


## Laboratory of Environmental Analysis TEST REPORT

Company Name : 5020 & 5021 & 5022  
Project Name : Jack Wolfskin Wastewater & Sludge Testing Programme  
Sample Type : Water  
Sample Number : PX6001201~02  
Sampling : SGS Taiwan Ltd.  
Sampling Place : \*

Sampling Time : 2014/06/04 AM 11:10  
Until : 2014/06/04 PM 12:20  
Received Time : 2014/06/04 PM 04:04  
Report Date : 2014/07/01  
Report Number : PX/2014/60012  
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.



  
Cathy Kuo, M.S./ Manager

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TWB 0349509



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Incoming water

| Lab Sample ID                      | Analysis Method   | Analyte                         | Result | Units | MDL | RL   |
|------------------------------------|-------------------|---------------------------------|--------|-------|-----|------|
| <b>Ortho-phthalates</b>            |                   |                                 |        |       |     |      |
| PX/60012-01                        | USEPA8270SIM      | bis(2-ethylhexyl) phthalate     | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | butyl benzyl phthalate          | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | di-n-butyl phthalate            | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | diethyl phthalate               | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | dimethyl phthalate              | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | di-n-octyl phthalate            | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | di-isononyl phthalate           | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | di-iso-decyl phthalate          | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | di-isobutyl phthalate           | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | di-n-hexyl phthalate            | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | Di-n-Propyl Phthalate (DPRP)    | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | Di-cyclohexyl Phthalate (DCHP)  | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | Dinonyl Phthalate (DNP)         | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | Di-iso-octyl Phthalate (DIOP)   | <10.0  | ug/L  | -   | 10.0 |
| PX/60012-01                        | USEPA8270SIM      | Dimethoxyethyl Phthalate (DMEP) | <10.0  | ug/L  | -   | 10.0 |
| <b>Brominated Flame retardants</b> |                   |                                 |        |       |     |      |
| PX/60012-01                        | USEPA 527 (GC/MS) | Polybromobiphenyls(PBBs)        | <0.5   | ug/L  | -   | 0.5  |
| PX/60012-01                        | USEPA 527 (GC/MS) | 4-PBDE                          | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-01                        | USEPA 527 (GC/MS) | 5-PBDE                          | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-01                        | USEPA 527 (GC/MS) | 6-PBDE                          | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-01                        | USEPA 527 (GC/MS) | 7-PBDE                          | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-01                        | USEPA 527 (GC/MS) | 8-PBDE                          | <0.05  | ug/L  | -   | 0.05 |
| REMARK                             |                   |                                 |        |       |     |      |



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TWB 0349510



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Incoming water

| Lab Sample ID                       | Analysis Method   | Analyte                                       | Result | Units | MDL | RL   |
|-------------------------------------|-------------------|---|--------|-------|-----|------|
| PX/60012-01                         | USEPA 527 (GC/MS) | 9-PBDE  | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-01                         | USEPA 527 (GC/MS) | 10-PBDE                                       | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-01                         | USEPA 527 (GC/MS) | Tris(2,3-dibromopropyl) phosphate (TRIS)      | <0.5   | ug/L  | -   | 0.5  |
| PX/60012-01                         | USEPA 527 (GC/MS) | Tetrabromobisphenol A (TBBPA)                 | <0.5   | ug/L  | -   | 0.5  |
| PX/60012-01                         | USEPA 527 (GC/MS) | Bis(2,3-dibromopropyl) phosphate              | <20.0  | ug/L  | -   | 20.0 |
| PX/60012-01                         | USEPA 527 (GC/MS) | Hexabromocyclododecane (HBCDD)                | <0.5   | ug/L  | -   | 0.5  |
| PX/60012-01                         | USEPA 527 (GC/MS) | 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)   | <20.0  | ug/L  | -   | 20.0 |
| <b>Chlorinated Flame Retardants</b> |                   |   |        |       |     |      |
| PX/60012-01                         | USEPA 527 (GC/MS) | Tris(2-chloroethyl) phosphate (TCEP)          | <0.5   | ug/L  | -   | 0.5  |
| PX/60012-01                         | USEPA 527 (GC/MS) | Tris(1,3-dichloro-isopropyl) phosphate (TDCP) | <0.5   | ug/L  | -   | 0.5  |
| <b>Azo dyes</b>                     |                   |   |        |       |     |      |
| PX/60012-01                         | USEPA8270         | 4-AMINOBIHENYL                                | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | BENZIDINE                                     | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | 4-CHLORO-O-TOLUIDINE                          | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | 2-NAPHTHYLAMINE                               | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | O-AMINOAZOTOLUENE                             | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | 5-NITRO-O-TOLUIDINE                           | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | 4-CHLOROANILINE                               | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | 4-METHOXY-M-PHENYLENEDIAMINE                  | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | 4,4'-DIAMINODIPHENYLMETHANE                   | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | 3,3'-DICHLOROBENZIDINE                        | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | 3,3'-DIMETHOXYBENZIDINE                       | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01                         | USEPA8270         | 3,3'-DIMETHYLBENZIDINE                        | <1.00  | ug/L  | -   | 1.00 |
| REMARK                              |                   |   |        |       |     |      |



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TWB 0349511



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Incoming water

| Lab Sample ID         | Analysis Method | Analyte                              | Result | Units | MDL | RL   |
|-----------------------|-----------------|--------------------------------------|--------|-------|-----|------|
| PX/60012-01           | USEPA8270       | 4,4'-METHYLENEDI-O-TOLUIDINE         | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | P-CRESIDINE                          | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | 4,4'-OXYDIANILINE                    | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | 4,4'-THIODIANILINE                   | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | O-TOLUIDINE                          | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | 4-METHYL-M-PHENYLENEDIAMINE          | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | 2,4,5-TRIMETHYLANILINE               | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | O-ANISIDINE                          | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | 4-AMINOAZOBENZENE                    | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | 2,4-XYLIDINE                         | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | 2,6-XYLIDINE                         | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-01           | USEPA8270       | ANILINE                              | <1.00  | ug/L  | -   | 1.00 |
| <b>Chlorobenzenes</b> |                 |                                      |        |       |     |      |
| PX/60012-01           | USEPA8260       | Chlorobenzene                        | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01           | USEPA8260       | 1,2-Dichlorobenzene                  | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01           | USEPA8260       | 1,3-Dichlorobenzene                  | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01           | USEPA8260       | 1,4-Dichlorobenzene                  | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01           | USEPA8260       | 1,2,4-Trichlorobenzene               | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01           | USEPA8260       | 1,2,3-Trichlorobenzene,              | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01           | USEPA8260       | 1,3,5-Trichlorobenzene               | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01           | USEPA8270SIM    | 1,2,3,4-Tetrachlorobenzene           | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01           | USEPA8270SIM    | 1,2,3,5-Tetrachlorobenzene           | <5.00  | ug/L  | -   | 5.00 |
| REMARK                |                 |                                      |        |       |     |      |



