

# Test Report

**Client:** Jack Wolfskin  
**Factory name:** - Supplier 5147 - one facility with 5146  
**Factory Address:** -  
**Report No.:** PX/2015/90081~82a  
**Date Reported:** 2015/10/20  
**Date Sampled:** 2015/09/11  
**Sample (s):** Water, Sludge

## REMARKS

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



Carry Kuo

Manager





## Positive result summary

| Ref. No. | ITEMS                             | CAS No.                                              | METHOD                                                        | Water           |       |                  |                 | Sludge            |                 |                   |                   |
|----------|-----------------------------------|------------------------------------------------------|---------------------------------------------------------------|-----------------|-------|------------------|-----------------|-------------------|-----------------|-------------------|-------------------|
|          |                                   |                                                      |                                                               | Reporting Limit | Inlet | Before Treatment | After Treatment | Local Requirement | Reporting Limit | Sludge            | Local Requirement |
| 2.27     | Sodium Tetraborate**              | 1303-96-4,<br>1303-43-4,<br>12179-04-3,<br>215-540-4 | Acid Digestion with ICP analysis                              | 0.5 µg/L        | 35.7  | 984.4            | 777.4           |                   | 0.25 mg/kg      | 12.97             |                   |
| 2.28     | Boron trioxide**                  | 1303-86-2                                            | Acid Digestion with ICP analysis                              | 0.5 µg/L        | 25.0  | 689.0            | 544.1           |                   | 0.25 mg/kg      | 9.08              |                   |
| 2.29     | Boric acid**                      | 10043-35-3,<br>11113-50-1                            | Acid Digestion with ICP analysis                              | 0.5 µg/L        | 44.4  | 1223.9           | 966.6           |                   | 0.25 mg/kg      | 16.13             |                   |
| 2.30     | Antimony trioxide**               | 1309-64-4                                            | Acid Digestion with ICP analysis                              | 0.5 µg/L        | -     | 311.2            | 164.0           |                   | 0.25 mg/kg      | 46.21             |                   |
| 6.4      | 1,2,3-Trichlorobenzene            | 87-61-6                                              | Solvent extraction with GC/MS analysis                        | 0.02 µg/L       | -     | -                | 0.02            |                   | 0.01 mg/kg      | -                 |                   |
| 6.5      | 1,2,4-Trichlorobenzene            | 120-82-1                                             | Solvent extraction with GC/MS analysis                        | 0.02 µg/L       | 0.03  | -                | 0.02            |                   | 0.01 mg/kg      | -                 |                   |
| 6.6      | 1,3,5-Trichlorobenzene            | 108-70-3                                             | Solvent extraction with GC/MS analysis                        | 0.02 µg/L       | 0.04  | -                | -               |                   | 0.01 mg/kg      | -                 |                   |
| 10.1     | Total Cadmium (Cd)                | 7440-43-9                                            | Acid Digestion with ICP analysis                              | 0.1 µg/L        | -     | -                | 1.0             |                   | 1 mg/kg         | -                 |                   |
| 10.2     | Total Lead (Pb)                   | 7439-92-1                                            | Acid Digestion with ICP analysis                              | 1 µg/L          | -     | 3                | 3               |                   | 1 mg/kg         | -                 |                   |
| 10.3     | Total Mercury (Hg)                | 7439-97-6                                            | Acid Digestion with ICP analysis                              | 0.05 µg/L       | -     | 0.10             | -               |                   | 0.006 mg/kg     | 1.00 <sup>A</sup> |                   |
| 10.4     | Total Nickel (Ni)                 | 7440-02-0                                            | Acid Digestion with ICP analysis                              | 1 µg/L          | -     | 5                | 2               |                   | 1 mg/kg         | 2                 |                   |
| 10.5     | Total Hexavalent Chromium (Cr-VI) | 18540-29-9                                           | Solvent extraction and derivatisation followed by UV analysis | 1 µg/L          | -     | -                | -               |                   | 1 mg/kg         | 1                 |                   |
| 10.6     | Total Arsenic (As)                | 7440-38-2                                            | Acid Digestion with ICP analysis                              | 1 µg/L          | -     | 2                | -               |                   | 1 mg/kg         | 3                 |                   |
| 10.7     | Total Chromium (Cr)               | 7440-47-3                                            | Acid Digestion with ICP analysis                              | 1 µg/L          | -     | 34               | 3               |                   | 1 mg/kg         | 15                |                   |
| 10.8     | Total Copper (Cu)                 | 7440-50-8                                            | Acid Digestion with ICP analysis                              | 1 µg/L          | 4     | 9                | 1               |                   | 1 mg/kg         | 4                 |                   |

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## Positive result summary

| Ref. No. | ITEMS                | CAS No.                                           | METHOD                                                                    | Water           |       |                  |                 | Sludge            |                 |        |                   |
|----------|----------------------|---------------------------------------------------|---------------------------------------------------------------------------|-----------------|-------|------------------|-----------------|-------------------|-----------------|--------|-------------------|
|          |                      |                                                   |                                                                           | Reporting Limit | Inlet | Before Treatment | After Treatment | Local Requirement | Reporting Limit | Sludge | Local Requirement |
| 10.9     | Total Zinc (Zn)      | 7440-66-6                                         | Acid Digestion with ICP analysis                                          | 1 µg/L          | 22    | 212              | 32              |                   | 4 mg/kg         | 79     |                   |
| 10.10    | Total Manganese (Mn) | 7439-96-5                                         | Acid Digestion with ICP analysis                                          | 1 µg/L          | 15    | 39               | 15              |                   | 1 mg/kg         | 13     |                   |
| 10.11    | Total Antimony (Sb)  | 7440-36-0                                         | Acid Digestion with ICP analysis                                          | 1 µg/L          | -     | 260              | 137             |                   | 1 mg/kg         | 39     |                   |
| 10.12    | Total Cobalt (Co)*   | 7440-48-4                                         | Acid Digestion with ICP analysis                                          | 1 µg/L          | -     | 6                | 1               |                   | 1 mg/kg         | 2      |                   |
| 11.1     | Octylphenol          | various<br>140-66-9,<br>27193-28-8,<br>1806-26-4  | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis         | 1 µg/L          | -     | 4                | -               |                   | 0.2 mg/kg       | -      |                   |
| 11.6     | OPEO, n=3~18         | various<br>9002-93-1,<br>9036-19-5,<br>68987-90-6 | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis         | 1 µg/L          | -     | 1360             | -               |                   | 0.2 mg/kg       | 6.1    |                   |
| 12.1     | PFOA                 | 335-67-1                                          | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L       | 0.04  | 0.03             | 0.13            |                   | 0.001 mg/kg     | 0.029  |                   |
| 12.2     | PFNA                 | 375-95-1                                          | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L       | -     | 0.05             | 0.15            |                   | 0.001 mg/kg     | 0.011  |                   |
| 12.8     | 8:2 FTOH             | 678-39-7                                          | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L        | -     | -                | -               |                   | 0.01 mg/kg      | 0.02   |                   |
| 12.11    | PFHXA                | 307-24-4                                          | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L       | 0.02  | -                | 0.06            |                   | 0.001 mg/kg     | -      |                   |

