

Laboratory of Environmental Analysis TEST REPORT

Company Name : 5075
 Project Name : Jack Wolfskin Wastewater & Sludge Testing Programme
 Sample Type : Water & Sludge
 Sample Number : PX6001401~04
 Sampling : SGS Taiwan Ltd.
 Sampling Place : *

Sampling Time : 2014/06/05 PM 03:00
 Until : 2014/06/05 PM 04:55
 Received Time : 2014/06/05 PM 06:04
 Report Date : 2014/07/01
 Report Number : PX/2014/60014
 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.



[Signature]
 Carry Kuo, M.S., Manager

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TWB 0349570



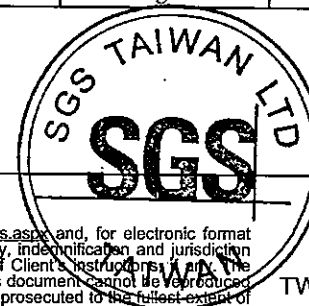
Laboratory of Environmental Analysis
TEST REPORT

Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/60014-01	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	butyl benzyl phthalate	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	di-n-butyl phthalate	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	diethyl phthalate	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	dimethyl phthalate	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	di-n-octyl phthalate	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	di-isononyl phthalate	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	di-iso-decyl phthalate	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	di-isobutyl phthalate	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	di-n-hexyl phthalate	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	Dinonyl Phthalate (DNP)	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<10.0	ug/L	-	10.0
PX/60014-01	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<10.0	ug/L	-	10.0
Brominated Flame retardants						
PX/60014-01	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<0.5	ug/L	-	0.5
PX/60014-01	USEPA 527 (GC/MS)	4-PBDE	<0.05	ug/L	-	0.05
PX/60014-01	USEPA 527 (GC/MS)	5-PBDE	<0.05	ug/L	-	0.05
PX/60014-01	USEPA 527 (GC/MS)	6-PBDE	<0.05	ug/L	-	0.05
PX/60014-01	USEPA 527 (GC/MS)	7-PBDE	<0.05	ug/L	-	0.05
PX/60014-01	USEPA 527 (GC/MS)	8-PBDE	<0.05	ug/L	-	0.05
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TWB 0349571



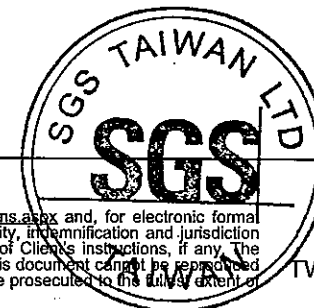
Laboratory of Environmental Analysis
TEST REPORT

Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-01	USEPA 527 (GC/MS)	9-PBDE	<0.05	ug/L	-	0.05
PX/60014-01	USEPA 527 (GC/MS)	10-PBDE	<0.05	ug/L	-	0.05
PX/60014-01	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<0.5	ug/L	-	0.5
PX/60014-01	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<0.5	ug/L	-	0.5
PX/60014-01	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<20.0	ug/L	-	20.0
PX/60014-01	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<0.5	ug/L	-	0.5
PX/60014-01	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<20.0	ug/L	-	20.0
Chlorinated Flame Retardants						
PX/60014-01	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<0.5	ug/L	-	0.5
PX/60014-01	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<0.5	ug/L	-	0.5
Azo dyes						
PX/60014-01	USEPA8270	4-AMINOBIIPHENYL	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	BENZIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	4-CHLORO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	2-NAPHTHYLAMINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	O-AMINOAZOTOLUENE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	5-NITRO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	4-CHLOROANILINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	3,3'-DICHLOROBENZIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	3,3'-DIMETHYLBENZIDINE	<1.00	ug/L	-	1.00
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Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-01	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	P-CRESIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	4,4'-OXYDIANILINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	4,4'-THIODIANILINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	2,4,5-TRIMETHYLANILINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	O-ANISIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	4-AMINOAZOBENZENE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	2,4-XYLIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	2,6-XYLIDINE	<1.00	ug/L	-	1.00
PX/60014-01	USEPA8270	ANILINE	<1.00	ug/L	-	1.00
Chlorobenzenes						
PX/60014-01	USEPA8260	Chlorobenzene	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	1,2-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	1,3-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	1,4-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	1,2,4-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	1,2,3-Trichlorobenzene,	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	1,3,5-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60014-01	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/60014-01	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	Pentachlorobenzene	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	Hexachlorobenzene	<5.00	ug/L	-	5.00
Chlorinated solvents						
PX/60014-01	USEPA8260	Methylene chloride	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	Tetrachloroethene	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	Trichloroethene	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	1,1,2-Trichloroethane	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	Carbon tetrachloride	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	Chloroform	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	1,2-Dichloroethane	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8260	1,1-Dichloroethane	<5.00	ug/L	-	5.00
Chlorophenols						
PX/60014-01	USEPA8270SIM	2-Chlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	2,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	2,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	2,3-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	3-Chlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	4-Chlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	2,6-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	2,3,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	2,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	2,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
REMARK						

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TWB 0349574



Laboratory of Environmental Analysis

TEST REPORT

Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-01	USEPA8270SIM	2,3,4-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	3,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	3,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	2,3,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	3,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-01	USEPA8270SIM	Pentachlorophenol	<5.00	ug/L	-	5.00
Organotin Compounds						
PX/60014-01	ISO 17353 (GC/MS)	Monobutyltin	<0.1	ug/L	-	0.1
PX/60014-01	ISO 17353 (GC/MS)	Dibutyltin	<0.1	ug/L	-	0.1
PX/60014-01	ISO 17353 (GC/MS)	Tributyltin	<0.1	ug/L	-	0.1
PX/60014-01	ISO 17353 (GC/MS)	Diocetyltn	<0.1	ug/L	-	0.1
PX/60014-01	ISO 17353 (GC/MS)	Triphenyltin	<0.1	ug/L	-	0.1
PX/60014-01	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.1	ug/L	-	0.1
PX/60014-01	ISO 17353 (GC/MS)	Triocetyltn	<0.1	ug/L	-	0.1
PX/60014-01	ISO 17353 (GC/MS)	Tripropyltin	<0.1	ug/L	-	0.1
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60014-01	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<10.0	ug/L	-	10.0
APEO						
PX/60014-01	Dichloromethane extraction /(GC/MS)	Nonylphenol	<5.00	ug/L	-	5.00
PX/60014-01	Dichloromethane extraction /(GC/MS)	Octylphenol	<5.00	ug/L	-	5.00
REMARK	 TWB 0349575					

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Laboratory of Environmental Analysis
TEST REPORT

Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-01	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<5.00	ug/L	-	5.00
PX/60014-01	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates, NP2EO				
PX/60014-01	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<5.00	ug/L	-	5.00
PX/60014-01	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60014-01	SolidPhaseExtraction/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<1.00	ug/L	-	1.00
PX/60014-01	SolidPhaseExtraction/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<1.00	ug/L	-	1.00
PFCs						
PX/60014-01	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<1.00	ug/L	-	1.00
PX/60014-01	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	<1.00	ug/L	-	1.00
Heavy Metals						
PX/60014-01	NIEA W313	Arsenic, As	0.00102	mg/L	0.00002	-
PX/60014-01	NIEA W313	Cadmium, Cd	<0.00020	mg/L	0.00002	-
PX/60014-01	NIEA W313	Cobalt, Co	ND<0.00004	mg/L	0.00004	-
PX/60014-01	NIEA W313	Chromium, Cr (total)	0.00068	mg/L	0.00005	-
PX/60014-01	NIEA W320	Chromium, hexavalent, Cr(VI)	ND<0.01	mg/L	0.01	-
PX/60014-01	NIEA W313	Copper, Cu	0.00750	mg/L	0.00006	-
PX/60014-01	NIEA W313	Mercury, Hg	<0.00005(0.00001)	mg/L	0.00002	-
PX/60014-01	NIEA W313	Manganese, Mn	0.00083	mg/L	0.00004	-
PX/60014-01	NIEA W313	Nickel, Ni	0.00057	mg/L	0.00005	-
PX/60014-01	NIEA W313	Lead, Pb	0.00036	mg/L	0.00002	-
PX/60014-01	NIEA W313	Antimony, Sb	0.00045	mg/L	0.00003	-
PX/60014-01	NIEA W313	Zinc, Zn	0.00177	mg/L	0.00002	-

REMARK	1. Sample interference by matrix, Cadmium is diluted by the factor of 2.					

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TWB 0349576



Laboratory of Environmental Analysis
TEST REPORT

Sample : Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/60014-02	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	butyl benzyl phthalate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	di-n-butyl phthalate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	diethyl phthalate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	dimethyl phthalate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	di-n-octyl phthalate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	di-isononyl phthalate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	di-iso-decyl phthalate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	di-isobutyl phthalate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	di-n-hexyl phthalate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	Dinonyl Phthalate (DNP)	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<20.0	ug/L	-	20.0
PX/60014-02	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<20.0	ug/L	-	20.0
Brominated Flame retardants						
PX/60014-02	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<0.5	ug/L	-	0.5
PX/60014-02	USEPA 527 (GC/MS)	4-PBDE	<0.05	ug/L	-	0.05
PX/60014-02	USEPA 527 (GC/MS)	5-PBDE	<0.05	ug/L	-	0.05
PX/60014-02	USEPA 527 (GC/MS)	6-PBDE	<0.05	ug/L	-	0.05
PX/60014-02	USEPA 527 (GC/MS)	7-PBDE	<0.05	ug/L	-	0.05
PX/60014-02	USEPA 527 (GC/MS)	8-PBDE	<0.05	ug/L	-	0.05
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TWB 0349577



Laboratory of Environmental Analysis
TEST REPORT

Sample : Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-02	USEPA 527 (GC/MS)	9-PBDE	<0.05	ug/L	-	0.05
PX/60014-02	USEPA 527 (GC/MS)	10-PBDE	<0.05	ug/L	-	0.05
PX/60014-02	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<0.5	ug/L	-	0.5
PX/60014-02	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<0.5	ug/L	-	0.5
PX/60014-02	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<20.0	ug/L	-	20.0
PX/60014-02	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<0.5	ug/L	-	0.5
PX/60014-02	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<20.0	ug/L	-	20.0
Chlorinated Flame Retardants						
PX/60014-02	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<0.5	ug/L	-	0.5
PX/60014-02	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<0.5	ug/L	-	0.5
Azo dyes						
PX/60014-02	USEPA8270	4-AMINOBIIPHENYL	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	BENZIDINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	4-CHLORO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	2-NAPHTHYLAMINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	O-AMINOAZOTOLUENE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	5-NITRO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	4-CHLOROANILINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	3,3'-DICHLOROBENZIDINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<1.00	ug/L	-	1.00
PX/60014-02	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/60014-02	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	P-CRESIDINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	4,4'-OXYDIANILINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	4,4'-THIODIANILINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	2,4,5-TRIMETHYLANILINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	O-ANISIDINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	4-AMINOAZOBENZENE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	2,4-XYLIDINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	2,6-XYLIDINE	<1.00	ug/L	-	1.00
PX/60014-02	USEPA8270	ANILINE	<1.00	ug/L	-	1.00
Chlorobenzenes						
PX/60014-02	USEPA8260	Chlorobenzene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	1,2-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	1,3-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	1,4-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	1,2,4-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	1,2,3-Trichlorobenzene,	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	1,3,5-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
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TWB 0349579



Laboratory of Environmental Analysis
TEST REPORT

Sample : Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-02	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	Pentachlorobenzene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	Hexachlorobenzene	<5.00	ug/L	-	5.00
Chlorinated solvents						
PX/60014-02	USEPA8260	Methylene chloride	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	Tetrachloroethene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	Trichloroethene	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	1,1,2-Trichloroethane	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	Carbon tetrachloride	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	Chloroform	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	1,2-Dichloroethane	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8260	1,1-Dichloroethane	<5.00	ug/L	-	5.00
Chlorophenols						
PX/60014-02	USEPA8270SIM	2-Chlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	2,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	2,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	2,3-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	3-Chlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	4-Chlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	2,6-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	2,3,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	2,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	2,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
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TWB 0349580

Laboratory of Environmental Analysis TEST REPORT

Sample : Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-02	USEPA8270SIM	2,3,4-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	3,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	3,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	2,3,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	3,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-02	USEPA8270SIM	Pentachlorophenol	<5.00	ug/L	-	5.00
Organotin Compounds						
PX/60014-02	ISO 17353 (GC/MS)	Monobutyltin	<0.1	ug/L	-	0.1
PX/60014-02	ISO 17353 (GC/MS)	Dibutyltin	<0.1	ug/L	-	0.1
PX/60014-02	ISO 17353 (GC/MS)	Tributyltin	<0.1	ug/L	-	0.1
PX/60014-02	ISO 17353 (GC/MS)	Diocetyltn	<0.1	ug/L	-	0.1
PX/60014-02	ISO 17353 (GC/MS)	Triphenyltin	<0.1	ug/L	-	0.1
PX/60014-02	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.1	ug/L	-	0.1
PX/60014-02	ISO 17353 (GC/MS)	Triocetyltn	<0.1	ug/L	-	0.1
PX/60014-02	ISO 17353 (GC/MS)	Tripropyltin	<0.1	ug/L	-	0.1
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60014-02	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<10.0	ug/L	-	10.0
APEO						
PX/60014-02	Dichloromethane extraction /(GC/MS)	Nonylphenol	<5.00	ug/L	-	5.00
PX/60014-02	Dichloromethane extraction /(GC/MS)	Octylphenol	<5.00	ug/L	-	5.00
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TWB 0349581