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TWB 0349512



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Incoming water

| Lab Sample ID        | Analysis Method | Analyte                    | Result | Units | MDL | RL   |
|----------------------|-----------------|----------------------------|--------|-------|-----|------|
| PX/60012-01          | USEPA8270SIM    | 1,2,4,5-Tetrachlorobenzene | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | Pentachlorobenzene         | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | Hexachlorobenzene          | <5.00  | ug/L  | -   | 5.00 |
| Chlorinated solvents |                 |                            |        |       |     |      |
| PX/60012-01          | USEPA8260       | Methylene chloride         | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8260       | Tetrachloroethene          | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8260       | Trichloroethene            | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8260       | 1,1,2-Trichloroethane      | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8260       | Carbon tetrachloride       | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8260       | Chloroform                 | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8260       | 1,2-Dichloroethane         | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8260       | 1,1-Dichloroethane         | <5.00  | ug/L  | -   | 5.00 |
| Chlorophenols        |                 |                            |        |       |     |      |
| PX/60012-01          | USEPA8270SIM    | 2-Chlorophenol             | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | 2,4-Dichlorophenol         | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | 2,5-Dichlorophenol         | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | 2,3-Dichlorophenol         | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | 3-Chlorophenol             | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | 4-Chlorophenol             | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | 2,6-Dichlorophenol         | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | 2,3,5-Trichlorophenol      | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | 2,4,6-Trichlorophenol      | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01          | USEPA8270SIM    | 2,4,5-Trichlorophenol      | <5.00  | ug/L  | -   | 5.00 |
| REMARK               |                 |                            |        |       |     |      |



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TWB 0349513



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Incoming water

| Lab Sample ID                                     | Analysis Method                     | Analyte                   | Result | Units | MDL | RL   |
|---|-------------------------------------|---------------------------|--------|-------|-----|------|
| PX/60012-01                                       | USEPA8270SIM                        | 2,3,4-Trichlorophenol     | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01                                       | USEPA8270SIM                        | 3,5-Dichlorophenol        | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01                                       | USEPA8270SIM                        | 3,4-Dichlorophenol        | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01                                       | USEPA8270SIM                        | 2,3,5,6-Tetrachlorophenol | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01                                       | USEPA8270SIM                        | 2,3,4,5-Tetrachlorophenol | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01                                       | USEPA8270SIM                        | 2,3,4,6-Trichlorophenol   | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01                                       | USEPA8270SIM                        | 3,4,5-Trichlorophenol     | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01                                       | USEPA8270SIM                        | Pentachlorophenol         | <5.00  | ug/L  | -   | 5.00 |
| <b>Organotin Compounds</b>                        |                                     |                           |        |       |     |      |
| PX/60012-01                                       | ISO 17353 (GC/MS)                   | Monobutyltin              | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-01                                       | ISO 17353 (GC/MS)                   | Dibutyltin                | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-01                                       | ISO 17353 (GC/MS)                   | Tributyltin               | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-01                                       | ISO 17353 (GC/MS)                   | Diocetyl tin              | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-01                                       | ISO 17353 (GC/MS)                   | Triphenyltin              | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-01                                       | ISO 17353 (GC/MS)                   | Tricyclohexyltin          | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-01                                       | ISO 17353 (GC/MS)                   | Triocetyl tin             | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-01                                       | ISO 17353 (GC/MS)                   | Tripropyltin              | <0.1   | ug/L  | -   | 0.1  |
| <b>Short Chain Chlorinated(SCCP) with C10-C13</b> |                                     |                           |        |       |     |      |
| PX/60012-01                                       | USEPA 8082(GC/ECD)                  | (SCCP) with C10-C13       | <10.0  | ug/L  | -   | 10.0 |
| <b>APEO</b>                                       |                                     |                           |        |       |     |      |
| PX/60012-01                                       | Dichloromethane extraction /(GC/MS) | Nonylphenol               | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-01                                       | Dichloromethane extraction /(GC/MS) | Octylphenol               | <5.00  | ug/L  | -   | 5.00 |
| <b>REMARK</b>                                     |                                     |                           |        |       |     |      |

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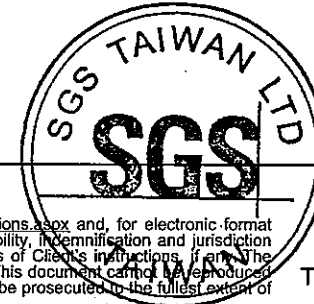
TWB 0349514



