PX/60013-01~03	USEPA8270	4,4'-THIODIANILINE	LCS	18.0%	-	-
PX/60013-01~03	USEPA8270	O-TOLUIDINE	LCS	46.0%	-	-
PX/60013-01~03	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	LCS	10.0%	-	-
PX/60013-01~03	USEPA8270	2,4,5-TRIMETHYLANILINE	LCS	40.0%	-	-
PX/60013-01~03	USEPA8270	O-ANISIDINE	LCS	45.0%	-	-
PX/60013-01~03	USEPA8270	4-AMINOAZOBENZENE	LCS	44.0%	-	-
PX/60013-01~03	USEPA8270	2,4-XYLIDINE	LCS	46.0%	-	-
PX/60013-01~03	USEPA8270	2,6-XYLIDINE	LCS	46.0%	-	-
PX/60013-01~03	USEPA8270	ANILINE	LCS	56.0%	-	-
Chlorobenzenes						
PX/60013-01~03	USEPA8260	Chlorobenzene	LCS	100.2%	75	125
PX/60013-01~03	USEPA8260	1,2-Dichlorobenzene	LCS	102.0%	75	125
PX/60013-01~03	USEPA8260	1,3-Dichlorobenzene	LCS	101.1%	75	125
PX/60013-01~03	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	LCS	69.8%	60	140
PX/60013-01~03	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	LCS	69.4%	60	140
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Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-01~03	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	LCS	74.2%	60	140
PX/60013-01~03	USEPA8270SIM	Pentachlorobenzene	LCS	76.8%	60	140
PX/60013-01~03	USEPA8270SIM	Hexachlorobenzene	LCS	92.2%	60	140
Chlorinated solvents						
PX/60013-01~03	USEPA8260	Methylene chloride	LCS	105.2%	75	125
PX/60013-01~03	USEPA8260	Tetrachloroethene	LCS	100.3%	75	125
PX/60013-01~03	USEPA8260	Trichloroethene	LCS	99.0%	75	125
PX/60013-01~03	USEPA8260	1,1,2-Trichloroethane	LCS	101.3%	75	125
PX/60013-01~03	USEPA8260	Carbon tetrachloride	LCS	95.0%	75	125
PX/60013-01~03	USEPA8260	Chloroform	LCS	101.6%	75	125
PX/60013-01~03	USEPA8260	1,2-Dichloroethane	LCS	100.3%	75	125
Chlorophenols						
PX/60013-01~03	USEPA8270SIM	2-Chlorophenol	LCS	80.0%	60	140
PX/60013-01~03	USEPA8270SIM	2,4-Dichlorophenol	LCS	63.2%	60	140
PX/60013-01~03	USEPA8270SIM	2,5-Dichlorophenol	LCS	82.2%	60	140
PX/60013-01~03	USEPA8270SIM	2,3-Dichlorophenol	LCS	82.0%	60	140
PX/60013-01~03	USEPA8270SIM	3-Chlorophenol	LCS	92.8%	60	140
PX/60013-01~03	USEPA8270SIM	4-Chlorophenol	LCS	86.0%	60	140
PX/60013-01~03	USEPA8270SIM	2,6-Dichlorophenol	LCS	79.8%	60	140
PX/60013-01~03	USEPA8270SIM	2,3,5-Trichlorophenol	LCS	82.2%	60	140
REMARK						

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Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-01~03	USEPA8270SIM	2,4,6-Trichlorophenol	LCS	81.6%	60	140
PX/60013-01~03	USEPA8270SIM	2,4,5-Trichlorophenol	LCS	86.0%	60	140
PX/60013-01~03	USEPA8270SIM	2,3,4-Trichlorophenol	LCS	88.0%	60	140
PX/60013-01~03	USEPA8270SIM	3,5-Dichlorophenol	LCS	94.6%	60	140
PX/60013-01~03	USEPA8270SIM	3,4-Dichlorophenol	LCS	92.8%	60	140
PX/60013-01~03	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	LCS	61.0%	60	140
PX/60013-01~03	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	LCS	92.0%	60	140
PX/60013-01~03	USEPA8270SIM	2,3,4,6-Trichlorophenol	LCS	77.8%	60	140