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## Positive result summary

| Ref. No. | ITEMS               | CAS No.   | METHOD                                                                    | Water           |       |                  |                 | Sludge            |                 |        |
|----------|---------------------|-----------|---------------------------------------------------------------------------|-----------------|-------|------------------|-----------------|-------------------|-----------------|--------|
|          |                     |           |                                                                           | Reporting Limit | Inlet | Before Treatment | After Treatment | Local Requirement | Reporting Limit | Sludge |
| 12.19    | PFHpA               | 375-85-9  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L       | 0.05  | 0.02             | 0.27            |                   | 0.001 mg/kg     | -      |
| 12.20    | PFDA                | 335-76-2  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L       | -     | -                | -               |                   | 0.001 mg/kg     | 0.015  |
| 12.21    | PFUnA               | 2058-94-8 | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L       | -     | -                | -               |                   | 0.001 mg/kg     | 0.003  |
| 14.18    | Naphthalene         | 91-20-3   | Solvent extraction with GC/MS analysis                                    | 1 µg/L          | 4     | 6                | 6               |                   | 0.1 mg/kg       | 3.0    |
| 15.1     | BOD (5-day)         | -         | SM 5210                                                                   | 2 mg/L          | -     | 160              | -               |                   | -               | -      |
| 15.2     | COD                 | -         | USEPA 410.4 or SM 5220D                                                   | 5 mg/L          | -     | 1040             | 47              |                   | -               | -      |
| 15.3     | TSS                 | -         | SM 2540D                                                                  | 5 mg/L          | -     | 188              | 7               |                   | -               | -      |
| 15.4     | TDS                 | -         | SM 2540C                                                                  | 5 mg/L          | 107   | 1060             | 897             |                   | -               | -      |
| 15.5     | Cyanide             | -         | APHA 4500 CN—B,C & E                                                      | 0.01 mg/L       | -     | 0.04             | -               |                   | 0.01 mg/kg      | 0.20   |
| 15.6     | Sulfide             | -         | SM 4500-S2-D                                                              | 0.005 mg/L      | 0.015 | 0.024            | 0.015           |                   | -               | -      |
| 15.8     | Colour              | -         | USEPA 110.2 or SM 2120B or ISO 7887-2011 Method D                         | 5 CU            | -     | 125              | 75              |                   | -               | -      |
| 15.9     | Total phenolics     | -         | SM 5530B                                                                  | 0.002 mg/L      | -     | 0.085            | 0.003           |                   | -               | -      |
| 15.10    | Ca Hardness         | -         | SM 2340B                                                                  | 5 mg/L          | 16    | 18               | 14              |                   | -               | -      |
| 15.11    | Mg Hardness         | -         | SM 2340B                                                                  | 5 mg/L          | 17    | 19               | 13              |                   | -               | -      |
| 15.12    | AOX†                | -         | -                                                                         | 20 µg/L         | -     | 960              | 140             |                   | 10 mg/kg        | 810    |
| 15.13    | Percentage moisture | -         | in-house method                                                           | -               | -     | -                | -               |                   | %               | 12.8   |

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INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90081--82a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                                                                            | CAS No.                                                                        | METHOD                                          | Water                       |       |                  |                 | Sludge          |                                   |
|----------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------|-------|------------------|-----------------|-----------------|-----------------------------------|
|          |                                                                                  |                                                                                |                                                 | Waste Water Reporting Limit | Inlet | Before Treatment | After Treatment | Reporting Limit | Local Requirement (if applicable) |
| 1        | Phthalates                                                                       |                                                                                |                                                 |                             |       |                  |                 |                 |                                   |
| 1.1      | Di-Butyl Phthalate (DBP)                                                         | 84-74-2                                                                        | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.2      | Di(2-Ethyl Hexyl) Phthalate(DEHP)                                                | 117-81-7                                                                       | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.3      | Benzyl Butyl Phthalate (BBP)                                                     | 85-68-7                                                                        | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.4      | Di-Iso-Nonyl Phthalate (DINP)                                                    | 28553-12-0, 68515-48-0                                                         | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.5      | Di-N-Octyl Phthalate (DNOP)                                                      | 117-84-0                                                                       | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.6      | Di-Iso-Decyl Phthalate (DIDP)                                                    | 26761-40-0, 68515-49-1                                                         | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.7      | Di-Iso-Butyl Phthalate (DIBP)                                                    | 84-69-5                                                                        | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.8      | Di-N-Hexyl Phthalate (Dnhp)                                                      | 84-75-3                                                                        | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.9      | Bis(2-methoxyethyl)phthalate (DMEP)*                                             | 117-92-8                                                                       | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.10     | 1,2-Benzenedicarboxylic acid, Di-C7-11 Branched and Linear Alkyl Esters (DHNUP)* | 68515-42-4                                                                     | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.11     | Di-Iso-Hexyl Phthalate (Dihp)*                                                   | 71888-89-6                                                                     | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 1.12     | Di-pentylphthalate (n- iso- or mixed) (DPP)*                                     | 131-18-0                                                                       | Solvent extraction with GC/MS analysis          | 1 µg/L                      | <1    | <1               | <1              | 0.3 mg/kg       | <0.3                              |
| 2        | Halogenated Flame retardants                                                     |                                                                                |                                                 |                             |       |                  |                 |                 |                                   |
| 2.1      | Polybrominated biphenyls (PBBS)                                                  | 59536-95-1 various                                                             | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.2      | Monobromo biphenyls (MonobBB)                                                    | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.3      | Dibromo biphenyls (DiBB)                                                         | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.4      | Tribromo biphenyls (TriBB)                                                       | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.5      | Tetrabromo biphenyls (TetraBB)                                                   | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.6      | Pentabromo biphenyls (PentaBB)                                                   | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.7      | Hexabromo biphenyls (HexaBB)                                                     | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.8      | Heptabromo biphenyls (HeptaBB)                                                   | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.9      | Octabromo biphenyls (OctaBB)                                                     | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.10     | Decabromo biphenyls (DecaBB)                                                     | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.11     | Polybrominated diphenyl ethers (PBDEs)                                           | 13634-09-6 various                                                             | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.12     | Monobromo diphenyl ethers (MonobDE)                                              | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.13     | Dibromo diphenyl ethers (DiBDE)                                                  | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.14     | Tribromo diphenyl ethers (TriBDE)                                                | -                                                                              | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.15     | Tetrabromo diphenyl ethers (TetraBDE)                                            | 40088-47-9                                                                     | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.16     | Pentabromo diphenyl ethers (PentaBDE)                                            | 32534-81-9                                                                     | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.17     | Hexabromo diphenyl ethers (HexaBDE)                                              | 36483-60-0                                                                     | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.18     | Heptabromo diphenyl ethers (HeptaBDE)                                            | 68928-80-3                                                                     | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.19     | Octabromo diphenyl ethers (OctaBDE)                                              | 32536-52-0                                                                     | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.20     | Decabromo diphenyl ethers (DecaBDE)                                              | 63936-56-1                                                                     | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.03 mg/kg      | <0.03                             |
| 2.21     | Tris(2,3-dibromopropyl) phosphate (TRIS)                                         | 1163-19-5                                                                      | Solvent extraction with GC/MS or LC/MS analysis | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            | 0.25 mg/kg      | <0.25                             |
| 2.22     | Tris(2-chloroethyl) phosphate (TCEP)                                             | 126-72-7                                                                       | Solvent extraction with GC/MS or LC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            | <0.05           | 0.25 mg/kg      | <0.25                             |
| 2.23     | Hexabromocyclododecane (HBCDD)                                                   | 115-96-8<br>134237-50-6, 134237-51-7,<br>134237-52-8, 25637-99-4,<br>3194-55-6 | Solvent extraction with GC/MS or LC/MS analysis | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            | 0.25 mg/kg      | <0.25                             |
| 2.24     | Tetrabromobisphenol A (TBPPA)                                                    | 79-94-7                                                                        | Solvent extraction with GC/MS or LC/MS analysis | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            | 0.25 mg/kg      | <0.25                             |