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Incoming water

| Lab Sample ID       | Analysis Method   | Analyte                             | Result            | Units | MDL     | RL   |
|---------------------|---|-------------------------------------|-------------------|-------|---------|------|
| PX/60012-01         | Dichloromethane extraction /(GC/MS)   | Nonylphenol monoethoxylates, NP1EO  | <5.00             | ug/L  | -       | 5.00 |
| PX/60012-01         | Dichloromethane extraction /(GC/MS)   | Nonylphenol diethoxylates NP2EO     |                   |       |         |      |
| PX/60012-01         | Dichloromethane extraction /(GC/MS)   | Octylphenol monoethoxylates, OP1EO  | <5.00             | ug/L  | -       | 5.00 |
| PX/60012-01         | Dichloromethane extraction /(GC/MS)   | Octylphenol diethoxylates, OP2EO    |                   |       |         |      |
| PX/60012-01         | SolidPhaseExtration/(LC/MS)   | Nonylphenoethoxylates, n=4 to n=15  | <1.00             | ug/L  | -       | 1.00 |
| PX/60012-01         | SolidPhaseExtration/(LC/MS)   | Octylphenoethoxylates, n=4 to n= 15 | <1.00             | ug/L  | -       | 1.00 |
| <b>PFCs</b>         |   |                                     |                   |       |         |      |
| PX/60012-01         | USEPA 3535A /(LC/MS)  | perfluorooctanoic acid (PFOA)       | <1.00             | ug/L  | -       | 1.00 |
| PX/60012-01         | USEPA 3535A /(LC/MS)  | perfluorooctane sulfonate (PFOS)    | <1.00             | ug/L  | -       | 1.00 |
| <b>Heavy Metals</b> |   |                                     |                   |       |         |      |
| PX/60012-01         | NIEA W313   | Arsenic, As                         | 0.00127           | mg/L  | 0.00002 | -    |
| PX/60012-01         | NIEA W313   | Cadmium, Cd                         | <0.00020          | mg/L  | 0.00002 | -    |
| PX/60012-01         | NIEA W313   | Cobalt, Co                          | ND<0.00004        | mg/L  | 0.00004 | -    |
| PX/60012-01         | NIEA W313   | Chromium, Cr (total)                | 0.00125           | mg/L  | 0.00005 | -    |
| PX/60012-01         | NIEA W320   | Chromium, hexavalent, Cr(VI)        | ND<0.01           | mg/L  | 0.01    | -    |
| PX/60012-01         | NIEA W313   | Copper, Cu                          | 0.00245           | mg/L  | 0.00006 | -    |
| PX/60012-01         | NIEA W313   | Mercury, Hg                         | <0.00005(0.00001) | mg/L  | 0.00002 | -    |
| PX/60012-01         | NIEA W313   | Manganese, Mn                       | 0.00084           | mg/L  | 0.00004 | -    |
| PX/60012-01         | NIEA W313   | Nickel, Ni                          | 0.00115           | mg/L  | 0.00005 | -    |
| PX/60012-01         | NIEA W313   | Lead, Pb                            | 0.00028           | mg/L  | 0.00002 | -    |
| PX/60012-01         | NIEA W313   | Antimony, Sb                        | 0.00016           | mg/L  | 0.00003 | -    |
| PX/60012-01         | NIEA W313   | Zinc, Zn                            | 0.00325           | mg/L  | 0.00002 | -    |
| ---                 |   |                                     |                   |       |         |      |
| REMARK              | 1. Sample interference by matrix, Cadmium and Lead is diluted by the factor of 2. |                                     |                   |       |         |      |



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TWB 0349515



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Untreated water

| Lab Sample ID               | Analysis Method   | Analyte                         | Result | Units | MDL | RL   |
|-----------------------------|-------------------|---------------------------------|--------|-------|-----|------|
| Ortho-phthalates            |                   |                                 |        |       |     |      |
| PX/60012-02                 | USEPA8270SIM      | bis(2-ethylhexyl) phthalate     | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | butyl benzyl phthalate          | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | di-n-butyl phthalate            | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | diethyl phthalate               | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | dimethyl phthalate              | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | di-n-octyl phthalate            | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | di-isononyl phthalate           | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | di-iso-decyl phthalate          | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | di-isobutyl phthalate           | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | di-n-hexyl phthalate            | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | Di-n-Propyl Phthalate (DPRP)    | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | Di-cyclohexyl Phthalate (DCHP)  | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | Dinonyl Phthalate (DNP)         | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | Di-iso-octyl Phthalate (DIOP)   | <200   | ug/L  | -   | 200  |
| PX/60012-02                 | USEPA8270SIM      | Dimethoxyethyl Phthalate (DMEP) | <200   | ug/L  | -   | 200  |
| Brominated Flame retardants |                   |                                 |        |       |     |      |
| PX/60012-02                 | USEPA 527 (GC/MS) | Polybromobiphenyls(PBBs)        | <0.5   | ug/L  | -   | 0.5  |
| PX/60012-02                 | USEPA 527 (GC/MS) | 4-PBDE                          | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-02                 | USEPA 527 (GC/MS) | 5-PBDE                          | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-02                 | USEPA 527 (GC/MS) | 6-PBDE                          | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-02                 | USEPA 527 (GC/MS) | 7-PBDE                          | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-02                 | USEPA 527 (GC/MS) | 8-PBDE                          | <0.05  | ug/L  | -   | 0.05 |
| REMARK                      |                   |                                 |        |       |     |      |



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TWB 0349516





Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Untreated water

| Lab Sample ID                       | Analysis Method   | Analyte                                       | Result | Units | MDL | RL   |
|-------------------------------------|-------------------|---|--------|-------|-----|------|
| PX/60012-02                         | USEPA 527 (GC/MS) | 9-PBDE  | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-02                         | USEPA 527 (GC/MS) | 10-PBDE                                       | <0.05  | ug/L  | -   | 0.05 |
| PX/60012-02                         | USEPA 527 (GC/MS) | Tris(2,3-dibromopropyl) phosphate (TRIS)      | <0.5   | ug/L  | -   | 0.5  |
| PX/60012-02                         | USEPA 527 (GC/MS) | Tetrabromobisphenol A (TBBPA)                 | <0.5   | ug/L  | -   | 0.5  |
| PX/60012-02                         | USEPA 527 (GC/MS) | Bis(2,3-dibromopropyl) phosphate              | <20.0  | ug/L  | -   | 20.0 |
| PX/60012-02                         | USEPA 527 (GC/MS) | Hexabromocyclododecane (HBCDD)                | <0.5   | ug/L  | -   | 0.5  |
| PX/60012-02                         | USEPA 527 (GC/MS) | 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)   | <20.0  | ug/L  | -   | 20.0 |
| <b>Chlorinated Flame Retardants</b> |                   |   |        |       |     |      |
| PX/60012-02                         | USEPA 527 (GC/MS) | Tris(2-chloroethyl) phosphate (TCEP)          | <0.5   | ug/L  | -   | 0.5  |
| PX/60012-02                         | USEPA 527 (GC/MS) | Tris(1,3-dichloro-isopropyl) phosphate (TDCP) | <0.5   | ug/L  | -   | 0.5  |
| <b>Azo dyes</b>                     |                   |   |        |       |     |      |
| PX/60012-02                         | USEPA8270         | 4-AMINOBIHENYL                                | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | BENZIDINE                                     | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | 4-CHLORO-O-TOLUIDINE                          | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | 2-NAPHTHYLAMINE                               | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | O-AMINOAZOTOLUENE                             | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | 5-NITRO-O-TOLUIDINE                           | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | 4-CHLOROANILINE                               | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | 4-METHOXY-M-PHENYLENEDIAMINE                  | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | 4,4'-DIAMINODIPHENYLMETHANE                   | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | 3,3'-DICHLOROBENZIDINE                        | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | 3,3'-DIMETHOXYBENZIDINE                       | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02                         | USEPA8270         | 3,3'-DIMETHYLBENZIDINE                        | <1.00  | ug/L  | -   | 1.00 |
| REMARK                              |                   |   |        |       |     |      |