PX/60013-01~03	USEPA8270SIM	3,4,5-Trichlorophenol	LCS	88.8%	60	140
PX/60013-01~03	USEPA8270SIM	Pentachlorophenol	LCS	80.4%	60	140
Organotin Compounds						
PX/60013-01~03	ISO 17353 (GC/MS)	Monobutyltin	LCS	81.7%	-	-
PX/60013-01~03	ISO 17353 (GC/MS)	Dibutyltin	LCS	36.3%	-	-
PX/60013-01~03	ISO 17353 (GC/MS)	Tributyltin	LCS	25.3%	-	-
PX/60013-01~03	ISO 17353 (GC/MS)	Dioctyltin	LCS	26.7%	-	-
PX/60013-01~03	ISO 17353 (GC/MS)	Triphenyltin	LCS	70.7%	-	-
PX/60013-01~03	ISO 17353 (GC/MS)	Tricyclohexyltin	LCS	50.0%	-	-
PX/60013-01~03	ISO 17353 (GC/MS)	Trioctyltin	LCS	47.7%	-	-
PX/60013-01~03	ISO 17353 (GC/MS)	Tripropyltin	LCS	68.7%	-	-
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QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60013-01~03	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	LCS	98.7%	30	120
APEO						
PX/60013-01~03	Dichloromethane extraction /(GC/MS)	Nonylphenol	LCS	57.1%	-	-
PX/60013-01~03	Dichloromethane extraction /(GC/MS)	Octylphenol	LCS	34.3%	-	-
PX/60013-01~03	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	LCS	49.7%	-	-
PX/60013-01~03	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/60013-01~03	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	LCS	77.3%	-	-
PX/60013-01~03	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60013-01~03	SolidPhaseExtration/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	LCS	57.5%	-	-
PX/60013-01~03	SolidPhaseExtration/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	LCS	80.0%	-	-
PFCs						
PX/60013-01~03	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	LCS	50.0%	30	120
PX/60013-01~03	USEPA 3535A /(LC/MS)	perfluoroctane sulfonate (PFOS)	LCS	99.0%	30	120
General Chemistry						
PX/60013-03	NIEA W510	BOD(5-DAY)	LCS	100.7%	85	115
PX/60013-03	NIEA W517	COD	LCS	93.7%	85	115
PX/60013-03	NIEA W208	Total Hardness	LCS	103.7%	85	115
PX/60013-03	NIEA W521	Total phenolics	LCS	101.9%	85	115
PX/60013-03	NIEA W433	sulfide	LCS	105.9%	80	120
REMARK						

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QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-03	NIEA W223	True Color	LCS	98.4%	80	120
PX/60013-03	NIEA W208	Total Hardness	MS	97.7%	80	120
Heavy Metals						
PX/60013-01~03	NIEA W313	Arsenic, As	LCS	109.6%	80	120
PX/60013-01~03	NIEA W313	Cadmium, Cd	LCS	105.1%	80	120
PX/60013-01~03	NIEA W313	Cobalt, Co	LCS	108.7%	80	120
PX/60013-01~03	NIEA W313	Chromium, Cr (total)	LCS	108.5%	80	120
PX/60013-01~03	NIEA W320	Chromium, hexavalent, Cr(VI)	LCS	95.2%	80	120
PX/60013-01~03	NIEA W313	Copper, Cu	LCS	108.5%	80	120
PX/60013-01~03	NIEA W313	Mercury, Hg	LCS	101.5%	80	120
PX/60013-01~03	NIEA W313	Manganese, Mn	LCS	105.4%	80	120
PX/60013-01~03	NIEA W313	Nickel, Ni	LCS	104.5%	80	120
PX/60013-01~03	NIEA W313	Lead, Pb	LCS	100.8%	80	120
PX/60013-01~03	NIEA W313	Antimony, Sb	LCS	91.7%	80	120
PX/60013-01~03	NIEA W313	Zinc, Zn	LCS	109.4%	80	120