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INORGANIC & ORGANIC ANALYSIS

Report No. PX201590081-82a

Factory:-

Sampling Address:-

| Report No.:PX/2015/90081-82a               |                                                |                                             |                                                                         |                             |       |                  |                 |                                   |                 |        |                                   |
|--------------------------------------------|------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------|-----------------------------|-------|------------------|-----------------|-----------------------------------|-----------------|--------|-----------------------------------|
| Factory:-                                  |                                                |                                             |                                                                         |                             |       |                  |                 |                                   |                 |        |                                   |
| Sampling Address:-                         |                                                |                                             |                                                                         |                             |       |                  |                 |                                   |                 |        |                                   |
| Ref. No.                                   | ITEMS                                          | CAS No.                                     | METHOD                                                                  | Water                       |       |                  |                 | Sludge                            |                 |        |                                   |
|                                            |                                                |                                             |                                                                         | Waste Water Reporting Limit | Inlet | Before Treatment | After Treatment | Local Requirement (if applicable) | Reporting Limit | Sludge | Local Requirement (if applicable) |
|                                            |                                                |                                             |                                                                         |                             |       |                  |                 |                                   |                 |        |                                   |
|                                            |                                                |                                             |                                                                         |                             |       |                  |                 |                                   |                 |        |                                   |
|                                            |                                                |                                             |                                                                         |                             |       |                  |                 |                                   |                 |        |                                   |
| <b>Subgroup: Other Flame Retardants</b>    |                                                |                                             |                                                                         |                             |       |                  |                 |                                   |                 |        |                                   |
| 2.25                                       | Tris(1-aziridinyl)phosphine oxide) (TEPA)*     | 5455-55-1                                   | Solvent extraction with GC/MS or LC/MS analysis                         | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.25 mg/kg      | <0.25  |                                   |
| 2.26                                       | Bis(2,3-dibromopropyl)phosphate (BIS)*         | 5412-25-9                                   | Solvent extraction with GC/MS or LC/MS analysis                         | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.25 mg/kg      | <0.25  |                                   |
| 2.27                                       | Sodium Tetraborate**                           | 1303-96-4, 1303-43-4, 12179-04-3, 215-540-4 | Acid Digestion with ICP analysis                                        | 0.5 µg/L                    | 35.7  | 984.4            | 777.4           |                                   | 0.25 mg/kg      | 12.97  |                                   |
| 2.28                                       | Boron trioxide**                               | 1303-86-2                                   | Acid Digestion with ICP analysis                                        | 0.5 µg/L                    | 25.0  | 689.0            | 544.1           |                                   | 0.25 mg/kg      | 9.08   |                                   |
| 2.29                                       | Boric acid**                                   | 10043-35-3, 11113-50-1                      | Acid Digestion with ICP analysis                                        | 0.5 µg/L                    | 44.4  | 1223.9           | 966.6           |                                   | 0.25 mg/kg      | 16.13  |                                   |
| 2.30                                       | Antimony trioxide**                            | 1309-64-4                                   | Acid Digestion with ICP analysis                                        | 0.5 µg/L                    | <0.5  | 311.2            | 164.0           |                                   | 0.25 mg/kg      | 46.21  |                                   |
| 2.31                                       | Tri-o-cresyl phosphate*                        | 78-30-8                                     | Solvent extraction with GC/MS or LC/MS analysis                         | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.25 mg/kg      | <0.25  |                                   |
| 2.32                                       | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)* | 13674-87-8                                  | Solvent extraction with GC/MS or LC/MS analysis                         | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.25 mg/kg      | <0.25  |                                   |
| <b>3 Amines (Associated with Azo dyes)</b> |                                                |                                             |                                                                         |                             |       |                  |                 |                                   |                 |        |                                   |
| 3.1                                        | 4-Aminodiphenyl                                | 92-67-1                                     | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.2                                        | Benzidine                                      | 92-87-5                                     | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.3                                        | 4-Chloro-o-Toluidine                           | 95-69-2                                     | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.4                                        | 2-Naphthylamine                                | 91-59-8                                     | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.5                                        | o-Aminoazotoluene                              | 97-56-3                                     | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.6                                        | 2-Amino-4-Nitrotoluene                         | 99-55-8                                     | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.7                                        | p-Chloroaniline                                | 106-47-8                                    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.8                                        | 2,4-Diaminobenzidine                           | 615-05-4                                    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.9                                        | 4,4'-Diaminodiphenylmethane                    | 101-77-9                                    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.10                                       | 3,3'-Dichlorobenzidine                         | 91-94-1                                     | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.11                                       | 3,3'-Dimethoxybenzidine                        | 119-50-4                                    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.12                                       | 3,3'-Dimethylbenzidine                         | 119-93-7                                    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.13                                       | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane      | 838-88-0                                    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 3.14                                       | p-Cresidine                                    | 120-71-8                                    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No. PX/2015/0081-82a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                               | CAS No.    | METHOD                                                                  | Water                       |       |                  |                 | Sludge          |        |                                   |                                   |
|----------|-------------------------------------|------------|-------------------------------------------------------------------------|-----------------------------|-------|------------------|-----------------|-----------------|--------|-----------------------------------|-----------------------------------|
|          |                                     |            |                                                                         | Waste Water Reporting Limit | Inlet | Before Treatment | After Treatment | Reporting Limit | Sludge | Local Requirement (if applicable) | Local Requirement (if applicable) |
| 3.15     | 4,4'-Methylene-Bis(2-Chloroaniline) | 101-14-4   | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 3.16     | 4,4'-Oxydianiline                   | 101-80-4   | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 3.17     | 4,4'-Thiodianiline                  | 139-65-1   | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 3.18     | o-Toluidine                         | 95-53-4    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 3.19     | 2,4-Toluylenediamine                | 95-80-7    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 3.20     | 2,4,5-Trimethylaniline              | 137-17-7   | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 3.21     | o-Anisidine                         | 90-04-0    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 3.22     | p-Aminozobenzene                    | 60-09-3    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 3.23     | 2,4-Xyldine                         | 95-68-1    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 3.24     | 2,6-Xyldine                         | 87-62-7    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 4        | Subgroup: Carcinogenic Dyes         |            |                                                                         |                             |       |                  |                 |                 |        |                                   |                                   |
| 4.1      | Acid Red 26*                        | 3761-53-3  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.2      | Basic Red 9*                        | 569-61-9   | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.3      | Basic Violet 14*                    | 632-99-5   | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.4      | Direct Blue 6*                      | 2602-46-2  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.5      | Direct Red 28*                      | 573-58-0   | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.6      | Direct Black 38*                    | 1937-37-7  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.7      | Disperse Blue 1*                    | 2475-45-8  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.8      | Disperse Yellow 3*                  | 2832-40-8  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.9      | Disperse Orange 11*                 | 82-28-0    | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.10     | Disperse Yellow 23*                 | 6250-23-3  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.11     | Disperse Orange 149*                | 85136-74-9 | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.12     | Solvent Yellow 1*                   | 60-09-3    | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.13     | Solvent Yellow 2*                   | 60-11-7    | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.14     | Solvent Yellow 3*                   | 97-56-3    | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.15     | Solvent Yellow 14*                  | 842-07-9   | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.16     | Basic Blue 26*                      | 2580-56-5  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.17     | Basic Violet 1*                     | 8004-87-3  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.18     | Direct Brown 95*                    | 16071-86-6 | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.19     | Direct Blue 15*                     | 2429-74-5  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.20     | Direct Blue 218*                    | 28407-37-6 | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.21     | Acid Red 114*                       | 6459-94-5  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.22     | Acid Violet 49*                     | 1694-09-3  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.23     | Disperse Blue 1*                    | 2475-45-8  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.24     | Disperse Blue 3*                    | 2475-46-9  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |
| 4.25     | Disperse Blue 7*                    | 3179-90-6  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.1 mg/kg       | <0.1   |                                   |                                   |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No. PX2015/90081-82a