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TWB 0349517



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Untreated water

| Lab Sample ID         | Analysis Method | Analyte                              | Result | Units | MDL | RL   |
|-----------------------|-----------------|--------------------------------------|--------|-------|-----|------|
| PX/60012-02           | USEPA8270       | 4,4'-METHYLENEDI-O-TOLUIDINE         | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | P-CRESIDINE                          | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | 4,4'-OXYDIANILINE                    | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | 4,4'-THIODIANILINE                   | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | O-TOLUIDINE                          | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | 4-METHYL-M-PHENYLENEDIAMINE          | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | 2,4,5-TRIMETHYLANILINE               | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | O-ANISIDINE                          | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | 4-AMINOAZOBENZENE                    | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | 2,4-XYLIDINE                         | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | 2,6-XYLIDINE                         | <1.00  | ug/L  | -   | 1.00 |
| PX/60012-02           | USEPA8270       | ANILINE                              | <1.00  | ug/L  | -   | 1.00 |
| <b>Chlorobenzenes</b> |                 |                                      |        |       |     |      |
| PX/60012-02           | USEPA8260       | Chlorobenzene                        | <1000  | ug/L  | -   | 1000 |
| PX/60012-02           | USEPA8260       | 1,2-Dichlorobenzene                  | <1000  | ug/L  | -   | 1000 |
| PX/60012-02           | USEPA8260       | 1,3-Dichlorobenzene                  | <1000  | ug/L  | -   | 1000 |
| PX/60012-02           | USEPA8260       | 1,4-Dichlorobenzene                  | <1000  | ug/L  | -   | 1000 |
| PX/60012-02           | USEPA8260       | 1,2,4-Trichlorobenzene               | <1000  | ug/L  | -   | 1000 |
| PX/60012-02           | USEPA8260       | 1,2,3-Trichlorobenzene,              | <1000  | ug/L  | -   | 1000 |
| PX/60012-02           | USEPA8260       | 1,3,5-Trichlorobenzene               | <1000  | ug/L  | -   | 1000 |
| PX/60012-02           | USEPA8270SIM    | 1,2,3,4-Tetrachlorobenzene           | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02           | USEPA8270SIM    | 1,2,3,5-Tetrachlorobenzene           | <50.0  | ug/L  | -   | 50.0 |
| REMARK                |                 |                                      |        |       |     |      |



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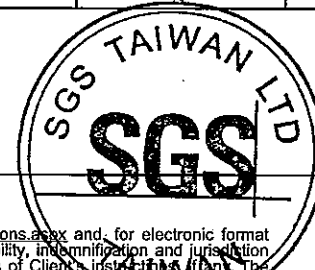
TWB 0349518



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Untreated water

| Lab Sample ID        | Analysis Method | Analyte                    | Result | Units | MDL | RL   |
|----------------------|-----------------|----------------------------|--------|-------|-----|------|
| PX/60012-02          | USEPA8270SIM    | 1,2,4,5-Tetrachlorobenzene | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02          | USEPA8270SIM    | Pentachlorobenzene         | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02          | USEPA8270SIM    | Hexachlorobenzene          | <50.0  | ug/L  | -   | 50.0 |
| Chlorinated solvents |                 |                            |        |       |     |      |
| PX/60012-02          | USEPA8260       | Methylene chloride         | <1000  | ug/L  | -   | 1000 |
| PX/60012-02          | USEPA8260       | Tetrachloroethene          | <1000  | ug/L  | -   | 1000 |
| PX/60012-02          | USEPA8260       | Trichloroethene            | <1000  | ug/L  | -   | 1000 |
| PX/60012-02          | USEPA8260       | 1,1,2-Trichloroethane      | <1000  | ug/L  | -   | 1000 |
| PX/60012-02          | USEPA8260       | Carbon tetrachloride       | <1000  | ug/L  | -   | 1000 |
| PX/60012-02          | USEPA8260       | Chloroform                 | <1000  | ug/L  | -   | 1000 |
| PX/60012-02          | USEPA8260       | 1,2-Dichloroethane         | <1000  | ug/L  | -   | 1000 |
| PX/60012-02          | USEPA8260       | 1,1-Dichloroethane         | <1000  | ug/L  | -   | 1000 |
| Chlorophenols        |                 |                            |        |       |     |      |
| PX/60012-02          | USEPA8270SIM    | 2-Chlorophenol             | <200   | ug/L  | -   | 200  |
| PX/60012-02          | USEPA8270SIM    | 2,4-Dichlorophenol         | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02          | USEPA8270SIM    | 2,5-Dichlorophenol         | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02          | USEPA8270SIM    | 2,3-Dichlorophenol         | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02          | USEPA8270SIM    | 3-Chlorophenol             | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02          | USEPA8270SIM    | 4-Chlorophenol             | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02          | USEPA8270SIM    | 2,6-Dichlorophenol         | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02          | USEPA8270SIM    | 2,3,5-Trichlorophenol      | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02          | USEPA8270SIM    | 2,4,6-Trichlorophenol      | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02          | USEPA8270SIM    | 2,4,5-Trichlorophenol      | <50.0  | ug/L  | -   | 50.0 |
| REMARK               |                 |                            |        |       |     |      |



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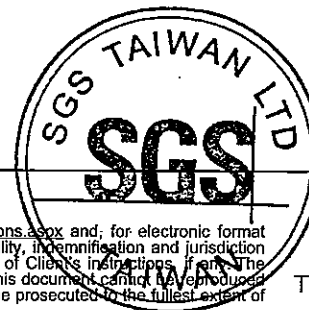
TWB 0349519



