

TEST REPORT

Company Name : 5209
Project Name : Jack Wolfskin Wastewater & Sludge Testing Programme
Sample Type : Water & Sludge
Sample Number : PX4005401~04
Sampling : SGS Taiwan Ltd.
Sampling Place : *

Sampling Time : 2014/04/14 PM 05:00
Until : 2014/04/14 PM 06:45
Received Time : 2014/04/14 PM 07:10
Report Date : 2014/05/12
Report Number : PX/2014/40054
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.



Carry Kuo, M.S./Manager

SIGNED FOR AND ON BEHALF OF

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TWB 0349468



Laboratory of Environmental Analysis
TEST REPORT

Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/40054-01	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	butyl benzyl phthalate	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	di-n-butyl phthalate	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	diethyl phthalate	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	dimethyl phthalate	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	di-n-octyl phthalate	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	di-isononyl phthalate	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	di-iso-decyl phthalate	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	di-isobutyl phthalate	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	di-n-hexyl phthalate	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	Dinonyl Phthalate (DNP)	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<10.0	ug/L	-	10.0
PX/40054-01	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<10.0	ug/L	-	10.0
Brominated Flame retardants						
PX/40054-01	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<0.5	ug/L	-	0.5
PX/40054-01	USEPA 527 (GC/MS)	4-PBDE	<0.05	ug/L	-	0.05
PX/40054-01	USEPA 527 (GC/MS)	5-PBDE	<0.05	ug/L	-	0.05
PX/40054-01	USEPA 527 (GC/MS)	6-PBDE	<0.05	ug/L	-	0.05
PX/40054-01	USEPA 527 (GC/MS)	7-PBDE	<0.05	ug/L	-	0.05
PX/40054-01	USEPA 527 (GC/MS)	8-PBDE	<0.05	ug/L	-	0.05
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TWB 0349469



Laboratory of Environmental Analysis
TEST REPORT

Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-01	USEPA 527 (GC/MS)	9-PBDE	<0.05	ug/L	-	0.05
PX/40054-01	USEPA 527 (GC/MS)	10-PBDE	<0.05	ug/L	-	0.05
PX/40054-01	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<0.5	ug/L	-	0.5
PX/40054-01	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<0.5	ug/L	-	0.5
PX/40054-01	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<20.0	ug/L	-	20.0
PX/40054-01	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<0.5	ug/L	-	0.5
PX/40054-01	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<20.0	ug/L	-	20.0
Chlorinated Flame Retardants						
PX/40054-01	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<0.5	ug/L	-	0.5
PX/40054-01	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<0.5	ug/L	-	0.5
Azo dyes						
PX/40054-01	USEPA8270	4-AMINOBIIPHENYL	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	BENZIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	4-CHLORO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	2-NAPHTHYLAMINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	O-AMINOAZOTOLUENE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	5-NITRO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	4-CHLOROANILINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	3,3'-DICHLOOROBENZIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	3,3'-DIMETHYLBENZIDINE	<1.00	ug/L	-	1.00
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Laboratory of Environmental Analysis
TEST REPORT

Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-01	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	P-CRESIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	4,4'-OXYDIANILINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	4,4'-THIODIANILINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	2,4,5-TRIMETHYLANILINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	O-ANISIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	4-AMINOAZOBENZENE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	2,4-XYLIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	2,6-XYLIDINE	<1.00	ug/L	-	1.00
PX/40054-01	USEPA8270	ANILINE	<1.00	ug/L	-	1.00
Chlorobenzenes						
PX/40054-01	USEPA8260	Chlorobenzene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	1,2-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	1,3-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	1,4-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	1,2,4-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	1,2,3-Trichlorobenzene,	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	1,3,5-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
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TWB 0349471



Laboratory of Environmental Analysis
TEST REPORT

Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-01	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	Pentachlorobenzene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	Hexachlorobenzene	<5.00	ug/L	-	5.00
Chlorinated solvents						
PX/40054-01	USEPA8260	Methylene chloride	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	Tetrachloroethene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	Trichloroethene	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	1,1,2-Trichloroethane	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	Carbon tetrachloride	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	Chloroform	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	1,2-Dichloroethane	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8260	1,1-Dichloroethane	<5.00	ug/L	-	5.00
Chlorophenols						
PX/40054-01	USEPA8270SIM	2-Chlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	2,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	2,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	2,3-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	3-Chlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	4-Chlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	2,6-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	2,3,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	2,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	2,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
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TWB 0349472



Laboratory of Environmental Analysis
TEST REPORT

Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-01	USEPA8270SIM	2,3,4-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	3,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	3,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	2,3,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	3,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-01	USEPA8270SIM	Pentachlorophenol	<5.00	ug/L	-	5.00
Organotin Compounds						
PX/40054-01	ISO 17353 (GC/MS)	Monobutyltin	<0.1	ug/L	-	0.1
PX/40054-01	ISO 17353 (GC/MS)	Dibutyltin	<0.1	ug/L	-	0.1
PX/40054-01	ISO 17353 (GC/MS)	Tributyltin	<0.1	ug/L	-	0.1
PX/40054-01	ISO 17353 (GC/MS)	Diocetyltn	<0.1	ug/L	-	0.1
PX/40054-01	ISO 17353 (GC/MS)	Triphenyltin	<0.1	ug/L	-	0.1
PX/40054-01	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.1	ug/L	-	0.1
PX/40054-01	ISO 17353 (GC/MS)	Triocetyltn	<0.1	ug/L	-	0.1
PX/40054-01	ISO 17353 (GC/MS)	Tripropyltin	<0.1	ug/L	-	0.1
Short Chain Chlorinated(SCCP) with C10-C13						
PX/40054-01	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<10.0	ug/L	-	10.0
APEO						
PX/40054-01	Dichloromethane extraction /(GC/MS)	Nonylphenol	<5.00	ug/L	-	5.00
PX/40054-01	Dichloromethane extraction /(GC/MS)	Octylphenol	<5.00	ug/L	-	5.00
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TWB 0349473



Laboratory of Environmental Analysis
TEST REPORT

Sample : Incoming water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-01	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<5.00	ug/L	-	5.00
PX/40054-01	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/40054-01	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<5.00	ug/L	-	5.00
PX/40054-01	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/40054-01	SolidPhaseExtraction/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<1.00	ug/L	-	1.00
PX/40054-01	SolidPhaseExtraction/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<1.00	ug/L	-	1.00
PFCs						
PX/40054-01	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<1.00	ug/L	-	1.00
PX/40054-01	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	<1.00	ug/L	-	1.00
Heavy Metals						
PX/40054-01	NIEA W313	Arsenic, As	0.00131	mg/L	-	0.00010
PX/40054-01	NIEA W313	Cadmium, Cd	<0.00010	mg/L	-	0.00010
PX/40054-01	NIEA W313	Cobalt, Co	0.00028	mg/L	-	0.00010
PX/40054-01	NIEA W313	Chromium, Cr (total)	0.00183	mg/L	-	0.00010
PX/40054-01	NIEA W320	Chromium, hexavalent, Cr(VI)	ND<0.01	mg/L	0.01	-
PX/40054-01	NIEA W313	Copper, Cu	0.00202	mg/L	-	0.00010
PX/40054-01	NIEA W313	Mercury, Hg	<0.00005	mg/L	-	0.00005
PX/40054-01	NIEA W313	Manganese, Mn	0.630	mg/L	-	0.00010
PX/40054-01	NIEA W313	Nickel, Ni	0.00090	mg/L	-	0.00010
PX/40054-01	NIEA W313	Lead, Pb	0.00038	mg/L	-	0.00010
PX/40054-01	NIEA W313	Antimony, Sb	0.00005	mg/L	-	0.00005
PX/40054-01	NIEA W313	Zinc, Zn	0.0157	mg/L	-	0.00010
PX/40054-01	NIEA W410	Cyanide, CN ⁻	ND<0.004	mg/L	0.004	-
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TWB 0349474