Factory:-

Sampling Address:-

| Ref. No | ITEMS                          | CAS No.    | METHOD                                                        | Water                       |       |                  |                 | Sludge                            |                 |        |                                   |
|---------|--------------------------------|------------|---------------------------------------------------------------|-----------------------------|-------|------------------|-----------------|-----------------------------------|-----------------|--------|-----------------------------------|
|         |                                |            |                                                               | Waste Water Reporting Limit | Inlet | Before Treatment | After Treatment | Local Requirement (if applicable) | Reporting Limit | Sludge | Local Requirement (if applicable) |
| 4.26    | Disperse Blue 26*              | 3860-63-7  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.27    | Disperse Blue 35*              | 12222-75-2 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.28    | Disperse Blue 102*             | 12222-97-8 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.29    | Disperse Blue 106*             | 12223-01-7 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.30    | Disperse Blue 124*             | 61951-51-7 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.31    | Disperse Brown 1*              | 23355-64-8 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.32    | Disperse Orange 1*             | 2581-69-3  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.33    | Disperse Orange 3*             | 730-40-5   | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.34    | Disperse Orange 37/76*         | 13301-61-6 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.35    | Disperse Red 1*                | 2872-52-8  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.36    | Disperse Red 11*               | 2872-48-2  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.37    | Disperse Red 17*               | 3179-89-3  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.38    | Disperse Yellow 1*             | 119-15-3   | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.39    | Disperse Yellow 3*             | 2832-40-8  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.40    | Disperse Yellow 9*             | 6373-73-5  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.41    | Disperse Yellow 39*            | 12236-29-2 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 4.42    | Disperse Yellow 49*            | 54824-37-2 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | <0.1                              | 0.1 mg/kg       | <0.1   | <0.1                              |
| 5       | Organotin compounds            |            |                                                               |                             |       |                  |                 |                                   |                 |        |                                   |
| 5.1     | Monobutyltin (MBT)             | 1118-46-3  | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.2     | Dibutyltin (DBT)               | 1002-53-5  | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.3     | Tributyltin (TBT)              | 56573-85-4 | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.4     | Triphenyltin (TPHT)            | 892-20-6   | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.5     | Diocetyl tin (DOT)             | 94410-05-6 | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.6     | Monooctyltin (MOT)             | 15231-44-4 | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.7     | Diphenyltin (DPHT)             | 1011-95-6  | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.8     | Tetraethyltin (TeBT)           | 1461-25-2  | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.9     | Tricyclohexyltin (TCyT)        | NA         | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.10    | Tripropyltin (TPPT)            | NA         | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.11    | Tetraethyltin (TeET)           | 597-64-8   | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.12    | Bis(tributyltin) oxide (TBTO)* | 56-35-9    | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.13    | Dibutyltin dichloride (DBTC)*  | 683-18-1   | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |
| 5.14    | Triphenyltin (TPPT)*           | 668-34-8   | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | <0.01                             | 0.01 mg/kg      | <0.01  | <0.01                             |