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Untreated water

| Lab Sample ID                                     | Analysis Method                     | Analyte                   | Result | Units | MDL | RL   |
|---|-------------------------------------|---------------------------|--------|-------|-----|------|
| PX/60012-02                                       | USEPA8270SIM                        | 2,3,4-Trichlorophenol     | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02                                       | USEPA8270SIM                        | 3,5-Dichlorophenol        | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02                                       | USEPA8270SIM                        | 3,4-Dichlorophenol        | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02                                       | USEPA8270SIM                        | 2,3,5,6-Tetrachlorophenol | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02                                       | USEPA8270SIM                        | 2,3,4,5-Tetrachlorophenol | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02                                       | USEPA8270SIM                        | 2,3,4,6-Trichlorophenol   | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02                                       | USEPA8270SIM                        | 3,4,5-Trichlorophenol     | <50.0  | ug/L  | -   | 50.0 |
| PX/60012-02                                       | USEPA8270SIM                        | Pentachlorophenol         | <50.0  | ug/L  | -   | 50.0 |
| <b>Organotin Compounds</b>                        |                                     |                           |        |       |     |      |
| PX/60012-02                                       | ISO 17353 (GC/MS)                   | Monobutyltin              | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-02                                       | ISO 17353 (GC/MS)                   | Dibutyltin                | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-02                                       | ISO 17353 (GC/MS)                   | Tributyltin               | 0.127  | ug/L  | -   | 0.1  |
| PX/60012-02                                       | ISO 17353 (GC/MS)                   | Diocetyl tin              | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-02                                       | ISO 17353 (GC/MS)                   | Triphenyltin              | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-02                                       | ISO 17353 (GC/MS)                   | Tricyclohexyltin          | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-02                                       | ISO 17353 (GC/MS)                   | Triocetyl tin             | <0.1   | ug/L  | -   | 0.1  |
| PX/60012-02                                       | ISO 17353 (GC/MS)                   | Tripropyltin              | <0.1   | ug/L  | -   | 0.1  |
| <b>Short Chain Chlorinated(SCCP) with C10-C13</b> |                                     |                           |        |       |     |      |
| PX/60012-02                                       | USEPA 8082(GC/ECD)                  | (SCCP) with C10-C13       | <10.0  | ug/L  | -   | 10.0 |
| <b>APEO</b>                                       |                                     |                           |        |       |     |      |
| PX/60012-02                                       | Dichloromethane extraction /(GC/MS) | Nonylphenol               | <5.00  | ug/L  | -   | 5.00 |
| PX/60012-02                                       | Dichloromethane extraction /(GC/MS) | Octylphenol               | <5.00  | ug/L  | -   | 5.00 |
| REMARK  |                                     |                           |        |       |     |      |



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TWB 0349520



Laboratory of Environmental Analysis  
**TEST REPORT**

Sample : Untreated water

| Lab Sample ID   | Analysis Method                     | Analyte                             | Result   | Units | MDL     | RL   |
|---|-------------------------------------|-------------------------------------|----------|-------|---------|------|
| PX/60012-02   | Dichloromethane extraction /(GC/MS) | Nonylphenol monoethoxylates, NP1EO  | <5.00    | ug/L  | -       | 5.00 |
| PX/60012-02   | Dichloromethane extraction /(GC/MS) | Nonylphenol diethoxylates NP2EO     |          |       |         |      |
| PX/60012-02   | Dichloromethane extraction /(GC/MS) | Octylphenol monoethoxylates, OP1EO  | <5.00    | ug/L  | -       | 5.00 |
| PX/60012-02   | Dichloromethane extraction /(GC/MS) | Octylphenol diethoxylates, OP2EO    |          |       |         |      |
| PX/60012-02   | SolidPhaseExtraction/(LC/MS)        | Nonylphenoethoxylates, n=4 to n=15  | <1.00    | ug/L  | -       | 1.00 |
| PX/60012-02   | SolidPhaseExtraction/(LC/MS)        | Octylphenoethoxylates, n=4 to n= 15 | <1.00    | ug/L  | -       | 1.00 |
| <b>PFCs</b>   |                                     |                                     |          |       |         |      |
| PX/60012-02   | USEPA 3535A /(LC/MS)                | perfluorooctanoic acid (PFOA)       | <1.00    | ug/L  | -       | 1.00 |
| PX/60012-02   | USEPA 3535A /(LC/MS)                | perfluorooctane sulfonate (PFOS)    | <1.00    | ug/L  | -       | 1.00 |
| <b>Heavy Metals</b>   |                                     |                                     |          |       |         |      |
| PX/60012-02   | NIEA W313                           | Arsenic, As                         | 0.00182  | mg/L  | 0.00002 | -    |
| PX/60012-02   | NIEA W313                           | Cadmium, Cd                         | <0.00500 | mg/L  | 0.00002 | -    |
| PX/60012-02   | NIEA W313                           | Cobalt, Co                          | 0.00190  | mg/L  | 0.00004 | -    |
| PX/60012-02   | NIEA W313                           | Chromium, Cr (total)                | 0.0143   | mg/L  | 0.00005 | -    |
| PX/60012-02   | NIEA W320                           | Chromium, hexavalent, Cr(VI)        | ND<0.01  | mg/L  | 0.01    | -    |
| PX/60012-02   | NIEA W313                           | Copper, Cu                          | 0.0101   | mg/L  | 0.00006 | -    |
| PX/60012-02   | NIEA W313                           | Mercury, Hg                         | <0.00025 | mg/L  | 0.00002 | -    |
| PX/60012-02   | NIEA W313                           | Manganese, Mn                       | 0.00791  | mg/L  | 0.00004 | -    |
| PX/60012-02   | NIEA W313                           | Nickel, Ni                          | 0.00141  | mg/L  | 0.00005 | -    |
| PX/60012-02   | NIEA W313                           | Lead, Pb                            | <0.00500 | mg/L  | 0.00002 | -    |
| PX/60012-02   | NIEA W313                           | Antimony, Sb                        | 0.00347  | mg/L  | 0.00003 | -    |
| PX/60012-02   | NIEA W313                           | Zinc, Zn                            | 0.0519   | mg/L  | 0.00002 | -    |
| <p>REMARK</p> <p>1. Sample interference by matrix, Arsenic, Cobalt, Manganese and Nickel is diluted by the factor of 10.<br/>           2. Sample interference by matrix, Cadmium and Lead is diluted by the factor of 50.<br/>           3. Sample interference by matrix, Mercury and Antimony is diluted by the factor of 5.</p> |                                     |                                     |          |       |         |      |