PX/60013-03	NIEA W441	Cyanide, CN^-	LCS	101.9%	85	115
PX/60013-01~03	NIEA W313	Arsenic, As	MS	82.2%	80	120
PX/60013-01~03	NIEA W313	Cadmium, Cd	MS	102.1%	80	120
PX/60013-01~03	NIEA W313	Cobalt, Co	MS	92.5%	80	120
PX/60013-01~03	NIEA W313	Chromium, Cr (total)	MS	103.8%	80	120
REMARK						

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Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-01~03	NIEA W313	Copper, Cu	MS	97.5%	80	120
PX/60013-01~03	NIEA W313	Mercury, Hg	MS	96.9%	80	120
PX/60013-01~03	NIEA W313	Manganese, Mn	MS	98.5%	80	120
PX/60013-01~03	NIEA W313	Nickel, Ni	MS	94.1%	80	120
PX/60013-01~03	NIEA W313	Lead, Pb	MS	107.3%	80	120
PX/60013-01~03	NIEA W313	Antimony, Sb	MS	102.1%	80	120
PX/60013-01~03	NIEA W313	Zinc, Zn	MS	109.6%	80	120
PX/60013-03	NIEA W441	Cyanide, CN^-	MS	102.7%	85	115
PX/60013-01~03	NIEA W313	Cadmium, Cd	MSD	97.9%	80	120
PX/60013-01~03	NIEA W313	Cobalt, Co	MSD	96.7%	80	120
PX/60013-01~03	NIEA W313	Mercury, Hg	MSD	95.8%	80	120
PX/60013-03	NIEA W441	Cyanide, CN^-	MSD	100.3%	85	115

REMARK						

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QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
Ortho-phthalates						
PX/60013-04	USEPA8270SIM	bis(2-ethylhexyl) phthalate	LCS	93.0%	60	140
PX/60013-04	USEPA8270SIM	butyl benzyl phthalate	LCS	84.1%	60	140
PX/60013-04	USEPA8270SIM	di-n-butyl phthalate	LCS	84.1%	60	140
PX/60013-04	USEPA8270SIM	diethyl phthalate	LCS	75.9%	60	140
PX/60013-04	USEPA8270SIM	dimethyl phthalate	LCS	74.5%	60	140
PX/60013-04	USEPA8270SIM	di-n-octyl phthalate	LCS	88.3%	60	140
PX/60013-04	USEPA8270SIM	di-isononyl phthalate	LCS	87.4%	60	140
PX/60013-04	USEPA8270SIM	di-iso-decyl phthalate	LCS	95.8%	60	140
PX/60013-04	USEPA8270SIM	di-isobutyl phthalate	LCS	81.1%	60	140
PX/60013-04	USEPA8270SIM	di-n-hexyl phthalate	LCS	84.6%	60	140
PX/60013-04	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	LCS	80.8%	60	140
PX/60013-04	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	LCS	81.2%	60	140
PX/60013-04	USEPA8270SIM	Dinonyl Phthalate (DNP)	LCS	88.8%	60	140
PX/60013-04	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	LCS	83.1%	60	140
PX/60013-04	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	LCS	82.1%	60	140
Brominated Flame retardants						
PX/60013-04	USEPA 527 (GC/MS)	3-PBDE	LCS	69.9%	-	-
PX/60013-04	USEPA 527 (GC/MS)	4-PBDE	LCS	73.7%	-	-
PX/60013-04	USEPA 527 (GC/MS)	5-PBDE	LCS	73.8%	-	-
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QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-04	USEPA 527 (GC/MS)	6-PBDE	LCS	77.1%	-	-
PX/60013-04	USEPA 527 (GC/MS)	7-PBDE	LCS	81.4%	-	-
PX/60013-04	USEPA 527 (GC/MS)	10-PBDE	LCS	68.5%	-	-
PX/60013-04	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	LCS	75.5%	-	-
PX/60013-04	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	LCS	67.2%	-	-