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INORGANIC & ORGANIC ANALYSIS

Report No. PX(2015)90081-82a

Factory:-

Sampling Address:-

| Ref. No | ITEMS                                      | CAS No.    | METHOD                                                        | Water                       |       |                  |                 |                                   | Sludge          |        |                                   |
|---------|--------------------------------------------|------------|---------------------------------------------------------------|-----------------------------|-------|------------------|-----------------|-----------------------------------|-----------------|--------|-----------------------------------|
|         |                                            |            |                                                               | Waste Water Reporting Limit | Inlet | Before Treatment | After Treatment | Local Requirement (if applicable) | Reporting Limit | Sludge | Local Requirement (if applicable) |
| 5.15    | Dibutyltin hydrogen borate (DBB)*          | 75113-37-0 | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6       | Chloro-Benzenes                            |            |                                                               |                             |       |                  |                 |                                   |                 |        |                                   |
| 6.1     | 1,2-Dichlorobenzene                        | 95-50-1    | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.2     | 1,3-Dichlorobenzene                        | 541-73-1   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.3     | 1,4-Dichlorobenzene                        | 106-46-7   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.4     | Trichlorobenzene                           | various    | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | 0.02            |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.5     | 1,2,3-Trichlorobenzene                     | 87-61-6    | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | 0.02            |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.6     | 1,2,4-Trichlorobenzene                     | 120-82-1   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | 0.03  | <0.02            | 0.02            |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.7     | 1,3,5-Trichlorobenzene                     | 108-70-3   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | 0.04  | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.8     | Tetrachlorobenzene                         | 12408-10-5 | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.9     | 1,2,3,4-Tetrachlorobenzene                 | 634-66-2   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.10    | 1,2,3,5-Tetrachlorobenzene                 | 634-90-2   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.11    | 1,2,4,5-Tetrachlorobenzene                 | 95-94-3    | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 6.12    | Hexachlorobenzene                          | 118-74-1   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 7       | Chloro-Toluenes                            |            |                                                               |                             |       |                  |                 |                                   |                 |        |                                   |
| 7.1     | 2-chlorotoluene*                           | 95-49-8    | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 7.2     | 3-chlorotoluene*                           | 108-41-8   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 7.3     | 4-chlorotoluene*                           | 106-43-4   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 7.4     | 2,4-dichlorotoluene*                       | 32768-54-0 | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 7.5     | 2,5-dichlorotoluene*                       | 95-73-8    | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 7.6     | 2,6-dichlorotoluene*                       | 19398-61-9 | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 7.7     | 2,3,6-trichlorotoluene*                    | 118-69-4   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 7.8     | 2,4,5-trichlorotoluene*                    | 95-75-0    | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 7.9     | 2,4,6-trichlorotoluene*                    | 2077-46-5  | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 8.0     | Benzotrifluoride                           | 6639-30-1  | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 8.1     | alpha,2,4-trichlorotoluene*                | 94-99-5    | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 8.2     | alpha,2,6-trichlorotoluene*                | 2014-83-7  | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 8.3     | alpha,3,4-trichlorotoluene*                | 102-47-6   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 8.4     | alpha, alpha, 2,6-tetrachlorotoluene*      | 81-19-6    | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 8.5     | alpha, alpha, alpha, 2-tetrachlorotoluene* | 2136-89-2  | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 8.6     | alpha, alpha, alpha, 4-tetrachlorotoluene* | 5216-25-1  | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 8.7     | 2,3,4,5,6-pentachlorotoluene*              | 877-11-2   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            | <0.02           |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 9       | Chlorinated solvents                       |            |                                                               |                             |       |                  |                 |                                   |                 |        |                                   |
| 9.1     | Dichloromethane                            | 75-09-2    | Solvent extraction with GC/MS analysis                        | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 9.2     | Chloroform                                 | 67-66-3    | Solvent extraction with GC/MS analysis                        | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 9.3     | Tetrachloromethane                         | 56-23-5    | Solvent extraction with GC/MS analysis                        | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 9.4     | 1,1,2-Trichloroethane                      | 79-00-5    | Solvent extraction with GC/MS analysis                        | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 9.5     | 1,1-Dichloroethane                         | 75-34-3    | Solvent extraction with GC/MS analysis                        | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 9.6     | 1,2-Dichloroethane                         | 107-06-2   | Solvent extraction with GC/MS analysis                        | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 9.7     | Trichloroethylene                          | 79-01-6    | Solvent extraction with GC/MS analysis                        | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 9.8     | Perchloroethylene                          | 127-18-4   | Solvent extraction with GC/MS analysis                        | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No. PX201509081-82a