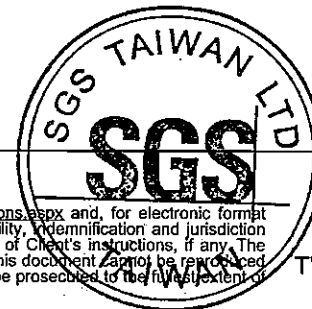


Laboratory of Environmental Analysis
TEST REPORT

Sample : Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/40054-02	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	butyl benzyl phthalate	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	di-n-butyl phthalate	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	diethyl phthalate	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	dimethyl phthalate	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	di-n-octyl phthalate	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	di-isononyl phthalate	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	di-iso-decyl phthalate	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	di-isobutyl phthalate	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	di-n-hexyl phthalate	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	Dinonyl Phthalate (DNP)	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<10.0	ug/L	-	10.0
PX/40054-02	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<10.0	ug/L	-	10.0
Brominated Flame retardants						
PX/40054-02	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<0.5	ug/L	-	0.5
PX/40054-02	USEPA 527 (GC/MS)	4-PBDE	<0.05	ug/L	-	0.05
PX/40054-02	USEPA 527 (GC/MS)	5-PBDE	<0.05	ug/L	-	0.05
PX/40054-02	USEPA 527 (GC/MS)	6-PBDE	<0.05	ug/L	-	0.05
PX/40054-02	USEPA 527 (GC/MS)	7-PBDE	<0.05	ug/L	-	0.05
PX/40054-02	USEPA 527 (GC/MS)	8-PBDE	<0.05	ug/L	-	0.05
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TWB 0349475



Laboratory of Environmental Analysis
TEST REPORT

Sample : Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-02	USEPA 527 (GC/MS)	9-PBDE	<0.05	ug/L	-	0.05
PX/40054-02	USEPA 527 (GC/MS)	10-PBDE	<0.05	ug/L	-	0.05
PX/40054-02	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<0.5	ug/L	-	0.5
PX/40054-02	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<0.5	ug/L	-	0.5
PX/40054-02	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<20.0	ug/L	-	20.0
PX/40054-02	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<0.5	ug/L	-	0.5
PX/40054-02	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<20.0	ug/L	-	20.0
Chlorinated Flame Retardants						
PX/40054-02	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<0.5	ug/L	-	0.5
PX/40054-02	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<0.5	ug/L	-	0.5
Azo dyes						
PX/40054-02	USEPA8270	4-AMINOBIIPHENYL	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	BENZIDINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	4-CHLORO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	2-NAPHTHYLAMINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	O-AMINOAZOTOLUENE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	5-NITRO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	4-CHLOROANILINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	3,3'-DICHLOROBENZIDINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<1.00	ug/L	-	1.00
PX/40054-02	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/40054-02	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	P-CRESIDINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	4,4'-OXYDIANILINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	4,4'-THIODIANILINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	2,4,5-TRIMETHYLANILINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	O-ANISIDINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	4-AMINOAZOBENZENE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	2,4-XYLIDINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	2,6-XYLIDINE	<1.00	ug/L	-	1.00
PX/40054-02	USEPA8270	ANILINE	<1.00	ug/L	-	1.00
Chlorobenzenes						
PX/40054-02	USEPA8260	Chlorobenzene	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	1,2-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	1,3-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	1,4-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	1,2,4-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	1,2,3-Trichlorobenzene,	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	1,3,5-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/40054-02	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/40054-02	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	Pentachlorobenzene	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	Hexachlorobenzene	<5.00	ug/L	-	5.00
Chlorinated solvents						
PX/40054-02	USEPA8260	Methylene chloride	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	Tetrachloroethene	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	Trichloroethene	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	1,1,2-Trichloroethane	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	Carbon tetrachloride	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	Chloroform	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	1,2-Dichloroethane	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8260	1,1-Dichloroethane	<5.00	ug/L	-	5.00
Chlorophenols						
PX/40054-02	USEPA8270SIM	2-Chlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	2,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	2,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	2,3-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	3-Chlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	4-Chlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	2,6-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	2,3,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	2,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	2,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
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TWB 0349478



Laboratory of Environmental Analysis
TEST REPORT

Sample : Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-02	USEPA8270SIM	2,3,4-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	3,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	3,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	2,3,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	3,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-02	USEPA8270SIM	Pentachlorophenol	<5.00	ug/L	-	5.00
Organotin Compounds						
PX/40054-02	ISO 17353 (GC/MS)	Monobutyltin	<0.1	ug/L	-	0.1
PX/40054-02	ISO 17353 (GC/MS)	Dibutyltin	<0.1	ug/L	-	0.1
PX/40054-02	ISO 17353 (GC/MS)	Tributyltin	<0.1	ug/L	-	0.1
PX/40054-02	ISO 17353 (GC/MS)	Diocetyltn	<0.1	ug/L	-	0.1
PX/40054-02	ISO 17353 (GC/MS)	Triphenyltin	<0.1	ug/L	-	0.1
PX/40054-02	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.1	ug/L	-	0.1
PX/40054-02	ISO 17353 (GC/MS)	Triocetyltn	<0.1	ug/L	-	0.1
PX/40054-02	ISO 17353 (GC/MS)	Tripropyltin	<0.1	ug/L	-	0.1
Short Chain Chlorinated(SCCP) with C10-C13						
PX/40054-02	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<10.0	ug/L	-	10.0
APEO						
PX/40054-02	Dichloromethane extraction /(GC/MS)	Nonylphenol	<5.00	ug/L	-	5.00
PX/40054-02	Dichloromethane extraction /(GC/MS)	Octylphenol	<5.00	ug/L	-	5.00
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TWB 0349479



Laboratory of Environmental Analysis
TEST REPORT

Sample : Untreated water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-02	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<5.00	ug/L	-	5.00
PX/40054-02	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/40054-02	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<5.00	ug/L	-	5.00
PX/40054-02	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/40054-02	SolidPhaseExtraction/(LC/MS)	Nonylphenoethoxylates, n=4 to n=15	<1.00	ug/L	-	1.00
PX/40054-02	SolidPhaseExtraction/(LC/MS)	Octylphenoethoxylates, n=4 to n= 15	<1.00	ug/L	-	1.00
PFCs						
PX/40054-02	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<1.00	ug/L	-	1.00
PX/40054-02	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	<1.00	ug/L	-	1.00
Heavy Metals						
PX/40054-02	NIEA W313	Arsenic, As	0.00168	mg/L	-	0.00010
PX/40054-02	NIEA W313	Cadmium, Cd	<0.00010	mg/L	-	0.00010
PX/40054-02	NIEA W313	Cobalt, Co	0.00110	mg/L	-	0.00010
PX/40054-02	NIEA W313	Chromium, Cr (total)	0.00241	mg/L	-	0.00010
PX/40054-02	NIEA W320	Chromium, hexavalent, Cr(VI)	ND<0.01	mg/L	0.01	-
PX/40054-02	NIEA W313	Copper, Cu	0.00287	mg/L	-	0.00010
PX/40054-02	NIEA W313	Mercury, Hg	0.00005	mg/L	-	0.00005
PX/40054-02	NIEA W313	Manganese, Mn	0.106	mg/L	-	0.00010
PX/40054-02	NIEA W313	Nickel, Ni	0.00127	mg/L	-	0.00010
PX/40054-02	NIEA W313	Lead, Pb	0.00083	mg/L	-	0.00010
PX/40054-02	NIEA W313	Antimony, Sb	0.303	mg/L	-	0.00005
PX/40054-02	NIEA W313	Zinc, Zn	0.284	mg/L	-	0.00010
PX/40054-02	NIEA W410	Cyanide, CN ⁻	ND<0.004	mg/L	0.004	-
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TWB 0349480