TEST REPORT

Sample : Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-02	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<5.00	ug/L	-	5.00
PX/60014-02	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/60014-02	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<5.00	ug/L	-	5.00
PX/60014-02	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60014-02	SolidPhaseExtraction/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<1.00	ug/L	-	1.00
PX/60014-02	SolidPhaseExtraction/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<1.00	ug/L	-	1.00
PFCs						
PX/60014-02	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<1.00	ug/L	-	1.00
PX/60014-02	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	<1.00	ug/L	-	1.00
Heavy Metals						
PX/60014-02	NIEA W313	Arsenic, As	0.00149	mg/L	0.00002	-
PX/60014-02	NIEA W313	Cadmium, Cd	<0.00010(0.00004)	mg/L	0.00002	-
PX/60014-02	NIEA W313	Cobalt, Co	0.00100	mg/L	0.00004	-
PX/60014-02	NIEA W313	Chromium, Cr (total)	0.00626	mg/L	0.00005	-
PX/60014-02	NIEA W320	Chromium, hexavalent, Cr(VI)	ND<0.01	mg/L	0.01	-
PX/60014-02	NIEA W313	Copper, Cu	0.00895	mg/L	0.00006	-
PX/60014-02	NIEA W313	Mercury, Hg	0.00015	mg/L	0.00002	-
PX/60014-02	NIEA W313	Manganese, Mn	0.255	mg/L	0.00004	-
PX/60014-02	NIEA W313	Nickel, Ni	0.00298	mg/L	0.00005	-
PX/60014-02	NIEA W313	Lead, Pb	0.00101	mg/L	0.00002	-
PX/60014-02	NIEA W313	Antimony, Sb	0.458	mg/L	0.00003	-
PX/60014-02	NIEA W313	Zinc, Zn	0.188	mg/L	0.00002	-

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TWB 0349582



Laboratory of Environmental Analysis
TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/60014-03	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	butyl benzyl phthalate	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	di-n-butyl phthalate	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	diethyl phthalate	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	dimethyl phthalate	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	di-n-octyl phthalate	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	di-isononyl phthalate	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	di-iso-decyl phthalate	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	di-isobutyl phthalate	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	di-n-hexyl phthalate	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	Dinonyl Phthalate (DNP)	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<10.0	ug/L	-	10.0
PX/60014-03	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<10.0	ug/L	-	10.0
Brominated Flame retardants						
PX/60014-03	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<0.5	ug/L	-	0.5
PX/60014-03	USEPA 527 (GC/MS)	4-PBDE	<0.05	ug/L	-	0.05
PX/60014-03	USEPA 527 (GC/MS)	5-PBDE	<0.05	ug/L	-	0.05
PX/60014-03	USEPA 527 (GC/MS)	6-PBDE	<0.05	ug/L	-	0.05
PX/60014-03	USEPA 527 (GC/MS)	7-PBDE	<0.05	ug/L	-	0.05
PX/60014-03	USEPA 527 (GC/MS)	8-PBDE	<0.05	ug/L	-	0.05
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TWB 0349583



Laboratory of Environmental Analysis
TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-03	USEPA 527 (GC/MS)	9-PBDE	<0.05	ug/L	-	0.05
PX/60014-03	USEPA 527 (GC/MS)	10-PBDE	<0.05	ug/L	-	0.05
PX/60014-03	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<0.5	ug/L	-	0.5
PX/60014-03	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<0.5	ug/L	-	0.5
PX/60014-03	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<20.0	ug/L	-	20.0
PX/60014-03	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<0.5	ug/L	-	0.5
PX/60014-03	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<20.0	ug/L	-	20.0
Chlorinated Flame Retardants						
PX/60014-03	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<0.5	ug/L	-	0.5
PX/60014-03	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<0.5	ug/L	-	0.5
Azo dyes						
PX/60014-03	USEPA8270	4-AMINOBIIPHENYL	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	BENZIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	4-CHLORO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	2-NAPHTHYLAMINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	O-AMINOAZOTOLUENE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	5-NITRO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	4-CHLOROANILINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	3,3'-DICHLOBENZIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	3,3'-DIMETHYLBENZIDINE	<1.00	ug/L	-	1.00
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TWB 0349584



Laboratory of Environmental Analysis
TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-03	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	P-CRESIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	4,4'-OXYDIANILINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	4,4'-THIODIANILINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	2,4,5-TRIMETHYLANILINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	O-ANISIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	4-AMINOAZOBENZENE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	2,4-XYLIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	2,6-XYLIDINE	<1.00	ug/L	-	1.00
PX/60014-03	USEPA8270	ANILINE	<1.00	ug/L	-	1.00
Chlorobenzenes						
PX/60014-03	USEPA8260	Chlorobenzene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	1,2-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	1,3-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	1,4-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	1,2,4-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	1,2,3-Trichlorobenzene,	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	1,3,5-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
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TWB 0349585



Laboratory of Environmental Analysis

TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-03	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	Pentachlorobenzene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	Hexachlorobenzene	<5.00	ug/L	-	5.00
Chlorinated solvents						
PX/60014-03	USEPA8260	Methylene chloride	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	Tetrachloroethene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	Trichloroethene	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	1,1,2-Trichloroethane	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	Carbon tetrachloride	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	Chloroform	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	1,2-Dichloroethane	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8260	1,1-Dichloroethane	<5.00	ug/L	-	5.00
Chlorophenols						
PX/60014-03	USEPA8270SIM	2-Chlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	2,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	2,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	2,3-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	3-Chlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	4-Chlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	2,6-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	2,3,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	2,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	2,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
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TWB 0349586



Laboratory of Environmental Analysis

TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-03	USEPA8270SIM	2,3,4-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	3,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	3,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	2,3,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	3,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/60014-03	USEPA8270SIM	Pentachlorophenol	<5.00	ug/L	-	5.00
Organotin Compounds						
PX/60014-03	ISO 17353 (GC/MS)	Monobutyltin	<0.1	ug/L	-	0.1
PX/60014-03	ISO 17353 (GC/MS)	Dibutyltin	<0.1	ug/L	-	0.1
PX/60014-03	ISO 17353 (GC/MS)	Tributyltin	<0.1	ug/L	-	0.1
PX/60014-03	ISO 17353 (GC/MS)	Dioctyltin	<0.1	ug/L	-	0.1
PX/60014-03	ISO 17353 (GC/MS)	Triphenyltin	<0.1	ug/L	-	0.1
PX/60014-03	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.1	ug/L	-	0.1
PX/60014-03	ISO 17353 (GC/MS)	Trioctyltin	<0.1	ug/L	-	0.1
PX/60014-03	ISO 17353 (GC/MS)	Tripropyltin	<0.1	ug/L	-	0.1
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60014-03	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<10.0	ug/L	-	10.0
APEO						
PX/60014-03	Dichloromethane extraction /(GC/MS)	Nonylphenol	<5.00	ug/L	-	5.00
PX/60014-03	Dichloromethane extraction /(GC/MS)	Octylphenol	<5.00	ug/L	-	5.00
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TWB 0349587