Factory:-

Sampling Address:-

| Ref. No                | ITEMS                      | CAS No.    | METHOD                                                                                  | Water                       |       |                  |                 |                                   | Sludge          |        |                                   |
|------------------------|----------------------------|------------|-----------------------------------------------------------------------------------------|-----------------------------|-------|------------------|-----------------|-----------------------------------|-----------------|--------|-----------------------------------|
|                        |                            |            |                                                                                         | Waste Water Reporting Limit | Inlet | Before Treatment | After Treatment | Local Requirement (if applicable) | Reporting Limit | Sludge | Local Requirement (if applicable) |
| 7.9                    | 1,1,1-trichloroethane      | 71-55-6    | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 7.10                   | 1,1,2-trichloroethane      | 630-20-6   | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 7.11                   | 1,1,2,2-tetrachloroethane  | 79-34-5    | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 7.12                   | Pentachloroethane          | 76-01-7    | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| 7.13                   | 1,1-Dichloroethylene       | 75-35-4    | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.3 mg/kg       | <0.3   |                                   |
| <b>Other VOCs</b>      |                            |            |                                                                                         |                             |       |                  |                 |                                   |                 |        |                                   |
| 7.14                   | Methyl-ethyl ketone*       | 78-93-3    | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.1 mg/kg       | <0.1   |                                   |
| 7.15                   | Benzene*                   | 71-43-2    | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.1 mg/kg       | <0.1   |                                   |
| 7.16                   | Toluene*                   | 108-88-3   | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.1 mg/kg       | <0.1   |                                   |
| 7.17                   | Ethylbenzene*              | 100-41-4   | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.1 mg/kg       | <0.1   |                                   |
| 7.18                   | Xylene*                    | 1330-20-7  | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.1 mg/kg       | <0.1   |                                   |
| 7.19                   | Styrene*                   | 100-42-5   | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.1 mg/kg       | <0.1   |                                   |
| 7.20                   | Cyclohexanone*             | 108-94-1   | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 2 mg/kg         | <2     |                                   |
| 7.21                   | 2-ethoxyethylacetate*      | 111-15-9   | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 10 mg/kg        | <10    |                                   |
| 7.22                   | 1,2,3-trichloropropane*    | 96-18-4    | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 10 mg/kg        | <10    |                                   |
| 7.23                   | Acetophenone*              | 98-66-2    | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.1 mg/kg       | <0.1   |                                   |
| 7.24                   | N,N-dimethylformamide*     | 68-12-2    | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.1 mg/kg       | <0.1   |                                   |
| 7.25                   | 1-methyl-2-pyrrolidone*    | 872-50-4   | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 50 mg/kg        | <50    |                                   |
| 7.26                   | 2-phenyl-2-propanol*       | 617-94-7   | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.1 mg/kg       | <0.1   |                                   |
| 7.27                   | Bis(2-methoxyethyl) ether* | 111-96-6   | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 20 mg/kg        | <20    |                                   |
| 7.28                   | N,N-dimethylacetamide*     | 127-19-5   | Solvent extraction with GC/MS analysis                                                  | 1 µg/L                      | <1    | <1               | <1              |                                   | 20 mg/kg        | <20    |                                   |
| <b>Chloro- Phenols</b> |                            |            |                                                                                         |                             |       |                  |                 |                                   |                 |        |                                   |
| 8                      | Pentachlorophenols (PCP)   | 87-86-5    | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
| 8.1                    | Tetrachlorophenols (TeCP)  | 25167-85-3 | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
| 8.2                    | 2,3,4,5-Tetrachlorophenol  | 4901-51-3  | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
| 8.3                    | 2,3,4,6-Tetrachlorophenol  | 58-90-2    | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
| 8.4                    | 2,3,5,6-tetrachlorophenol  | 935-95-5   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
| 8.5                    | Trichlorophenol (TriCP)    | 25167-82-2 | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
| 8.6                    | 2,4,6-trichlorophenol      | 88-06-2    | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
| 8.7                    | 2,3,4-trichlorophenol      | 15950-66-0 | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
| 8.8                    | 2,3,5-trichlorophenol      | 933-78-8   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
| 8.9                    | 2,3,6-trichlorophenol      | 933-75-5   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
| 8.10                   | 2,4,5-trichlorophenol      | 95-95-4    | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
|                        | 3,4,5-trichlorophenol      | 609-19-8   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |
|                        | Dichlorophenols (DiCP)     | 25167-81-1 | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025 |                                   |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX201509081-82a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                                                                      | CAS No.                                                               | METHOD                                                                                  | Water                       |                 |                  |                 | Sludge                            |                 |                   |                                   |
|----------|----------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------|-----------------|------------------|-----------------|-----------------------------------|-----------------|-------------------|-----------------------------------|
|          |                                                                            |                                                                       |                                                                                         | Waste Water Reporting Limit | Inlet           | Before Treatment | After Treatment | Local Requirement (if applicable) | Reporting Limit | Sludge            | Local Requirement (if applicable) |
| 8.11     | 2,3-dichlorophenol                                                         | 576-24-9                                                              | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5            | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025            |                                   |
| 8.12     | 2,4-dichlorophenol                                                         | 120-83-2                                                              | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5            | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025            |                                   |
| 8.13     | 2,5-dichlorophenol                                                         | 583-78-8                                                              | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5            | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025            |                                   |
| 8.14     | 3,4-dichlorophenol                                                         | 95-77-2                                                               | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5            | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025            |                                   |
| 8.15     | 3,5-dichlorophenol                                                         | 591-35-5                                                              | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5            | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025            |                                   |
| 8.16     | Mono Chlorophenol                                                          | Various                                                               | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5            | <0.5             | <0.5            |                                   | 0.025 mg/kg     | <0.025            |                                   |
| 9        | Short Chain Chlorinated Paraffins (SCCP) with C10-C13                      |                                                                       |                                                                                         |                             |                 |                  |                 |                                   |                 |                   |                                   |
| 9.1      | Short Chain Chlorinated Paraffins (SCCP), C <sub>10</sub> -C <sub>13</sub> | 85535-84-8                                                            | Solvent extraction with GC/MS and GC/MS analysis                                        | 0.4 µg/L                    | <0.4            | <0.4             | <0.4            |                                   | 0.03 mg/kg      | <0.03             |                                   |
| 10       | Heavy Metals                                                               |                                                                       |                                                                                         |                             |                 |                  |                 |                                   |                 |                   |                                   |
| 10.1     | Total Cadmium (Cd)                                                         | 7440-43-9                                                             | Acid Digestion with ICP analysis                                                        | 0.1 µg/L                    | <0.1            | <0.1             | 1.0             |                                   | 1 mg/kg         | <1                |                                   |
| 10.2     | Total Lead (Pb)                                                            | 7439-92-1                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | 3                | 3               |                                   | 1 mg/kg         | <1                |                                   |
| 10.3     | Total Mercury (Hg)                                                         | 7439-97-6                                                             | Acid Digestion with ICP analysis                                                        | 0.05 µg/L                   | <0.05           | 0.10             | <0.05           |                                   | 0.006 mg/kg     | 1.00 <sup>a</sup> |                                   |
| 10.4     | Total Nickel (Ni)                                                          | 7440-02-0                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | 5                | 2               |                                   | 1 mg/kg         | 2                 |                                   |
| 10.5     | Total Hexavalent Chromium (Cr-VI)                                          | 18540-29-9                                                            | Solvent extraction and derivatisation followed by UV analysis                           | 1 µg/L                      | <1 <sup>a</sup> | <1 <sup>a</sup>  | <1 <sup>a</sup> |                                   | 1 mg/kg         | 1                 |                                   |
| 10.6     | Total Arsenic (As)                                                         | 7440-38-2                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | 2                | <1              |                                   | 1 mg/kg         | 3                 |                                   |
| 10.7     | Total Chromium (Cr)                                                        | 7440-47-3                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | 34               | 3               |                                   | 1 mg/kg         | 15                |                                   |
| 10.8     | Total Copper (Cu)                                                          | 7440-50-8                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | 212              | 1               |                                   | 1 mg/kg         | 4                 |                                   |
| 10.9     | Total Cobalt (Co)                                                          | 7440-66-6                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | 22              | 9                | 32              |                                   | 4 mg/kg         | 79                |                                   |
| 10.10    | Total Zinc (Zn)                                                            | 7439-96-5                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | 15              | 39               | 15              |                                   | 1 mg/kg         | 13                |                                   |
| 10.11    | Total Manganese (Mn)                                                       | 7439-96-5                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | 260              | 137             |                                   | 1 mg/kg         | 39                |                                   |
| 10.12    | Total Antimony (Sb)                                                        | 7440-36-0                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | 6                | 1               |                                   | 1 mg/kg         | 2                 |                                   |
| 11       | Alkylphenols (APEOs)                                                       |                                                                       |                                                                                         |                             |                 |                  |                 |                                   |                 |                   |                                   |
| 11.1     | Octylphenol                                                                | various<br>140-66-9, 27193-28-8, 1806-26-4                            | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis                       | 1 µg/L                      | <1              | 4                | <1              |                                   | 0.2 mg/kg       | <0.2              |                                   |
| 11.2     | Nonylphenol                                                                | various<br>25154-52-3, 104-40-5, 90481-04-2, 84852-15-3, 1173019-62-9 | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis                       | 1 µg/L                      | <1              | <1               | <1              |                                   | 0.2 mg/kg       | <0.2              |                                   |
| 11.3     | NPEO, n=1-2                                                                | various                                                               | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis                       | 1 µg/L                      | <1              | <1               | <1              |                                   | 0.2 mg/kg       | <0.2              |                                   |
| 11.4     | NPEO, n=3-18                                                               | various<br>9016-45-9, 26027-38-3, 68412-54-4, 127087-87-0, 37205-87-1 | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis                       | 1 µg/L                      | <1              | <1               | <1              |                                   | 0.2 mg/kg       | <0.2              |                                   |