Laboratory of Environmental Analysis
TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/40054-03	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	butyl benzyl phthalate	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	di-n-butyl phthalate	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	diethyl phthalate	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	dimethyl phthalate	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	di-n-octyl phthalate	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	di-isononyl phthalate	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	di-iso-decyl phthalate	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	di-isobutyl phthalate	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	di-n-hexyl phthalate	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	Dinonyl Phthalate (DNP)	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<10.0	ug/L	-	10.0
PX/40054-03	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<10.0	ug/L	-	10.0
Brominated Flame retardants						
PX/40054-03	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<0.5	ug/L	-	0.5
PX/40054-03	USEPA 527 (GC/MS)	4-PBDE	<0.05	ug/L	-	0.05
PX/40054-03	USEPA 527 (GC/MS)	5-PBDE	<0.05	ug/L	-	0.05
PX/40054-03	USEPA 527 (GC/MS)	6-PBDE	<0.05	ug/L	-	0.05
PX/40054-03	USEPA 527 (GC/MS)	7-PBDE	<0.05	ug/L	-	0.05
PX/40054-03	USEPA 527 (GC/MS)	8-PBDE	<0.05	ug/L	-	0.05
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TWB 0349481



Laboratory of Environmental Analysis
TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-03	USEPA 527 (GC/MS)	9-PBDE	<0.05	ug/L	-	0.05
PX/40054-03	USEPA 527 (GC/MS)	10-PBDE	<0.05	ug/L	-	0.05
PX/40054-03	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<0.5	ug/L	-	0.5
PX/40054-03	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<0.5	ug/L	-	0.5
PX/40054-03	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<20.0	ug/L	-	20.0
PX/40054-03	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<0.5	ug/L	-	0.5
PX/40054-03	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<20.0	ug/L	-	20.0
Chlorinated Flame Retardants						
PX/40054-03	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<0.5	ug/L	-	0.5
PX/40054-03	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<0.5	ug/L	-	0.5
Azo dyes						
PX/40054-03	USEPA8270	4-AMINOBIIPHENYL	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	BENZIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	4-CHLORO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	2-NAPHTHYLAMINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	O-AMINOAZOTOLUENE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	5-NITRO-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	4-CHLOROANILINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	3,3'-DICHLOROBENZIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	3,3'-DIMETHYLBENZIDINE	<1.00	ug/L	-	1.00
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TWB 0349482



Laboratory of Environmental Analysis
TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-03	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	P-CRESIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	4,4'-OXYDIANILINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	4,4'-THIODIANILINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	O-TOLUIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	2,4,5-TRIMETHYLANILINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	O-ANISIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	4-AMINOAZOBENZENE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	2,4-XYLIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	2,6-XYLIDINE	<1.00	ug/L	-	1.00
PX/40054-03	USEPA8270	ANILINE	<1.00	ug/L	-	1.00
Chlorobenzenes						
PX/40054-03	USEPA8260	Chlorobenzene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	1,2-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	1,3-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	1,4-Dichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	1,2,4-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	1,2,3-Trichlorobenzene,	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	1,3,5-Trichlorobenzene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
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TWB 0349483



Laboratory of Environmental Analysis
TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-03	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	Pentachlorobenzene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	Hexachlorobenzene	<5.00	ug/L	-	5.00
Chlorinated solvents						
PX/40054-03	USEPA8260	Methylene chloride	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	Tetrachloroethene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	Trichloroethene	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	1,1,2-Trichloroethane	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	Carbon tetrachloride	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	Chloroform	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	1,2-Dichloroethane	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8260	1,1-Dichloroethane	<5.00	ug/L	-	5.00
Chlorophenols						
PX/40054-03	USEPA8270SIM	2-Chlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	2,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	2,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	2,3-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	3-Chlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	4-Chlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	2,6-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	2,3,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	2,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	2,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
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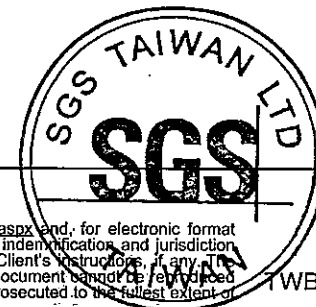
Laboratory of Environmental Analysis
TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-03	USEPA8270SIM	2,3,4-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	3,5-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	3,4-Dichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	2,3,4,6-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	3,4,5-Trichlorophenol	<5.00	ug/L	-	5.00
PX/40054-03	USEPA8270SIM	Pentachlorophenol	<5.00	ug/L	-	5.00
Organotin Compounds						
PX/40054-03	ISO 17353 (GC/MS)	Monobutyltin	<0.1	ug/L	-	0.1
PX/40054-03	ISO 17353 (GC/MS)	Dibutyltin	<0.1	ug/L	-	0.1
PX/40054-03	ISO 17353 (GC/MS)	Tributyltin	<0.1	ug/L	-	0.1
PX/40054-03	ISO 17353 (GC/MS)	Diocetyltn	<0.1	ug/L	-	0.1
PX/40054-03	ISO 17353 (GC/MS)	Triphenyltin	<0.1	ug/L	-	0.1
PX/40054-03	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.1	ug/L	-	0.1
PX/40054-03	ISO 17353 (GC/MS)	Triocetyltn	<0.1	ug/L	-	0.1
PX/40054-03	ISO 17353 (GC/MS)	Tripropyltin	<0.1	ug/L	-	0.1
Short Chain Chlorinated(SCCP) with C10-C13						
PX/40054-03	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<10.0	ug/L	-	10.0
APEO						
PX/40054-03	Dichloromethane extraction /(GC/MS)	Nonylphenol	6.68	ug/L	-	5.00
PX/40054-03	Dichloromethane extraction /(GC/MS)	Octylphenol	<5.00	ug/L	-	5.00
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TWB 0349485



Laboratory of Environmental Analysis
TEST REPORT

Sample : Treated waste water

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-03	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<5.00	ug/L	-	5.00
PX/40054-03	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/40054-03	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<5.00	ug/L	-	5.00
PX/40054-03	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/40054-03	SolidPhaseExtraction/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<1.00	ug/L	-	1.00
PX/40054-03	SolidPhaseExtraction/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<1.00	ug/L	-	1.00
PFCs						
PX/40054-03	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<1.00	ug/L	-	1.00
PX/40054-03	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	<1.00	ug/L	-	1.00
General Chemistry						
PX/40054-03	NIEA W424	pH	7.3(25.0°C)	-	-	-
PX/40054-03	NIEA W510	BOD(5-DAY)	9.5	mg/L	1.0	-
PX/40054-03	NIEA W515	COD	34.2	mg/L	2.0	-
PX/40054-03	NIEA W208	Total Hardness	144	mg/L	1.7	-
PX/40054-03	NIEA W521	Total phenolics	ND<0.0009	mg/L	0.0009	-
PX/40054-03	NIEA W433	sulfide	<0.04(0.02)	mg/L	0.01	-
PX/40054-03	NIEA W210	TSS	5.3	mg/L	1.0	-
PX/40054-03	NIEA W210	TDS	297	mg/L	5.0	-
PX/40054-03	NIEA W223	True Color	<25	mg/L	25	-
Heavy Metals						
PX/40054-03	NIEA W313	Arsenic, As	0.00130	mg/L	-	0.00010
PX/40054-03	NIEA W313	Cadmium, Cd	<0.00010	mg/L	-	0.00010
PX/40054-03	NIEA W313	Cobalt, Co	0.00010	mg/L	-	0.00010
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TWB 0349486