Laboratory of Environmental Analysis
TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-03	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<5.00	ug/L	-	5.00
PX/60014-03	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/60014-03	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<5.00	ug/L	-	5.00
PX/60014-03	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60014-03	SolidPhaseExtraction/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<1.00	ug/L	-	1.00
PX/60014-03	SolidPhaseExtraction/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<1.00	ug/L	-	1.00
PFCs						
PX/60014-03	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<1.00	ug/L	-	1.00
PX/60014-03	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	<1.00	ug/L	-	1.00
General Chemistry						
PX/60014-03	NIEA W424	pH	8.1(31.8℃)	-	-	-
PX/60014-03	NIEA W510	BOD(5-DAY)	2.9	mg/L	1.0	-
PX/60014-03	NIEA W517	COD	41.9	mg/L	2.8	-
PX/60014-03	NIEA W208	Total Hardness	113	mg/L	1.7	-
PX/60014-03	NIEA W521	Total phenolics	ND<0.0009	mg/L	0.0009	-
PX/60014-03	NIEA W433	sulfide	ND<0.01	mg/L	0.01	-
PX/60014-03	NIEA W210	TSS	17.5	mg/L	1.0	-
PX/60014-03	NIEA W210	TDS	2060	mg/L	5.0	-
PX/60014-03	NIEA W223	True Color	151	mg/L	25	-
Heavy Metals						
PX/60014-03	NIEA W313	Arsenic, As	0.00148	mg/L	0.00002	-
PX/60014-03	NIEA W313	Cadmium, Cd	ND<0.00002	mg/L	0.00002	-
PX/60014-03	NIEA W313	Cobalt, Co	0.00031	mg/L	0.00004	-
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TWB 0349588



Laboratory of Environmental Analysis
TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/60014-04	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	butyl benzyl phthalate	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	di-n-butyl phthalate	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	diethyl phthalate	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	dimethyl phthalate	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	di-n-octyl phthalate	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	di-isononyl phthalate	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	di-iso-decyl phthalate	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	di-isobutyl phthalate	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	di-n-hexyl phthalate	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	Dinonyl Phthalate (DNP)	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<1.00	mg/kg	-	1.00
Brominated Flame retardants						
PX/60014-04	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<2.50	mg/kg	-	2.50
PX/60014-04	USEPA 527 (GC/MS)	4-PBDE	<0.25	mg/kg	-	0.25
PX/60014-04	USEPA 527 (GC/MS)	5-PBDE	<0.25	mg/kg	-	0.25
PX/60014-04	USEPA 527 (GC/MS)	6-PBDE	<0.25	mg/kg	-	0.25
PX/60014-04	USEPA 527 (GC/MS)	7-PBDE	<0.25	mg/kg	-	0.25
PX/60014-04	USEPA 527 (GC/MS)	8-PBDE	<0.25	mg/kg	-	0.25
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TWB 0349590



Laboratory of Environmental Analysis
TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-04	USEPA 527 (GC/MS)	9-PBDE	<0.25	mg/kg	-	0.25
PX/60014-04	USEPA 527 (GC/MS)	10-PBDE	<0.25	mg/kg	-	0.25
PX/60014-04	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<2.50	mg/kg	-	2.50
PX/60014-04	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<2.50	mg/kg	-	2.50
PX/60014-04	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<75.0	mg/kg	-	75.0
PX/60014-04	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<2.50	mg/kg	-	2.50
PX/60014-04	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<75.0	mg/kg	-	75.0
Chlorinated Flame Retardants						
PX/60014-04	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<2.50	mg/kg	-	2.50
PX/60014-04	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<2.50	mg/kg	-	2.50
Azo dyes						
PX/60014-04	USEPA8270	4-AMINOBIIPHENYL	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	BENZIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	4-CHLORO-O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	2-NAPHTHYLAMINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	O-AMINOAZOTOLUENE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	5-NITRO-O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	4-CHLOROANILINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	3,3'-DICHLOBENZIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	3,3'-DIMETHYLBENZIDINE	<0.50	mg/kg	-	0.50
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TWB 0349591

Laboratory of Environmental Analysis TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-04	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	P-CRESIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	4,4'-OXYDIANILINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	4,4'-THIODIANILINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	2,4,5-TRIMETHYLANILINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	O-ANISIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	4-AMINOAZOBENZENE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	2,4-XYLIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	2,6-XYLIDINE	<0.50	mg/kg	-	0.50
PX/60014-04	USEPA8270	ANILINE	<0.50	mg/kg	-	0.50
Chlorobenzenes						
PX/60014-04	USEPA8260	Chlorobenzene	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	1,2-Dichlorobenzene	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	1,3-Dichlorobenzene	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	1,4-Dichlorobenzene	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	1,2,4-Trichlorobenzene	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	1,2,3-Trichlorobenzene,	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	1,3,5-Trichlorobenzene	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	<1.00	mg/kg	-	1.00
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TWB 0349592



Laboratory of Environmental Analysis
TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-04	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	Pentachlorobenzene	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	Hexachlorobenzene	<1.00	mg/kg	-	1.00
Chlorinated solvents						
PX/60014-04	USEPA8260	Methylene chloride	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	Tetrachloroethene	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	Trichloroethene	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	1,1,2-Trichloroethane	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	Carbon tetrachloride	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	Chloroform	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	1,2-Dichloroethane	<0.40	mg/kg	-	0.40
PX/60014-04	USEPA8260	1,1-Dichloroethane	<0.40	mg/kg	-	0.40
Chlorophenols						
PX/60014-04	USEPA8270SIM	2-Chlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	2,4-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	2,5-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	2,3-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	3-Chlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	4-Chlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	2,6-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	2,3,5-Trichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	2,4,6-Trichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	2,4,5-Trichlorophenol	<1.00	mg/kg	-	1.00
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TWB 0349593