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TWB 5055536



## INORGANIC &amp; ORGANIC ANALYSIS

Report No. PX/2015/90081-82a

Factory:-

Sampling Address:-

| Ref. No | ITEMS                                              | CAS No.              | METHOD                                                                    | Water                       |       |                  |                 | Sludge                            |                 |        |                                   |
|---------|----------------------------------------------------|----------------------|---------------------------------------------------------------------------|-----------------------------|-------|------------------|-----------------|-----------------------------------|-----------------|--------|-----------------------------------|
|         |                                                    |                      |                                                                           | Waste Water Reporting Limit | Inlet | Before Treatment | After Treatment | Local Requirement (if applicable) | Reporting Limit | Sludge | Local Requirement (if applicable) |
| 11.5    | OPEO, n=1-2                                        | various              | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis         | 1 µg/L                      | <1    | <1               | <1              |                                   | 0.2 mg/kg       | <0.2   |                                   |
| 11.6    | OPEO, n=3-18                                       | various              | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis         | 1 µg/L                      | <1    | 1360             | <1              |                                   | 0.2 mg/kg       | 6.1    |                                   |
| 12      | PFCS (Perfluorocarbon / Polyfluorinated Compounds) |                      |                                                                           |                             |       |                  |                 |                                   |                 |        |                                   |
| 12.1    | PFOA                                               | 335-67-1             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | 0.04  | 0.03             | 0.13            |                                   | 0.001 mg/kg     | 0.029  |                                   |
| 12.2    | PFNA                                               | 375-95-1             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | 0.05             | 0.15            |                                   | 0.001 mg/kg     | 0.011  |                                   |
| 12.3    | PFBS                                               | 375-73-5, 59933-66-3 | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.001 mg/kg     | <0.001 |                                   |
| 12.4    | PFOS                                               | 1763-23-1            | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.001 mg/kg     | <0.001 |                                   |
| 12.5    | POSF                                               | 307-35-7             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.001 mg/kg     | <0.001 |                                   |
| 12.6    | 4,2-FTOH                                           | 2043-47-2            | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 12.7    | 6,2-FTOH                                           | 647-42-7             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 12.8    | 8,2-FTOH                                           | 678-39-7             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            |                                   | 0.01 mg/kg      | 0.02   |                                   |
| 12.9    | 10,2-FTOH                                          | 865-86-1             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 12.10   | PFHXS                                              | 355-46-4             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.001 mg/kg     | <0.001 |                                   |
| 12.11   | PFHXA                                              | 307-24-4             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | 0.02  | <0.01            | 0.06            |                                   | 0.001 mg/kg     | <0.001 |                                   |
| 12.12   | PFOSA                                              | 754-91-6             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            |                                   | 0.001 mg/kg     | <0.001 |                                   |
| 12.13   | N-Me-FOSA                                          | 31506-32-8           | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 12.14   | N-Et-FOSA                                          | 4151-50-2            | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 12.15   | N-Me-FOSE alcohol                                  | 24448-09-7           | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 12.16   | N-Et-FOSE alcohol                                  | 1691-99-2            | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            |                                   | 0.01 mg/kg      | <0.01  |                                   |
| 12.17   | PFBA                                               | 375-22-4             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.001 mg/kg     | <0.001 |                                   |
| 12.18   | PFPeA                                              | 2706-90-3            | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.001 mg/kg     | <0.001 |                                   |
| 12.19   | PFHpA                                              | 375-95-9             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | 0.05  | 0.02             | 0.27            |                                   | 0.001 mg/kg     | <0.001 |                                   |
| 12.20   | PFDA                                               | 335-76-2             | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           |                                   | 0.001 mg/kg     | 0.015  |                                   |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No. PX2015/90081-82a