Laboratory of Environmental Analysis
TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
Ortho-phthalates						
PX/40054-04	USEPA8270SIM	bis(2-ethylhexyl) phthalate	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	butyl benzyl phthalate	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	di-n-butyl phthalate	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	diethyl phthalate	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	dimethyl phthalate	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	di-n-octyl phthalate	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	di-isononyl phthalate	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	di-iso-decyl phthalate	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	di-isobutyl phthalate	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	di-n-hexyl phthalate	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	Dinonyl Phthalate (DNP)	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	<1.00	mg/kg	-	1.00
Brominated Flame retardants						
PX/40054-04	USEPA 527 (GC/MS)	Polybromobiphenyls(PBBs)	<2.50	mg/kg	-	2.50
PX/40054-04	USEPA 527 (GC/MS)	4-PBDE	<0.25	mg/kg	-	0.25
PX/40054-04	USEPA 527 (GC/MS)	5-PBDE	<0.25	mg/kg	-	0.25
PX/40054-04	USEPA 527 (GC/MS)	6-PBDE	<0.25	mg/kg	-	0.25
PX/40054-04	USEPA 527 (GC/MS)	7-PBDE	<0.25	mg/kg	-	0.25
PX/40054-04	USEPA 527 (GC/MS)	8-PBDE	<0.25	mg/kg	-	0.25
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TWB 0349488



Laboratory of Environmental Analysis
TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-04	USEPA 527 (GC/MS)	9-PBDE	<0.25	mg/kg	-	0.25
PX/40054-04	USEPA 527 (GC/MS)	10-PBDE	<0.25	mg/kg	-	0.25
PX/40054-04	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	<2.50	mg/kg	-	2.50
PX/40054-04	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	<2.50	mg/kg	-	2.50
PX/40054-04	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	<75.0	mg/kg	-	75.0
PX/40054-04	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	<2.50	mg/kg	-	2.50
PX/40054-04	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	<75.0	mg/kg	-	75.0
Chlorinated Flame Retardants						
PX/40054-04	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	<2.50	mg/kg	-	2.50
PX/40054-04	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	<2.50	mg/kg	-	2.50
Azo dyes						
PX/40054-04	USEPA8270	4-AMINOBIIPHENYL	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	BENZIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	4-CHLORO-O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	2-NAPHTHYLAMINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	O-AMINOAZOTOLUENE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	5-NITRO-O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	4-CHLOROANILINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	4-METHOXY-M-PHENYLENEDIAMINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	3,3'-DICHLOBENZIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	3,3'-DIMETHOXYBENZIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	3,3'-DIMETHYLBENZIDINE	<0.50	mg/kg	-	0.50
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TWB 0349489



Laboratory of Environmental Analysis
TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-04	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	P-CRESIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	4,4'-OXYDIANILINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	4,4'-THIODIANILINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	O-TOLUIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	2,4,5-TRIMETHYLANILINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	O-ANISIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	4-AMINOAZOBENZENE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	2,4-XYLIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	2,6-XYLIDINE	<0.50	mg/kg	-	0.50
PX/40054-04	USEPA8270	ANILINE	<0.50	mg/kg	-	0.50
Chlorobenzenes						
PX/40054-04	USEPA8260	Chlorobenzene	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	1,2-Dichlorobenzene	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	1,3-Dichlorobenzene	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	1,4-Dichlorobenzene	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	1,2,4-Trichlorobenzene	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	1,2,3-Trichlorobenzene,	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	1,3,5-Trichlorobenzene	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	<1.00	mg/kg	-	1.00
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TWB 0349490



Laboratory of Environmental Analysis
TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-04	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	Pentachlorobenzene	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	Hexachlorobenzene	<1.00	mg/kg	-	1.00
Chlorinated solvents						
PX/40054-04	USEPA8260	Methylene chloride	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	Tetrachloroethene	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	Trichloroethene	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	1,1,2-Trichloroethane	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	Carbon tetrachloride	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	Chloroform	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	1,2-Dichloroethane	<0.40	mg/kg	-	0.40
PX/40054-04	USEPA8260	1,1-Dichloroethane	<0.40	mg/kg	-	0.40
Chlorophenols						
PX/40054-04	USEPA8270SIM	2-Chlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	2,4-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	2,5-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	2,3-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	3-Chlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	4-Chlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	2,6-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	2,3,5-Trichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	2,4,6-Trichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	2,4,5-Trichlorophenol	<1.00	mg/kg	-	1.00
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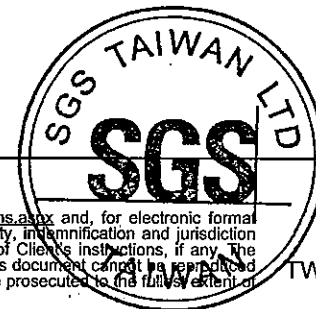
Laboratory of Environmental Analysis
TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-04	USEPA8270SIM	2,3,4-Trichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	3,5-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	3,4-Dichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	2,3,4,6-Trichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	3,4,5-Trichlorophenol	<1.00	mg/kg	-	1.00
PX/40054-04	USEPA8270SIM	Pentachlorophenol	<1.00	mg/kg	-	1.00
Organotin Compounds						
PX/40054-04	ISO 17353 (GC/MS)	Monobutyltin	<0.002	mg/kg	-	0.002
PX/40054-04	ISO 17353 (GC/MS)	Dibutyltin	<0.002	mg/kg	-	0.002
PX/40054-04	ISO 17353 (GC/MS)	Tributyltin	<0.002	mg/kg	-	0.002
PX/40054-04	ISO 17353 (GC/MS)	Diocetyl tin	<0.002	mg/kg	-	0.002
PX/40054-04	ISO 17353 (GC/MS)	Triphenyltin	<0.002	mg/kg	-	0.002
PX/40054-04	ISO 17353 (GC/MS)	Tricyclohexyltin	<0.002	mg/kg	-	0.002
PX/40054-04	ISO 17353 (GC/MS)	Triocetyl tin	<0.002	mg/kg	-	0.002
PX/40054-04	ISO 17353 (GC/MS)	Tripropyltin	<0.002	mg/kg	-	0.002
Short Chain Chlorinated(SCCP) with C10-C13						
PX/40054-04	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	<4.00	mg/kg	-	4.00
APEO						
PX/40054-04	Dichloromethane extraction /(GC/MS)	Nonylphenol	<25.0	mg/kg	-	25.0
PX/40054-04	Dichloromethane extraction /(GC/MS)	Octylphenol	<25.0	mg/kg	-	25.0
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TWB 0349492