Laboratory of Environmental Analysis

TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-04	USEPA8270SIM	2,3,4-Trichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	3,5-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	3,4-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	2,3,4,6-Trichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	3,4,5-Trichlorophenol	<1.00	mg/kg	-	1.00
PX/60014-04	USEPA8270SIM	Pentachlorophenol	<1.00	mg/kg	-	1.00
Organotin Compounds						
PX/60014-04	ISO 17353 (GC/MS)	Monobutyltin	<0.002	mg/kg	-	0.002
PX/60014-04	ISO 17353 (GC/MS)	Dibutyltin	<0.002	mg/kg	-	0.002
PX/60014-04	ISO 17353 (GC/MS)	Tributyltin	<0.002	mg/kg	-	0.002
PX/60014-04	ISO 17353 (GC/MS)	Diocetyl tin	<0.002	mg/kg	-	0.002
PX/60014-04	ISO 17353 (GC/MS)	Triphenyltin	<0.002	mg/kg	-	0.002
PX/60014-04	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.002	mg/kg	-	0.002
PX/60014-04	ISO 17353 (GC/MS)	Triocetyl tin	<0.002	mg/kg	-	0.002
PX/60014-04	ISO 17353 (GC/MS)	Tripropyltin	<0.002	mg/kg	-	0.002
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60014-04	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<4.00	mg/kg	-	4.00
APEO						
PX/60014-04	Dichloromethane extraction /(GC/MS)	Nonylphenol	<25.0	mg/kg	-	25.0
PX/60014-04	Dichloromethane extraction /(GC/MS)	Octylphenol	<25.0	mg/kg	-	25.0
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TWP 0349594



Laboratory of Environmental Analysis
TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/60014-04	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<25.0	mg/kg	-	25.0
PX/60014-04	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates, NP2EO				
PX/60014-04	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<25.0	mg/kg	-	25.0
PX/60014-04	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60014-04	SolidPhaseExtraction/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<0.02	mg/kg	-	0.02
PX/60014-04	SolidPhaseExtraction/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<0.02	mg/kg	-	0.02
PFCs						
PX/60014-04	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<0.01	mg/kg	-	0.01
PX/60014-04	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	<0.01	mg/kg	-	0.01
Heavy Metals						
PX/60014-04	NIEA S310	Arsenic, As	6.33	mg/kg	0.102	-
PX/60014-04	NIEA R355	Cadmium, Cd	<10.0	mg/kg	10.0	-
PX/60014-04	NIEA R355	Cobalt, Co	13.2	mg/kg	10.0	-
PX/60014-04	NIEA R355	Chromium, Cr (total)	83.8	mg/kg	10.0	-
PX/60014-04	NIEA T303	Chromium, hexavalent, Cr(VI)	<0.50	mg/kg	-	0.50
PX/60014-04	NIEA R355	Copper, Cu	59.6	mg/kg	10.0	-
PX/60014-04	NIEA M317	Mercury, Hg	<2.00	mg/kg	0.037	-
PX/60014-04	NIEA R355	Manganese, Mn	750	mg/kg	10.0	-
PX/60014-04	NIEA R355	Nickel, Ni	13.0	mg/kg	10.0	-
PX/60014-04	NIEA R355	Lead, Pb	<10.0	mg/kg	10.0	-
PX/60014-04	NIEA S410	pH	8.0(24.7°C)	-	-	-
PX/60014-04	NIEA R355	Antimony, Sb	413	mg/kg	10.0	-
PX/60014-04	NIEA R355	Zinc, Zn	392	mg/kg	10.0	-
PX/60014-04	NIEA S280	Moisture	67.4	%	-	-

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

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TWB 0349595

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
Ortho-phthalates						
PX/60014-01~03	USEPA8270SIM	bis(2-ethylhexyl) phthalate	LCS	86.3%	60	140
PX/60014-01~03	USEPA8270SIM	butyl benzyl phthalate	LCS	87.6%	60	140
PX/60014-01~03	USEPA8270SIM	di-n-butyl phthalate	LCS	84.2%	60	140
PX/60014-01~03	USEPA8270SIM	diethyl phthalate	LCS	84.6%	60	140
PX/60014-01~03	USEPA8270SIM	dimethyl phthalate	LCS	83.9%	60	140
PX/60014-01~03	USEPA8270SIM	di-n-octyl phthalate	LCS	82.7%	60	140
PX/60014-01~03	USEPA8270SIM	di-isononyl phthalate	LCS	79.7%	60	140
PX/60014-01~03	USEPA8270SIM	di-iso-decyl phthalate	LCS	104.9%	60	140
PX/60014-01~03	USEPA8270SIM	di-isobutyl phthalate	LCS	85.9%	60	140
PX/60014-01~03	USEPA8270SIM	di-n-hexyl phthalate	LCS	87.5%	60	140
PX/60014-01~03	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	LCS	86.2%	60	140
PX/60014-01~03	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	LCS	84.2%	60	140
PX/60014-01~03	USEPA8270SIM	Dinonyl Phthalate (DNP)	LCS	84.5%	60	140
PX/60014-01~03	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	LCS	79.1%	60	140
PX/60014-01~03	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	LCS	76.2%	60	140
Brominated Flame retardants						
PX/60014-01~03	USEPA 527 (GC/MS)	3-PBDE	LCS	44.7%	-	-
PX/60014-01~03	USEPA 527 (GC/MS)	4-PBDE	LCS	45.2%	-	-
PX/60014-01~03	USEPA 527 (GC/MS)	5-PBDE	LCS	42.0%	-	-
REMARK						