Factory:-

Sampling Address :-

| Ref. No. | ITEMS                                   | CAS No.     | METHOD                                                                    | Water                       |       |                  |                 | Sludge          |        |                                   |                                   |
|----------|-----------------------------------------|-------------|---------------------------------------------------------------------------|-----------------------------|-------|------------------|-----------------|-----------------|--------|-----------------------------------|-----------------------------------|
|          |                                         |             |                                                                           | Waste Water Reporting Limit | Inlet | Before Treatment | After Treatment | Reporting Limit | Sludge | Local Requirement (if applicable) | Local Requirement (if applicable) |
| 12.21    | PFUnA                                   | 2058-94-8   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.001 mg/kg     | 0.003  |                                   | 13.50-14.00                       |
| 12.22    | PFDoA                                   | 307-55-1    | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.001 mg/kg     | <0.001 |                                   | 2015/09/11                        |
| 12.23    | PFTA                                    | 72629-94-8  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.001 mg/kg     | <0.001 |                                   | 2015/09/11                        |
| 12.24    | PFTeA                                   | 376-06-7    | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.001 mg/kg     | <0.001 |                                   |                                   |
| 12.25    | PFHpS                                   | 375-92-8    | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.001 mg/kg     | <0.001 |                                   |                                   |
| 12.26    | PFDS                                    | 335-77-3    | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.001 mg/kg     | <0.001 |                                   |                                   |
| 12.27    | 6.2 FTA                                 | 17527-29-6  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 12.28    | 8.2 FTA                                 | 27905-45-9  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 12.29    | 10.2 FTA                                | 17741-60-5  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             | <0.1            | 0.01 mg/kg      | <0.01  |                                   |                                   |
| 12.30    | PF-3.7-DMOA                             | 172155-07-6 | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.001 mg/kg     | <0.001 |                                   |                                   |
| 12.31    | HPFHpA                                  | 1546-95-8   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.001 mg/kg     | <0.001 |                                   |                                   |
| 12.32    | 4HPFUnA                                 | 34598-33-9  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.001 mg/kg     | <0.001 |                                   |                                   |
| 12.33    | 1H, 1H, 2H, 2H- PFOS                    | 27619-97-2  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            | <0.01           | 0.001 mg/kg     | <0.001 |                                   |                                   |
| 13       | Ortho- Phenylphenol                     |             |                                                                           |                             |       |                  |                 |                 |        |                                   |                                   |
| 13.1     | o-Phenylphenol (OPP)                    | 90-43-7     | Solvent extraction followed by GC/MS analysis                             | -                           | -     | -                | -               | 0.025 mg/kg     | <0.025 |                                   |                                   |
| 14       | Polycyclic Aromatic Hydrocarbons (PAHs) |             |                                                                           |                             |       |                  |                 |                 |        |                                   |                                   |
| 14.1     | Benzo(a)pyrene (BaP)                    | 50-32-8     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.2     | Anthracene                              | 120-12-7    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.3     | Pyrene                                  | 129-00-0    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.4     | Benzo(b)fluoranthene                    | 191-24-2    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.5     | Benzo(e)pyrene                          | 192-97-2    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.6     | Indeno(1,2,3-cd)pyrene                  | 193-39-5    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.7     | Benzo(k)fluoranthene                    | 205-82-3    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.8     | Benzo(b)fluoranthene                    | 205-99-2    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.9     | Fluoranthene                            | 206-44-0    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.10    | Benzo(k)fluoranthene                    | 207-08-9    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.11    | Acenaphthylene                          | 208-96-8    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.12    | Chrysene                                | 218-01-9    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.13    | Dibenz(a,h)anthracene                   | 53-70-3     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.14    | Benzo(a)anthracene                      | 56-55-3     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.15    | Acenaphthene                            | 83-32-9     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.16    | Phenanthrene                            | 85-01-8     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |
| 14.17    | Fluorene                                | 86-73-7     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               | <1              | 10 mg/kg        | <10    |                                   |                                   |

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INORGANIC & ORGANIC ANALYSIS

Report No. PX/2015/90081-82a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS               | CAS No. | METHOD                                   | Water                                    |              |                  |                 | Sludge                               |                 |        |                                      |
|----------|---------------------|---------|------------------------------------------|------------------------------------------|--------------|------------------|-----------------|--------------------------------------|-----------------|--------|--------------------------------------|
|          |                     |         |                                          | Waste Water<br>Reporting Limit<br>1 µg/L | Inlet        | Before Treatment | After Treatment | Local Requirement<br>(if applicable) | Reporting Limit | Sludge | Local Requirement<br>(if applicable) |
| 14.18    | Naphthalene         | 91-20-3 | Solvent extraction with GC/MS analysis   |                                          | 4            | 6                | 6               |                                      | 0.1 mg/kg       | 3.0    |                                      |
| 15       | General Chemistry   |         |                                          |                                          |              |                  |                 |                                      |                 |        |                                      |
| 15.1     | BOD (5-day)         | -       | SM 5210                                  | 2 mg/L                                   | <2           | 160              | <2              |                                      | -               | -      |                                      |
| 15.2     | COD                 | -       | USEPA 410.4 or SM 5220D                  | 5 mg/L                                   | <5           | 1040             | 47              |                                      | -               | -      |                                      |
| 15.3     | TSS                 | -       | SM 2540D                                 | 5 mg/L                                   | <5           | 188              | 7               |                                      | -               | -      |                                      |
| 15.4     | TDS                 | -       | SM 2540C                                 | 5 mg/L                                   | 107          | 1060             | 897             |                                      | -               | -      |                                      |
| 15.5     | Cyanide             | -       | APHA 4500 CN-B,C & E                     | 0.01 mg/L                                | <0.01        | 0.04             | <0.01           |                                      | 0.01 mg/kg      | 0.20   |                                      |
| 15.6     | Sulfide             | -       | SM 4500-S2-D                             | 0.005 mg/L                               | 0.015        | 0.024            | 0.015           |                                      | -               | -      |                                      |
| 15.7     | pH Value            | -       | SM 54500H+                               | -                                        | 6.9(29.8 °C) | 9.7(33.5 °C)     | 7.0(33.8 °C)    |                                      | -               | -      |                                      |
| 15.8     | Colour              | -       | USEPA 110.2 or SM 2120B or ISO 7887-2011 | 5 CU                                     | <5           | 125              | 75              |                                      | -               | -      |                                      |
| 15.9     | Total phenolics     | -       | Method D                                 | 0.002 mg/L                               | <0.002       | 0.085            | 0.003           |                                      | -               | -      |                                      |
| 15.10    | Ca Hardness         | -       | SM 5530B                                 | 5 mg/L                                   | 16           | 18               | 14              |                                      | -               | -      |                                      |
| 15.11    | Mg Hardness         | -       | SM 2340B                                 | 5 mg/L                                   | 17           | 19               | 13              |                                      | -               | -      |                                      |
| 15.12    | AOX <sup>1</sup>    | -       | SM 2340B                                 | 20 µg/L                                  | <20          | 960              | 140             |                                      | 10 mg/kg        | 810    |                                      |
| 15.13    | Percentage moisture | -       | in-house method                          | -                                        | -            | -                | -               |                                      | %               | 12.8   |                                      |

Remark:

\*Best current testing technology using lowest detection

<sup>a</sup>The test result is based on the calculation of selected element(s) and to the worst-case scenario

<sup>b</sup>The sample is diluted before testing due to matrix interference

<sup>1</sup>AOX testing was performed by SGS Nederland BV

\*\*\*End of Report\*\*\*

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