Laboratory of Environmental Analysis
TEST REPORT

Sample : Sludge

Lab Sample ID	Analysis Method	Analyte	Result	Units	MDL	RL
PX/40054-04	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	<25.0	mg/kg	-	25.0
PX/40054-04	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/40054-04	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	<25.0	mg/kg	-	25.0
PX/40054-04	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/40054-04	SolidPhaseExtraction/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	<0.02	mg/kg	-	0.02
PX/40054-04	SolidPhaseExtraction/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	<0.02	mg/kg	-	0.02
PFCs						
PX/40054-04	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	<0.01	mg/kg	-	0.01
PX/40054-04	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	<0.01	mg/kg	-	0.01
Heavy Metals						
PX/40054-04	NIEA S310	Arsenic, As	5.77	mg/kg	0.102	-
PX/40054-04	NIEA R355	Cadmium, Cd	<10.0	mg/kg	-	10.0
PX/40054-04	JIS K0102-67.2	Cyanide, CN ⁻	<0.29	mg/kg	-	0.29
PX/40054-04	NIEA R355	Cobalt, Co	<10.0	mg/kg	-	10.0
PX/40054-04	NIEA R355	Chromium, Cr (total)	<10.0	mg/kg	-	10.0
PX/40054-04	NIEA T303	Chromium, hexavalent, Cr(VI)	<0.50	mg/kg	-	0.50
PX/40054-04	NIEA R355	Copper, Cu	63.9	mg/kg	-	10.0
PX/40054-04	NIEA M317	Mercury, Hg	<0.100(0.053)	mg/kg	0.037	-
PX/40054-04	NIEA R355	Manganese, Mn	553	mg/kg	-	10.0
PX/40054-04	NIEA R355	Nickel, Ni	<10.0	mg/kg	-	10.0
PX/40054-04	NIEA R355	Lead, Pb	25.3	mg/kg	-	10.0
PX/40054-04	NIEA S410	pH	7.8(25.0°C)	-	-	-
PX/40054-04	NIEA R355	Zinc, Zn	474	mg/kg	-	10.0
PX/40054-04	NIEA S280	Moisture	14.0	%	-	-
PX/40054-04	NIEA R355	Antimony, Sb	243	mg/kg	-	10.0
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Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
Ortho-phthalates						
PX/40054-01~03	USEPA8270SIM	bis(2-ethylhexyl) phthalate	LCS	96.6%	60	140
PX/40054-01~03	USEPA8270SIM	butyl benzyl phthalate	LCS	99.7%	60	140
PX/40054-01~03	USEPA8270SIM	di-n-butyl phthalate	LCS	98.5%	60	140
PX/40054-01~03	USEPA8270SIM	diethyl phthalate	LCS	97.5%	60	140
PX/40054-01~03	USEPA8270SIM	dimethyl phthalate	LCS	94.8%	60	140
PX/40054-01~03	USEPA8270SIM	di-n-octyl phthalate	LCS	100.4%	60	140
PX/40054-01~03	USEPA8270SIM	di-isononyl phthalate	LCS	93.9%	60	140
PX/40054-01~03	USEPA8270SIM	di-iso-decyl phthalate	LCS	103.0%	60	140
PX/40054-01~03	USEPA8270SIM	di-isobutyl phthalate	LCS	99.3%	60	140
PX/40054-01~03	USEPA8270SIM	di-n-hexyl phthalate	LCS	97.2%	60	140
PX/40054-01~03	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	LCS	98.1%	60	140
PX/40054-01~03	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	LCS	87.4%	60	140
PX/40054-01~03	USEPA8270SIM	Dinonyl Phthalate (DNP)	LCS	103.0%	60	140
PX/40054-01~03	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	LCS	104.7%	60	140
PX/40054-01~03	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	LCS	102.8%	60	140
Brominated Flame retardants						
PX/40054-01~03	USEPA 527 (GC/MS)	3-PBDE	LCS	66.0%	-	-
PX/40054-01~03	USEPA 527 (GC/MS)	4-PBDE	LCS	66.6%	-	-
PX/40054-01~03	USEPA 527 (GC/MS)	5-PBDE	LCS	65.2%	-	-
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Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-01~03	USEPA 527 (GC/MS)	6-PBDE	LCS	69.5%	-	-
PX/40054-01~03	USEPA 527 (GC/MS)	7-PBDE	LCS	74.2%	-	-
PX/40054-01~03	USEPA 527 (GC/MS)	10-PBDE	LCS	95.8%	-	-
PX/40054-01~03	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	LCS	108.2%	-	-
PX/40054-01~03	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	LCS	116.3%	-	-
PX/40054-01~03	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	LCS	123.0%	-	-
PX/40054-01~03	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	LCS	111.2%	-	-
PX/40054-01~03	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	LCS	101.5%	-	-
Chlorinated Flame Retardants						
PX/40054-01~03	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	LCS	110.7%	-	-
PX/40054-01~03	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	LCS	108.1%	-	-
Azo dyes						
PX/40054-01~03	USEPA8270	4-AMINOBIIPHENYL	LCS	45.0%	-	-
PX/40054-01~03	USEPA8270	BENZIDINE	LCS	24.0%	-	-
PX/40054-01~03	USEPA8270	4-CHLORO-O-TOLUIDINE	LCS	43.0%	-	-
PX/40054-01~03	USEPA8270	2-NAPHTHYLAMINE	LCS	44.0%	-	-
PX/40054-01~03	USEPA8270	4-CHLOROANILINE	LCS	42.0%	-	-
PX/40054-01~03	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	LCS	20.0%	-	-
PX/40054-01~03	USEPA8270	3,3'-DICHLOOROBENZIDINE	LCS	54.0%	-	-
PX/40054-01~03	USEPA8270	3,3'-DIMETHOXYBENZIDINE	LCS	15.0%	-	-
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Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-01~03	USEPA8270	3,3'-DIMETHYLBENZIDINE	LCS	30.0%	-	-
PX/40054-01~03	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	LCS	25.0%	-	-
PX/40054-01~03	USEPA8270	P-CRESIDINE	LCS	41.0%	-	-
PX/40054-01~03	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	LCS	47.0%	-	-
PX/40054-01~03	USEPA8270	4,4'-OXYDIANILINE	LCS	19.0%	-	-
PX/40054-01~03	USEPA8270	4,4'-THIODIANILINE	LCS	16.0%	-	-
PX/40054-01~03	USEPA8270	O-TOLUIDINE	LCS	48.0%	-	-
PX/40054-01~03	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	LCS	9.0%	-	-
PX/40054-01~03	USEPA8270	2,4,5-TRIMETHYLANILINE	LCS	38.0%	-	-
PX/40054-01~03	USEPA8270	O-ANISIDINE	LCS	45.0%	-	-
PX/40054-01~03	USEPA8270	4-AMINOAZOBENZENE	LCS	49.0%	-	-
PX/40054-01~03	USEPA8270	2,4-XYLIDINE	LCS	44.0%	-	-
PX/40054-01~03	USEPA8270	2,6-XYLIDINE	LCS	44.0%	-	-
Chlorobenzenes						
PX/40054-01~03	USEPA8260	Chlorobenzene	LCS	90.8%	75	125
PX/40054-01~03	USEPA8260	1,2-Dichlorobenzene	LCS	90.0%	75	125
PX/40054-01~03	USEPA8260	1,3-Dichlorobenzene	LCS	90.8%	75	125
PX/40054-01~03	USEPA8260	1,4-Dichlorobenzene	LCS	90.0%	75	125
PX/40054-01~03	USEPA8260	1,2,4-Trichlorobenzene	LCS	90.8%	75	125
PX/40054-01~03	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	LCS	94.2%	60	140
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Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-01~03	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	LCS	94.2%	60	140
PX/40054-01~03	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	LCS	95.4%	60	140
PX/40054-01~03	USEPA8270SIM	Pentachlorobenzene	LCS	89.0%	60	140
PX/40054-01~03	USEPA8270SIM	Hexachlorobenzene	LCS	87.8%	60	140
Chlorinated solvents						
PX/40054-01~03	USEPA8260	Methylene chloride	LCS	90.0%	75	125
PX/40054-01~03	USEPA8260	Tetrachloroethene	LCS	93.3%	75	125
PX/40054-01~03	USEPA8260	Trichloroethene	LCS	94.2%	75	125
PX/40054-01~03	USEPA8260	1,1,2-Trichloroethane	LCS	92.5%	75	125
PX/40054-01~03	USEPA8260	Carbon tetrachloride	LCS	95.0%	75	125
PX/40054-01~03	USEPA8260	Chloroform	LCS	89.2%	75	125
PX/40054-01~03	USEPA8260	1,2-Dichloroethane	LCS	90.0%	75	125
Chlorophenols						
PX/40054-01~03	USEPA8270SIM	2-Chlorophenol	LCS	68.0%	60	140
PX/40054-01~03	USEPA8270SIM	2,4-Dichlorophenol	LCS	97.2%	60	140
PX/40054-01~03	USEPA8270SIM	2,5-Dichlorophenol	LCS	80.2%	60	140
PX/40054-01~03	USEPA8270SIM	2,3-Dichlorophenol	LCS	73.2%	60	140
PX/40054-01~03	USEPA8270SIM	3-Chlorophenol	LCS	84.4%	60	140
PX/40054-01~03	USEPA8270SIM	4-Chlorophenol	LCS	70.6%	60	140
PX/40054-01~03	USEPA8270SIM	2,6-Dichlorophenol	LCS	72.2%	60	140
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Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-01~03	USEPA8270SIM	2,3,5-Trichlorophenol	LCS	78.6%	60	140
PX/40054-01~03	USEPA8270SIM	2,4,6-Trichlorophenol	LCS	83.8%	60	140
PX/40054-01~03	USEPA8270SIM	2,4,5-Trichlorophenol	LCS	82.0%	60	140
PX/40054-01~03	USEPA8270SIM	2,3,4-Trichlorophenol	LCS	81.8%	60	140
PX/40054-01~03	USEPA8270SIM	3,5-Dichlorophenol	LCS	86.0%	60	140
PX/40054-01~03	USEPA8270SIM	3,4-Dichlorophenol	LCS	87.2%	60	140
PX/40054-01~03	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	LCS	75.6%	60	140
PX/40054-01~03	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	LCS	75.8%	60	140
PX/40054-01~03	USEPA8270SIM	2,3,4,6-Trichlorophenol	LCS	84.0%	60	140
PX/40054-01~03	USEPA8270SIM	3,4,5-Trichlorophenol	LCS	83.0%	60	140
PX/40054-01~03	USEPA8270SIM	Pentachlorophenol	LCS	85.6%	60	140
Organotin Compounds						
PX/40054-01~03	ISO 17353 (GC/MS)	Monobutyltin	LCS	119.3%	-	-
PX/40054-01~03	ISO 17353 (GC/MS)	Dibutyltin	LCS	22.3%	-	-
PX/40054-01~03	ISO 17353 (GC/MS)	Tributyltin	LCS	15.0%	-	-
PX/40054-01~03	ISO 17353 (GC/MS)	Diocetyltn	LCS	41.0%	-	-
PX/40054-01~03	ISO 17353 (GC/MS)	Triphenyltin	LCS	37.3%	-	-
PX/40054-01~03	ISO 17353 (GC/MS)	Tricyclohexyltin	LCS	49.3%	-	-
PX/40054-01~03	ISO 17353 (GC/MS)	Triocetyltn	LCS	25.0%	-	-
PX/40054-01~03	ISO 17353 (GC/MS)	Tripropyltin	LCS	19.3%	-	-
REMARK						