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TWB 0349596

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60014-01~03	USEPA 527 (GC/MS)	6-PBDE	LCS	44.0%	-	-
PX/60014-01~03	USEPA 527 (GC/MS)	7-PBDE	LCS	48.4%	-	-
PX/60014-01~03	USEPA 527 (GC/MS)	10-PBDE	LCS	49.8%	-	-
PX/60014-01~03	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	LCS	82.6%	-	-
PX/60014-01~03	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	LCS	100.6%	-	-
PX/60014-01~03	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	LCS	89.0%	-	-
PX/60014-01~03	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	LCS	93.3%	-	-
PX/60014-01~03	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	LCS	94.3%	-	-
Chlorinated Flame Retardants						
PX/60014-01~03	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	LCS	98.6%	-	-
PX/60014-01~03	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	LCS	99.8%	-	-
Azo dyes						
PX/60014-01~03	USEPA8270	4-AMINOBIIPHENYL	LCS	45.0%	-	-
PX/60014-01~03	USEPA8270	BENZIDINE	LCS	19.0%	-	-
PX/60014-01~03	USEPA8270	4-CHLORO-O-TOLUIDINE	LCS	44.0%	-	-
PX/60014-01~03	USEPA8270	2-NAPHTHYLAMINE	LCS	45.0%	-	-
PX/60014-01~03	USEPA8270	4-CHLOROANILINE	LCS	39.0%	-	-
PX/60014-01~03	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	LCS	22.0%	-	-
PX/60014-01~03	USEPA8270	3,3'-DICHLOBENZIDINE	LCS	48.0%	-	-
PX/60014-01~03	USEPA8270	3,3'-DIMETHOXYBENZIDINE	LCS	18.0%	-	-
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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/60014-01~03	USEPA8270	3,3'-DIMETHYLBENZIDINE	LCS	34.0%	-	-
PX/60014-01~03	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	LCS	25.0%	-	-
PX/60014-01~03	USEPA8270	P-CRESIDINE	LCS	44.0%	-	-
PX/60014-01~03	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	LCS	45.0%	-	-
PX/60014-01~03	USEPA8270	4,4'-OXYDIANILINE	LCS	21.0%	-	-
PX/60014-01~03	USEPA8270	4,4'-THIODIANILINE	LCS	18.0%	-	-
PX/60014-01~03	USEPA8270	O-TOLUIDINE	LCS	46.0%	-	-
PX/60014-01~03	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	LCS	10.0%	-	-
PX/60014-01~03	USEPA8270	2,4,5-TRIMETHYLANILINE	LCS	40.0%	-	-
PX/60014-01~03	USEPA8270	O-ANISIDINE	LCS	45.0%	-	-
PX/60014-01~03	USEPA8270	4-AMINOAZOBENZENE	LCS	44.0%	-	-
PX/60014-01~03	USEPA8270	2,4-XYLIDINE	LCS	46.0%	-	-
PX/60014-01~03	USEPA8270	2,6-XYLIDINE	LCS	46.0%	-	-
PX/60014-01~03	USEPA8270	ANILINE	LCS	56.0%	-	-
Chlorobenzenes						
PX/60014-01~03	USEPA8260	Chlorobenzene	LCS	100.2%	75	125
PX/60014-01~03	USEPA8260	1,2-Dichlorobenzene	LCS	102.0%	75	125
PX/60014-01~03	USEPA8260	1,3-Dichlorobenzene	LCS	101.1%	75	125
PX/60014-01~03	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	LCS	69.8%	60	140
PX/60014-01~03	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	LCS	69.4%	60	140
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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/60014-01~03	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	LCS	74.2%	60	140
PX/60014-01~03	USEPA8270SIM	Pentachlorobenzene	LCS	76.8%	60	140
PX/60014-01~03	USEPA8270SIM	Hexachlorobenzene	LCS	92.2%	60	140
Chlorinated solvents						
PX/60014-01~03	USEPA8260	Methylene chloride	LCS	105.2%	75	125
PX/60014-01~03	USEPA8260	Tetrachloroethene	LCS	100.3%	75	125
PX/60014-01~03	USEPA8260	Trichloroethene	LCS	99.0%	75	125
PX/60014-01~03	USEPA8260	1,1,2-Trichloroethane	LCS	101.3%	75	125
PX/60014-01~03	USEPA8260	Carbon tetrachloride	LCS	95.0%	75	125
PX/60014-01~03	USEPA8260	Chloroform	LCS	101.6%	75	125
PX/60014-01~03	USEPA8260	1,2-Dichloroethane	LCS	100.3%	75	125
Chlorophenols						
PX/60014-01~03	USEPA8270SIM	2-Chlorophenol	LCS	80.0%	60	140
PX/60014-01~03	USEPA8270SIM	2,4-Dichlorophenol	LCS	63.2%	60	140
PX/60014-01~03	USEPA8270SIM	2,5-Dichlorophenol	LCS	82.2%	60	140
PX/60014-01~03	USEPA8270SIM	2,3-Dichlorophenol	LCS	82.0%	60	140
PX/60014-01~03	USEPA8270SIM	3-Chlorophenol	LCS	92.8%	60	140
PX/60014-01~03	USEPA8270SIM	4-Chlorophenol	LCS	86.0%	60	140
PX/60014-01~03	USEPA8270SIM	2,6-Dichlorophenol	LCS	79.8%	60	140
PX/60014-01~03	USEPA8270SIM	2,3,5-Trichlorophenol	LCS	82.2%	60	140
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TWB 0349599

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60014-01~03	USEPA8270SIM	2,4,6-Trichlorophenol	LCS	81.6%	60	140
PX/60014-01~03	USEPA8270SIM	2,4,5-Trichlorophenol	LCS	86.0%	60	140
PX/60014-01~03	USEPA8270SIM	2,3,4-Trichlorophenol	LCS	88.0%	60	140
PX/60014-01~03	USEPA8270SIM	3,5-Dichlorophenol	LCS	94.6%	60	140
PX/60014-01~03	USEPA8270SIM	3,4-Dichlorophenol	LCS	92.8%	60	140
PX/60014-01~03	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	LCS	61.0%	60	140
PX/60014-01~03	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	LCS	92.0%	60	140
PX/60014-01~03	USEPA8270SIM	2,3,4,6-Trichlorophenol	LCS	77.8%	60	140
PX/60014-01~03	USEPA8270SIM	3,4,5-Trichlorophenol	LCS	88.8%	60	140
PX/60014-01~03	USEPA8270SIM	Pentachlorophenol	LCS	80.4%	60	140
Organotin Compounds						
PX/60014-01~03	ISO 17353 (GC/MS)	Monobutyltin	LCS	81.7%	-	-
PX/60014-01~03	ISO 17353 (GC/MS)	Dibutyltin	LCS	36.3%	-	-
PX/60014-01~03	ISO 17353 (GC/MS)	Tributyltin	LCS	25.3%	-	-
PX/60014-01~03	ISO 17353 (GC/MS)	Diocetyl tin	LCS	26.7%	-	-
PX/60014-01~03	ISO 17353 (GC/MS)	Triphenyltin	LCS	70.7%	-	-
PX/60014-01~03	ISO 17353 (GC/MS)	Tricyclohexyltin	LCS	50.0%	-	-
PX/60014-01~03	ISO 17353 (GC/MS)	Triocetyl tin	LCS	47.7%	-	-
PX/60014-01~03	ISO 17353 (GC/MS)	Tripropyltin	LCS	68.7%	-	-
REMARK						

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TWB 0349600

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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
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60014-01~03	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	LCS	98.7%	30	120
APEO						
PX/60014-01~03	Dichloromethane extraction /(GC/MS)	Nonylphenol	LCS	57.1%	-	-
PX/60014-01~03	Dichloromethane extraction /(GC/MS)	Octylphenol	LCS	34.3%	-	-
PX/60014-01~03	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	LCS	49.7%	-	-
PX/60014-01~03	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/60014-01~03	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	LCS	77.3%	-	-
PX/60014-01~03	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60014-01~03	SolidPhaseExtraction/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	LCS	57.5%	-	-
PX/60014-01~03	SolidPhaseExtraction/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	LCS	80.0%	-	-
PFCs						
PX/60014-01~03	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	LCS	50.0%	30	120
PX/60014-01~03	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	LCS	99.0%	30	120
General Chemistry						
PX/60014-03	NIEA W510	BOD(5-DAY)	LCS	100.7%	85	115
PX/60014-03	NIEA W517	COD	LCS	93.7%	85	115
PX/60014-03	NIEA W208	Total Hardness	LCS	103.7%	85	115
PX/60014-03	NIEA W521	Total phenolics	LCS	101.9%	85	115
PX/60014-03	NIEA W433	sulfide	LCS	105.9%	80	120
REMARK						