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TWB 0349521



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/60012-01~02              | USEPA8270SIM      | bis(2-ethylhexyl) phthalate     | LCS       | 86.3%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | butyl benzyl phthalate          | LCS       | 87.6%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | di-n-butyl phthalate            | LCS       | 84.2%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | diethyl phthalate               | LCS       | 84.6%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | dimethyl phthalate              | LCS       | 83.9%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | di-n-octyl phthalate            | LCS       | 82.7%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | di-isononyl phthalate           | LCS       | 79.7%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | di-iso-decyl phthalate          | LCS       | 104.9%   | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | di-isobutyl phthalate           | LCS       | 85.9%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | di-n-hexyl phthalate            | LCS       | 87.5%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | Di-n-Propyl Phthalate (DPRP)    | LCS       | 86.2%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | Di-cyclohexyl Phthalate (DCHP)  | LCS       | 84.2%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | Dinonyl Phthalate (DNP)         | LCS       | 84.5%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | Di-iso-octyl Phthalate (DIOP)   | LCS       | 79.1%    | 60                  | 140                 |
| PX/60012-01~02              | USEPA8270SIM      | Dimethoxyethyl Phthalate (DMEP) | LCS       | 76.2%    | 60                  | 140                 |
| Brominated Flame retardants |                   |                                 |           |          |                     |                     |
| PX/60012-01~02              | USEPA 527 (GC/MS) | 3-PBDE                          | LCS       | 44.7%    | -                   | -                   |
| PX/60012-01~02              | USEPA 527 (GC/MS) | 4-PBDE                          | LCS       | 45.2%    | -                   | -                   |
| PX/60012-01~02              | USEPA 527 (GC/MS) | 5-PBDE                          | LCS       | 42.0%    | -                   | -                   |
| REMARK                      |                   |                                 |           |          |                     |                     |

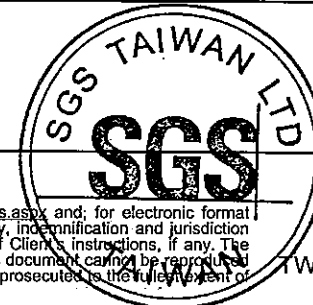


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TWB 0349522

## Laboratory of Environmental Analysis QA/QC REPORT

| Lab Sample ID                       | Analysis Method   | Analyte                                       | QA/QC Type | Recovery | Lower Control Limit | Upper Control Limit |
|-------------------------------------|-------------------|---|------------|----------|---------------------|---------------------|
| PX/60012-01~02                      | USEPA 527 (GC/MS) | 6-PBDE  | LCS        | 44.0%    | -                   | -                   |
| PX/60012-01~02                      | USEPA 527 (GC/MS) | 7-PBDE  | LCS        | 48.4%    | -                   | -                   |
| PX/60012-01~02                      | USEPA 527 (GC/MS) | 10-PBDE                                       | LCS        | 49.8%    | -                   | -                   |
| PX/60012-01~02                      | USEPA 527 (GC/MS) | Tris(2,3-dibromopropyl) phosphate (TRIS)      | LCS        | 82.6%    | -                   | -                   |
| PX/60012-01~02                      | USEPA 527 (GC/MS) | Tetrabromobisphenol A (TBBPA)                 | LCS        | 100.6%   | -                   | -                   |
| PX/60012-01~02                      | USEPA 527 (GC/MS) | Bis(2,3-dibromopropyl) phosphate              | LCS        | 89.0%    | -                   | -                   |
| PX/60012-01~02                      | USEPA 527 (GC/MS) | Hexabromocyclododecane (HBCDD)                | LCS        | 93.3%    | -                   | -                   |
| PX/60012-01~02                      | USEPA 527 (GC/MS) | 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)   | LCS        | 94.3%    | -                   | -                   |
| <b>Chlorinated Flame Retardants</b> |                   |   |            |          |                     |                     |
| PX/60012-01~02                      | USEPA 527 (GC/MS) | Tris(2-chloroethyl) phosphate (TCEP)          | LCS        | 98.6%    | -                   | -                   |
| PX/60012-01~02                      | USEPA 527 (GC/MS) | Tris(1,3-dichloro-isopropyl) phosphate (TDCP) | LCS        | 99.8%    | -                   | -                   |
| <b>Azo dyes</b>                     |                   |   |            |          |                     |                     |
| PX/60012-01~02                      | USEPA8270         | 4-AMINOBIIPHENYL                              | LCS        | 45.0%    | -                   | -                   |
| PX/60012-01~02                      | USEPA8270         | BENZIDINE                                     | LCS        | 19.0%    | -                   | -                   |
| PX/60012-01~02                      | USEPA8270         | 4-CHLORO-O-TOLUIDINE                          | LCS        | 44.0%    | -                   | -                   |
| PX/60012-01~02                      | USEPA8270         | 2-NAPHTHYLAMINE                               | LCS        | 45.0%    | -                   | -                   |
| PX/60012-01~02                      | USEPA8270         | 4-CHLOROANILINE                               | LCS        | 39.0%    | -                   | -                   |
| PX/60012-01~02                      | USEPA8270         | 4,4'-DIAMINODIPHENYLMETHANE                   | LCS        | 22.0%    | -                   | -                   |
| PX/60012-01~02                      | USEPA8270         | 3,3'-DICHLOOROBENZIDINE                       | LCS        | 48.0%    | -                   | -                   |
| PX/60012-01~02                      | USEPA8270         | 3,3'-DIMETHOXYBENZIDINE                       | LCS        | 18.0%    | -                   | -                   |
| REMARK                              |                   |   |            |          |                     |                     |