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TWB 0349498

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
Short Chain Chlorinated(SCCP) with C10-C13						
PX/40054-01~03	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	LCS	119.3%	30	120
APEO						
PX/40054-01~03	Dichloromethane extraction /(GC/MS)	Nonylphenol	LCS	41.0%	-	-
PX/40054-01~03	Dichloromethane extraction /(GC/MS)	Octylphenol	LCS	36.0%	-	-
PX/40054-01~03	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	LCS	32.1%	-	-
PX/40054-01~03	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates NP2EO				
PX/40054-01~03	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	LCS	78.7%	-	-
PX/40054-01~03	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/40054-01~03	SolidPhaseExtraction/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	LCS	56.5%	-	-
PX/40054-01~03	SolidPhaseExtraction/(LC/MS)	Octylphenolethoxylates, n=4 to n= 15	LCS	83.5%	-	-
PFCs						
PX/40054-01~03	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	LCS	50.0%	30	120
PX/40054-01~03	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	LCS	99.0%	30	120
General Chemistry						
PX/40054-03	NIEA W510	BOD(5-DAY)	LCS	104.0%	85	115
PX/40054-03	NIEA W515	COD	LCS	92.8%	85	115
PX/40054-03	NIEA W208	Total Hardness	LCS	99.4%	85	115
PX/40054-03	NIEA W521	Total phenolics	LCS	96.5%	85	115
PX/40054-03	NIEA W433	sulfide	LCS	91.2%	80	120
REMARK						

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TWB 0349499

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-03	NIEA W223	True Color	LCS	97.9%	80	120
PX/40054-03	NIEA W208	Total Hardness	MS	96.2%	80	120
PX/40054-03	NIEA W521	Total phenolics	MS	103.7%	80	120
PX/40054-03	NIEA W433	sulfide	MS	100.6%	75	125
PX/40054-03	NIEA W521	Total phenolics	MSD	100.4%	80	120
PX/40054-03	NIEA W433	sulfide	MSD	100.0%	75	125
Heavy Metals						
PX/40054-01~03	NIEA W313	Arsenic, As	LCS	100.7%	80	120
PX/40054-01~03	NIEA W313	Cadmium, Cd	LCS	98.8%	80	120
PX/40054-01~03	NIEA W313	Cobalt, Co	LCS	95.0%	80	120
PX/40054-01~03	NIEA W313	Chromium, Cr (total)	LCS	100.6%	80	120
PX/40054-01~03	NIEA W320	Chromium, hexavalent, Cr(VI)	LCS	99.0%	80	120
PX/40054-01~03	NIEA W313	Copper, Cu	LCS	101.8%	80	120
PX/40054-01~03	NIEA W313	Mercury, Hg	LCS	98.8%	80	120
PX/40054-01~03	NIEA W313	Manganese, Mn	LCS	103.5%	80	120
PX/40054-01~03	NIEA W313	Nickel, Ni	LCS	97.5%	80	120
PX/40054-01~03	NIEA W313	Lead, Pb	LCS	94.6%	80	120
PX/40054-01~03	NIEA W313	Antimony, Sb	LCS	103.3%	80	120
PX/40054-01~03	NIEA W313	Zinc, Zn	LCS	90.9%	80	120
PX/40054-01~03	NIEA W410	Cyanide, CN	LCS	97.8%	80	120
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TWB 0349500