PX/60013-04	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	LCS	88.8%	-	-
PX/60013-04	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	LCS	86.1%	-	-
PX/60013-04	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	LCS	50.5%	-	-
Chlorinated Flame Retardants						
PX/60013-04	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	LCS	71.8%	-	-
PX/60013-04	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	LCS	83.2%	-	-
Azo dyes						
PX/60013-04	USEPA8270	4-AMINOBIPHENYL	LCS	90.0%	-	-
PX/60013-04	USEPA8270	4-CHLORO-O-TOLUIDINE	LCS	20.0%	-	-
PX/60013-04	USEPA8270	2-NAPHTHYLAMINE	LCS	70.0%	-	-
PX/60013-04	USEPA8270	4-CHLOROANILINE	LCS	50.0%	-	-
PX/60013-04	USEPA8270	3,3'-DICHLOROBENZIDINE	LCS	90.0%	-	-
PX/60013-04	USEPA8270	3,3'-DIMETHYLBENZIDINE	LCS	90.0%	-	-
PX/60013-04	USEPA8270	P-CRESIDINE	LCS	70.0%	-	-
PX/60013-04	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	LCS	80.0%	-	-
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QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-04	USEPA8270	O-TOLUIDINE	LCS	60.0%	-	-
PX/60013-04	USEPA8270	O-ANISIDINE	LCS	60.0%	-	-
Chlorobenzenes						
PX/60013-04	USEPA8260	Chlorobenzene	LCS	85.5%	70	130
PX/60013-04	USEPA8260	1,2-Dichlorobenzene	LCS	85.1%	70	130
PX/60013-04	USEPA8260	1,3-Dichlorobenzene	LCS	84.6%	70	130
PX/60013-04	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	LCS	66.2%	60	140
PX/60013-04	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	LCS	63.6%	60	140
PX/60013-04	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	LCS	63.4%	60	140
PX/60013-04	USEPA8270SIM	Pentachlorobenzene	LCS	70.0%	60	140
PX/60013-04	USEPA8270SIM	Hexachlorobenzene	LCS	74.8%	60	140
Chlorinated solvents						
PX/60013-04	USEPA8260	Tetrachloroethene	LCS	75.9%	75	125
PX/60013-04	USEPA8260	Trichloroethene	LCS	95.0%	75	125
PX/60013-04	USEPA8260	Chloroform	LCS	92.4%	75	125
PX/60013-04	USEPA8260	1,2-Dichloroethane	LCS	112.0%	75	125
Chlorophenols						
PX/60013-04	USEPA8270SIM	2-Chlorophenol	LCS	62.4%	60	140
PX/60013-04	USEPA8270SIM	2,4-Dichlorophenol	LCS	95.8%	60	140
PX/60013-04	USEPA8270SIM	2,5-Dichlorophenol	LCS	70.8%	60	140
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QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-04	USEPA8270SIM	2,3-Dichlorophenol	LCS	65.4%	60	140
PX/60013-04	USEPA8270SIM	3-Chlorophenol	LCS	85.4%	60	140
PX/60013-04	USEPA8270SIM	4-Chlorophenol	LCS	71.0%	60	140
PX/60013-04	USEPA8270SIM	2,6-Dichlorophenol	LCS	65.2%	60	140
PX/60013-04	USEPA8270SIM	2,3,5-Trichlorophenol	LCS	75.4%	60	140
PX/60013-04	USEPA8270SIM	2,4,6-Trichlorophenol	LCS	70.0%	60	140
PX/60013-04	USEPA8270SIM	2,4,5-Trichlorophenol	LCS	77.4%	60	140
PX/60013-04	USEPA8270SIM	2,3,4-Trichlorophenol	LCS	77.6%	60	140
PX/60013-04	USEPA8270SIM	3,5-Dichlorophenol	LCS	75.4%	60	140
PX/60013-04	USEPA8270SIM	3,4-Dichlorophenol	LCS	74.0%	60	140