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TWB 0349523

## Laboratory of Environmental Analysis QA/QC REPORT

| Lab Sample ID  | Analysis Method | Analyte                              | QA/QC Type | Recovery | Lower Control Limit | Upper Control Limit |
|----------------|-----------------|--------------------------------------|------------|----------|---------------------|---------------------|
| PX/60012-01~02 | USEPA8270       | 3,3'-DIMETHYLBENZIDINE               | LCS        | 34.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | 4,4'-METHYLENEDI-O-TOLUIDINE         | LCS        | 25.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | P-CRESIDINE                          | LCS        | 44.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) | LCS        | 45.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | 4,4'-OXYDIANILINE                    | LCS        | 21.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | 4,4'-THIODIANILINE                   | LCS        | 18.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | O-TOLUIDINE                          | LCS        | 46.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | 4-METHYL-M-PHENYLENEDIAMINE          | LCS        | 10.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | 2,4,5-TRIMETHYLANILINE               | LCS        | 40.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | O-ANISIDINE                          | LCS        | 45.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | 4-AMINOAZOBENZENE                    | LCS        | 44.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | 2,4-XYLIDINE                         | LCS        | 46.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | 2,6-XYLIDINE                         | LCS        | 46.0%    | -                   | -                   |
| PX/60012-01~02 | USEPA8270       | ANILINE                              | LCS        | 56.0%    | -                   | -                   |
| Chlorobenzenes |                 |                                      |            |          |                     |                     |
| PX/60012-01~02 | USEPA8260       | Chlorobenzene                        | LCS        | 100.2%   | 75                  | 125                 |
| PX/60012-01~02 | USEPA8260       | 1,2-Dichlorobenzene                  | LCS        | 102.0%   | 75                  | 125                 |
| PX/60012-01~02 | USEPA8260       | 1,3-Dichlorobenzene                  | LCS        | 101.1%   | 75                  | 125                 |
| PX/60012-01~02 | USEPA8270SIM    | 1,2,3,4-Tetrachlorobenzene           | LCS        | 69.8%    | 60                  | 140                 |
| PX/60012-01~02 | USEPA8270SIM    | 1,2,3,5-Tetrachlorobenzene           | LCS        | 69.4%    | 60                  | 140                 |
| REMARK         |                 |                                      |            |          |                     |                     |

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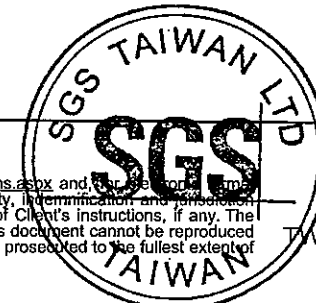


TWB 0349524



## Laboratory of Environmental Analysis QA/QC REPORT

| Lab Sample ID        | Analysis Method | Analyte                    | QA/QC Type | Recovery | Lower Control Limit | Upper Control Limit |
|----------------------|-----------------|----------------------------|------------|----------|---------------------|---------------------|
| PX/60012-01~02       | USEPA8270SIM    | 1,2,4,5-Tetrachlorobenzene | LCS        | 74.2%    | 60                  | 140                 |
| PX/60012-01~02       | USEPA8270SIM    | Pentachlorobenzene         | LCS        | 76.8%    | 60                  | 140                 |
| PX/60012-01~02       | USEPA8270SIM    | Hexachlorobenzene          | LCS        | 92.2%    | 60                  | 140                 |
| Chlorinated solvents |                 |                            |            |          |                     |                     |
| PX/60012-01~02       | USEPA8260       | Methylene chloride         | LCS        | 105.2%   | 75                  | 125                 |
| PX/60012-01~02       | USEPA8260       | Tetrachloroethene          | LCS        | 100.3%   | 75                  | 125                 |
| PX/60012-01~02       | USEPA8260       | Trichloroethene            | LCS        | 99.0%    | 75                  | 125                 |
| PX/60012-01~02       | USEPA8260       | 1,1,2-Trichloroethane      | LCS        | 101.3%   | 75                  | 125                 |
| PX/60012-01~02       | USEPA8260       | Carbon tetrachloride       | LCS        | 95.0%    | 75                  | 125                 |
| PX/60012-01~02       | USEPA8260       | Chloroform                 | LCS        | 101.6%   | 75                  | 125                 |
| PX/60012-01~02       | USEPA8260       | 1,2-Dichloroethane         | LCS        | 100.3%   | 75                  | 125                 |
| Chlorophenols        |                 |                            |            |          |                     |                     |
| PX/60012-01~02       | USEPA8270SIM    | 2-Chlorophenol             | LCS        | 80.0%    | 60                  | 140                 |
| PX/60012-01~02       | USEPA8270SIM    | 2,4-Dichlorophenol         | LCS        | 63.2%    | 60                  | 140                 |
| PX/60012-01~02       | USEPA8270SIM    | 2,5-Dichlorophenol         | LCS        | 82.2%    | 60                  | 140                 |
| PX/60012-01~02       | USEPA8270SIM    | 2,3-Dichlorophenol         | LCS        | 82.0%    | 60                  | 140                 |
| PX/60012-01~02       | USEPA8270SIM    | 3-Chlorophenol             | LCS        | 92.8%    | 60                  | 140                 |
| PX/60012-01~02       | USEPA8270SIM    | 4-Chlorophenol             | LCS        | 86.0%    | 60                  | 140                 |
| PX/60012-01~02       | USEPA8270SIM    | 2,6-Dichlorophenol         | LCS        | 79.8%    | 60                  | 140                 |
| PX/60012-01~02       | USEPA8270SIM    | 2,3,5-Trichlorophenol      | LCS        | 82.2%    | 60                  | 140                 |
| REMARK               |                 |                            |            |          |                     |                     |



## Laboratory of Environmental Analysis QA/QC REPORT

| Lab Sample ID       | Analysis Method   | Analyte                   | QA/QC Type | Recovery | Lower Control Limit | Upper Control Limit |
|---------------------|-------------------|---------------------------|------------|----------|---------------------|---------------------|
| PX/60012-01~02      | USEPA8270SIM      | 2,4,6-Trichlorophenol     | LCS        | 81.6%    | 60                  | 140                 |
| PX/60012-01~02      | USEPA8270SIM      | 2,4,5-Trichlorophenol     | LCS        | 86.0%    | 60                  | 140                 |
| PX/60012-01~02      | USEPA8270SIM      | 2,3,4-Trichlorophenol     | LCS        | 88.0%    | 60                  | 140                 |
| PX/60012-01~02      | USEPA8270SIM      | 3,5-Dichlorophenol        | LCS        | 94.6%    | 60                  | 140                 |
| PX/60012-01~02      | USEPA8270SIM      | 3,4-Dichlorophenol        | LCS        | 92.8%    | 60                  | 140                 |
| PX/60012-01~02      | USEPA8270SIM      | 2,3,5,6-Tetrachlorophenol | LCS        | 61.0%    | 60                  | 140                 |
| PX/60012-01~02      | USEPA8270SIM      | 2,3,4,5-Tetrachlorophenol | LCS        | 92.0%    | 60                  | 140                 |
| PX/60012-01~02      | USEPA8270SIM      | 2,3,4,6-Trichlorophenol   | LCS        | 77.8%    | 60                  | 140                 |
| PX/60012-01~02      | USEPA8270SIM      | 3,4,5-Trichlorophenol     | LCS        | 88.8%    | 60                  | 140                 |
| PX/60012-01~02      | USEPA8270SIM      | Pentachlorophenol         | LCS        | 80.4%    | 60                  | 140                 |
| Organotin Compounds |                   |                           |            |          |                     |                     |
| PX/60012-01~02      | ISO 17353 (GC/MS) | Monobutyltin              | LCS        | 81.7%    | -                   | -                   |
| PX/60012-01~02      | ISO 17353 (GC/MS) | Dibutyltin                | LCS        | 36.3%    | -                   | -                   |
| PX/60012-01~02      | ISO 17353 (GC/MS) | Tributyltin               | LCS        | 25.3%    | -                   | -                   |
| PX/60012-01~02      | ISO 17353 (GC/MS) | Diocetyl tin              | LCS        | 26.7%    | -                   | -                   |
| PX/60012-01~02      | ISO 17353 (GC/MS) | Triphenyltin              | LCS        | 70.7%    | -                   | -                   |
| PX/60012-01~02      | ISO 17353 (GC/MS) | Tricyclohexyltin          | LCS        | 50.0%    | -                   | -                   |
| PX/60012-01~02      | ISO 17353 (GC/MS) | Triocetyl tin             | LCS        | 47.7%    | -                   | -                   |
| PX/60012-01~02      | ISO 17353 (GC/MS) | Tripropyltin              | LCS        | 68.7%    | -                   | -                   |
| REMARK              |                   |                           |            |          |                     |                     |