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-01~03	NIEA W313	Arsenic, As	MS	106.7%	80	120
PX/40054-01~03	NIEA W313	Cadmium, Cd	MS	90.9%	80	120
PX/40054-01~03	NIEA W313	Cobalt, Co	MS	97.6%	80	120
PX/40054-01~03	NIEA W313	Chromium, Cr (total)	MS	102.0%	80	120
PX/40054-01~03	NIEA W320	Chromium, hexavalent, Cr(VI)	MS	96.4%	75	125
PX/40054-01~03	NIEA W313	Copper, Cu	MS	86.8%	80	120
PX/40054-01~03	NIEA W313	Mercury, Hg	MS	91.5%	80	120
PX/40054-01~03	NIEA W313	Manganese, Mn	MS	93.6%	80	120
PX/40054-01~03	NIEA W313	Nickel, Ni	MS	109.1%	80	120
PX/40054-01~03	NIEA W313	Lead, Pb	MS	94.9%	80	120
PX/40054-01~03	NIEA W313	Antimony, Sb	MS	102.6%	80	120
PX/40054-01~03	NIEA W313	Zinc, Zn	MS	92.0%	80	120
PX/40054-01~03	NIEA W410	Cyanide, CN ⁻	MS	111.3%	75	125
PX/40054-01~03	NIEA W313	Cadmium, Cd	MSD	89.7%	80	120
PX/40054-01~03	NIEA W320	Chromium, hexavalent, Cr(VI)	MSD	96.4%	75	125
PX/40054-01~03	NIEA W313	Mercury, Hg	MSD	90.3%	80	120
REMARK						

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TWB 0349501

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
Ortho-phthalates						
PX/40054-04	USEPA8270SIM	bis(2-ethylhexyl) phthalate	LCS	88.5%	60	140
PX/40054-04	USEPA8270SIM	butyl benzyl phthalate	LCS	84.4%	60	140
PX/40054-04	USEPA8270SIM	di-n-butyl phthalate	LCS	84.3%	60	140
PX/40054-04	USEPA8270SIM	diethyl phthalate	LCS	77.3%	60	140
PX/40054-04	USEPA8270SIM	dimethyl phthalate	LCS	69.2%	60	140
PX/40054-04	USEPA8270SIM	di-n-octyl phthalate	LCS	86.8%	60	140
PX/40054-04	USEPA8270SIM	di-isononyl phthalate	LCS	91.2%	60	140
PX/40054-04	USEPA8270SIM	di-iso-decyl phthalate	LCS	93.2%	60	140
PX/40054-04	USEPA8270SIM	di-isobutyl phthalate	LCS	82.0%	60	140
PX/40054-04	USEPA8270SIM	di-n-hexyl phthalate	LCS	83.4%	60	140
PX/40054-04	USEPA8270SIM	Di-n-Propyl Phthalate (DPRP)	LCS	85.5%	60	140
PX/40054-04	USEPA8270SIM	Di-cyclohexyl Phthalate (DCHP)	LCS	88.2%	60	140
PX/40054-04	USEPA8270SIM	Dinonyl Phthalate (DNP)	LCS	92.9%	60	140
PX/40054-04	USEPA8270SIM	Di-iso-octyl Phthalate (DIOP)	LCS	96.3%	60	140
PX/40054-04	USEPA8270SIM	Dimethoxyethyl Phthalate (DMEP)	LCS	86.5%	60	140
Brominated Flame retardants						
PX/40054-04	USEPA 527 (GC/MS)	3-PBDE	LCS	55.1%	-	-
PX/40054-04	USEPA 527 (GC/MS)	4-PBDE	LCS	57.6%	-	-
PX/40054-04	USEPA 527 (GC/MS)	5-PBDE	LCS	61.7%	-	-
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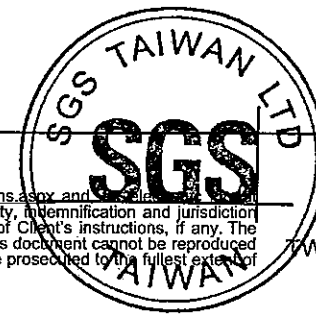


Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-04	USEPA 527 (GC/MS)	6-PBDE	LCS	67.0%	-	-
PX/40054-04	USEPA 527 (GC/MS)	7-PBDE	LCS	78.6%	-	-
PX/40054-04	USEPA 527 (GC/MS)	10-PBDE	LCS	111.2%	-	-
PX/40054-04	USEPA 527 (GC/MS)	Tris(2,3-dibromopropyl) phosphate (TRIS)	LCS	103.4%	-	-
PX/40054-04	USEPA 527 (GC/MS)	Tetrabromobisphenol A (TBBPA)	LCS	109.3%	-	-
PX/40054-04	USEPA 527 (GC/MS)	Bis(2,3-dibromopropyl) phosphate	LCS	111.8%	-	-
PX/40054-04	USEPA 527 (GC/MS)	Hexabromocyclododecane (HBCDD)	LCS	107.6%	-	-
PX/40054-04	USEPA 527 (GC/MS)	2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	LCS	62.2%	-	-
Chlorinated Flame Retardants						
PX/40054-04	USEPA 527 (GC/MS)	Tris(2-chloroethyl) phosphate (TCEP)	LCS	107.1%	-	-
PX/40054-04	USEPA 527 (GC/MS)	Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	LCS	114.4%	-	-
Azo dyes						
PX/40054-04	USEPA8270	4-AMINOBIIPHENYL	LCS	49.0%	-	-
PX/40054-04	USEPA8270	BENZIDINE	LCS	32.0%	-	-
PX/40054-04	USEPA8270	4-CHLORO-O-TOLUIDINE	LCS	35.0%	-	-
PX/40054-04	USEPA8270	2-NAPHTHYLAMINE	LCS	45.0%	-	-
PX/40054-04	USEPA8270	4-CHLOROANILINE	LCS	37.0%	-	-
PX/40054-04	USEPA8270	4,4'-DIAMINODIPHENYLMETHANE	LCS	29.0%	-	-
PX/40054-04	USEPA8270	3,3'-DICHLOROBENZIDINE	LCS	62.0%	-	-
PX/40054-04	USEPA8270	3,3'-DIMETHOXYBENZIDINE	LCS	41.0%	-	-
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Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-04	USEPA8270	3,3'-DIMETHYLBENZIDINE	LCS	36.0%	-	-
PX/40054-04	USEPA8270	4,4'-METHYLENEDI-O-TOLUIDINE	LCS	32.0%	-	-
PX/40054-04	USEPA8270	P-CRESIDINE	LCS	53.0%	-	-
PX/40054-04	USEPA8270	4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	LCS	59.0%	-	-
PX/40054-04	USEPA8270	4,4'-OXYDIANILINE	LCS	27.0%	-	-
PX/40054-04	USEPA8270	4,4'-THIODIANILINE	LCS	28.0%	-	-
PX/40054-04	USEPA8270	O-TOLUIDINE	LCS	46.0%	-	-
PX/40054-04	USEPA8270	4-METHYL-M-PHENYLENEDIAMINE	LCS	9.0%	-	-
PX/40054-04	USEPA8270	2,4,5-TRIMETHYLANILINE	LCS	23.0%	-	-
PX/40054-04	USEPA8270	O-ANISIDINE	LCS	55.0%	-	-
PX/40054-04	USEPA8270	4-AMINOAZOBENZENE	LCS	58.0%	-	-
PX/40054-04	USEPA8270	2,4-XYLIDINE	LCS	25.0%	-	-
PX/40054-04	USEPA8270	2,6-XYLIDINE	LCS	25.0%	-	-
Chlorobenzenes						
PX/40054-04	USEPA8260	Chlorobenzene	LCS	97.0%	70	130
PX/40054-04	USEPA8260	1,2-Dichlorobenzene	LCS	96.2%	70	130
PX/40054-04	USEPA8260	1,3-Dichlorobenzene	LCS	97.9%	70	130
PX/40054-04	USEPA8270SIM	1,2,3,4-Tetrachlorobenzene	LCS	65.0%	60	140
PX/40054-04	USEPA8270SIM	1,2,3,5-Tetrachlorobenzene	LCS	63.6%	60	140
PX/40054-04	USEPA8270SIM	1,2,4,5-Tetrachlorobenzene	LCS	63.6%	60	140
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TWB 0349504