PX/60013-04	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	LCS	64.6%	60	140
PX/60013-04	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	LCS	81.8%	60	140
PX/60013-04	USEPA8270SIM	2,3,4,6-Trichlorophenol	LCS	68.8%	60	140
PX/60013-04	USEPA8270SIM	3,4,5-Trichlorophenol	LCS	75.8%	60	140
PX/60013-04	USEPA8270SIM	Pentachlorophenol	LCS	96.6%	60	140
Organotin Compounds						
PX/60013-04	ISO 17353 (GC/MS)	Monobutyltin	LCS	45.0%	-	-
PX/60013-04	ISO 17353 (GC/MS)	Dibutyltin	LCS	27.7%	-	-
PX/60013-04	ISO 17353 (GC/MS)	Tributyltin	LCS	14.7%	-	-
PX/60013-04	ISO 17353 (GC/MS)	Dioctyltin	LCS	7.3%	-	-
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QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-04	ISO 17353 (GC/MS)	Triphenyltin	LCS	81.7%	-	-
PX/60013-04	ISO 17353 (GC/MS)	Tricyclohexyltin	LCS	32.3%	-	-
PX/60013-04	ISO 17353 (GC/MS)	Trioctyltin	LCS	28.7%	-	-
PX/60013-04	ISO 17353 (GC/MS)	Tripropyltin	LCS	67.3%	-	-
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60013-04	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	LCS	112.3%	-	-
APEO						
PX/60013-04	Dichloromethane extraction /(GC/MS)	Nonylphenol	LCS	58.1%	-	-
PX/60013-04	Dichloromethane extraction /(GC/MS)	Octylphenol	LCS	42.5%	-	-
PX/60013-04	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	LCS	58.6%	-	-
PX/60013-04	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/60013-04	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	LCS	97.7%	-	-
PX/60013-04	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60013-04	SolidPhaseExtration/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	LCS	33.8%	-	-
PX/60013-04	SolidPhaseExtration/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	LCS	49.4%	-	-
PFCs						
PX/60013-04	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	LCS	77.0%	-	-
PX/60013-04	USEPA 3535A /(LC/MS)	perfluoroctane sulfonate (PFOS)	LCS	82.0%	-	-
Heavy Metals						
PX/60013-04	NIEA S310	Arsenic, As	LCS	102.6%	80	120
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Laboratory of Environmental Analysis

QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60013-04	NIEA R355	Cadmium, Cd	LCS	99.1%	85	115
PX/60013-04	NIEA R355	Cobalt, Co	LCS	103.2%	85	115
PX/60013-04	NIEA R355	Chromium, Cr (total)	LCS	99.3%	85	115
PX/60013-04	NIEA T303	Chromium, hexavalent, Cr(VI)	LCS	100.2%	-	-
PX/60013-04	NIEA R355	Copper, Cu	LCS	98.8%	85	115
PX/60013-04	NIEA M317	Mercury, Hg	LCS	102.1%	80	120
PX/60013-04	NIEA R355	Manganese, Mn	LCS	97.7%	85	115
PX/60013-04	NIEA R355	Nickel, Ni	LCS	99.3%	85	115
PX/60013-04	NIEA R355	Lead, Pb	LCS	100.3%	85	115
PX/60013-04	NIEA R355	Antimony, Sb	LCS	103.8%	85	115
PX/60013-04	NIEA R355	Zinc, Zn	LCS	101.0%	85	115
PX/60013-04	NIEA S310	Arsenic, As	MS	102.4%	75	125
PX/60013-04	NIEA M317	Mercury, Hg	MS	101.8%	75	125
PX/60013-04	NIEA M317	Mercury, Hg	MSD	103.9%	75	125

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