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TWB 0349526

| Lab Sample ID                              | Analysis Method                     | Analyte                             | QA/QC Type | Recovery | Lower Control Limit | Upper Control Limit |
|--|-------------------------------------|-------------------------------------|------------|----------|---------------------|---------------------|
| Short Chain Chlorinated(SCCP) with C10-C13 |                                     |                                     |            |          |                     |                     |
| PX/60012-01~02                             | USEPA 8082(GC/ECD)                  | (SCCP) with C10-C13                 | LCS        | 98.7%    | 30                  | 120                 |
| APEO                                       |                                     |                                     |            |          |                     |                     |
| PX/60012-01~02                             | Dichloromethane extraction /(GC/MS) | Nonylphenol                         | LCS        | 57.1%    | -                   | -                   |
| PX/60012-01~02                             | Dichloromethane extraction /(GC/MS) | Octylphenol                         | LCS        | 34.3%    | -                   | -                   |
| PX/60012-01~02                             | Dichloromethane extraction /(GC/MS) | Nonylphenol monoethoxylates, NP1EO  | LCS        | 49.7%    | -                   | -                   |
| PX/60012-01~02                             | Dichloromethane extraction /(GC/MS) | Nonylphenol diethoxylates NP2EO     |            |          |                     |                     |
| PX/60012-01~02                             | Dichloromethane extraction /(GC/MS) | Octylphenol monoethoxylates, OP1EO  | LCS        | 77.3%    | -                   | -                   |
| PX/60012-01~02                             | Dichloromethane extraction /(GC/MS) | Octylphenol diethoxylates, OP2EO    |            |          |                     |                     |
| PX/60012-01~02                             | SolidPhaseExtraction/(LC/MS)        | Nonylphenoethoxylates, n=4 to n=15  | LCS        | 57.5%    | -                   | -                   |
| PX/60012-01~02                             | SolidPhaseExtraction/(LC/MS)        | Octylphenoethoxylates, n=4 to n= 15 | LCS        | 80.0%    | -                   | -                   |
| PFCs                                       |                                     |                                     |            |          |                     |                     |
| PX/60012-01~02                             | USEPA 3535A /(LC/MS)                | perfluorooctanoic acid (PFOA)       | LCS        | 50.0%    | 30                  | 120                 |
| PX/60012-01~02                             | USEPA 3535A /(LC/MS)                | perfluorooctane sulfonate (PFOS)    | LCS        | 99.0%    | 30                  | 120                 |
| Heavy Metals                               |                                     |                                     |            |          |                     |                     |
| PX/60012-01~02                             | NIEA W313                           | Arsenic, As                         | LCS        | 109.6%   | 80                  | 120                 |
| PX/60012-01~02                             | NIEA W313                           | Cadmium, Cd                         | LCS        | 105.1%   | 80                  | 120                 |
| PX/60012-01~02                             | NIEA W313                           | Cobalt, Co                          | LCS        | 108.7%   | 80                  | 120                 |
| PX/60012-01~02                             | NIEA W313                           | Chromium, Cr (total)                | LCS        | 108.5%   | 80                  | 120                 |
| PX/60012-01~02                             | NIEA W320                           | Chromium, hexavalent, Cr(VI)        | LCS        | 96.2%    | 80                  | 120                 |
| REMARK                                     |                                     |                                     |            |          |                     |                     |



## Laboratory of Environmental Analysis QA/QC REPORT

| Lab Sample ID  | Analysis Method | Analyte              | QA/QC Type | Recovery | Lower Control Limit | Upper Control Limit |
|----------------|-----------------|----------------------|------------|----------|---------------------|---------------------|
| PX/60012-01~02 | NIEA W313       | Copper, Cu           | LCS        | 108.5%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Mercury, Hg          | LCS        | 101.5%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Manganese, Mn        | LCS        | 105.4%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Nickel, Ni           | LCS        | 104.5%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Lead, Pb             | LCS        | 100.8%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Antimony, Sb         | LCS        | 91.7%    | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Zinc, Zn             | LCS        | 109.4%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Arsenic, As          | MS         | 82.2%    | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Cadmium, Cd          | MS         | 102.1%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Cobalt, Co           | MS         | 92.5%    | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Chromium, Cr (total) | MS         | 103.8%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Copper, Cu           | MS         | 97.5%    | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Mercury, Hg          | MS         | 96.9%    | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Manganese, Mn        | MS         | 98.5%    | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Nickel, Ni           | MS         | 94.1%    | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Lead, Pb             | MS         | 107.3%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Antimony, Sb         | MS         | 102.1%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Zinc, Zn             | MS         | 109.6%   | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Cadmium, Cd          | MSD        | 97.9%    | 80                  | 120                 |
| PX/60012-01~02 | NIEA W313       | Cobalt, Co           | MSD        | 96.7%    | 80                  | 120                 |
| REMARK         |                 |                      |            |          |                     |                     |

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