Laboratory of Environmental Analysis
QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-04	USEPA8270SIM	Pentachlorobenzene	LCS	65.8%	60	140
PX/40054-04	USEPA8270SIM	Hexachlorobenzene	LCS	74.6%	60	140
Chlorinated solvents						
PX/40054-04	USEPA8260	Tetrachloroethene	LCS	98.5%	75	125
PX/40054-04	USEPA8260	Trichloroethene	LCS	95.3%	75	125
PX/40054-04	USEPA8260	Chloroform	LCS	99.8%	75	125
PX/40054-04	USEPA8260	1,2-Dichloroethane	LCS	104.0%	75	125
Chlorophenols						
PX/40054-04	USEPA8270SIM	2-Chlorophenol	LCS	100.0%	60	140
PX/40054-04	USEPA8270SIM	2,4-Dichlorophenol	LCS	85.8%	60	140
PX/40054-04	USEPA8270SIM	2,5-Dichlorophenol	LCS	76.0%	60	140
PX/40054-04	USEPA8270SIM	2,3-Dichlorophenol	LCS	94.2%	60	140
PX/40054-04	USEPA8270SIM	3-Chlorophenol	LCS	92.6%	60	140
PX/40054-04	USEPA8270SIM	4-Chlorophenol	LCS	100.4%	60	140
PX/40054-04	USEPA8270SIM	2,6-Dichlorophenol	LCS	98.6%	60	140
PX/40054-04	USEPA8270SIM	2,3,5-Trichlorophenol	LCS	91.2%	60	140
PX/40054-04	USEPA8270SIM	2,4,6-Trichlorophenol	LCS	98.0%	60	140
PX/40054-04	USEPA8270SIM	2,4,5-Trichlorophenol	LCS	101.2%	60	140
PX/40054-04	USEPA8270SIM	2,3,4-Trichlorophenol	LCS	92.8%	60	140
PX/40054-04	USEPA8270SIM	3,5-Dichlorophenol	LCS	95.6%	60	140
REMARK						

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TWB 0349505

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-04	USEPA8270SIM	3,4-Dichlorophenol	LCS	92.6%	60	140
PX/40054-04	USEPA8270SIM	2,3,5,6-Tetrachlorophenol	LCS	89.8%	60	140
PX/40054-04	USEPA8270SIM	2,3,4,5-Tetrachlorophenol	LCS	86.4%	60	140
PX/40054-04	USEPA8270SIM	2,3,4,6-Trichlorophenol	LCS	91.2%	60	140
PX/40054-04	USEPA8270SIM	3,4,5-Trichlorophenol	LCS	94.2%	60	140
PX/40054-04	USEPA8270SIM	Pentachlorophenol	LCS	105.4%	60	140
Organotin Compounds						
PX/40054-04	ISO 17353 (GC/MS)	Monobutyltin	LCS	51.7%	-	-
PX/40054-04	ISO 17353 (GC/MS)	Dibutyltin	LCS	37.3%	-	-
PX/40054-04	ISO 17353 (GC/MS)	Tributyltin	LCS	34.0%	-	-
PX/40054-04	ISO 17353 (GC/MS)	Diocetyl tin	LCS	39.0%	-	-
PX/40054-04	ISO 17353 (GC/MS)	Triphenyltin	LCS	106.0%	-	-
PX/40054-04	ISO 17353 (GC/MS)	Tricyclohexyltin	LCS	100.0%	-	-
PX/40054-04	ISO 17353 (GC/MS)	Triocetyl tin	LCS	46.3%	-	-
PX/40054-04	ISO 17353 (GC/MS)	Tripropyltin	LCS	27.3%	-	-
Short Chain Chlorinated(SCCP) with C10-C13						
PX/40054-04	USEPA 8082(GC/ECD)	(SCCP) with C10-C13	LCS	39.0%	-	-
APEO						
PX/40054-04	Dichloromethane extraction /(GC/MS)	Nonylphenol	LCS	45.2%	-	-
PX/40054-04	Dichloromethane extraction /(GC/MS)	Octylphenol	LCS	39.9%	-	-
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TWB 0349506

Laboratory of Environmental Analysis QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QA/QC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-04	Dichloromethane extraction /(GC/MS)	Nonylphenol monoethoxylates, NP1EO	LCS	41.2%	-	-
PX/40054-04	Dichloromethane extraction /(GC/MS)	Nonylphenol diethoxylates, NP2EO				
PX/40054-04	Dichloromethane extraction /(GC/MS)	Octylphenol monoethoxylates, OP1EO	LCS	81.1%	-	-
PX/40054-04	Dichloromethane extraction /(GC/MS)	Octylphenol diethoxylates, OP2EO				
PX/40054-04	SolidPhaseExtraction/(LC/MS)	Nonylphenolethoxylates, n=4 to n=15	LCS	52.0%	-	-
PX/40054-04	SolidPhaseExtraction/(LC/MS)	Octylphenolethoxylates, n=4 to n=15	LCS	68.0%	-	-
PFCs						
PX/40054-04	USEPA 3535A /(LC/MS)	perfluorooctanoic acid (PFOA)	LCS	59.0%	-	-
PX/40054-04	USEPA 3535A /(LC/MS)	perfluorooctane sulfonate (PFOS)	LCS	94.0%	-	-
Heavy Metals						
PX/40054-04	NIEA S310	Arsenic, As	LCS	101.9%	80	120
PX/40054-04	NIEA R355	Cadmium, Cd	LCS	100.5%	85	115
PX/40054-04	JIS K0102-67.2	Cyanide, CN	LCS	103.3%	-	-
PX/40054-04	NIEA R355	Cobalt, Co	LCS	97.6%	85	115
PX/40054-04	NIEA R355	Chromium, Cr (total)	LCS	101.1%	85	115
PX/40054-04	NIEA T303	Chromium, hexavalent, Cr(VI)	LCS	101.1%	-	-
PX/40054-04	NIEA R355	Copper, Cu	LCS	100.4%	85	115
PX/40054-04	NIEA M317	Mercury, Hg	LCS	92.7%	80	120
PX/40054-04	NIEA R355	Manganese, Mn	LCS	101.1%	85	115
PX/40054-04	NIEA R355	Nickel, Ni	LCS	100.6%	85	115
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TWB 0349507

Laboratory of Environmental Analysis

QA/QC REPORT

Lab Sample ID	Analysis Method	Analyte	QAQC Type	Recovery	Lower Control Limit	Upper Control Limit
PX/40054-04	NIEA R355	Lead, Pb	LCS	100.1%	85	115
PX/40054-04	NIEA R355	Zinc, Zn	LCS	101.2%	85	115
PX/40054-04	NIEA R355	Antimony, Sb	LCS	90.4%	85	115
PX/40054-04	NIEA S310	Arsenic, As	MS	92.1%	75	125
PX/40054-04	NIEA M317	Mercury, Hg	MS	96.8%	75	125
PX/40054-04	NIEA M317	Mercury, Hg	MSD	95.6%	75	125

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