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TWB 0349601

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60014-03	NIEA W223	True Color	LCS	98.4%	80	120
PX/60014-03	NIEA W208	Total Hardness	MS	97.7%	80	120
Heavy Metals						
PX/60014-01~03	NIEA W313	Arsenic, As	LCS	109.6%	80	120
PX/60014-01~03	NIEA W313	Cadmium, Cd	LCS	105.1%	80	120
PX/60014-01~03	NIEA W313	Cobalt, Co	LCS	108.7%	80	120
PX/60014-01~03	NIEA W313	Chromium, Cr (total)	LCS	108.5%	80	120
PX/60014-01~03	NIEA W320	Chromium, hexavalent, Cr(VI)	LCS	95.2%	80	120
PX/60014-01~03	NIEA W313	Copper, Cu	LCS	108.5%	80	120
PX/60014-01~03	NIEA W313	Mercury, Hg	LCS	101.5%	80	120
PX/60014-01~03	NIEA W313	Manganese, Mn	LCS	105.4%	80	120
PX/60014-01~03	NIEA W313	Nickel, Ni	LCS	104.5%	80	120
PX/60014-01~03	NIEA W313	Lead, Pb	LCS	100.8%	80	120
PX/60014-01~03	NIEA W313	Antimony, Sb	LCS	91.7%	80	120
PX/60014-01~03	NIEA W313	Zinc, Zn	LCS	109.4%	80	120
PX/60014-03	NIEA W441	Cyanide, CN ⁻	LCS	101.9%	85	115
PX/60014-01~03	NIEA W313	Arsenic, As	MS	82.2%	80	120
PX/60014-01~03	NIEA W313	Cadmium, Cd	MS	102.1%	80	120
PX/60014-01~03	NIEA W313	Cobalt, Co	MS	92.5%	80	120
PX/60014-01~03	NIEA W313	Chromium, Cr (total)	MS	103.8%	80	120
REMARK						

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WB 0349602

Laboratory of Environmental Analysis

QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60014-01~03	NIEA W313	Copper, Cu	MS	97.5%	80	120
PX/60014-01~03	NIEA W313	Mercury, Hg	MS	96.9%	80	120
PX/60014-01~03	NIEA W313	Manganese, Mn	MS	98.5%	80	120
PX/60014-01~03	NIEA W313	Nickel, Ni	MS	94.1%	80	120
PX/60014-01~03	NIEA W313	Lead, Pb	MS	107.3%	80	120
PX/60014-01~03	NIEA W313	Antimony, Sb	MS	102.1%	80	120
PX/60014-01~03	NIEA W313	Zinc, Zn	MS	109.6%	80	120
PX/60014-03	NIEA W441	Cyanide, CN ⁻	MS	102.7%	85	115
PX/60014-01~03	NIEA W313	Cadmium, Cd	MSD	97.9%	80	120
PX/60014-01~03	NIEA W313	Cobalt, Co	MSD	96.7%	80	120
PX/60014-01~03	NIEA W313	Mercury, Hg	MSD	95.8%	80	120
PX/60014-03	NIEA W441	Cyanide, CN ⁻	MSD	100.3%	85	115
REMARK						

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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
Ortho-phthalates						
PX/60014-04	USEPA8270SIM	bis(2-ethylhexyl) phthalate	LCS	93.0%	60	140
PX/60014-04	USEPA8270SIM	butyl benzyl phthalate	LCS	84.1%	60	140
PX/60014-04	USEPA8270SIM	di-n-butyl phthalate	LCS	84.1%	60	140
PX/60014-04	USEPA8270SIM	diethyl phthalate	LCS	75.9%	60	140
PX/60014-04	USEPA8270SIM	dimethyl phthalate	LCS	74.5%	60	140
PX/60014-04	USEPA8270SIM	di-n-octyl phthalate	LCS	88.3%	60	140
PX/60014-04	USEPA8270SIM	di-isononyl phthalate	LCS	87.4%	60	140
PX/60014-04	USEPA8270SIM	di-iso-decyl phthalate	LCS	95.8%	60	140
PX/60014-04	USEPA8270SIM	di-isobutyl phthalate	LCS	81.1%	60	140
PX/60014-04	USEPA8270SIM	di-n-hexyl phthalate	LCS	84.6%	60	140
PX/60014-04	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	LCS	80.8%	60	140
PX/60014-04	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	LCS	81.2%	60	140
PX/60014-04	USEPA8270SIM	Dinonyl Phthalate (DNP)	LCS	88.8%	60	140
PX/60014-04	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	LCS	83.1%	60	140
PX/60014-04	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	LCS	82.1%	60	140
Brominated Flame retardants						
PX/60014-04	USEPA 527 (GC/MS)	3-PBDE	LCS	69.9%	-	-
PX/60014-04	USEPA 527 (GC/MS)	4-PBDE	LCS	73.7%	-	-
PX/60014-04	USEPA 527 (GC/MS)	5-PBDE	LCS	73.8%	-	-
REMARK						

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TWB 0349604

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60014-04	USEPA 527 (GC/MS)	6-PBDE	LCS	77.1%	-	-
PX/60014-04	USEPA 527 (GC/MS)	7-PBDE	LCS	81.4%	-	-
PX/60014-04	USEPA 527 (GC/MS)	10-PBDE	LCS	68.5%	-	-
PX/60014-04	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	LCS	75.5%	-	-
PX/60014-04	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	LCS	67.2%	-	-
PX/60014-04	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	LCS	88.8%	-	-
PX/60014-04	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	LCS	86.1%	-	-
PX/60014-04	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	LCS	50.5%	-	-
Chlorinated Flame Retardants						
PX/60014-04	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	LCS	71.8%	-	-
PX/60014-04	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	LCS	83.2%	-	-
Azo dyes						
PX/60014-04	USEPA8270	4-AMINOBIIPHENYL	LCS	90.0%	-	-
PX/60014-04	USEPA8270	4-CHLORO-O-TOLUIDINE	LCS	20.0%	-	-
PX/60014-04	USEPA8270	2-NAPHTHYLAMINE	LCS	70.0%	-	-
PX/60014-04	USEPA8270	4-CHLOROANILINE	LCS	50.0%	-	-
PX/60014-04	USEPA8270	3,3'-DICHLOROBENZIDINE	LCS	90.0%	-	-
PX/60014-04	USEPA8270	3,3'-DIMETHYLBENZIDINE	LCS	90.0%	-	-
PX/60014-04	USEPA8270	P-CRESIDINE	LCS	70.0%	-	-
PX/60014-04	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	LCS	80.0%	-	-
REMARK						

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TWB 0349605

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60014-04	USEPA8270	O-TOLUIDINE	LCS	60.0%	-	-
PX/60014-04	USEPA8270	O-ANISIDINE	LCS	60.0%	-	-
Chlorobenzenes						
PX/60014-04	USEPA8260	Chlorobenzene	LCS	85.5%	70	130
PX/60014-04	USEPA8260	1,2-Dichlorobenzene	LCS	85.1%	70	130
PX/60014-04	USEPA8260	1,3-Dichlorobenzene	LCS	84.6%	70	130
PX/60014-04	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	LCS	66.2%	60	140
PX/60014-04	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	LCS	63.6%	60	140
PX/60014-04	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	LCS	63.4%	60	140
PX/60014-04	USEPA8270SIM	Pentachlorobenzene	LCS	70.0%	60	140
PX/60014-04	USEPA8270SIM	Hexachlorobenzene	LCS	74.8%	60	140
Chlorinated solvents						
PX/60014-04	USEPA8260	Tetrachloroethene	LCS	75.9%	75	125
PX/60014-04	USEPA8260	Trichloroethene	LCS	95.0%	75	125
PX/60014-04	USEPA8260	Chloroform	LCS	92.4%	75	125
PX/60014-04	USEPA8260	1,2-Dichloroethane	LCS	112.0%	75	125
Chlorophenols						
PX/60014-04	USEPA8270SIM	2-Chlorophenol	LCS	62.4%	60	140
PX/60014-04	USEPA8270SIM	2,4-Dichlorophenol	LCS	95.8%	60	140
PX/60014-04	USEPA8270SIM	2,5-Dichlorophenol	LCS	70.8%	60	140
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TWB 0349606

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60014-04	USEPA8270SIM	2,3-Dichlorophenol	LCS	65.4%	60	140
PX/60014-04	USEPA8270SIM	3-Chlorophenol	LCS	85.4%	60	140
PX/60014-04	USEPA8270SIM	4-Chlorophenol	LCS	71.0%	60	140
PX/60014-04	USEPA8270SIM	2,6-Dichlorophenol	LCS	65.2%	60	140
PX/60014-04	USEPA8270SIM	2,3,5-Trichlorophenol	LCS	75.4%	60	140
PX/60014-04	USEPA8270SIM	2,4,6-Trichlorophenol	LCS	70.0%	60	140
PX/60014-04	USEPA8270SIM	2,4,5-Trichlorophenol	LCS	77.4%	60	140
PX/60014-04	USEPA8270SIM	2,3,4-Trichlorophenol	LCS	77.6%	60	140
PX/60014-04	USEPA8270SIM	3,5-Dichlorophenol	LCS	75.4%	60	140
PX/60014-04	USEPA8270SIM	3,4-Dichlorophenol	LCS	74.0%	60	140
PX/60014-04	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	LCS	64.6%	60	140
PX/60014-04	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	LCS	81.8%	60	140
PX/60014-04	USEPA8270SIM	2,3,4,6-Trichlorophenol	LCS	68.8%	60	140
PX/60014-04	USEPA8270SIM	3,4,5-Trichlorophenol	LCS	75.8%	60	140
PX/60014-04	USEPA8270SIM	Pentachlorophenol	LCS	96.6%	60	140
Organotin Compounds						
PX/60014-04	ISO 17353 (GC/MS)	Monobutyltin	LCS	45.0%	-	-
PX/60014-04	ISO 17353 (GC/MS)	Dibutyltin	LCS	27.7%	-	-
PX/60014-04	ISO 17353 (GC/MS)	Tributyltin	LCS	14.7%	-	-
PX/60014-04	ISO 17353 (GC/MS)	Diocetyl tin	LCS	7.3%	-	-
REMARK						

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TWB 0349607

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/60014-04	ISO 17353 (GC/MS)	Triphenyltin	LCS	81.7%	-	-
PX/60014-04	ISO 17353 (GC/MS)	Tricyclohexyltin	LCS	32.3%	-	-
PX/60014-04	ISO 17353 (GC/MS)	Trioctyltin	LCS	28.7%	-	-
PX/60014-04	ISO 17353 (GC/MS)	Tripropyltin	LCS	67.3%	-	-
Short Chain Chlorinated(SCCP) with C10-C13						
PX/60014-04	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	LCS	112.3%	-	-
APEO						
PX/60014-04	Dichloromethane extraction /(GC/MS)	Nonylphenol	LCS	58.1%	-	-
PX/60014-04	Dichloromethane extraction /(GC/MS)	Octylphenol	LCS	42.5%	-	-
PX/60014-04	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	LCS	58.6%	-	-
PX/60014-04	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/60014-04	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	LCS	97.7%	-	-
PX/60014-04	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/60014-04	SolidPhaseExtraction/(LC/MS)	Nonylphenoethoxylates, n=4 to n=15	LCS	33.8%	-	-
PX/60014-04	SolidPhaseExtraction/(LC/MS)	Octylphenoethoxylates, n=4 to n= 15	LCS	49.4%	-	-
PFCs						
PX/60014-04	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	LCS	77.0%	-	-
PX/60014-04	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	LCS	82.0%	-	-
Heavy Metals						
PX/60014-04	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/60014-04	NIEA R355	Cadmium, Cd	LCS	99.1%	85	115
PX/60014-04	NIEA R355	Cobalt, Co	LCS	103.2%	85	115
PX/60014-04	NIEA R355	Chromium, Cr (total)	LCS	99.3%	85	115
PX/60014-04	NIEA T303	Chromium, hexavalent, Cr(VI)	LCS	100.2%	-	-
PX/60014-04	NIEA R355	Copper, Cu	LCS	98.8%	85	115
PX/60014-04	NIEA M317	Mercury, Hg	LCS	102.1%	80	120
PX/60014-04	NIEA R355	Manganese, Mn	LCS	97.7%	85	115
PX/60014-04	NIEA R355	Nickel, Ni	LCS	99.3%	85	115
PX/60014-04	NIEA R355	Lead, Pb	LCS	100.3%	85	115
PX/60014-04	NIEA R355	Antimony, Sb	LCS	103.8%	85	115
PX/60014-04	NIEA R355	Zinc, Zn	LCS	101.0%	85	115
PX/60014-04	NIEA S310	Arsenic, As	MS	102.4%	75	125
PX/60014-04	NIEA M317	Mercury, Hg	MS	101.8%	75	125
PX/60014-04	NIEA M317	Mercury, Hg	MSD	103.9%	75	125

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TWB 0349609